## Notice for specifications

I.U. = Indoor Unit  O.U. = Outdoor Unit  Qu = Quiet  ＊= Not decided yet

- Specifications and design are subject to change without notice for future improvement.
- For further details, please check with our authorised dealer.
- Cooling/Heating capacities are based on the following conditions.

| | | | |
|---|---|---|---|
| Cooling | Indoor temp. : 27℃ DB/19℃ WB<br>Outdoor temp.: 35℃ DB/24℃ WB | Heating | Indoor temp. : 20℃ DB<br>Outdoor temp.: 7℃ DB/6℃ WB |

- Performance test is in accordance with EN14511
- Seasonal efficiency test is on accordance with EN14825
- Sound power test is in accordance with EN12102

Fujitsu General (Thailand) Co., Ltd.

ISO 9001 Certified number: 01 100 075229
ISO 14001 Certified number: 01 104 9245

Fujitsu General (Shanghai) Co., Ltd.

ISO 9001 Certified number: 01 100 79269
ISO 14001 Certified number: CNBJ312244-UK

Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.

ISO 9001 Certified number: 15917Q20073R5M
ISO 14001 Certified number: 15918E20021R5M


- The products or equipments in this catalogue contain fluorinated greenhouse gases.
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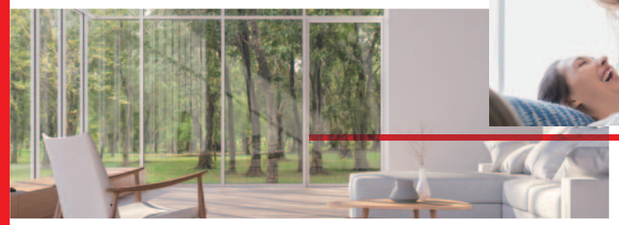
# PRODUCT CATALOGUE 2019

## AIR CONDITIONERS LINEUP

AIR CONDITIONERS LINEUP PRODUCT CATALOGUE 2019





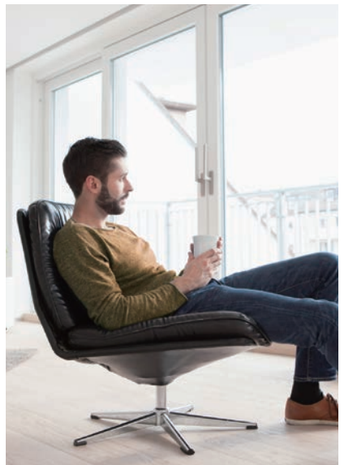



FUJITSU GENERAL LIMITED

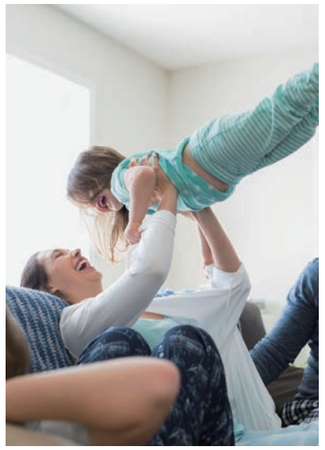
FUJITSU GENERAL LIMITED

OUR MESSAGE
SOLUTIONS
SPLIT
MULTI SPLIT
VRF
VENTILATION
CONTROL SYSTEM & OPTIONAL PARTS
AIR TO WATER
SUPPORT

# OUR SOLUTION
for ALL LIFE SCENES











Fujitsu General provides comfortable and economical air conditioning systems that fit architectural trends and environmental awareness in Europe
– from business scene to lifestyle scene.

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**PRODUCT LINEUP**

042 SPLIT
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170 VRF
214 VENTILATION
222 CONTROL SYSTEM & OPTIONAL PARTS
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# OUR MESSAGE

## Innovation & Globalization

Providing a Brand New Tomorrow to
Everyone on Earth

**Design** for Future

**Design** for Comfort

**Design** for Control

History
World Wide Locations
Global Business Activities
Project Reference
Global Development & Production Bases
High Quality Development & Production Facilities



# **Design** for Future

We provide reliable technologies approved and cultivated in the European market where environmentally friendly regulations are very strict. We are working on making environmentally friendly products we can be proud of in the future in our research, development and manufacturing processes.

## Our Pioneering Efforts Make Green Future

Approach to new energy efficiency standard Fujitsu General following the EU climate action plan 20/20/20 by 2020.

### 20% Less Primary Energy Use

Fujitsu General products with high efficiency and therefore low electricity

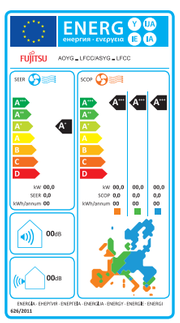
### 20% Less $CO_2$ Emissions

Fujitsu General products sharply following the F-gas regulation 517/2014

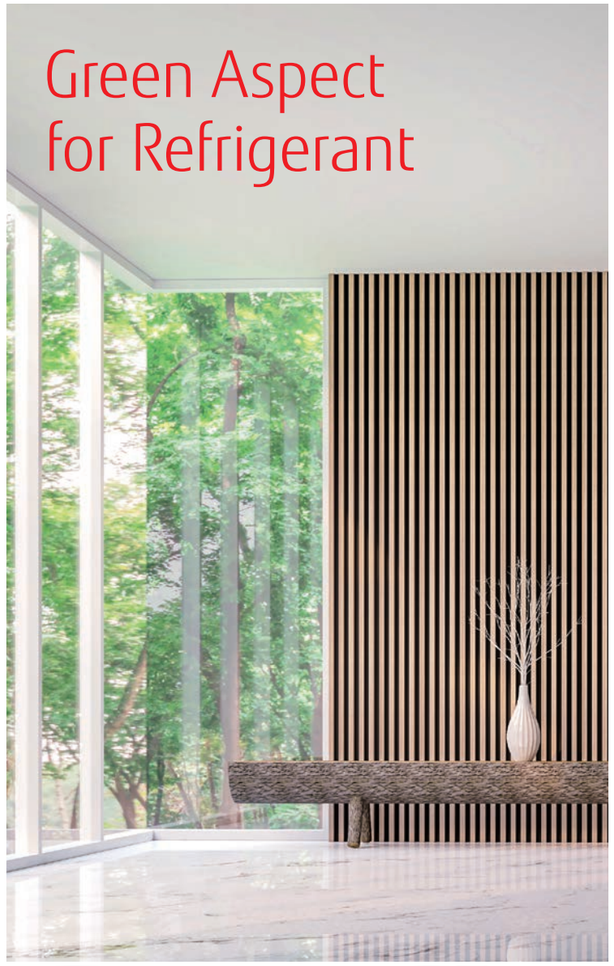
### 20% Share of Renewable Energy

Fujitsu General promoting air sourced heat pumps as renewable energy source heating systems

**New Energy Labelling Requirement 626/2011/EU**
Our Air Conditioners have reached the **"Class A"** ranking, the highest energy efficiency level that is now shown on energy labels in Europe.




| | SEER (Cooling mode) | SCOP (Heating mode) |
|---|---|---|
| A+++ | SEER ≥ 8.50 | SCOP ≥ 5.10 |
| A++ | 6.10 ≤ SEER < 8.50 | 4.60 ≤ SCOP < 5.10 |
| A+ | 5.60 ≤ SEER < 6.10 | 4.00 ≤ SCOP < 4.60 |
| A | 5.10 ≤ SEER < 5.60 | 3.40 ≤ SCOP < 4.00 |
| B | 4.60 ≤ SEER < 5.10 | 3.10 ≤ SCOP < 3.40 |
| C | 4.10 ≤ SEER < 4.60 | 2.80 ≤ SCOP < 3.10 |
| D | 3.60 ≤ SEER < 4.10 | 2.50 ≤ SCOP < 2.80 |
| E | 3.10 ≤ SEER < 3.60 | 2.20 ≤ SCOP < 2.50 |
| F | 2.60 ≤ SEER < 3.10 | 1.90 ≤ SCOP < 2.20 |
| G | SEER < 2.60 | SCOP < 1.90 |






## EU strengthen F-gas Regulation introduced 2014.

New EU F-gas Regulation aims prevention of emissions and reduction the use of higher GWP F-gases.

**Key elements**

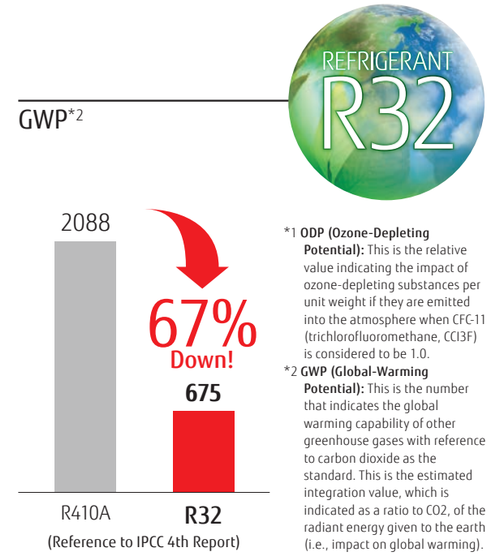
- Phase down approach
- Quota allocation
- Restrictions on the placing on the market
- Traceability of HFC contained in pre-charged equipment

Fujitsu General work on the reduction of HFC with innovative efforts

## New refrigerant R32 for the reduction of the global warming potential.

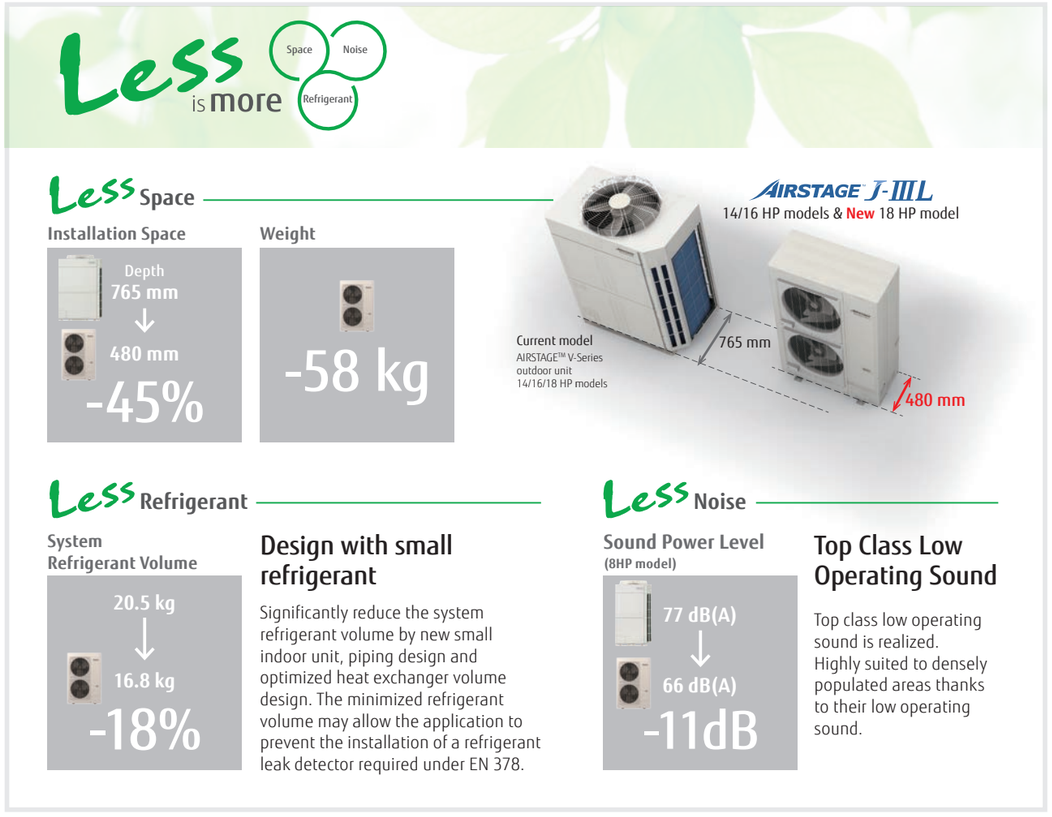
**Key points**

- The ozone-depleting potential (ODP*1) is 0!
- Environmental properties
- Performance
- Economic efficiency




*1 **ODP (Ozone-Depleting Potential):** This is the relative value indicating the impact of ozone-depleting substances per unit weight if they are emitted into the atmosphere when CFC-11 (trichlorofluoromethane, CCl3F) is considered to be 1.0.

*2 **GWP (Global-Warming Potential):** This is the number that indicates the global warming capability of other greenhouse gases with reference to carbon dioxide as the standard. This is the estimated integration value, which is indicated as a ratio to CO2, of the radiant energy given to the earth (i.e., impact on global warming).



# **Design** for Comfort

Fujitsu General has developed and commercialized numerous world-first technologies with a commitment to real comfort. This concept also applies to our designs. We will continue to pursue the possibilities of air conditioners and provide new comfort in the future.

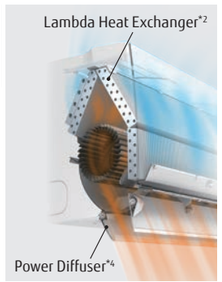
## Comfort by Design with Advanced Technology

*1, *2, *3, *4, *5

The Dual Side Fans equipped to our flagship "nocria X" model optimally control the airflow. Their distinctive form delivers comfortable airflow to the corners of room. The Power Diffuser opens the lower flap of the main unit to blow warm air downward. This heats up rooms from the floor to increase heating efficiency. Lambda Heat Exchanger improves the operating efficiency and expands the possibilities of design, such as compactness of indoor units. Moreover, we have developed the automatic cleaning of filters for the first time to ensure maintenance and operating efficiency.
The airflow control system of nocria X is also applied to cassette type. 3 airflows create comfortable space. Fujitsu General is developing unique technologies to provide pleasant spaces.


The Dual Side Fans*1


Filter Auto Clean*3





3 Air Outlet Ports*5

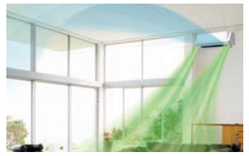
*1: Announced 2012. In room air conditioner for the home (our company's investigation)
*4: Announced 1991. In room air conditioner for the home (our company's investigation)
*2: Announced 1994. In room air conditioner for the home (our company's investigation)
*3: Announced 2012. In room air conditioner for the home (our company's investigation)
*5: Announced 2018. In room air conditioner for the home (our company's investigation)

## Comfortable Airflow




DUAL BLASTER

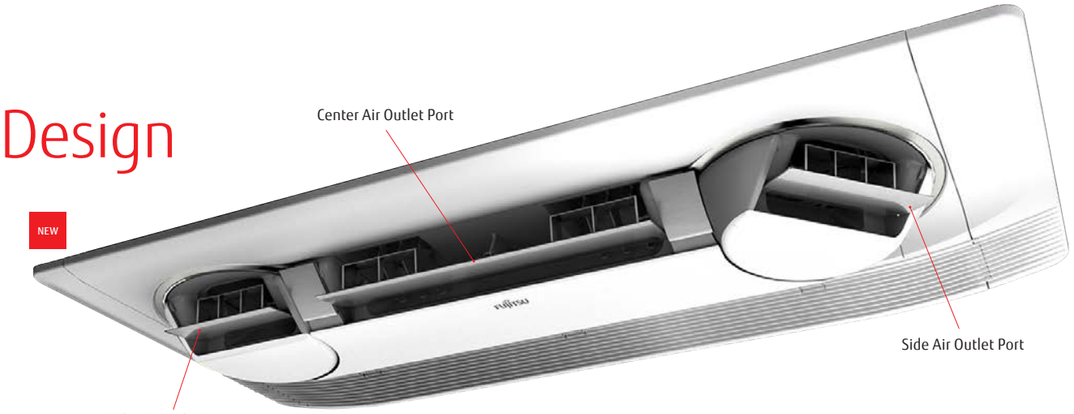
Comfortable airflow control to prevent the body from being exposed to airflow.





## Design

NEW

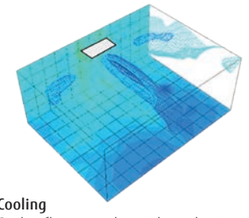



### New 3D Flow Cassette

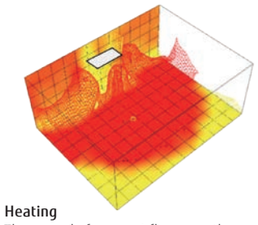
- Achieves a comfortable living space throughout the entire room using 3 airflows.*5
- The unit was designed to overcome a variety of installation limitations, which can occur at installation site.
- New air discharge design provides high intact and smooth discharge with reduced loss and top-class high energy saving performance.



**Temperature distribution during cooling and heating**
**(when set to comfortable airflow)**



**Cooling**
Cool airflow spreads out throughout the room so that there is a comfortable coolness anywhere in the room
*When cooling operation is stable with an outside air temperature of 35°C, a set temperature of 18°C and an air volume set to "Hi" in a 40 m² environmental our test room for the AUXS018GLEH



**Heating**
The spread of warm airflow near the floor*6 is approximately 80% of the room – this is approximately three times that of conventional duct type air conditioners*7 (Refer to the figure below)
*When heating operation is stable with an outside air temperature of 7°C, a set temperature of 30°C and an air volume set to "Hi" in a 40 m² environmental our test room for the AUXS024GLEH

*6: When heating operation is stable with an outside air temperature of 7°C, a set temperature of 30°C and an air volume set to "Hi" in a 40 m² environmental our test room for the AUXS018GLEH, the temperature distribution 10 cm above the floor was measured and the areas at 28°C or more were compared.
*7: Fujitsu General ARXK24GCLH duct type air conditioner

## Beautiful Space Design

Design Award winning products
**Wall Mounted**


KM Series
GOOD DESIGN


KG Series
GOOD DESIGN


LT Series
reddot design award winner 2012



This fits grid ceiling system.
**Compact Cassette**
**Grid type**


Beautiful designs from all angles.
**Cassette Circular Flow**

# **Design** for Control

Using the Internet of Things (IoT), Fujitsu General actively provides services that allow users to control air conditioners from their smartphones.
We will expand open co-creation efforts with external partners and deepen our use of IoT and artificial intelligence (AI) to develop new functions and services in efforts to develop secure, convenient air conditioners.

## User Friendly Interface

**User friendly screen display facilitates easy operation.**

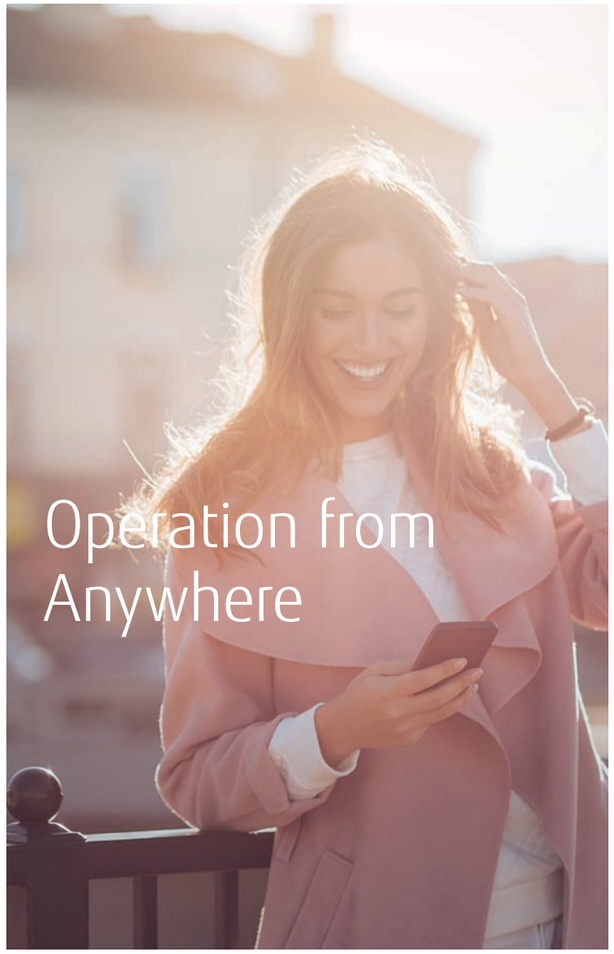
By using our Wireless LAN Interface and "FGLair" app, you can control your home's cooling and heating anytime and anywhere.

Get FGLair
Download Free

Download on the App Store

ANDROID APP ON Google play

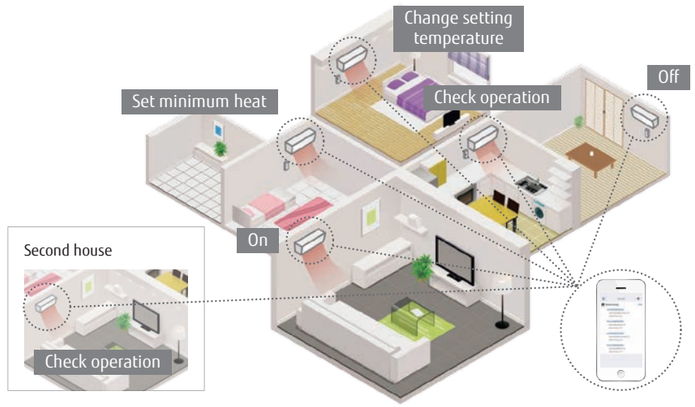





## If you forget to turn off your system before you left your home - no problem!

"FGLair" is an application software that enables you to operate the Fujitsu General's air conditioner(s) with a mobile device from anywhere out of your home or when you are on travelling.




## Wireless LAN Interface

The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.

NEW




+

FGLair

NEW

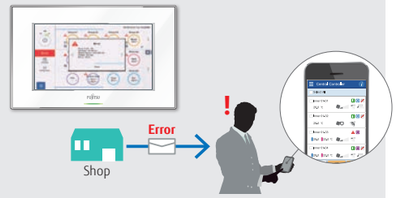


## New Central Remote Controller for VRF

New Central Remote Controller allows many menus to display on the top screen by adopting touch panel screen. Necessary window pops up only by touching the menu you want to operate. More intuitive operation can be performed.

**Remote monitoring/ Remote operation**

New central remote controller can control your tenant's air conditioner anytime and anywhere.



# History 1936 Established as Yaou Shouten Ltd.

## Overseas Air Conditioning Business since 1971

1960: Air conditioning business starts. Japan-domestic business starts.

1971: Air conditioner exports to Middle East.
1977: "Super Power, Super Quiet" series
1982: Window type 3 Super series
**AL/AX series**



1985: Large wall mounted and multi air conditioner introduced.

### 1950 ~

For Residential

WORLD'S FIRST *1,*2 1991: Air conditioner with the world's first lambda heat exchanger
1994: Air conditioner with the world's first power diffuser

### 1970 ~

For Commercial

**2001**
AIRSTAGE™ series is released. VRF air conditioners for large-sized buildings.

WORLD'S FIRST *3 **2002**
Air conditioner with the world's first automatic self-cleaning filter system



nocria™

### 2000 ~

For Light Commercial

**2004**
Standalone type small VRF AIRSTAGE™ J series is released.

**2006**
VRF Heat Pump type Max. 42 HP AIRSTAGE™ V series is released.
2009: Heat Pump Modular type Max. 48 HP AIRSTAGE™ V-II series is released.

**2009**
Air to Water system is released.
WATERSTAGE™

### 2010 ~

2011: High energy saving type AIRSTAGE™ J-II series is released.
2014: Small & lightweight outdoor unit AIRSTAGE™ J-IIS that has improved easy installation with a single fan



AIRSTAGE J-IIS

**2016**
Small VRF AIRSTAGE™ J-III that has advanced energy saving and easy installation is released.



AIRSTAGE J-III

**2012**
Heat Recovery Modular type AIRSTAGE™ VR-II max. 48 HP is released.

**2014-15**
Heat pump modular type AIRSTAGE™ V-III max. 54 HP ideal for large properties is released



AIRSTAGE V-III

**2011**
Hi-spec Design model is released.




**2017**
Flagship Wall Mounted models

WORLD'S FIRST *4



R32 KX Series nocria X

## 2019 New Topic

**2017-19** NEW
New small VRF AIRSTAGE™ J-IIIL suitable for diverse light commercial properties is released.



AIRSTAGE J-IIIL
8-16 HP models
& New 18 HP model

**2019** NEW
New cassette style release.

WORLD'S FIRST *5



3D Flow Cassette

**2018-19** NEW
Environment-friendly new refrigerant R32 models are added.

REFRIGERANT R32




Single / Multi Split



Multi Split

**2019** NEW
Air to Water system High capacity models that increase heating efficiency are added to our lineup.

WATERSTAGE™
15/16/17 kW models



## Manufacturing Company Establishment

1955: Headquarters in Kawasaki
1964: Electronic components factory in Ichinoseki



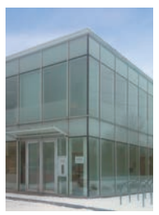
1977: Air conditioner manufacturing company in Hamamatsu (now Hamamatsu business office.)
1991: Air conditioner manufacturing company in Thailand.
1994: Air conditioner manufacturing company in Shanghai, China.
1998: Air conditioner motor manufacturing company in Thailand.

2006: VRF air conditioner manufacturer, sale, and service company in China.
2007: Air conditioner technology building completed on Main Office group. Air conditioner R&D Center in Kawasaki
2009: Operation of compressor factory begins in Thailand.



2012: Joint venture in Thailand to manufacture compressors
2016: Commercial use air conditioner R&D Center in Thailand



Fujitsu General (U.K.) Co., Ltd. (U.K.)



Fujitsu General (EURO) GmbH

## Sales & Service Maintenance Company Establishment

1976: North America sales company
1977: Europe sales company (UK)
1978: Australia sales company / Europe sales company (Germany)
1980: Brazil sales company
1997: Asia sales company (Singapore)
1998: Middle East sales company (UAE) / New Zealand sales company

2000: Air conditioner manufacturing and sale technical partnership in India
2002: Taiwan sales company
2006: China sales company

2016: THE AIRSTAGE on Broadway in New York




**2019**

**Construction of new building to strengthen development capabilities at Kawasaki head office:**

Base to create new value by combining internal and external knowledge



*1. Announced 1991. In room air conditioner for the home (our company's investigation) *2. Announced 1994. In room air conditioner for the home (our company's investigation)
*3. Announced 2002. In room air conditioner for the home (our company's investigation) *4 Announced 2012. In room air conditioner for the home (Our company's investigation)
*5: Announced 2018. In room air conditioner for the home (Our company's investigation)

# World Wide Locations

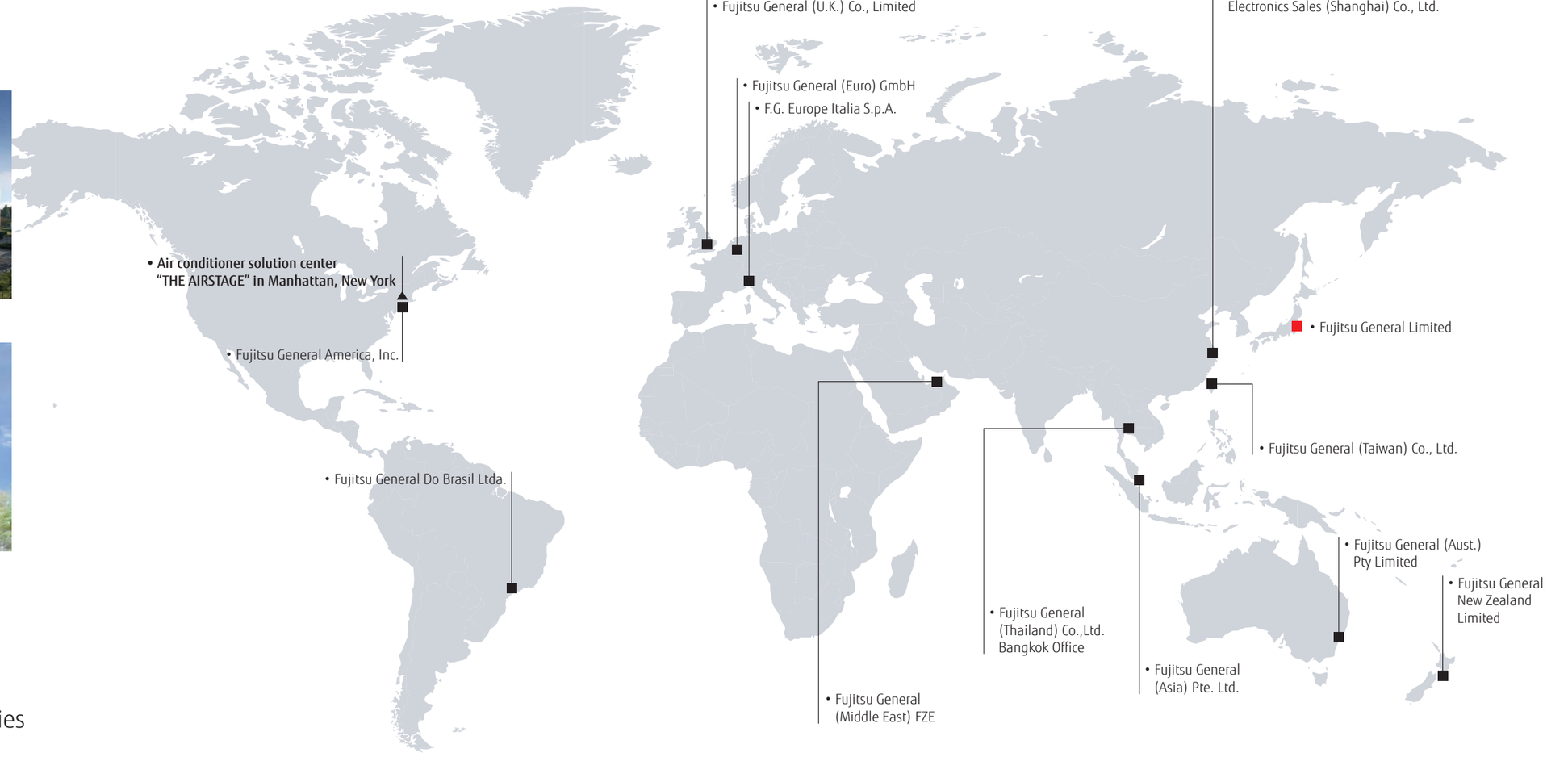
Promoting Globalization from a global perspective while emphasizing the actual local situation in the field under the aim of advancing our five-base system (Europe, Middle East, Asia & Oceania, Americas, and Japan)




JAPAN Head Office



**New** Technology Research Building (Japan)




## 14 Overseas Sales Companies



Fujitsu General Orient International Electronics Sales (Shanghai) Co., Ltd. (China)



Fujitsu General (Taiwan) Co., Ltd. (Taiwan)



Fujitsu General (Thailand) Co.,Ltd. Bangkok Office (Thailand)



Fujitsu General (Asia) PTE. Ltd. (Singapore)



Fujitsu General (EURO) GmbH (Germany)



Fujitsu General (U.K.) Co., Ltd. (U.K.)



Fujitsu General Air Conditioning (UK) Limited (U.K.)



F.G. Europe Italia S.p.A. (Italy)




Fujitsu General (Aust.) Pty Ltd. (Australia)



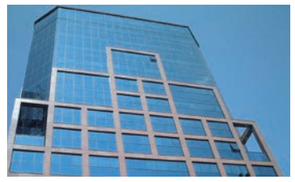
Fujitsu General New Zealand Ltd. (New Zealand)




Fujitsu General (Middle East) FZE (U.A.E.)



FUJITSU GENERAL SOLUTION CENTER "THE AIRSTAGE" (U.S.A.)

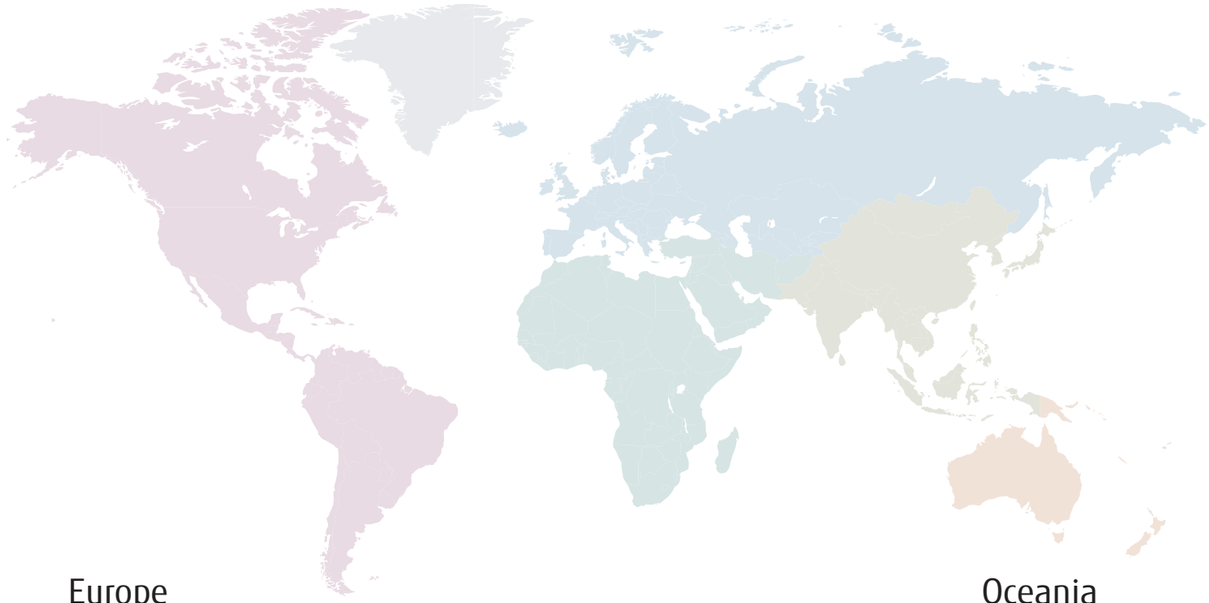


Fujitsu General Do Brasil Ltda.(Brasil)



Fujitsu General America, Inc. (U.S.A.)

# Global Business Activities



We are engaging in advertising, human resource development, CS activities, and social contribution activities worldwide.
These activities have been recognized throughout different regions by the awards we have been honored with.

## North/South America



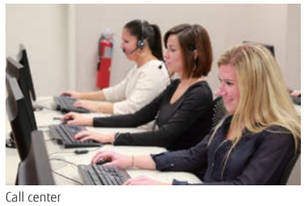

AHR Expo




HVAC trade show in Brasil



Distributor meeting



Call center

## Middle East



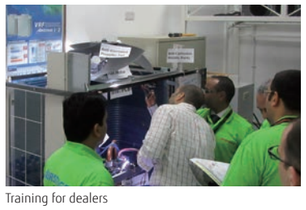

Exhibition



Exhibition




Technical seminar



Training for dealers

## Europe




HVAC trade show in Europe countries



Presentation & training




HVAC trade show in Europe countries




ACR Show



## Oceania




HVAC trade show in Australia




Charity (Christchurch)



Service & Maintenance

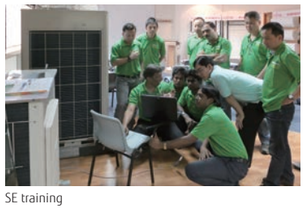
## Asia



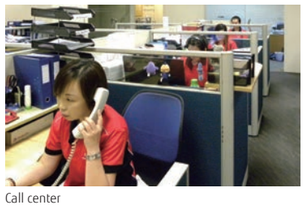

New Product Presentation Meeting



VRF training



SE training



Call center

## International authoritative design awards



"Dealer Design Awards" of "the NEWS"



Gold Award (Category: HVAC & PLUMBING) in Reader's Choice Awards



TOP OF MIND 2016" First prize in "MARCA DE EQUIPAMENTODE AR-CONDICIONADO" category of "CLIMATIZACAO" division

AWARDED Superbrands UAE'S CHOICE 2016

Super brand is the world's largest independent arbiter of branding

iF product design award 2012

The iF Product Design Award is given each year by "iF International Forum Design GmbH" for industrial products from around the world.

reddot design award winner 2012

The product design competition has existed since 1955. Its award, the "red dot", is an internationally recognized quality seal.



Coolworld Industry Awards "Most Efficient Air Conditioner"

CANSTAR MOST SATISFIED CUSTOMERS AIR CONDITIONERS - 2012

Canstar Blue Most Satisfied Customers Award



China State Construction Engineering Luban Prize

GOOD DESIGN

The Good Design Award is sponsored by the Japan Institute of Design Promotion and is awarded once a year for an item of excellent design.

# Project Reference

Our product is popular because of its high quality, energy saving, and easy installation, and so has been installed in a wide range of building types including high-rise office buildings, stores, hotels, public facilities, schools, hospitals and residential.

**Fujitsu General's Products have been installed in over 50 countries worldwide.**




1




2



3




4



5



6



7



8

## For Light Commercial

1 Shop in Europe
2 Shop in Europe
3 Museum in Europe
4 Hotel in Oceania
5 Restaurant in Middle East
6 School in U.S.A.
7 Hospital in Asia
8 Shop in Asia



9




10



11



12

## For Commercial

9 Office in Europe
10 Office in Europe
11 Office in Europe
12 Hotel in Asia



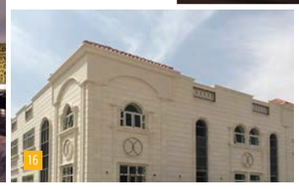
13




14



15



16

## For Residential

13 Residential in Europe
14 Residential in Europe
15 Residential in Oceania
16 Residential in Middle East

# Global Development
## & Production Bases

R&D centers are set up in five countries of Japan, Europe, Asia, China and North America in the world.
We pursue the environmental property and comfort to meet each area needs.

- Head Office
- R&D Center
- Manufacturing Companies




## R&D Center & New Technology Research Building


R&D Center in Fujitsu General (Shanghai)


R&D Center in Fujitsu General Engineering (Thailand)


R&D Center in Fujitsu General (EURO) GmbH (Germany)


R&D Center in Fujitsu General America (U.S.A.)



JAPAN Head Office
R&D Center and 60 m Height Difference Testing Tower (Japan)

**New**
**Technology Research Building**
**in Japan Head Office**




## Overseas Manufacturing Companies



Fujitsu General (Shanghai) Co., Ltd. (China)


F.G.L.S. Electric Co., Ltd. (China)


Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd. (China)



Fujitsu General (Thailand) Co., Ltd. (Thailand)



Fujitsu General Engineering (Thailand) Co., Ltd. (Thailand)



FGA (Thailand) Co., Ltd. (Thailand)



TCFG Compressor (Thailand) Co.,Ltd. (Thailand)

# High Quality Development
## & Production Facilities

## Advanced Research Facility and Equipment

### Performance Testing



**Air Volume Measurement Room**
Measure air volumes of the air conditioners from compact RAC models to VRF.



**Calorimeter**
Measure the cooling/heating capacity by measuring the inlet and outlet temperatures, humidity, and air volume of the air conditioner.



**Silent Room**
Measure the operating sounds of air conditioners with the sound reflection-proof walls and ceiling.

### Reliability Testing



**Constant Temperature Room**
Check on the product performance in cooling/heating operation under the various temperature and humidity conditions.



**Practical Test Room**
Check on whether the air conditioners performance under the actual house conditions is sustainable.



**Shower Test Room**
Check on whether the electrical box of the outdoor unit is protected by rain waters with Typhoon like wind.

### Transportation & Handling



**Compressibility testing**



**Vibration testing**

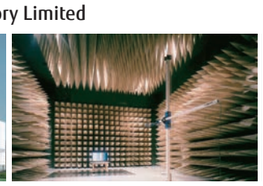


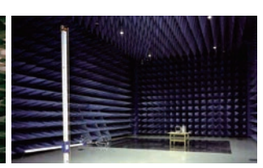
**New**
**Technology Research Building**
**in Japan Head Office**

## Testing Laboratory

**Fujitsu General EMC Laboratory Limited**





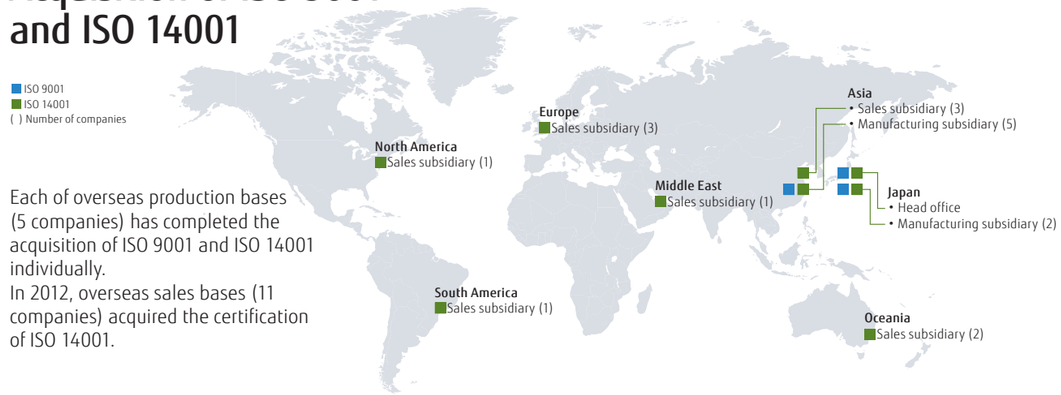


**60 m Height Difference Testing Tower**
Objective is to confirm oil circulation of compressor for reliability



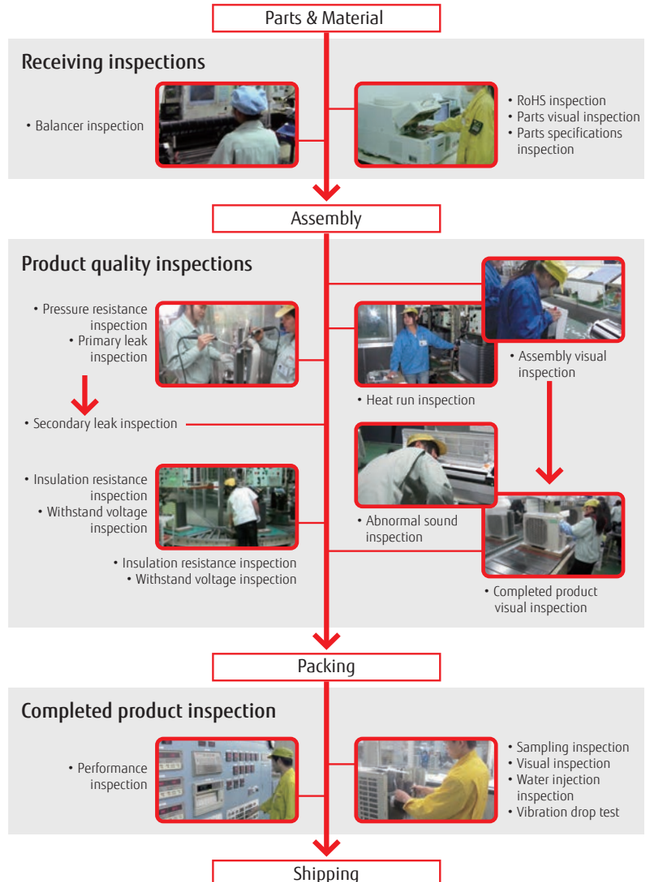
Fujitsu General is one of Japan's leading manufacturers with an R&D Center in Japan. We provide customers with the highest quality and performance using these facilities.

## Acquisition of ISO 9001 and ISO 14001




Each of overseas production bases (5 companies) has completed the acquisition of ISO 9001 and ISO 14001 individually.
In 2012, overseas sales bases (11 companies) acquired the certification of ISO 14001.

## High Product Quality Assurance




All Fujitsu General factories have acquired ISO 9001, and have built a quality control system common around the world. High quality products are offered to all over the world based on stringent quality inspections.

### Receiving inspection

Parts procurement requires a supplier's test report. European regulation RoHS inspection is also performed by special test department in-house. Total number inspection is performed especially on main parts to remove defectives.

### Stringent product quality inspection

Stringent quality inspection is carried out at all production processes. High quality is maintained by stringent checks by inspectors and repetitive inspection.

# 2019 New Products

## SPLIT

### Wall Mounted
Exquisite Design Range series
High Efficiency & Comfort
Future Release

KE Series



- 7/9/12 class 3 models, 2 colors
- New compact design chassis
- High energy efficiency
- New type Wireless LAN adaptor (option)
- R32 refrigerant & low refrigerant volume

### Wall Mounted
Standard Range series
High Efficiency & Large Room

Page 062

KM Series



- 18/24 class  2 models
- High energy efficiency
- Family look design
- New type  Wireless LAN adaptor (option)
- R32 refrigerant & low refrigerant volume

### Wall Mounted
ECO Range series
Compact & Comfort

Page 064

KP Series



- 7/9/12 class 3 models
- New compact design chassis &  high energy saving
- New type  Wireless LAN adaptor (option)
- R32 refrigerant & low refrigerant volume

### Cassette
Compact 4-way Flow series
Compact & Comfort

Page 080



- 9 – 24 class 6 models
- Compact & stylish panel design
- Easy maintenance

### Cassette
Circular Flow series
Comfort for Large Room

Page 084



- 18 – 54 class 7 models
- Individual louver control
- Various cassette grille
- Unique circular flow design

### Slim Duct
Slim & Comfort

Page 092



- 9/12/14/18 class 4 models
- High efficiency & quiet operation
- Small and light weight outdoor unit
- Up to -15°C at cooling operation

### Medium Static Pressure Duct
Compact & Comfort

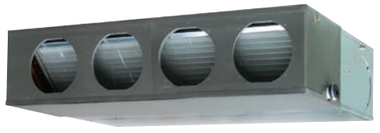
Page 096



- 12 – 54 class 9 models
- High efficiency & quiet operation
- Small and light weight outdoor unit
- Up to -15°C at cooling operation

### Medium Static Pressure Duct
Standard

Page 100



- Single phase 22 – 45 class 5 models
- Compact outdoor unit
- Slim & compact design indoor unit
- Up to -15°C at cooling operation

### High Static Pressure Duct

Page 104



- 45/54 class 2 models
- Compact outdoor unit
- All DC inverter technology
- Design also corresponding to high static pressure

## MULTI SPLIT



### 2 Rooms Multi Outdoor units

Page 128

- 14/18 class 2 models
- Space saving application
- Up to -15°C at cooling operation
- Various indoor units lineup



14 class



18 class

### New indoor unit lineup

Page 142

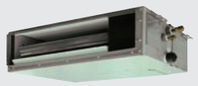
- 4 types 20 models
- Capacity range from 2.0 kW to 4.0 kW class



Wall Mounted



Compact Cassette



Mini Duct



Slim Duct



### Simultaneous Multi Twin/Triple

Page 136

- 4/5/6 HP 3 models
- Slim & Compact design outdoor unit
- Flexible installation



Twin 36 class



Twin/Triple 45/54 class

### New indoor unit lineup

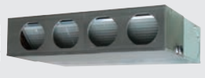
- 3 types 6 models indoor units



Compact Cassette



Slim Duct



Medium Static Pressure Duct



## VRF





### AIRSTAGE J-III L

**Outdoor Unit 18 HP model**

Page 184

- Slim & compact design
- Top class low noise
- Up to 42 indoor units can be connected
- Design with small refrigerant

### 3D Flow Cassette for VRF

Page 206

- 18/24 class 2 models
- Three air outlet ports realize wide air flow
- Three air outlet ports can be controlled individually
- High energy saving
- Low input power



WORLD'S FIRST *1

*1: Announced 2018. In room air conditioner for the home (our company's investigation)

## CONTROL SYSTEM

### Wireless LAN Interface

Page 236

- Operation from anywhere
- Easy to install and set up



### Central Remote Controller

Page 247

- Remarkable design
- User friendly
- Remote monitoring operation
- Supporting Max. 23 different-languages



## AIR TO WATER



### WATERSTAGE

### Split type & Split DHW Integrated type Super High Power Series

Page 278

- 15/16/17 kW class 3 models outdoor units, 4 models Hydraulic indoor units
- Advanced heating capability at low outside temperature
- Enhanced anti-freezing functions in cold areas
- Quiet design against the noise when being operated at night



## From Business to Private Spaces

# SOLUTIONS




**For Light Commercial**

We offer comfortable and economical air conditioning systems focused on small to medium-sized buildings.

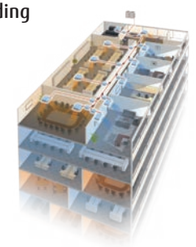
030 Shops, Restaurant
032 Small Office
034 Hotels
036 School



**For Commercial**

We provide single and modular type VRF systems designed for high efficiency, comfort, freedom of design, easy installation and high reliability.

038 Large Building



**For Residential**

We provide smart air conditioning systems with a wide range of control options for comfortable control and convenient use.

040 Residence
















A casual conversation with a colleague at work

A presentation in a large meeting room

A restaurant you dropped by when going out Your regular living room

We have a lineup of air conditioners ideal for all these situations – from business to private spaces. The air conditioners of Fujitsu General can be found in various settings of life.

# Restaurant, Shops

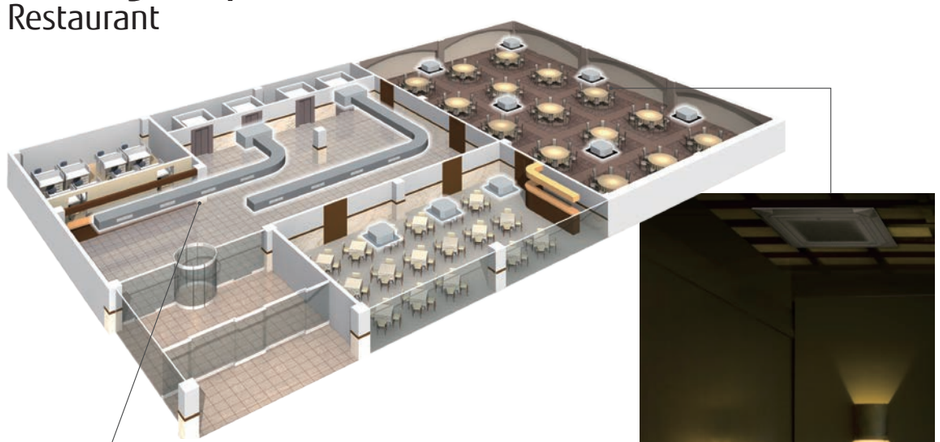
## For Light Commercial

Fujitsu General provides perfect total air conditioning systems that offer smooth support by tenant, by purpose and by customer visit frequency in shops and restaurants with multiple lighting and a high density of customers.




## New Single Split

### For Restaurant





### R32 large models lineup expanded

The lineup of cassette type and duct type suitable for large spaces has been expanded by adding models that use the environmentally-friendly new refrigerant R32.



High Static Pressure Duct

Compact Cassette



Circular Flow Cassette Series

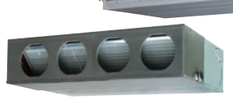
Mini Duct





Slim Duct





Medium Static Pressure Duct



Circular Flow Cassette Series
For ambiences with dim lightings



For bright Interior rooms etc.

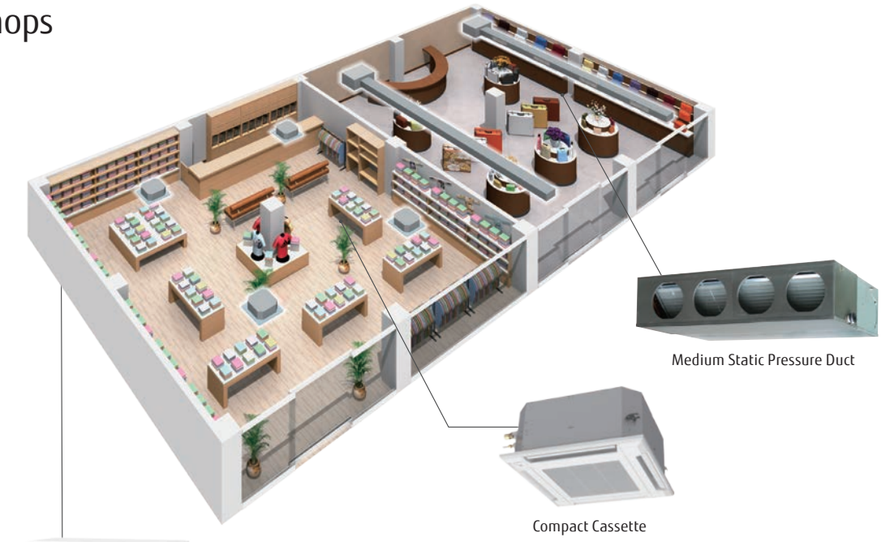


### Color variations by two panels

Both black and white panels are available for Cassette type. Black panel is suitable for the dark place such as a restaurant with atmosphere. White panel is usually used at bright areas such as offices. (Available to single split and VRF indoor units)

## New Simultaneous Multi

### For Shops



Medium Static Pressure Duct

Compact Cassette



Twin 36 class
(Single phase)

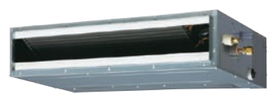
Twin/Triple 45/54 class
(Single phase)

### Small and light weight outdoor unit

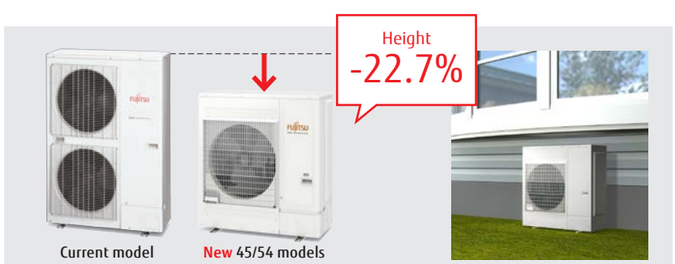
Models using new refrigerant R32. Compared to the current models the outdoor unit is more compact and easier to install. (45/54 models)
A compact cassette grid type for grid ceiling systems was added for indoor unit lineup and ease of installation was improved.

### Various indoor unit lineup

We provide 3 types of indoor units. You can select them to suit the atmosphere and layout of your shop.



Slim Duct




Current model

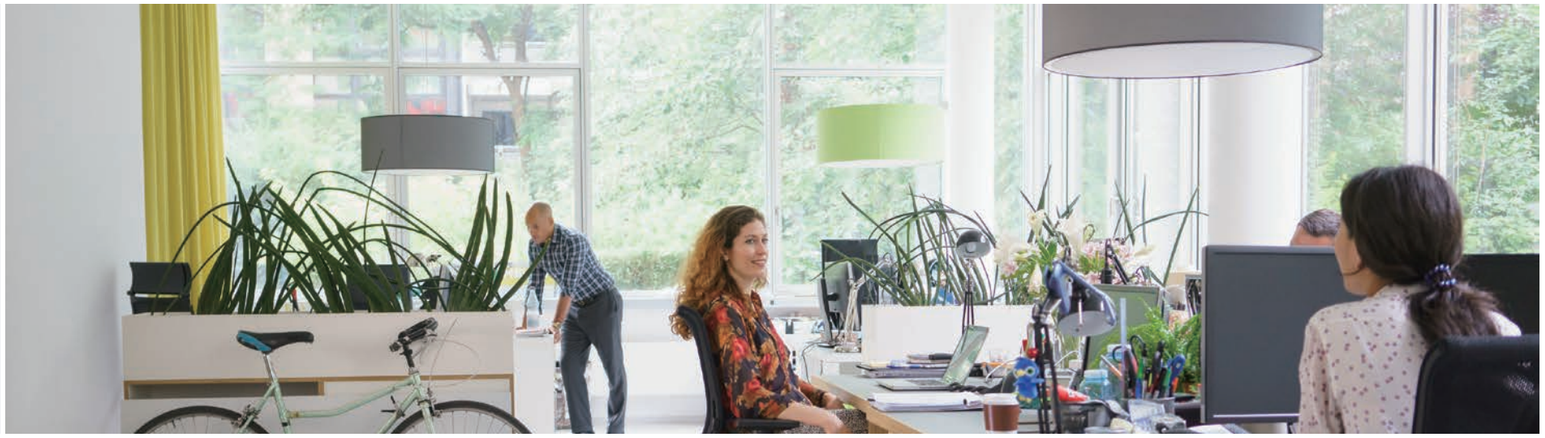
New 45/54 models

Image

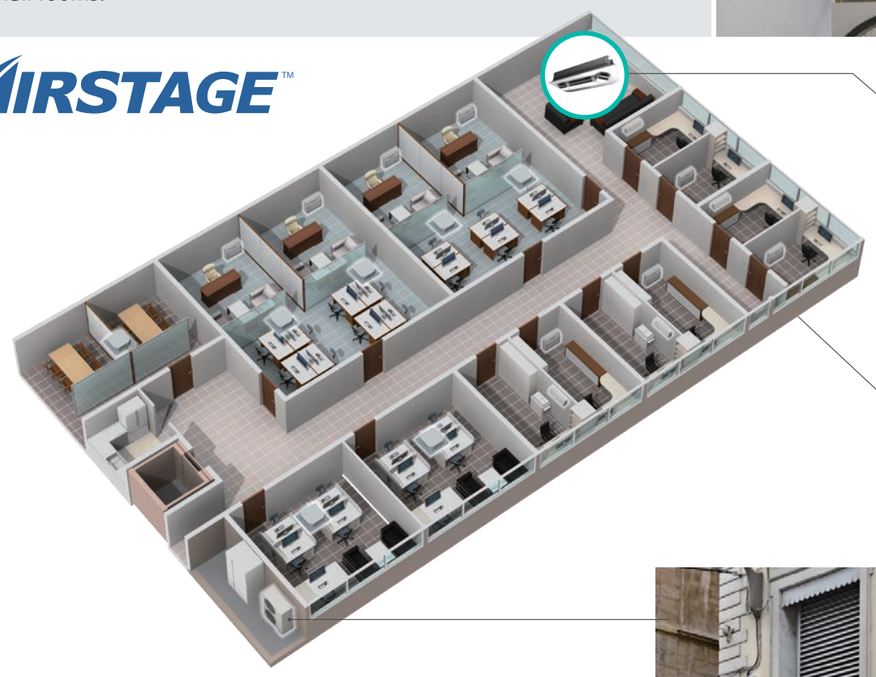
# Small Offices

## For Light Commercial

Fujitsu General provides perfect total air conditioning systems that take into account energy saving, low noise, comfortable airflow, small room application and centralized control for small-sized office buildings with many small rooms.



AIRSTAGE™





J-III

J-IIIL

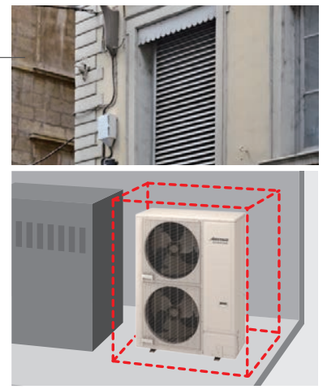
NEW
18 HP model

J-IIIL
High capacity model

## AIRSTAGE™ J-Series Up to 18 HP by compact outdoor unit

Small VRF system is suitable for the buildings with many small rooms. Max. 42* indoor units can be connected.

*Only J-IIIL 18 HP model



J-IIIL

## Compact and low noise design outdoor unit

This compact outdoor unit does not take up much space even if installed in a machine room or on the rooftop. This unit secures enough static pressure even if there are louvers. Low noise operation is possible at nighttime by a low noise mode.

## New style 3D flow cassette provides more comfort

The left and right air outlet ports with max 100° rotation angle and the wide center air outlet port can minimize uneven temperature to create a comfortable space.




## Various indoor units lineup for low capacity class

Various range of low capacity 1.1 kW indoor units to suit small rooms or spaces.



Wall Mounted



Compact Floor

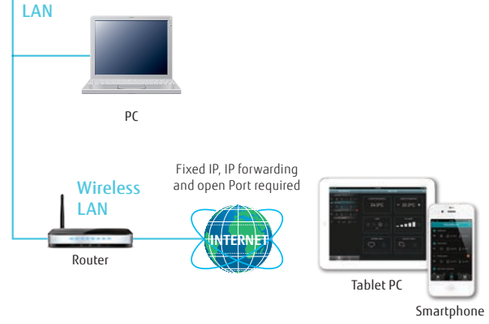



## New centralized remote controller with improved operability

Temperature management of each room and one week operation control management/settings are supported easily. This controller makes energy saving management possible with upper/lower temperature limit settings and operation prohibited settings.

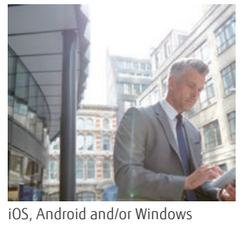



Central Remote Controller UTY-DCGYZ1




## Control and monitoring

The same management as with the main unit is possible even if you are at your desk. Non-administrators can also operate the air conditioners with a PC, Smartphone or tablet.



iOS, Android and/or Windows

# Hotels

## For Light Commercial

Fujitsu General provides perfect total air conditioning systems that take into account comfort, energy saving, external appearance, safety and easy installation for small low-rise hotels.



AIRSTAGE™





J-IIIL
High capacity model



J-IIIL



J-III

## AIRSTAGE™ J-Series appearance-oriented compact outdoor unit

Due to the lowest and most compact design in the industry, the appearance of hotel is not damaged even when installed on the building.





## Ventilation of the whole hotel supported

Outdoor air processing is essential in hotel spaces with a high degree of airtightness. The DX-Kit can link up with air conditioners to ensure sufficient ventilation.
This system can be expanded.



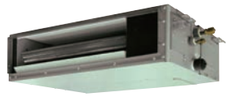
EEV unit



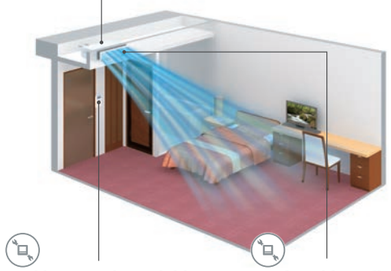
Control unit

## Guest room air conditioning with excellent comfort, energy saving and easy installation

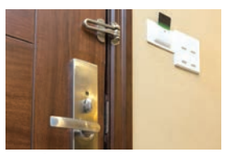
**Space saving**
Mini duct type with 198 mm height and 450 mm depth. This can be installed in narrow ceiling space easily.



Mini Duct



**Card key switch available**
Using the card key prevents you from forgetting to switch off the air conditioner.



Use of an external connect switch

**Comfortable airflow that switches up and down air directions**
The Auto Louver Grille Kit achieves comfortable airflow by adjusting the air direction.



Auto Louver Grille Kit

## Centralized control of air conditioning in shared spaces

Air conditioning in shared spaces such as lobbies and hallways is controlled centrally. Temperature and operating conditions can be managed without the adjustment by guests.





System controller

## Simple Remote Controller with sophisticated design

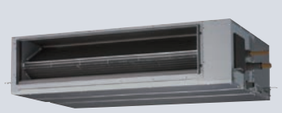
Suitable for hotels or offices as it is easily operated with no complex functions.
Large LCD screen & simple operation buttons White colored backlight on monitor enable easy operation in dark.






## Large space air conditioning in the reception and lobby

Ultra-large duct type single split system suitable for large spaces with high ceilings



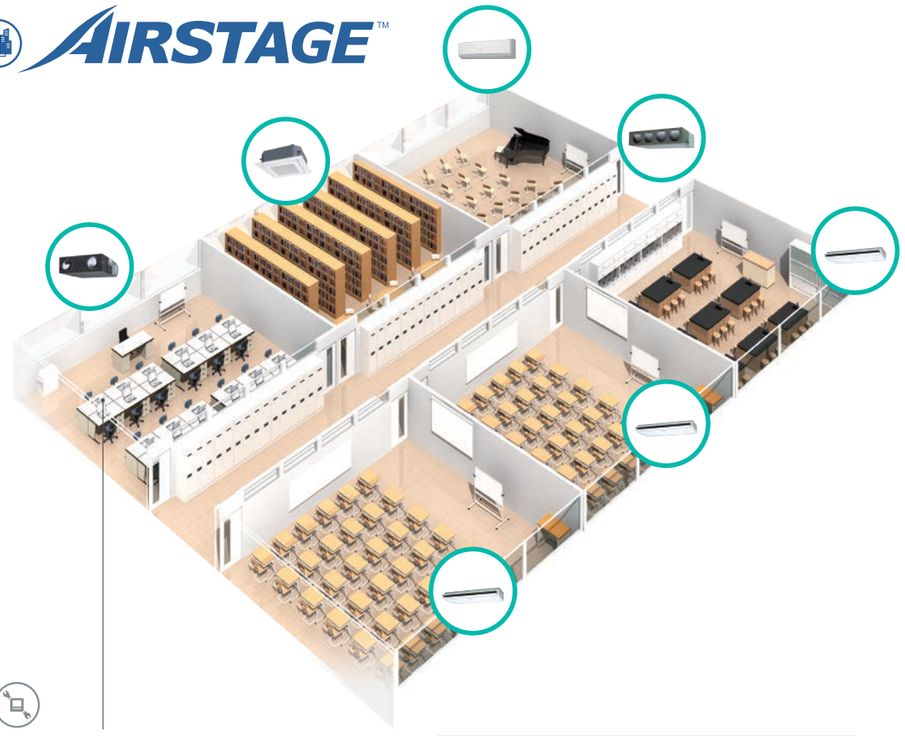
# School

## For Light Commercial

Fujitsu General provides the optimal number of connected indoor units for mid-sized educational institutions. The degree of freedom of the installation location selection is improved with a compact design that minimizes the installation area. Even one outdoor unit can cover the entire school building.

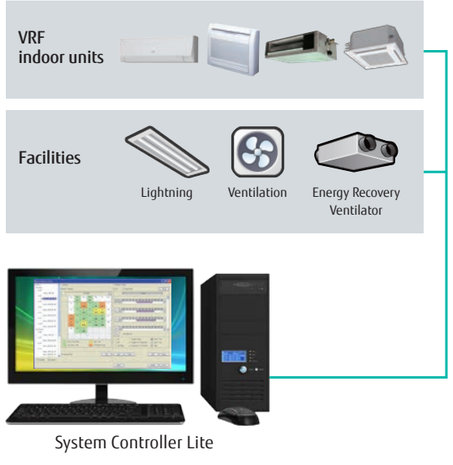


AIRSTAGE™



## Centralized control of both air conditioning and ventilation equipment

It is possible to perform centralized control to stop the operation of lighting and ventilation equipment in addition to air conditioners. This is useful in energy saving management over the whole building.




System Controller Lite



Mini Duct

Medium Static Pressure Duct



Ceiling



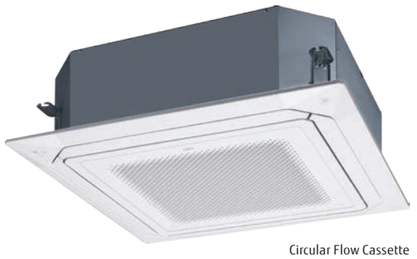
Wall Mounted

## Various indoor units

We have a lineup of indoor units that can also support complex applications – from normal classrooms to special classrooms and auditoriums. Air conditioners can be also added easily.



Energy Recovery Ventilator



Circular Flow Cassette

### Comfortable room air conditioning without airflow feeling

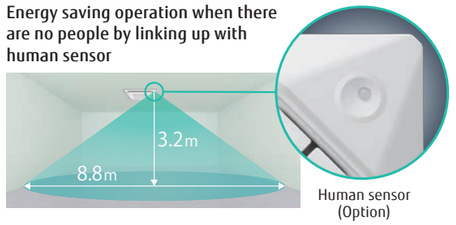
Circular Flow Cassette blows out in all directions without temperature unevenness



Individual airflow direction control to prevent people from being exposed to airflow



Energy saving operation when there are no people by linking up with human sensor




Human sensor
(Option)

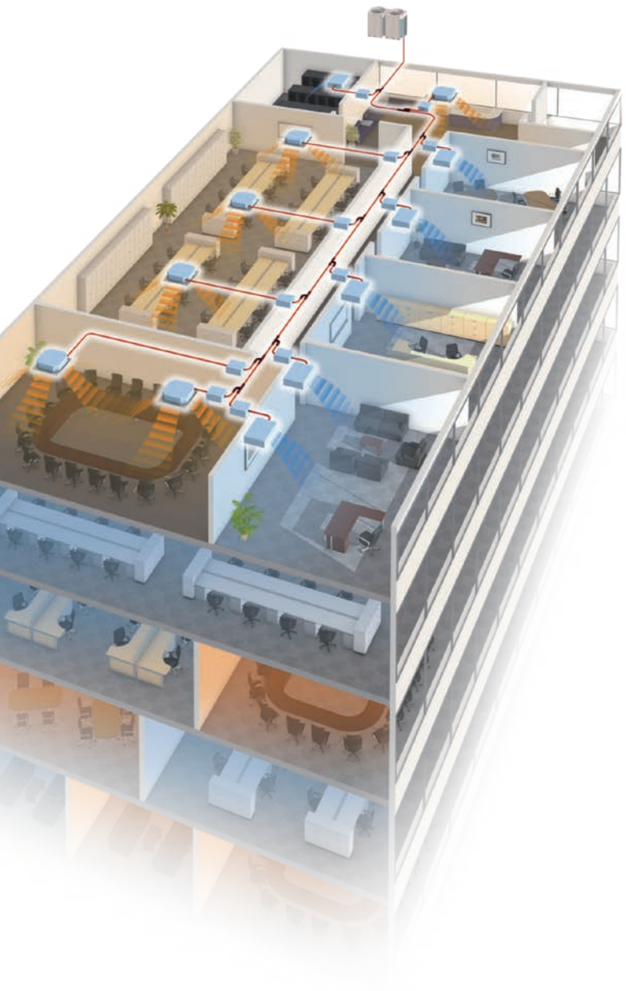
# Large Building

## For Commercial

Fujitsu General provides modular type VRF systems that seek high efficiency, comfort, design freedom, easy installation and reliability for skyscraper buildings.



AIRSTAGE™



## Abundant lineup suitable to match the operating environment

VRF series lineup to meet various needs such as energy saving-orientated models and models compatible with a high outdoor air temperature of 52°C*

*: TROPICAL model only



AIRSTAGE™ V-II

Smart and cutting-edge design. Extensive lineup from 8 HP to 48 HP in 2 HP increment. Connectable indoor unit capacity ratio up to 150%

**8 HP - 48 HP 34 Models**

- Space saving combination: 8 HP to 48 HP/21 models
- Energy efficiency combination: 16 HP to 44 HP/13 models

**Individual air conditioning system for large buildings**

Capacities can be expanded up to simultaneous cooling and heating with maximum 48HP. Large individual air conditioning is supported.

AIRSTAGE™ V-III

AIRSTAGE™ V-III TROPICAL SPEC

**8 HP - 54 HP 39 Models**

- Space saving combination: 8 HP to 54 HP/24 models
- Energy efficiency combination: 16 HP to 46 HP/ 15 models

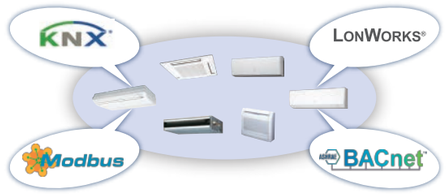
## Centralized control

Not only indoor units in the building but also facilities such as ventilation can be controlled easily by anyone.




## Link up with a variety of BMS

Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, BACnet, KNX and other various interfaces.

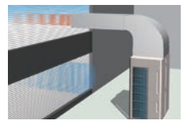


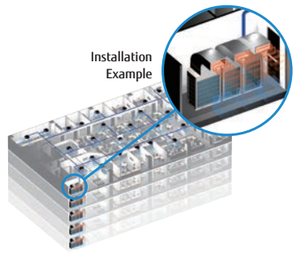

## High system flexibility

Flexible installation on each floor and installation of diverse indoor units are possible through the industry's top class high static pressure, long piping design and connection capacity.

82* Pa

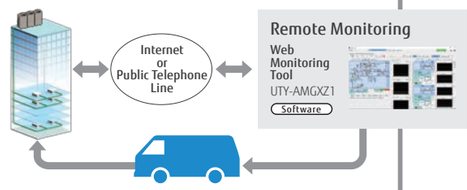
*: 80Pa for VR-II






## Rapid service support

The air conditioning of the entire building can be monitored remotely with Web Monitoring Tool and System Controller. Rapid response for emergency is possible by a self-diagnosis in advance in cooperation with a management company.



# Residence

## For Apartment & House

Fujitsu General provides the products that match spaces and the rhythm of life from living rooms where the whole family relaxes to small rooms such as bedrooms and children's rooms.




## Various indoor units suitable for the characteristics of each room






KX Series

WORLD'S FIRST

DUAL BLASTER

nocria X

### For Large Living Room & Dining Room

**Advanced Airflow Model**
Comfortable in every corner even in large living rooms and unusually shaped rooms

* Announced 2012. In room air conditioner for the home (our company's investigation)



KG Series

GOOD DESIGN



### For Master Bed Room or Living Room

**Good Design & Silent Model**
High performance and low noise model with an emphasis on its design

KM Series

GOOD DESIGN



NEW KM Series

### For Large Room

**Standard & Comfort**
Optimum for large spaces by basic functions and powerful & comfortable airflow control



NEW KP Series

### For Bed Room or Home Office

**Standard & ECO Range Series**
High performance and compact design model for compact spaces such as bed room or home office.




## Outdoor units suitable for residential environments

### R32 Multi type released

Models using the environmentally-friendly new refrigerant R32 were released. Two new wall mounted types with improved visual design were added to the indoor unit lineup.

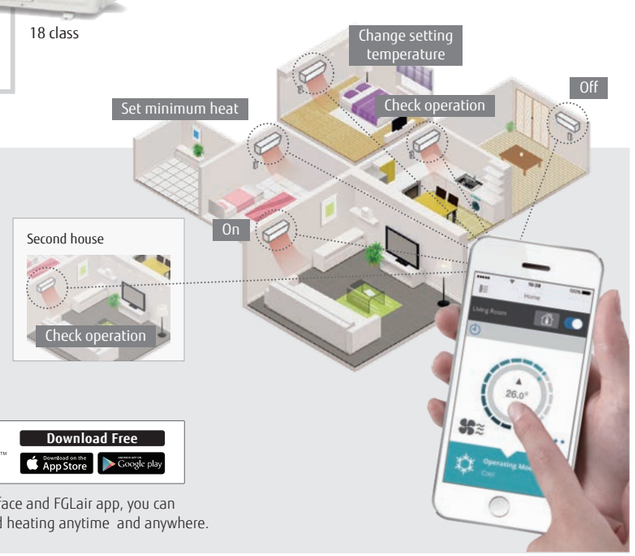






### Operation from anywhere

With a single smartphone, you can check the operating status of not only your home air conditioner, but also the air conditioners in your second house and your parental home (up to 24 air conditioners).




NEW



Wireless LAN Interface (USB)



+ FGLair Download Free App Store Google play

By using our Wireless LAN Interface and FGLair app, you can control your home's cooling and heating anytime and anywhere.

## Light Commercial & Residential

# SPLIT

044 Split Overview
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055 Feature Explanation
116 Feature Summary



### Refrigerant type R32 models

**Wall Mounted**

056 Flagship Range Series
058 Designer Range Series – High Spec & Design
060 Standard Range Series – High Efficiency & Comfort
062 **New** Standard Range Series – High Efficiency & Large Room
064 **New** ECO Range Series – Compact & Comfort
066 ECO Range Series – Comfort for Large Room

**Cassette**

080 **New** Compact Cassette – 4-way Flow Series
084 **New** Circular Flow Series – Comfort for Large Room

**Duct**

092 **New** Slim Duct – Slim & Comfort
096 **New** Medium Static Pressure Duct – Compact & Comfort
100 **New** Medium Static Pressure Duct – Standard
104 **New** High Static Pressure Duct

### Refrigerant type R410A models

**Wall Mounted**

068 Designer Range Series – High Spec & Design
070 Designer Range Series – High COP
072 Standard Range Series – High Efficiency & Comfort
074 Standard Range Series – Comfort for Large Room
078 ECO Range Series – Compact & Comfort

**Cassette**

082 Compact Cassette – 4-way Flow Series
086 Circular Flow Series – Comfort for Large Room
088 4-way Flow Series – Comfort for Large Room

**Duct**

090 Mini Duct – Built-in Drain Pump
094 Slim Duct – Slim & Comfort
098 Medium Static Pressure Duct – Compact & Comfort
102 Medium Static Pressure Duct – Standard
106 High Static Pressure Duct
108 Big Duct

**Floor/Ceiling**

110 Floor
112 Floor/Ceiling
114 Ceiling



## Energy saving design to provide a comfortable indoor environment while being environment-friendly.

An air conditioner that is people-friendly is also environment friendly. Fujitsu General meets various needs for from living rooms and bedrooms to stores, small offices and hotels.





# **Split** Overview

Fujitsu General provides our customers with 6 types and 116 models air conditioning system ideal for various customer applications and layout. Environment-friendly new refrigerant R32 models are added.







WORLD'S FIRST* DUAL BLASTER nocria™X

## Wall Mounted

Installation work is simple and easy for wall mounted type. We have pursued airflow control and energy saving including our dual side fan equipped flagship models. At the same time, their flat and simple designs that match the interior are also attractive. We have a lineup with many models that have adopted the new environmentally friendly R32 refrigerant.

* Announced 2012. In room air conditioner for the home (our company's investigation)









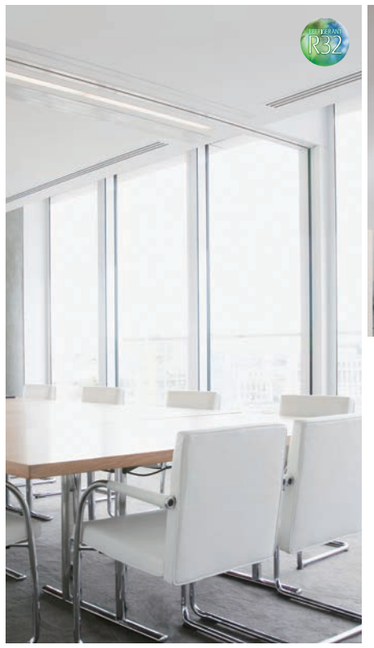







## Cassette

Cassette type adapts to the interior. This type blows air in four directions to perform the air conditioning of entire spaces evenly. We have a variety of series including Compact models that have adopted a new design panel to match grid ceilings and Circular Flow models that deliver air in 360° directions.







## Duct

The main unit of this type cannot be seen, so your interior will feel clear. We have Mini Duct and Slim Duct models available to also enable installation in narrow spaces in beams or above the ceiling. For a large model suitable for air conditioning vast spaces, multiple outlets can be installed by only one unit. Therefore, these models are recommended for unusual room layout.




## Floor

Floor type with compact and slim design is suitable for installation in both residential and commercial. This model is recommended as heating device because it blows warm airflow from both above and below outlets.




## Floor/Ceiling

Two types of installation method – floor installation and ceiling installation – can be selected. This model has a compact design with a width of 990 mm and a depth of just 199 mm (ceiling installation: height). This means they can handle various installation conditions.

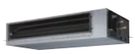



## Ceiling

Installation work is as easy as with wall mounted type. This model can be installed neatly because it has a thin design with a height of 240 mm. It delivers a powerful wind far away from a wide outlet. Therefore, this model is ideal for oblong rooms such as large meeting rooms and audiovisual rooms with depth.

# Indoor Units Lineup

FUJITSU GENERAL (Euro) GmbH participates in the ECP programme for AIR CONDITIONERS. Check ongoing validity of certificate: www.eurovent-certification.com
* Models so marked are not ECC certified.

| Type | Series | Refrigerant | Model | Class 7 | 9 | 12 | 14 | 18 | 22 | 24 | 30 | 36 | 45 | 54 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wall Mounted | **Flagship Range Series** nocria X | R32 |  | | | ASYG12KXCA | | | | | | | | |
| | **Designer Range Series** High Spec & Design | R32 |  | ASYG07KGTB | ASYG09KGTB | ASYG12KGTB | ASYG14KGTB | | | | | | | |
| | **Standard Range Series** High Efficiency & Comfort | R32 |  | ASYG07KMTB* | ASYG09KMTB* | ASYG12KMTB* | ASYG14KMTB* | | | | | | | |
| | **Standard Range Series** High Efficiency & Large Room | R32 |  NEW | | | | | ASYG18KMTA | | ASYG24KMTA | | | | |
| | **ECO Range Series** Compact & Comfort | R32 |  NEW | ASYG07KPCA | ASYG09KPCA | ASYG12KPCA | | | | | | | | |
| | **ECO Range Series** Comfort for Large Room | R32 |  | | | | | ASYG18KLCA* | | ASYG24KLCA* | | | | |
| Cassette | **Compact 4-way Flow Series** Compact & Comfort | R32 |  NEW | | AUXG09KVLA | AUXG12KVLA | AUXG14KVLA | AUXG18KVLA | AUXG22KVLA | AUXG24KVLA | | | | |
| | **Circular Flow Series** Comfort for Large Room | R32 |  18/22/24  30/36/45/54 NEW | | | | | AUXG18KRLB | AUXG22KRLB | AUXG24KRLB | AUXG30KRLB | AUXG36KRLB | AUXG45KRLB | AUXG54KRLB |
| Duct | **Slim Duct** | R32 |  09/12/14  18 NEW | | ARXG09KLLAP | ARXG12KLLAP | ARXG14KLLAP | ARXG18KLLAP | | | | | | |
| | **Medium Static Pressure Duct** Compact & Comfort | R32 |  12/14  18/22/24/30  36/45/54 NEW | | | ARXG12KHTAP | ARXG14KHTAP | ARXG18KHTAP | ARXG22KHTAP | ARXG24KHTAP | ARXG30KHTAP | ARXG36KHTAP | ARXG45KHTAP | ARXG54KHTAP |
| | **Medium Static Pressure Duct** Standard | R32 |  NEW | | | | | | ARXG22KMLA | ARXG24KMLA | ARXG30KMLA | ARXG36KMLA | ARXG45KMLA | |
| | **High Static Pressure Duct** | R32 |  NEW | | | | | | | | | | ARXG45KHTA | ARXG54KHTA |

FUJITSU GENERAL (Euro) GmbH participates in the ECP programme for AIR CONDITIONERS. Check ongoing validity of certificate: www.eurovent-certification.com
* Models so marked are not ECC certified.

| Type | Series | Refrigerant | Model | Class 7 | 9 | 12 | 14 | 18 | 24 | 30 | 36 | 45 | 54 | 60 | 72 | 90 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Wall Mounted | **Designer Range Series** High Spec & Design | R410A |  | | ASYG09LTCA | ASYG12LTCA | | | | | | | | | | |
| | **Designer Range Series** High COP | |  | ASYG07LUCA | ASYG09LUCA | ASYG12LUCA | ASYG14LUCA | | | | | | | | | |
| | **Standard Range Series** High Efficiency & Comfort | |  | ASYG07LMCE | ASYG09LMCE | ASYG12LMCE | ASYG14LMCE | | | | | | | | | |
| | **Standard Range Series** Comfort for Large Room | |  | | | | | ASYG18LFCA | ASYG24LFCC | ASYG30LFCA | | | | | | |
| | | |  | | | | | | | ASYG30LMTA | ASYG36LMTA | | | | | |
| | **ECO Range Series** Compact & Comfort | |  | ASYG07LLCE | ASYG09LLCE | ASYG12LLCE | | | | | | | | | | |
| Cassette | **Compact 4-way Flow Series** Compact & Comfort | |  | | | AUYG12LVLB | AUYG14LVLB | AUYG18LVLB | AUYG24LVLA | | | | | | | |
| | **Circular Flow Series** Comfort for Large Room | R410A |  18/24 30/36/45/54 | | | | | AUXG18LRLB | AUXG24LRLB | AUXG30LRLB | AUXG36LRLB | AUXG45LRLB | AUXG54LRLB | | | |
| | **4-way Flow Series** Comfort for Large Room | |  | | | | | | | AUYG30LRLE | AUYG36LRLE AUYG36LRLA | AUYG45LRLA | AUYG54LRLA | | | |
| Duct | **Mini Duct** | |  12/14 18 | | | ARYG12LSLAP* | ARYG14LSLAP* | ARYG18LSLAP* | | | | | | | | |
| | **Slim Duct** | |  12/14 18 | | | ARYG12LLTB | ARYG14LLTB | ARYG18LLTB | | | | | | | | |
| | **Medium Static Pressure Duct** Compact & Comfort | |  12/14 18/24/30 36/45/54 | | | ARYG12LHTBP | ARYG14LHTBP | ARYG18LHTBP | ARYG24LHTBP | ARYG30LHTBP | ARYG36LHTBP | ARYG45LHTBP | ARYG54LHTBP | | | |
| | **Medium Static Pressure Duct** Standard | |  | | | | | | ARYG24LMLA | ARYG30LMLE | ARYG36LMLE ARYG36LMLA | ARYG45LMLA | | | | |
| | **High Static Pressure Duct** | |  45/54 60 | | | | | | | | | ARYG45LHTA | ARYG54LHTA | ARYG60LHTA | | |
| | **Big Duct** | |  | | | | | | | | | | | | ARYG72LHTA* | ARYG90LHTA* |
| **Floor** Compact & Comfort | | R410A |  | | AGYG09LVCA | AGYG12LVCA | AGYG14LVCA | | | | | | | | | |
| **Floor/Ceiling** Comfort & Dual Design | | R410A |  | | | | | ABYG18LVTB | ABYG24LVTA | | | | | | | |
| **Ceiling** Comfort for Large Room | | R410A |  | | | | | | | ABYG30LRTE | ABYG36LRTE ABYG36LRTA | ABYG45LRTA | ABYG54LRTA | | | |

# Feature

## **High** Efficiency

### Optimized Inverter Control



### All DC Inverter Technology




**I-PAM (IPM*+PAM) inverter control**

I-PAM inverter control is a technology which reduces loss by adjusting the current waveform to a better sine waveform. This promotes the effective use of the input power supply to attain high performance.

IPM*: Intelligent Power Module

**V-PAM (Vector + I-PAM) inverter control**

V-PAM inverter control reduces the effects of magnetic flux and increases the maximum speed and efficiency of the compressor by vector control technology. With this technology, further miniaturization, higher efficiency, and better performance are attained.

**DC twin rotary compressor**

The high efficiency DC inverter type "2-cylinder rotary compressor" is used for our product ranges. It has achieved higher energy efficiency compared with similar compressors by optimizing the structure inside the compressor.

**DC fan motor**

DC fan motor produces high power, wide operation range, and high efficiency.

**Sine-wave DC inverter control**

High efficiency operation is realized by using a sine wave DC inverter control.

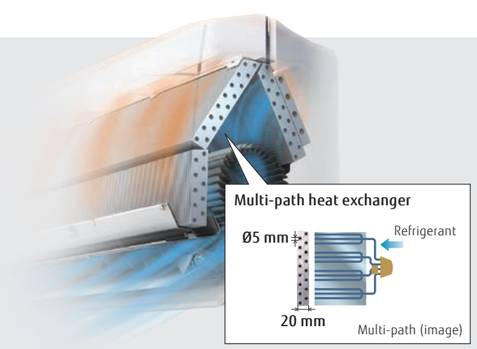
### Heat Exchanger for Wall Mounted

**High density multi-path heat exchanger**

Heat exchange performance is substantially improved by thin and high-density heat exchanger and multi-path efficiency technology.

**High performance sub-cool heat exchanger**

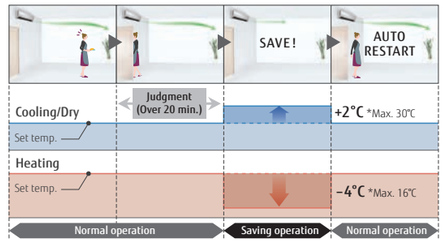
Higher performance achieved by mounting of counter type bypass circuit. (Large multi type, VRF)




## **High** Energy Saving

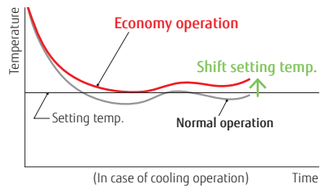
**Human sensor control**

Human sensor catches movements of people in a room, and operates with lower capacity when people leave the room. When people come back to the room, it automatically returns to the previous operating mode.



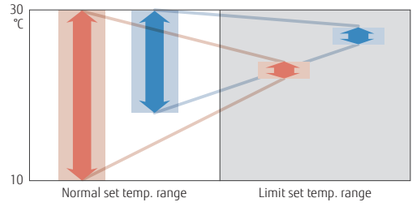

**Economy operation**

Limits the maximum operation current, and the power consumption is cut down and the maximum load is suppressed.



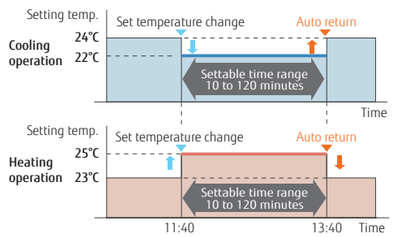

**Room temperature set point limitation**

The minimum and maximum temperature range can be set giving further energy saving while considering the comfort of the occupants.



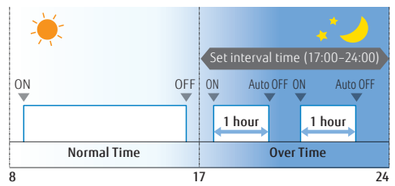

**Set temperature auto return**

- The setting temperature automatically returns to the previous setting temperature.
- The time range in which the set temperature can be changed is 10 to 120 minutes.

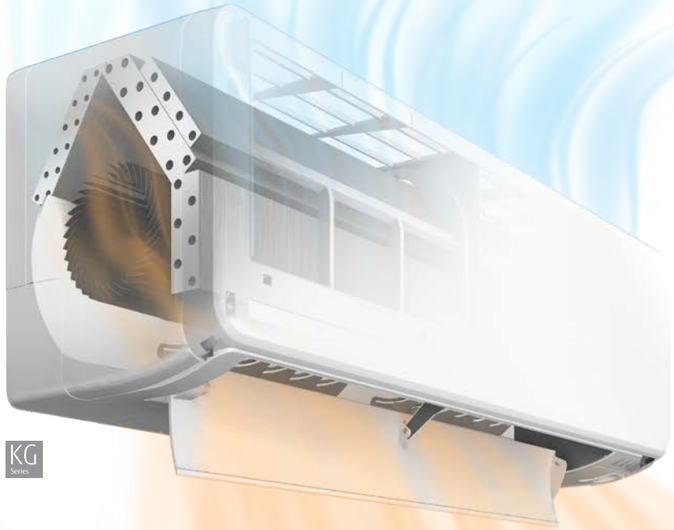



**Auto-off timer**

- The indoor unit is turned off automatically when it reaches to the preset operating time frame.
- The time frame of the "Auto off timer" can be flexibly scheduled.
- Off time can be set from 30 to 240 minutes.



# **More** Comfort

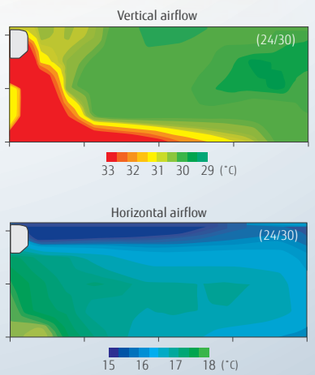



## Powerful heating

High heating capacity is realized even at low outdoor temperature by mounting a large heat exchanger or large DC rotary compressor and developing high performance inverter PCB

## Power diffuser

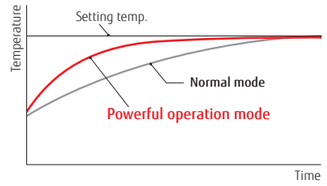
Precision wind direction control is realized and ventilation efficiency is also improved by 3 technologies. Our airflow control makes your environment more comfortable.





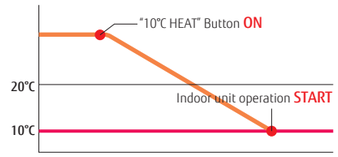

## Powerful operation

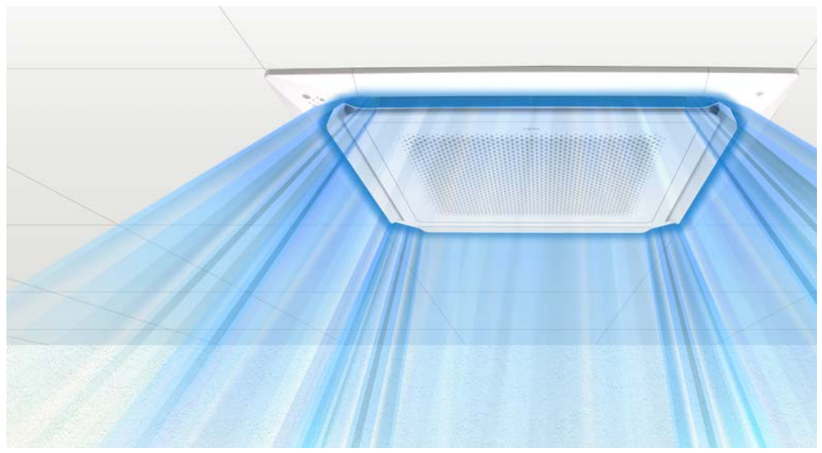
Continuous operation by maximum airflow and maximum compressor speed after a certain period of time allows the temperature to reach the setting temp. quickly.




## 10°C Heat operation

When you leave, minimum heating operation is performed to maintain the room temperature. (Maintained at 10°C)



## Uniform air conditioning

Circular airflow to achieve uniform air conditioning without temperature unevenness in workspaces



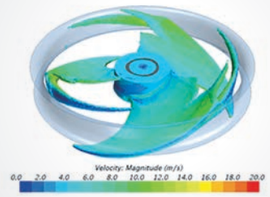
# **Quiet** and Comfort Control



## Low Noise Technology

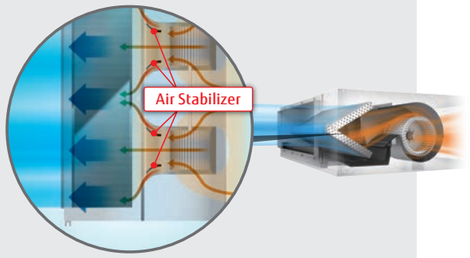
### Outdoor unit fan

Outdoor unit fan design with little separation vortex, fan control to minimize the air volume and top class low noise



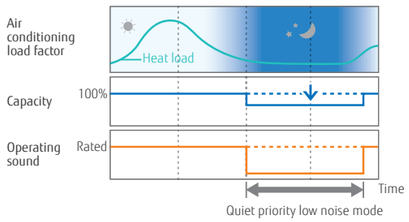

### Air stabilizer in Duct

Low noise duct structure with a built-in air stabilizer



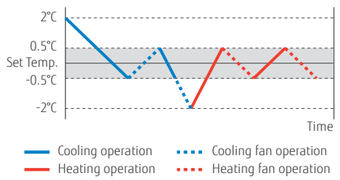

### Outdoor unit low noise operation

Users can choose low noise levels, depending on the installation environment. The operation time can be set using the timer.




### Auto-changeover function

At Auto setting, the cooling/heating mode is automatically switched according to the set temperature and room temperature.




### Fresh air intake for Cassette, Duct, Ceiling

Fresh air can be taken in by a fan which can be connected using external control unit.



Fresh Air Intake kit

# Feature Explanation

## Energy Saving Function

**Dual side fans**
The comfortable space can be created with Hybrid Airflow, which combines different temperatures of air current and velocities.

**Save human sensor**
Human sensor detects the movement of people in the room and judges whether the energy saving operation.

**Save & Stop human sensor**
Human sensor (option) detects movement of people in the room and decides whether to save energy or stop the unit.

**Economy mode**
Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.

**Room temperature set point limitation**
The minimum and maximum temperature range can be set giving further energy saving while considering the comfort of the occupants.

**Set temperature auto return**
The setting temperature automatically returns to the previously set temperature.

## Comfortable Function

**Powerful heating**
Keeping the rated heating capacity even when the outdoor ambient temperature is -7°C.

**Power diffuser**
An additional louver that opens based on monitoring sensors to quickly enhance immediate comfort needs.

**Server room operation**
Interlock operation is possible by connecting 2 indoor units even in the low temperature.

**Powerful mode**
Operation at maximum air flow and compressor speed, and quickly makes the room comfortable.

**10°C HEAT operation**
The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.

**Low noise mode**
Sound noise level of outdoor unit can be selected.

**Auto-changeover**
The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.

**Up/down swing flaps**
The up/down flaps automatically swing up and down.

**Double swing automatic**
Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.

**Automatic fan speed**
The micro-computer automatically adjusts the airflow effectively to follow the changes of room temperature.

**Auto restart**
In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once power supply is restored.

**Connectable fresh air duct**
Outside air can be introduced by attaching Locally purchased duct to fresh air knockout and optional part.

**Fresh air intake**
Fresh air can be taken in by a fan which can be connected using external control unit.

**Connectable distributing duct**
Systems are capable of attaching Locally purchased branch ducts distributing the airflow.

**Individual airflow direction control**
Each louver of 4-way Cassette type can be controlled individually and provides comfortable airflow.

## Convenient Function

**Auto off timer**
Automatically stops operation when a fixed time has elapsed from the start of operation.

**Sleep timer**
The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.

**Program timer**
This digital timer allows selection of one of four options: ON, OFF, ON » OFF or OFF » ON.

**Weekly timer**
Different ON-OFF times can be set for each day.

**Weekly + setback timer**
Weekly + Setback timer can set temperature for two times spans and for each day of the week.

**Filter sign**
Indicates the filter cleaning period by lamp.

**External error output**

**External ON/OFF input**

**Wireless LAN control**
The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.

## Clean Function

**Plasma air clean**
The electrostatic precipitator removes dust particles such as pollens and house dust. It is washable and can be always maintained clean.

**Filter auto clean**
The dust collected by the air filter is automatically removed. A routine disposal of the dust stored in the dust box is necessary.

**Ion deodorization filter**
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

**Apple-catechin filter**
The Apple-catechin filter uses static electricity to clean fine particles and dust in the air.

**Long life filter**

**Washable panel**
Since the front panel is easy to remove, maintenance is also easy.

## Installation

**Automatic airflow adjustment**
Automatically detects required airflow in each application case and adjusts the volume.

**Drain pump as standard**

**Blue fin**

---

**All DC models**

**I-PAM control models**
I-PAM inverter control is a technology which reduces loss by adjusting the current waveform to a better sine waveform.

**V-PAM control models**
V-PAM inverter control reduces the effects of magnetic flux and increases the maximum speed and efficiency of the compressor by vector control technology.

# Wall Mounted
## Flagship Range

nocria™X



ALL DC

Dual | Save | Economy | Diffuser | Powerful | 10°C HEAT | LowNoise | Auto Changeover | Double | Adjust | Restart | Sleep | Program | LAN | Plasma | Auto

## Comfortable airflow control to prevent the body from being exposed to airflow

WORLD'S FIRST *1 DUAL BLASTER

The comfortable space can be created with Hybrid Airflow, which combines different temperatures of air current and velocities.



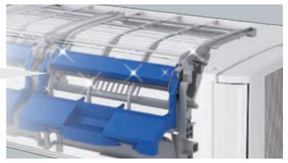
*1: Announced 2012. In room air conditioner for the home (Our company's investigation)

## Filter Auto Clean

WORLD'S FIRST *2

Dust on the filter is automatically removed to prevent power from being wasted by the clogged filter.



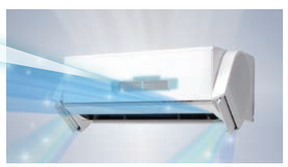



*2: Announced 2002. In room air conditioner for the home (our company's investigation)

## Plasma Air Clean

Air is cleaned with an electric dust collecting technology. Pollen, house dust and other tiny pollutants are collected and removed with static electricity.

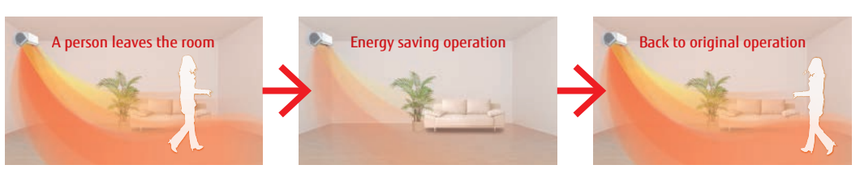


## Human Sensor

The Human sensor detects movement of people in a room and operates at reduced capacity when people leave the room. When people return to the room, the system automatically returns to the previous room settings.

Rank A+++ SEER 8.5 SCOP 5.1








REFRIGERANT R32

**Model: ASYG12KXCA**





Wireless R.C.



Wireless LAN Interface

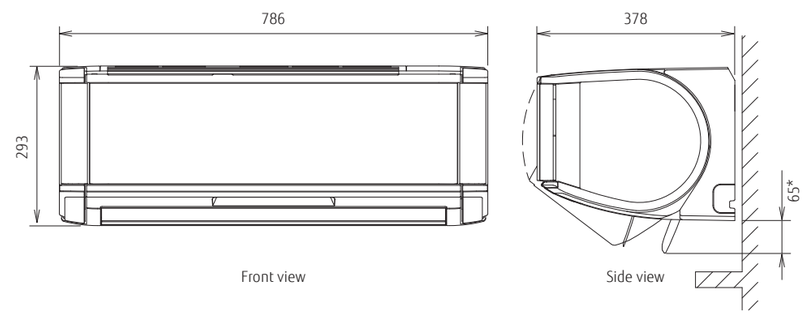


## Specifications

| Model No. | Indoor unit | | | ASYG12KXCA |
|---|---|---|---|---|
| | Outdoor unit | | | AOYG12KXCA |
| Power Source | | | | Single-phase, ~230V, 50Hz |
| Capacity | Cooling | | kW | 3.4 (0.6-5.3) |
| | Heating | | | 5.0 (0.6-9.0) |
| Input Power | Cooling/Heating | | kW | 0.670/1.020 |
| EER | Cooling | | W/W | 5.09 |
| COP | Heating | | | 4.90 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 3.4/3.5 |
| SEER | Cooling | | W/W | 8.50 |
| SCOP | Heating (Average) | | | 5.10 |
| Energy Efficiency Class | Cooling | | | A+++ |
| | Heating (Average) | | | A+++ |
| Max. Operating Current | Cooling/Heating | | A | 9.0/16.0 |
| Annual Energy Consumption | Cooling | | kWh/a | 140 |
| | Heating | | | 961 |
| Moisture Removal | | | l/h | 1.2 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 46/42/38/28 |
| | Indoor (Heating) | H/M/L/Q | | 48/43/39/30 |
| | Outdoor(Cooling/Heating) | High | | 44/43 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 58/62 |
| | Outdoor(Cooling/Heating) | High | | 57/57 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 670/2,230 |
| | Indoor / Outdoor (Heating) | | | 810/1,975 |
| Net Dimensions H x W x D | Indoor | | mm | 293×786×378 |
| | Outdoor | | mm | 704×820×315 |
| Weight | Indoor | | kg(lbs) | 20 (44) |
| | Outdoor | | kg(lbs) | 41 (90) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/9.52 |
| Drain hose Diameter (I.D./O.D.) | | | | 13.8 / 15.8 to 16.7 |
| Max Pipe Length (Pre-Charge) | | | m | 15 (15) |
| Max Height Difference | | | | 10 |
| Operation Range | Cooling | | °CDB | -10 to 43 |
| | Heating | | | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R32 (675) |
| | Charge | | kg(CO2eq-T) | 1.30 (0.9) |

## Dimensions

(Unit : mm)




Front view

Side view

*Dimensions in case of air flowing downward

# Wall Mounted

## Designer Range

### High Spec & Design



REFRIGERANT R32

GOOD DESIGN

ALL DC

Save | Economy | Powerful | 10°C HEAT | Low Noise | Auto Changeover | Up/Down | Adjust | Restart | Sleep | Program | Weekly | Filter

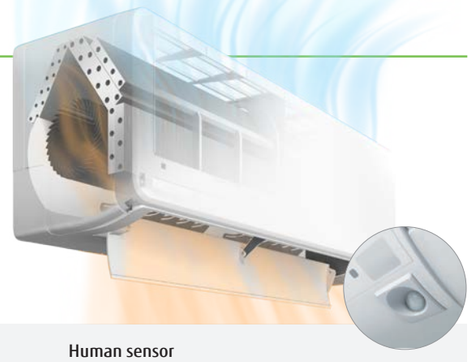
## High energy saving

Top class high efficiency is achieved by high efficient lamda heat exchanger, large cross flow fan and new refrigerant.

Rank A+++ *1

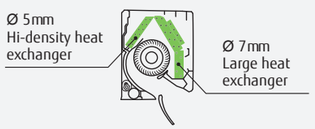
SEER 8.5 *1 SCOP 5.1 *1

*1: 07, 09, 12 models



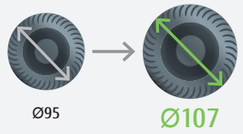
### Hybrid-heat exchanger

The heat exchange efficiency has been significantly improved with the large hybrid heat exchanger, attaining the top-level SEER and SCOP.



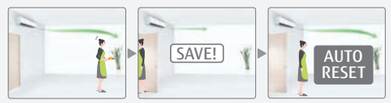

### Ø107 Large cross-flow fan

With the large-diameter fan, efficient air volume can be obtained at low power.




### Human sensor

Human sensor catches movements of people in a room, and operates with lower capacity when people leave the room. When people come back to the room, it automatically returns to previous operating mode.




## Comfortable airflow & Silent operation

The big louver and the new air blowing structure have attained a comfortable air flow that spreads wider to user's feet and silent operation.



19dB(A)
(07/09/12 models)
Cooling only

## Smart device Control (Option)

Easy air conditioner control from inside or outside the house and office using the Smartphones, Tablets, and PC.



### Wireless LAN Interface

The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.





**Model: ASYG07KGTB / ASYG09KGTB / ASYG12KGTB / ASYG14KGTB**

REFRIGERANT R32





Wireless R.C.



## Specifications

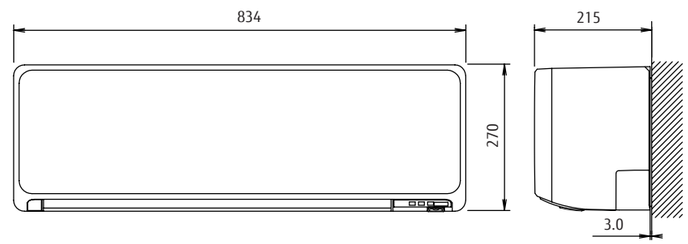
| Model No. | Indoor unit | | | ASYG07KGTB | ASYG09KGTB | ASYG12KGTB | ASYG14KGTB |
|---|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG07KGCA | AOYG09KGCA | AOYG12KGCA | AOYG14KGCA |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | |
| Capacity | Cooling | | kW | 2.0 | 2.5 | 3.4 | 4.2 |
| | Heating | | | 2.5 | 2.8 | 4.0 | 5.4 |
| Input Power | Cooling/Heating | | kW | 0.400/0.500 | 0.555/0.560 | 0.805/0.910 | 1.175/1.350 |
| EER | Cooling | | W/W | 5.00 | 4.50 | 4.22 | 3.57 |
| COP | Heating | | | 5.00 | 5.00 | 4.40 | 4.00 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 2.0/2.3 | 2.5/2.4 | 3.4/2.5 | 4.2/4.0 |
| SEER | Cooling | | W/W | 8.52 | 8.52 | 8.51 | 7.11 |
| SCOP | Heating (Average) | | | 5.12 | 5.11 | 5.10 | 4.31 |
| Energy Efficiency Class | Cooling | | | A+++ | A+++ | A+++ | A++ |
| | Heating (Average) | | | A+++ | A+++ | A+++ | A+ |
| Max. Operating Current | Cooling/Heating | | A | 6.5/9.0 | 6.5/9.0 | 6.5/9.0 | 9.0/10.5 |
| Annual Energy Consumption | Cooling | | kWh/a | 82 | 103 | 140 | 207 |
| | Heating | | | 628 | 658 | 685 | 1,298 |
| Moisture Removal | | | l/h | 1.0 | 1.3 | 1.8 | 2.1 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 38/33/29/19 | 40/34/29/19 | 40/35/30/19 | 43/36/30/20 |
| | Indoor (Heating) | H/M/L/Q | | 41/35/31/21 | 42/36/31/21 | 42/38/33/21 | 44/39/33/24 |
| | Outdoor(Cooling/Heating) | High | | 46/46 | 46/48 | 50/50 | 50/50 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 54/56 | 55/57 | 56/58 | 57/59 |
| | Outdoor(Cooling/Heating) | High | | 61/62 | 61/63 | 65/66 | 65/66 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 650/1,610 | 700/1,610 | 700/1,680 | 770/1,680 |
| | Indoor / Outdoor (Heating) | High | | 720/1,560 | 750/1,610 | 770/1,580 | 800/1,580 |
| Net Dimensions H x W x D | Indoor | | mm | 270×834×215 | 270×834×215 | 270×834×215 | 270×834×215 |
| | Outdoor | | mm | 542×799×290 | 542×799×290 | 542×799×290 | 542×799×290 |
| Weight | Indoor | | kg(lbs) | 10 (22) | 10 (22) | 10 (22) | 10 (22) |
| | Outdoor | | kg(lbs) | 30 (66) | 30 (66) | 31 (68) | 32 (70) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/9.52 | | | |
| Drain hose Diameter (I.D./O.D.) | | | | 13.8/15.8 to 16.7 | | | |
| Max Pipe Length (Pre-Charge) | | | m | 20 (15) | | | |
| Max Height Difference | | | | 15 | | | |
| Operation Range | Cooling | | °CDB | -10 to 46 | | | |
| | Heating | | | -15 to 24 | | | |
| Refrigerant | Type (Global Warming Potential) | | | R32 (675) | | | |
| | Charge | | kg(CO2eq-T) | 0.75 (0.5) | 0.75 (0.5) | 0.85 (0.6) | 0.85 (0.6) |

### Optional parts

Wired Remote Controller: UTY-RNRYZ3, UTY-RLRY
Simple Remote Controller: UTY-RSRY, UTY-RHRY
External Input and Output PCB: UTY-XCSXZ2
Communication kit: UTY-TWRXZ2
Wireless LAN Interface: UTY-TFSXW1
External connect kit: UTY-XWZX

### Dimensions

(Unit : mm)



# Wall Mounted

## Standard Range

### High Efficiency & Comfort



REFRIGERANT R32

GOOD DESIGN

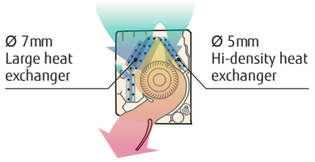
ALL DC

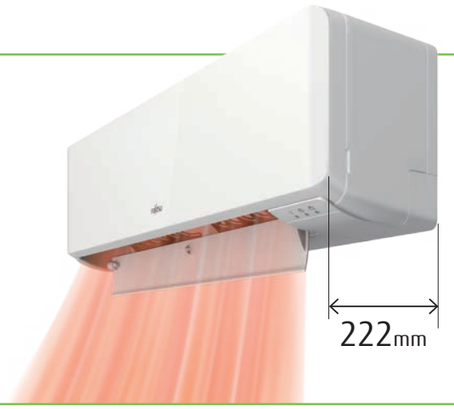
Economy | Powerful | 10°C HEAT | Low Noise | Auto Changeover | Up/Down | Adjust | Restart | Sleep | Program | Filter

## Slim & stylish square design

Slim and stylish square design is realized by high density multi-path heat exchanger and high efficiency wind blower.

**Hybrid-heat exchanger**




## High energy saving

Top class high efficiency is achieved by high efficient lamda heat exchanger, large cross flow fan and new refrigerant.

Rank *1
Cooling A++
Heating A+

SEER 7.4 *1

SCOP 4.4 *2

*1: 07/09 models

*2: 12 model

## Comfortable airflow & Silent operation

The big louver and the new air blowing structure have attained a comfortable air flow that spreads wider to user's feet and silent operation.



20dB(A)
Cooling only

## Smart device Control (Option)

Easy air conditioner control from inside or outside the house and office using the Smartphones, Tablets, and PC.




**Wireless LAN Interface**

The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.





**Model: ASYG07KMTB / ASYG09KMTB / ASYG12KMTB / ASYG14KMTB**





Wireless R.C.



For ASYG07/09/12KMTB



For ASYG14KMTB

## Specifications

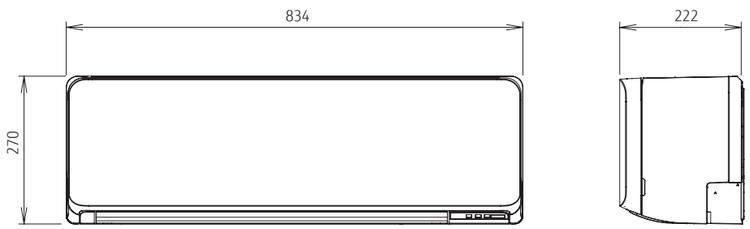
| Model No. | Indoor unit | | | ASYG07KMTB | ASYG09KMTB | ASYG12KMTB | ASYG14KMTB |
|---|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG07KMTA | AOYG09KMTA | AOYG12KMTA | AOYG14KMTA |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | |
| Capacity | Cooling | | kW | 2.0 (0.9-3.0) | 2.5 (0.9-3.2) | 3.4 (0.9-3.9) | 4.2 (0.9-4.4) |
| | Heating | | | 2.5 (0.9-3.4) | 2.8 (0.9-4.0) | 4.0 (0.9-5.3) | 5.4 (0.9-6.0) |
| Input Power | Cooling/Heating | | kW | 0.450/0.555 | 0.630/0.620 | 0.935/0.960 | 1.220/1.410 |
| EER | Cooling | | W/W | 4.43 | 3.97 | 3.65 | 3.44 |
| COP | Heating | | | 4.52 | 4.52 | 4.17 | 3.83 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 2.0/2.3 | 2.5/2.4 | 3.4/2.5 | 4.2/4.0 |
| SEER | Cooling | | W/W | 7.40 | 7.40 | 7.30 | 6.90 |
| SCOP | Heating (Average) | | | 4.10 | 4.10 | 4.40 | 4.10 |
| Energy Efficiency Class | Cooling | | | A++ | A++ | A++ | A++ |
| | Heating (Average) | | | A+ | A+ | A+ | A+ |
| Max. Operating Current | Cooling/Heating | | A | 6.5/9.0 | 6.5/9.0 | 6.5/9.0 | 6.5/9.0 |
| Annual Energy Consumption | Cooling | | kWh/a | 95 | 118 | 163 | 213 |
| | Heating | | | 785 | 819 | 795 | 1367 |
| Moisture Removal | | | l/h | 1.0 | 1.3 | 1.8 | 2.1 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 38/33/29/20 | 40/34/29/20 | 40/35/30/20 | 43/36/30/20 |
| | Indoor (Heating) | H/M/L/Q | | 41/35/31/22 | 42/36/31/22 | 42/38/33/22 | 44/39/33/24 |
| | Outdoor(Cooling/Heating) | High | | 46/46 | 46/46 | 50/50 | 50/50 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 54/56 | 55/57 | 55/58 | 57/59 |
| | Outdoor(Cooling/Heating) | High | | 61/61 | 61/62 | 65/65 | 65/66 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 650/1,650 | 700/1,650 | 700/1,700 | 770/1,680 |
| | Indoor / Outdoor (Heating) | High | | 720/1,450 | 750/1,450 | 770/1,470 | 800/1,580 |
| Net Dimensions H x W x D | Indoor | | mm | 270×834×222 | 270×834×222 | 270×834×222 | 270×834×222 |
| | Outdoor | | mm | 541×663×290 | 541×663×290 | 541×663×290 | 542×799×290 |
| Weight | Indoor | | kg(lbs) | 10 (22) | 10 (22) | 10 (22) | 10 (22) |
| | Outdoor | | kg(lbs) | 23 (51) | 23 (51) | 25 (55) | 31 (68) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 |
| Drain hose Diameter (I.D./O.D.) | | | | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 |
| Max Pipe Length (Pre-Charge) | | | m | 20 (15) | 20 (15) | 20 (15) | 20 (15) |
| Max Height Difference | | | | 15 | 15 | 15 | 15 |
| Operation Range | Cooling | | °CDB | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R32 (675) | R32 (675) | R32 (675) | R32 (675) |
| | Charge | | kg(CO2eq-T) | 0.6 (0.405) | 0.6 (0.405) | 0.7 (0.473) | 0.85 (0.574) |

## Optional parts

Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
Simple Remote Controller: UTY-RSNYM
External connect kit: UTY-XWZXZ5
Communication kit: UTY-TWBXF2
Wireless LAN Interface: UTY-TFSXW1

## Dimensions

(Unit : mm)



NEW

# Wall Mounted

## Standard Range

### High Efficiency & Large Room



REFRIGERANT R32

ALL DC

Economy · Powerful · 10°C HEAT · Low Noise · Auto Changeover · Up/Down · Double · Adjust · Restart · Sleep · Program · Weekly · Filter · ION · AF · Washable

## High energy saving

Top class high efficiency is achieved by high efficient lamda heat exchanger, large cross flow fan and new refrigerant.

Rank*1 Cooling A++ Heating A+

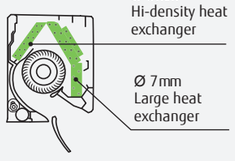
SEER 7.7*1

SCOP 4.5*1

*1: 18 model

**Hybrid-heat exchanger**

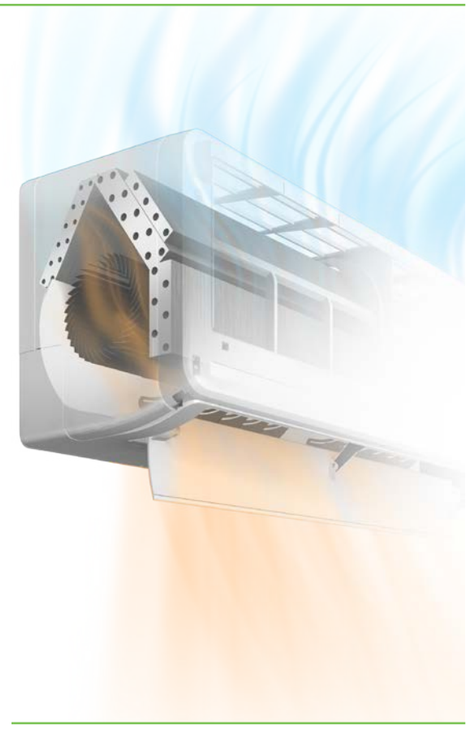
The heat exchange efficiency has been significantly improved with the large hybrid heat exchanger, attaining the top-level SEER and SCOP.




**Ø107 Large cross-flow fan**

With the large-diameter fan, efficient air volume can be obtained at low power.



## Smart device Control (Option)

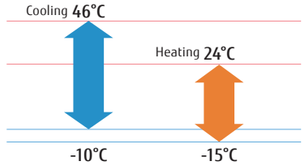
This model can be controlled from anywhere using smart device by installing optional wireless LAN interface. Wireless LAN interface can be installed easily without specialized installation work.






## Low ambient operation

-15°C at Heating








REFRIGERANT R32

**Model: ASYG18KMTA / ASYG24KMTA**





For ASYG18KMTA



For ASYG24KMTA

## Specifications

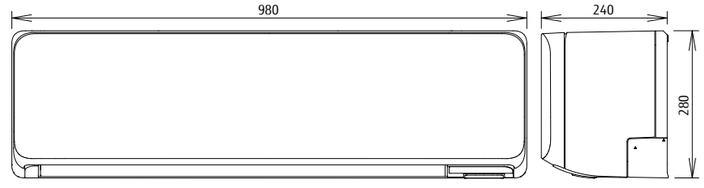
| Model No. | Indoor unit | | | ASYG18KMTA | ASYG24KMTA |
|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG18KMTA | AOYG24KMTA |
| Power Source | | | | Single-phase, ~230V, 50Hz | |
| Capacity | Cooling | | kW | 5.2(0.9-6.0) | 7.1(0.9-8.3) |
| | Heating | | | 6.3(0.9-8.7) | 8.0(0.9-10.1) |
| Input Power | Cooling/Heating | | kW | 1.39/1.56 | 2.08/1.91 |
| EER | Cooling | | W/W | 3.74 | 3.41 |
| COP | Heating | | | 4.04 | 4.19 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 5.2/4.8 | 7.1/7.1 |
| SEER | Cooling | | W/W | 7.77 | 7.28 |
| SCOP | Heating (Average) | | | 4.56 | 4.18 |
| Energy Efficiency Class | Cooling | | | A++ | A++ |
| | Heating (Average) | | | A+ | A+ |
| Max. Operating Current | Cooling/Heating | | A | 9.5/13.5 | 13.5/16.0 |
| Annual Energy Consumption | Cooling | | kWh/a | 234 | 341 |
| | Heating | | | 1,472 | 2,372 |
| Moisture Removal | | | l/h | 1.3 | 2.7 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 45/40/35/29 | 49/40/35/29 |
| | Indoor (Heating) | H/M/L/Q | | 46/40/35/29 | 49/40/35/29 |
| | Outdoor(Cooling/Heating) | High | | 50/50 | 54/52 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 60/61 | 65/65 |
| | Outdoor(Cooling/Heating) | High | | 65/65 | 67/66 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 980/2,346 | 1,170/3,240 |
| | Indoor / Outdoor (Heating) | High | | 1,020/2,100 | 1,170/2,820 |
| Net Dimensions H x W x D | Indoor | | mm | 280 × 980 × 240 | 280 × 980 × 240 |
| | Outdoor | | mm | 632 × 799 × 290 | 716 × 820 × 315 |
| Weight | Indoor | | kg(lbs) | 12.5 | 12.5 |
| | Outdoor | | kg(lbs) | 36(79) | 42(93) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35 / 12.70 | 6.35 / 12.70 |
| Drain hose Diameter (I.D./O.D.) | | | | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 |
| Max Pipe Length (Pre-Charge) | | | m | 25(15) | 30(15) |
| Max Height Difference | | | | 20 | 25 |
| Operation Range | Cooling | | °CDB | -10 to 46 | -10 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R32 (675) | R32 (675) |
| | Charge | | kg(CO2eq-T) | 1.02(0.689) | 1.32(0.891) |

## Optional parts

| | |
|---|---|
| Wired Remote Controller: | UTY-RNRYZ3, UTY-RLRY |
| Simple Remote Controller: | UTY-RSRY, UTY-RHRY |
| External input and output PCB: | UTY-XCSXZ2 |
| External connect kit: | UTY-XWZXZ5 |
| Communication kit: | UTY-TWRXZ2 |
| Wireless LAN Interface: | UTY-TFSXF2 |

## Dimensions

(Unit : mm)



NEW

# Wall Mounted

## ECO Range

Compact & Comfort



ALL DC

Economy | Powerful | Auto Changeover | Up/Down | Adjust | Restart | Sleep | Program | Filter | Washable

## Slim & stylish square design

Slim and stylish square design is realized by high density multi-path heat exchanger and high efficiency wind blower.




## High energy saving

Top class high efficiency is achieved by high efficient lamda heat exchanger, large cross flow fan and new refrigerant.

Rank *1
Cooling A++
Heating *2 A+

SEER 6.7 *1
SCOP 4.1 *2

*1:07/09 models
*2: 12 model

## Comfortable airflow & Silent operation

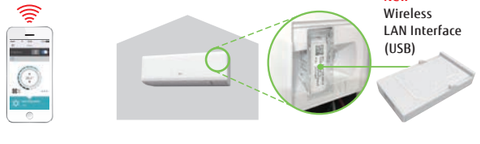
The big louver and the new air blowing structure have attained a comfortable air flow that spreads wider to user's feet and silent operation.



22dB(A)
Cooling only

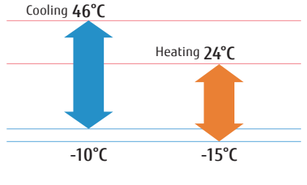
## Smart device Control (Option)

This model can be controlled from anywhere using smart device by installing optional wireless LAN interface. Wireless LAN interface can be installed easily without specialized installation work.




## Low ambient operation

-15°C
at Heating








**Model: ASYG07KPCA / ASYG09KPCA / ASYG12KPCA**





Wireless R.C.



## Specifications

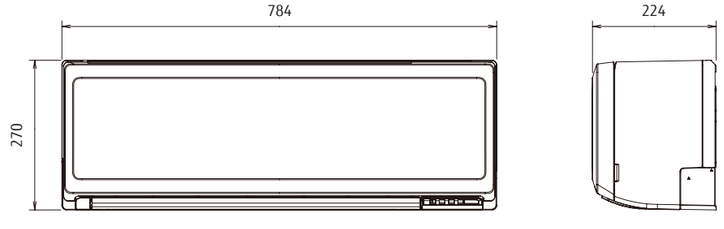
| Model No. | Indoor unit | | | ASYG07KPCA | ASYG09KPCA | ASYG12KPCA |
|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG07KPCA | AOYG09KPCA | AOYG12KPCA |
| Power Source | | | | Single-phase, ~230V, 50Hz | | |
| Capacity | Cooling | | kW | 2.0 (0.9-2.8) | 2.5 (0.9-3.0) | 3.4 (0.9-3.7) |
| | Heating | | | 2.5 (0.9-3.4) | 2.8 (0.9-3.8) | 3.8 (0.9-4.8) |
| Input Power | Cooling/Heating | | kW | 0.48/0.63 | 0.71/0.79 | 1.00/1.14 |
| EER | Cooling | | W/W | 4.17 | 3.52 | 3.40 |
| COP | Heating | | | 3.97 | 3.54 | 3.33 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 2.0/2.2 | 2.5/2.4 | 3.4/2.5 |
| SEER | Cooling | | W/W | 6.70 | 6.70 | 6.30 |
| SCOP | Heating (Average) | | | 4.00 | 4.00 | 4.10 |
| Energy Efficiency Class | Cooling | | | A++ | A++ | A++ |
| | Heating (Average) | | | A+ | A+ | A+ |
| Max. Operating Current | Cooling/Heating | | A | 6.5/9.0 | 6.5/9.0 | 6.5/9.0 |
| Annual Energy Consumption | Cooling | | kWh/a | 104 | 131 | 189 |
| | Heating | | | 769 | 840 | 853 |
| Moisture Removal | | | l/h | 1.0 | 1.3 | 1.8 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 45/38/31/22 | 45/38/31/22 | 46/40/33/22 |
| | Indoor (Heating) | H/M/L/Q | | 45/40/36/26 | 45/40/36/26 | 46/40/35/27 |
| | Outdoor(Cooling/Heating) | High | | 45/46 | 47/47 | 49/51 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 57/58 | 57/58 | 59/59 |
| | Outdoor(Cooling/Heating) | High | | 57/58 | 59/59 | 62/62 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 630/1,650 | 630/1,650 | 630/1,700 |
| | Indoor / Outdoor (Heating) | High | | 630/1,450 | 630/1,450 | 630/1,470 |
| Net Dimensions H x W x D | Indoor | | mm | 270x784x224 | 270x784x224 | 270x784x224 |
| | Outdoor | | mm | 541x663x290 | 541x663x290 | 541x663x290 |
| Weight | Indoor | | kg(lbs) | 8(18) | 8(18) | 8(18) |
| | Outdoor | | kg(lbs) | 23 (51) | 23 (51) | 25 (55) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 |
| Drain hose Diameter (I.D./O.D.) | | | | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 |
| Max Pipe Length (Pre-Charge) | | | m | 20 (15) | 20 (15) | 20 (15) |
| Max Height Difference | | | | 15 | 15 | 15 |
| Operation Range | Cooling | | °CDB | -10 to 46 | -10 to 46 | -10 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R32 (675) | R32 (675) | R32 (675) |
| | Charge | | kg(CO2eq-T) | 0.55 (0.371) | 0.55 (0.371) | 0.59 (0.398) |

### Optional parts

Wireless LAN Interface: UTY-TFSXF2
Remote Controller Holder: UTZ-RXLA

### Dimensions

(Unit : mm)



# Wall Mounted

## ECO Range

Comfort for Large Room



ALL DC

Economy · Powerful · Auto Changeover · Up/Down · Adjust · Restart · Sleep · Program · Filter · Washable

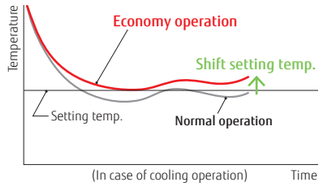
## Narrow width & Compact Design

High performance and compact design model. Powerful airflow is realized despite 790 mm width compact design for compact spaces such as bed room or home office.



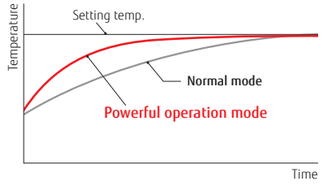

## Economy operation

Setting temperature is shifted by 1°C automatically. Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.




## Powerful operation

20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.

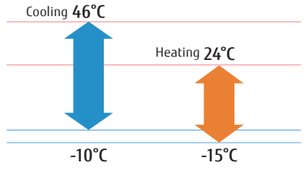



## ON-OFF Programmable timer

You can set an integrated ON-OFF or OFF-ON timer suitable for your life style. (Setting time: 0.5, 1, 1.5, 2, 2.5, -----9.5, 10, 11, 12 hours)

## Low ambient operation

-15°C
at Heating








**Model: ASYG18KLCA / ASYG24KLCA**





Wireless R.C.



For ASYG18KLCA



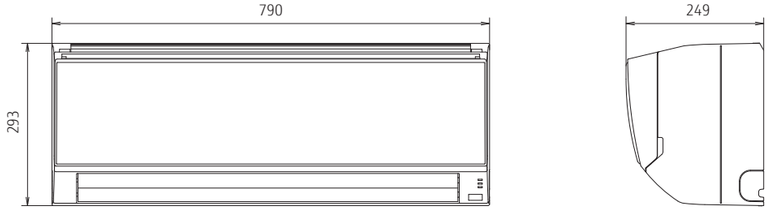
For ASYG24KLCA

## Specifications

| Model No. | Indoor unit | | | ASYG18KLCA | ASYG24KLCA |
|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG18KLTA | AOYG24KLTA |
| Power Source | | | | Single-phase, ~230V, 50Hz | |
| Capacity | Cooling | | kW | 5.2(0.9~5.5) | 7.1(0.9~7.7) |
| | Heating | | | 6.3(0.6~7.67) | 8.0(0.9~9.0) |
| Input Power | Cooling/Heating | | kW | 1.685/1.80 | 2.42/2.225 |
| EER | Cooling | | W/W | 3.09 | 2.93 |
| COP | Heating | | | 3.50 | 3.60 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 5.20/4.80 | 7.10/7.10 |
| SEER | Cooling | | W/W | 7.20 | 7.10 |
| SCOP | Heating (Average) | | | 4.30 | 4.00 |
| Energy Efficiency Class | Cooling | | | A++ | A++ |
| | Heating (Average) | | | A+ | A+ |
| Max. Operating Current | Cooling/Heating | | A | 9.5/13.5 | 13.5/17.5 |
| Annual Energy Consumption | Cooling | | kWh/a | 253 | 350 |
| | Heating | | | 1563 | 2485 |
| Moisture Removal | | | l/h | 1.9 | 3.1 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 47/44/40/35 | 51/45/38/33 |
| | Indoor (Heating) | H/M/L/Q | | 50/45/41/37 | 52/45/41/37 |
| | Outdoor(Cooling/Heating) | High | | 50/56 | 55/57 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 60/65 | 64/65 |
| | Outdoor(Cooling/Heating) | High | | 61/66 | 65/67 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 865/1,830 | 1,040/2,885 |
| | Indoor / Outdoor (Heating) | High | | 995/2,265 | 1,040/3,030 |
| Net Dimensions H x W x D | Indoor | | mm | 293×790×249 | 293×790×249 |
| | Outdoor | | mm | 542×799×290 | 632×799×290 |
| Weight | Indoor | | kg(lbs) | 9.5 (21) | 10.0 (22) |
| | Outdoor | | kg(lbs) | 33 (73) | 38 (84) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/9.52 | 6.35/12.70 |
| Drain hose Diameter (I.D./O.D.) | | | | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 |
| Max Pipe Length (Pre-Charge) | | | m | 25 (15) | 30 (15) |
| Max Height Difference | | | | 20 | 25 |
| Operation Range | Cooling | | °CDB | -10 to 46 | -10 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R32(675) | R32(675) |
| | Charge | | kg(CO2eq-T) | 0.85(0.574) | 1.10(0.743) |

## Dimensions

(Unit : mm)



# Wall Mounted

## Designer Range

### High Spec & Design

REFRIGERANT R410A

reddot design award winner 2012



ALL DC i-PAM

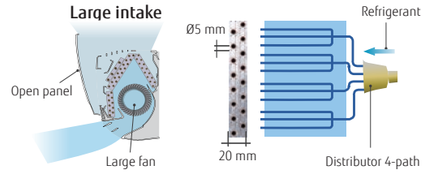
Save | Economy | Heating | Powerful | 10°C HEAT | LowNoise | Auto Changeover | Up/Down | Adjust | Restart | Sleep | Program | Weekly | Filter | ION | AF

## Thin & Slim design

Thin and slim design is realized by high density multi-path heat exchanger and high efficiency wind blower.

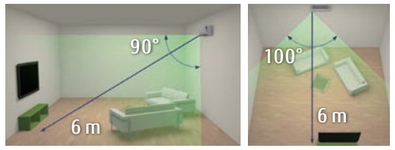



Big open panel and High density multi path heat exchanger




## Human sensor

Human sensor catches movements of people in a room, and operates with lower capacity when people leave the room. When people come back to the room, it automatically returns to previous operating mode.

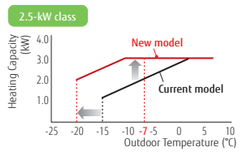


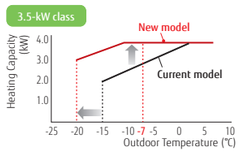




## Powerful heating

Rated heating capacity is maintained up to an outdoor temperature lower than -7 °C. This new model can operate even at -20 °C low outdoor temperature.



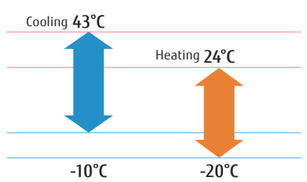

## 3 Mode timer (Weekly/Program/Sleep)

Weekly timer can be easily set by wireless remote controller. ON, OFF can be set up to 4 times in 1 day and up to 28 times in 1 week. For other modes, program timer and sleep timer can be also selected by one push.



## Low ambient operation

-20°C at Heating








**Model: ASYG09LTCA / ASYG12LTCA**





Wireless R.C.



For ASYG09LTCA



For ASYG12LTCA

## Specifications

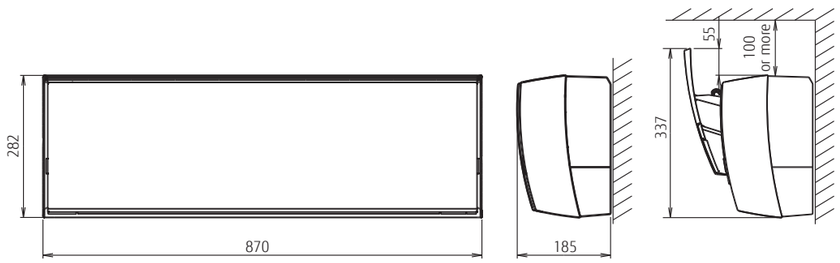
| Model No. | Indoor unit | | | ASYG09LTCA | ASYG12LTCA |
|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG09LTC | AOYG12LTC |
| Power Source | | | | Single-phase, ~230V, 50Hz | |
| Capacity | Cooling | | kW | 2.5 (0.9-3.5) | 3.5 (1.1-4.0) |
| | Heating | | | 3.2 (0.9-5.4) | 4.0 (0.9-6.5) |
| Input Power | Cooling/Heating | | kW | 0.505/0.660 | 0.850/0.910 |
| EER | Cooling | | W/W | 4.95 | 4.12 |
| COP | Heating | | | 4.85 | 4.40 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 2.5/3.0 | 3.5/4.0 |
| SEER | Cooling | | W/W | 8.50 | 8.50 |
| SCOP | Heating (Average) | | | 4.60 | 4.60 |
| Energy Efficiency Class | Cooling | | | A+++ | A+++ |
| | Heating (Average) | | | A++ | A++ |
| Max. Operating Current | Cooling/Heating | | A | 6.5/9.0 | 9.0/10.5 |
| Annual Energy Consumption | Cooling | | kWh/a | 103 | 144 |
| | Heating | | | 912 | 1,217 |
| Moisture Removal | | | l/h | 1.3 | 1.8 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 42/36/32/21 | 43/37/32/21 |
| | Indoor (Heating) | H/M/L/Q | | 42/37/32/21 | 43/38/32/21 |
| | Outdoor(Cooling/Heating) | High | | 48/50 | 48/49 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 59/61 | 60/62 |
| | Outdoor(Cooling/Heating) | High | | 63/65 | 64/65 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 800/1,700 | 850/2,050 |
| | Indoor / Outdoor (Heating) | High | | 800/1,700 | 850/2,000 |
| Net Dimensions H x W x D | Indoor | | mm | 282×870×185 | 282×870×185 |
| | Outdoor | | mm | 540×790×290 | 620×790×290 |
| Weight | Indoor | | kg(lbs) | 9.5 (21) | 9.5 (21) |
| | Outdoor | | kg(lbs) | 33 (73) | 40 (88) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/9.52 | 6.35/9.52 |
| Drain hose Diameter (I.D./O.D.) | | | | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 |
| Max Pipe Length (Pre-Charge) | | | m | 20 (15) | 20 (15) |
| Max Height Difference | | | | 15 | 15 |
| Operation Range | Cooling | | °CDB | -10 to 43 | -10 to 43 |
| | Heating | | | -20 to 24 | -20 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) |
| | Charge | | kg(CO2eq-T) | 1.05 (2.2) | 1.20 (2.5) |

## Optional parts

Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
Simple Remote Controller: UTY-RSNYM
Communication kit: UTY-TWBXF2
Wireless LAN Interface: UTY-TFNXZ1
External Connect Kit: UTY-XWZXZ5

## Dimensions

(Unit : mm)



# Wall Mounted

## Designer Range

### High COP



reddot design award winner 2012

ALL DC i-PAM

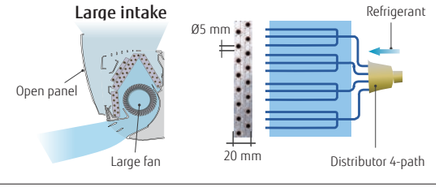
Economy · Powerful · 10°C HEAT · LowNoise · Auto Changeover · Up/Down · Adjust · Restart · Sleep · Program · Weekly · Filter · ION · AF

## Thin & Slim design

Thin and slim design is realized by Ø5 mm heat exchanger and high efficiency wind blower.

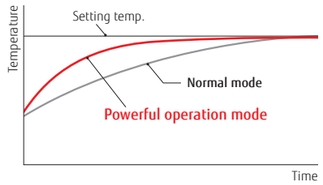



Big open panel and High density multi path heat exchanger



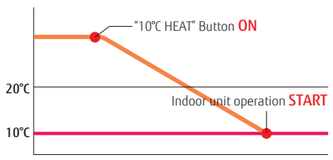

## Powerful operation

20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.




## 10°C HEAT Operation

The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.
*Only available with Wireless RC.



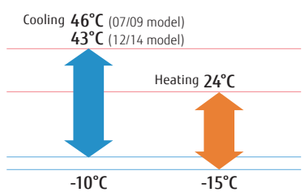

## 3 Mode timer (Weekly/Program/Sleep)

Weekly timer can be easily set by wireless remote controller. ON, OFF can be set up to 4 times in 1 day and up to 28 times in 1 week. For other modes, program timer and sleep timer can be also selected by one push.



## Low ambient operation

-15°C at Heating








**Model: ASYG07LUCA / ASYG09LUCA / ASYG12LUCA / ASYG14LUCA**





Wireless R.C.



For ASYG07/09LUCA



For ASYG12/14LUCA

## Specifications

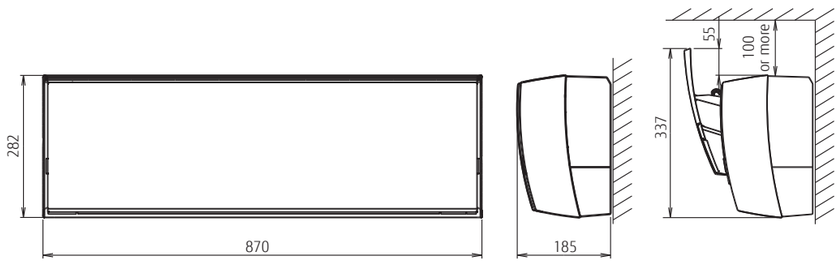
| Model No. | Indoor unit | | | ASYG07LUCA | ASYG09LUCA | ASYG12LUCA | ASYG14LUCA |
|---|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG07LUCA | AOYG09LUCB | AOYG12LUC | AOYG14LUC |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | |
| Capacity | Cooling | | kW | 2.0 (0.5-3.0) | 2.5 (0.5-3.2) | 3.5 (0.9-4.0) | 4.2 (0.9-5.0) |
| | Heating | | | 3.0 (0.5-4.0) | 3.2 (0.5-4.2) | 4.0 (0.9-5.6) | 5.4 (0.9-6.0) |
| Input Power | Cooling/Heating | | kW | 0.460/0.740 | 0.555/0.680 | 0.905/0.930 | 1.235/1.380 |
| EER | Cooling | | W/W | 4.35 | 4.50 | 3.87 | 3.40 |
| COP | Heating | | | 4.05 | 4.71 | 4.30 | 3.91 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 2.0/2.6 | 2.5/2.8 | 3.5/3.9 | 4.2/4.8 |
| SEER | Cooling | | W/W | 7.20 | 7.10 | 7.05 | 6.78 |
| SCOP | Heating (Average) | | | 4.02 | 4.10 | 4.00 | 4.00 |
| Energy Efficiency Class | Cooling | | | A++ | A++ | A++ | A++ |
| | Heating (Average) | | | A+ | A+ | A+ | A+ |
| Max. Operating Current | Cooling/Heating | | A | 6.0/7.5 | 6.0/7.5 | 6.5/9.0 | 9.0/10.5 |
| Annual Energy Consumption | Cooling | | kWh/a | 97 | 123 | 174 | 217 |
| | Heating | | | 887 | 956 | 1363 | 1677 |
| Moisture Removal | | | l/h | 1.0 | 1.3 | 1.8 | 2.1 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 38/35/31/21 | 42/36/32/21 | 43/37/32/21 | 45/40/33/25 |
| | Indoor (Heating) | H/M/L/Q | | 38/35/31/21 | 42/37/32/21 | 43/38/32/21 | 45/40/34/27 |
| | Outdoor(Cooling/Heating) | High | | 46/46 | 48/48 | 50/50 | 50/50 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 57/59 | 59/61 | 60/62 | 60/64 |
| | Outdoor(Cooling/Heating) | High | | 58/58 | 60/60 | 65/65 | 65/65 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 680/1,720 | 800/1,720 | 850/1,940 | 900/1,940 |
| | Indoor / Outdoor (Heating) | High | | 710/1,510 | 800/1,510 | 850/1,700 | 950/1,700 |
| Net Dimensions H x W x D | Indoor | | mm | 282×870×185 | 282×870×185 | 282×870×185 | 282×870×185 |
| | Outdoor | | mm | 540×660×290 | 540×660×290 | 540×790×290 | 540×790×290 |
| Weight | Indoor | | kg(lbs) | 9.5 (21) | 9.5 (21) | 9.5 (21) | 9.5 (21) |
| | Outdoor | | kg(lbs) | 23 (51) | 25 (55) | 33 (73) | 34 (75) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 | 6.35/12.70 |
| Drain hose Diameter (I.D./O.D.) | | | | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 |
| Max Pipe Length (Pre-Charge) | | | m | 20 (15) | 20 (15) | 20 (15) | 20 (15) |
| Max Height Difference | | | | 15 | 15 | 15 | 15 |
| Operation Range | Cooling | | °CDB | -10 to 46 | -10 to 46 | -10 to 43 | -10 to 43 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | | kg(CO2eq-T) | 0.70 (1.5) | 0.85 (1.8) | 1.05 (2.2) | 1.05 (2.2) |

## Optional parts

Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
Simple Remote Controller: UTY-RSNYM
Communication kit: UTY-TWBXF2
Wireless LAN Interface: UTY-TFNXZ1
External Connect Kit: UTY-XWZXZ5

## Dimensions

(Unit : mm)



# Wall Mounted

## Standard Range

### High Efficiency & Comfort

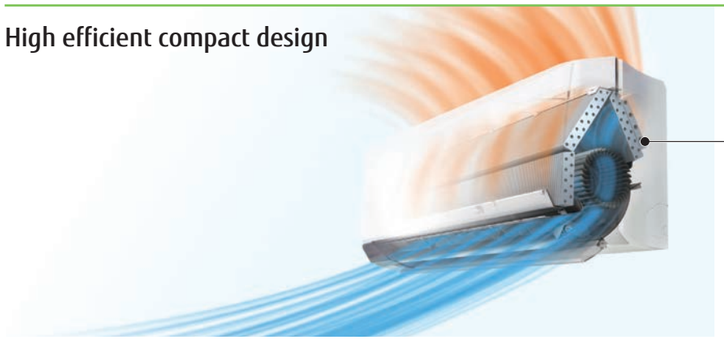


REFRIGERANT R410A

ALL DC i-PAM

Economy · Diffuser · Powerful · 10°C HEAT · LowNoise · Auto Changeover · Up/Down · Adjust · Restart · Sleep · Program · Filter · ION · AF · Washable

## High efficient compact design



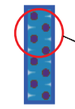
**High density heat exchanger**




Making the tube thin:

**7 mm→5 mm**

Increase of heat exchanger volume by high density and adopting sub heat exchanger

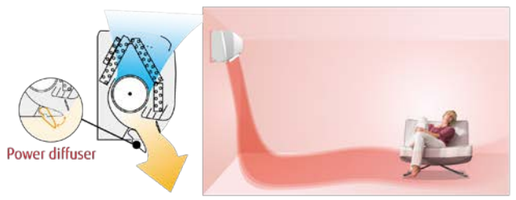


Even temperature

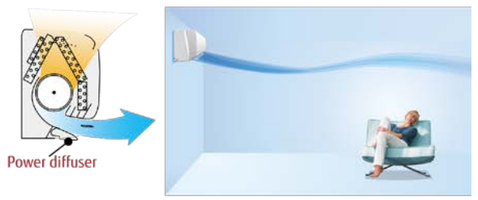
↓

Improved heat exchanger effectiveness

## More comfort airflow



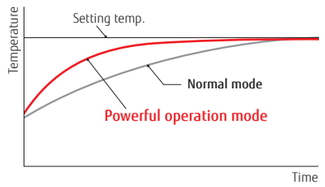

Vertical airflow provides powerful floor level heating




Horizontal airflow does not blow cool air directly at the occupants in the room.

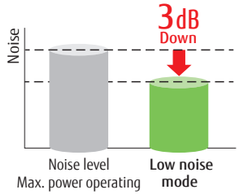
## Powerful operation

20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.




## Low noise mode for outdoor unit

Low noise mode of outdoor unit can be selected by wireless remote controller.








**Model: ASYG07LMCE / ASYG09LMCE / ASYG12LMCE / ASYG14LMCE**





Wireless R.C.



For ASYG07/09/12LMCE



For ASYG14LMCE

## Specifications

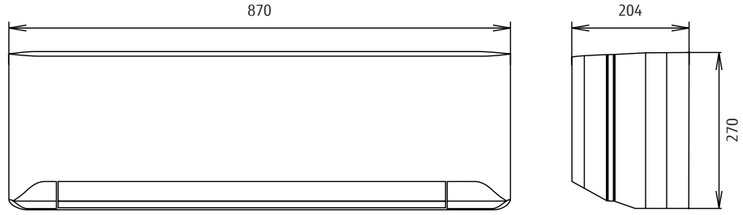
| Model No. | Indoor unit | | | ASYG07LMCE | ASYG09LMCE | ASYG12LMCE | ASYG14LMCE |
|---|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG07LMCE | AOYG09LMCE | AOYG12LMCE | AOYG14LMCE |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | |
| Capacity | Cooling | | kW | 2.0(0.5-3.0) | 2.5(0.5-3.2) | 3.4(0.9-3.9) | 4.0(0.9-4.4) |
| | Heating | | | 3.0(0.5-3.4) | 3.2(0.5-4.0) | 4.0(0.9-5.3) | 5.0(0.9-6.0) |
| Input Power | Cooling/Heating | | kW | 0.465/0.685 | 0.65/0.73 | 0.97/1.02 | 1.135/1.365 |
| EER | Cooling | | W/W | 4.30 | 3.85 | 3.50 | 3.52 |
| COP | Heating | | | 4.38 | 4.38 | 3.92 | 3.66 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 2.0/2.3 | 2.5/2.4 | 3.4/3.5 | 4.0/3.9 |
| SEER | Cooling | | W/W | 6.80 | 7.00 | 7.00 | 6.90 |
| SCOP | Heating (Average) | | | 4.10 | 4.10 | 4.00 | 4.00 |
| Energy Efficiency Class | Cooling | | | A++ | A++ | A++ | A++ |
| | Heating (Average) | | | A+ | A+ | A+ | A+ |
| Max. Operating Current | Cooling/Heating | | A | 6.0/7.5 | 6.0/7.5 | 6.5/9.0 | 9.0/10.5 |
| Annual Energy Consumption | Cooling | | kWh/a | 103 | 125 | 170 | 203 |
| | Heating | | | 786 | 820 | 1,225 | 1,365 |
| Moisture Removal | | | l/h | 1.0 | 1.3 | 1.8 | 2.1 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 43/40/32/21 | 43/40/32/21 | 43/40/32/21 | 44/40/33/25 |
| | Indoor (Heating) | H/M/L/Q | | 43/38/33/22 | 43/38/33/22 | 43/38/33/22 | 44/40/35/27 |
| | Outdoor(Cooling/Heating) | High | | 45/45 | 45/45 | 50/50 | 50/50 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 59/59 | 59/59 | 59/59 | 60/60 |
| | Outdoor(Cooling/Heating) | High | | 58/56 | 58/56 | 61/61 | 65/65 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 750/1,670 | 750/1,670 | 750/1,830 | 770/1,940 |
| | Indoor / Outdoor (Heating) | High | | 750/1,470 | 750/1,470 | 750/1,600 | 770/1,700 |
| Net Dimensions H x W x D | Indoor | | mm | 270×870×204 | 270×870×204 | 270×870×204 | 270×870×204 |
| | Outdoor | | mm | 535×663×293 | 535×663×293 | 535×663×293 | 540×790×290 |
| Weight | Indoor | | kg(lbs) | 8.5(19) | 8.5(19) | 8.5(19) | 8.5(19) |
| | Outdoor | | kg(lbs) | 21(46) | 21(46) | 26(57) | 34(75) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 | 6.35/12.70 |
| Drain hose Diameter (I.D./O.D.) | | | | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 |
| Max Pipe Length (Pre-Charge) | | | m | 20(15) | 20(15) | 20(15) | 20(15) |
| Max Height Difference | | | | 15 | 15 | 15 | 15 |
| Operation Range | Cooling | | °CDB | -10 to 43 | -10 to 43 | -10 to 43 | -10 to 43 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A(2,088) | R410A(2,088) | R410A(2,088) | R410A(2,088) |
| | Charge | | kg(CO2eq-T) | 0.70 (1.5) | 0.70 (1.5) | 0.85 (1.8) | 1.05 (2.2) |

## Optional parts

| | |
|---|---|
| Wired Remote Controller: | UTY-RNNYM, UTY-RVNYM |
| Simple Remote Controller: | UTY-RSNYM |
| Communication kit: | UTY-XCBXZ2 |
| Wireless LAN Interface: | UTY-TFNXZ1 |
| External Connect kit | UTY-XWZXZ5 |

## Dimensions

(Unit : mm)



# Wall Mounted

## Standard Range

### Comfort for Large Room

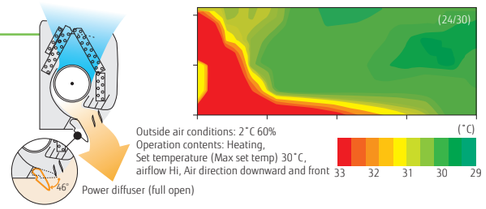


REFRIGERANT R410A

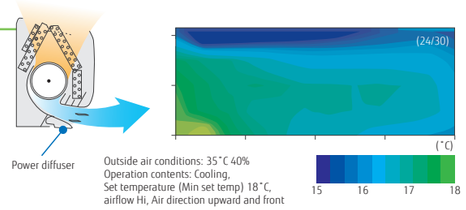
ALL DC i-PAM (18/30) V-PAM (24)

Economy · Diffuser · 10°C HEAT · Auto Changeover · Double · Adjust · Restart · Sleep · Program · Filter · ION · AF · Washable · Blue Fin (30)

## "Vertical airflow" provides powerful floor level heating




## "Horizontal airflow" does not blow cool air directly at the occupants in the room




## Air conditioner filter features

Using different filters at both sides



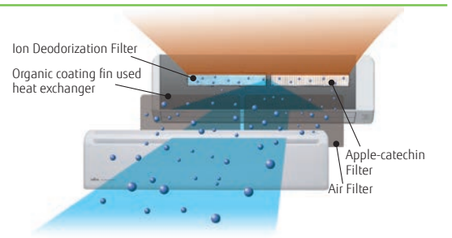
### Ion Deodorization Filter

The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.



### Apple-catechin Filter

The Apple-catechin filter uses static electricity to clean fine particles and dust in the air.

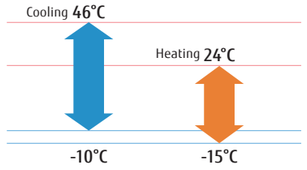



## Flexible Installation

| | 18 model | 24 model | 30 model |
|---|---|---|---|
| Max. Piping Length | 25 m | 30 m | 50 m |
| Max. Height | 20 m | 20 m | 30 m |

## Low ambient operation

-15°C at Heating






REFRIGERANT R410A

**Model: ASYG18LFCA / ASYG24LFCC / ASYG30LFCA**





Wireless R.C.



For ASYG18LFCA, ASYG24LFCC



For ASYG30LFCA

## Specifications

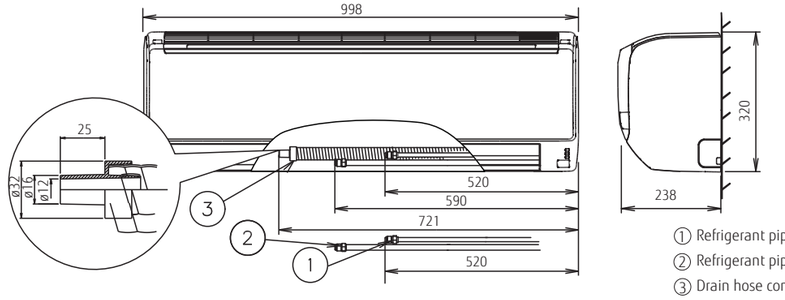
| Model No. | Indoor unit | | | ASYG18LFCA | ASYG24LFCC | ASYG30LFCA |
|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG18LFC | AOYG24LFCC | AOYG30LFT |
| Power Source | | | | | Single-phase, ~230V, 50Hz | |
| Capacity | Cooling | | kW | 5.2 (0.9-6.0) | 7.1 (0.9-8.0) | 8.0 (2.9-9.0) |
| | Heating | | | 6.3 (0.9-9.1) | 8.0 (0.9-10.6) | 8.8 (2.2-11.0) |
| Input Power | Cooling/Heating | | kW | 1.52/1.71 | 2.20/2.21 | 2.49/2.44 |
| EER | Cooling | | W/W | 3.42 | 3.23 | 3.21 |
| COP | Heating | | | 3.68 | 3.61 | 3.61 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 5.2/5.9 | 7.1/7.1 | 8.0/8.0 |
| SEER | Cooling | | W/W | 6.94 | 6.11 | 5.69 |
| SCOP | Heating (Average) | | | 3.87 | 3.80 | 3.80 |
| Energy Efficiency Class | Cooling | | | A++ | A++ | A+ |
| | Heating (Average) | | | A | A | A |
| Max. Operating Current | Cooling/Heating | | A | 9.0/12.5 | 13.5/18.5 | 17.0/19.0 |
| Annual Energy Consumption | Cooling | | kWh/a | 262 | 406 | 492 |
| | Heating | | | 2,130 | 2,610 | 2,941 |
| Moisture Removal | | | l/h | 2.6 | 2.7 | 3.2 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 43/37/33/26 | 49/42/37/32 | 48/42/37/33 |
| | Indoor (Heating) | H/M/L/Q | | 42/37/33/25 | 48/42/37/32 | 49/42/37/33 |
| | Outdoor(Cooling/Heating) | High | | 50/51 | 55/56 | 53/56 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 58/58 | 64/64 | 64/64 |
| | Outdoor(Cooling/Heating) | High | | 65/- | 68/- | 68/- |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 900/2,150 | 1,120/2,460 | 1,100/3,600 |
| | Indoor / Outdoor (Heating) | High | | 900/2,070 | 1,120/2,340 | 1,150/3,600 |
| Net Dimensions H x W x D | Indoor | | mm | 320×998×238 | 320×998×238 | 320×998×238 |
| | Outdoor | | mm | 620×790×290 | 620×790×290 | 830×900×330 |
| Weight | Indoor | | kg(lbs) | 14 (31) | 14 (31) | 14 (31) |
| | Outdoor | | kg(lbs) | 41 (90) | 41 (90) | 61 (135) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/12.70 | 6.35/15.88 | 9.52/15.88 |
| Drain hose Diameter (I.D./O.D.) | | | | 12/16 | 12/16 | 12/16 |
| Max Pipe Length (Pre-Charge) | | | m | 25 (15) | 30 (15) | 50 (20) |
| Max Height Difference | | | | 20 | 20 | 30 |
| Operation Range | Cooling | | °CDB | -10 to 46 | -10 to 46 | -10 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | | kg(CO2eq-T) | 1.20 (2.5) | 1.80 (3.8) | 2.1 (4.4) |

## Optional parts

Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
Simple Remote Controller: UTY-RSNYM
Wireless LAN Interface: UTY-TFNXZ1
External Connect Kit: UTY-XWZX

## Dimensions

(Unit : mm)




① Refrigerant pipe flare connection (Liquid)
② Refrigerant pipe flare connection (Gas)
③ Drain hose connection (Drain hose)

# Wall Mounted

## Standard Range

### Comfort for Large Room



REFRIGERANT R410A

ALL DC V V-PAM

Save | Economy | Powerful | SilverRoom | 10°C HEAT | Low Noise | Auto Changeover | Double | Adjust | Restart | Sleep | Program | Weekly | Filter | 10 N | AF | Washable | Blue Fin

## Large Capacity & Powerful airflow

Achieved large capacity and powerful airflow by large heat exchanger, long cross-flow fan, high output DC fan motor and new airflow structure design.



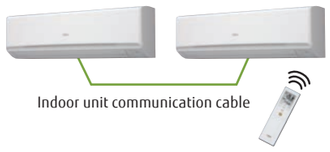

## Human sensor

Human sensor catches movements of people in a room, and operates with lower capacity when people leave the room. When people come back to the room, it automatically returns to previous operating mode.




## Server room function*

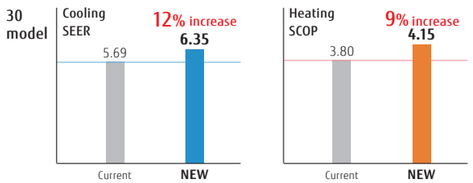
The following interlock operation is possible by connecting 2 indoor units with a cable. Cooling operation can be performed even in the low outdoor temperature and low humidity environment.



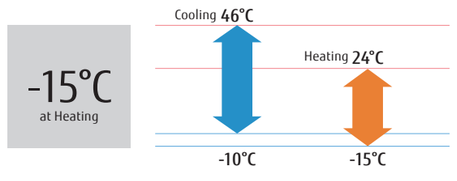

- **Alternative operation:** Two units operate alternately
- **Backup operation:** When 1 unit breaks down, the other unit starts operating automatically.
- **Supporting operation:** Both units operate simultaneously when the loaded capacity is not enough with one unit

*2 x UTY-XWNX of optional parts are required.

## High seasonal energy efficiency




## Low ambient operation








**Model: ASYG30LMTA / ASYG36LMTA**





Wireless R.C.



## Specifications

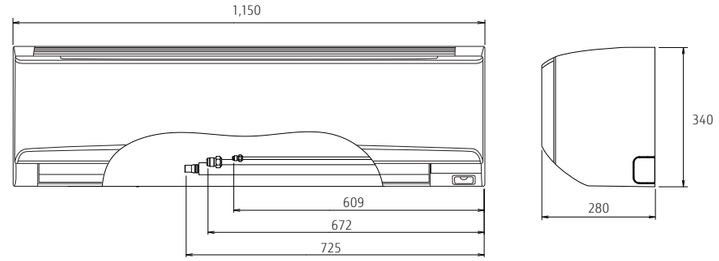
| Model No. | Indoor unit | | | ASYG30LMTA | ASYG36LMTA |
|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG30LMTA | AOYG36LMTA |
| Power Source | | | | Single-phase, ~230V, 50Hz | |
| Capacity | Cooling | | kW | 8.0 (2.9-9.0) | 9.4 (2.9-10.0) |
| | Heating | | | 8.8 (2.2-11.0) | 10.1 (2.7-11.2) |
| Input Power | Cooling/Heating | | kW | 2.33/2.41 | 3.16/2.96 |
| EER | Cooling | | W/W | 3.43 | 2.97 |
| COP | Heating | | | 3.65 | 3.41 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 8.0/6.5 | 9.4/7.1 |
| SEER | Cooling | | W/W | 6.35 | 5.73 |
| SCOP | Heating (Average) | | | 4.15 | 4.19 |
| Energy Efficiency Class | Cooling | | | A++ | A+ |
| | Heating (Average) | | | A+ | A+ |
| Max. Operating Current | Cooling/Heating | | A | 14.5/14.5 | 19.0/19.0 |
| Annual Energy Consumption | Cooling | | kWh/a | 441 | 575 |
| | Heating | | | 2,193 | 2,373 |
| Moisture Removal | | | l/h | 2.7 | 3.7 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 50/44/38/31 | 50/44/38/31 |
| | Indoor (Heating) | H/M/L/Q | | 49/44/39/33 | 49/44/39/33 |
| | Outdoor(Cooling/Heating) | High | | 52/55 | 55/56 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 65/65 | 65/65 |
| | Outdoor(Cooling/Heating) | High | | 67/68 | 68/70 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 1,380/3,600 | 1,380/3,800 |
| | Indoor / Outdoor (Heating) | High | | 1,380/3,600 | 1,380/3,800 |
| Net Dimensions H x W x D | Indoor | | mm | 340×1,150×280 | 340×1,150×280 |
| | Outdoor | | mm | 830×900×330 | 830×900×330 |
| Weight | Indoor | | kg(lbs) | 18 (40) | 18 (40) |
| | Outdoor | | kg(lbs) | 61 (134) | 61 (134) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 9.52/15.88 | 9.52/15.88 |
| Drain hose Diameter (I.D./O.D.) | | | | 13.8 / 15.8 to 16.7 | 13.8 / 15.8 to 16.7 |
| Max Pipe Length (Pre-Charge) | | | m | 50 (20) | 50 (20) |
| Max Height Difference | | | | 30 | 30 |
| Operation Range | Cooling | | °CDB | -15 to 46 | -15 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) |
| | Charge | | kg(CO2eq-T) | 2.10 (4.4) | 2.10 (4.4) |

## Optional parts

| | |
|---|---|
| Wired Remote Controller: | UTY-RNRYZ3, UTY-RVNYM, UTY-RLRY, UTY-RNNYM |
| Simple Remote Controller: | UTY-RSRY, UTY-RSNYM, UTY-RSRY |
| Communication kit: | UTY-TWRX, UTY-XWNX |
| External input and output PCB (with box): | UTY-XCSXZ2 + UTZ-GXXB |
| Wireless LAN Interface: | UTY-TFNXZ1 |
| External Connect Kit: | UTY-XWZX |

## Dimensions

(Unit : mm)



# Wall Mounted

## ECO Range

Compact & Comfort

REFRIGERANT R410A

ALL DC i-PAM



Economy · Powerful · Auto Changeover · Up/Down · Adjust · Restart · Sleep · Program · Filter · Washable

## High efficient compact design

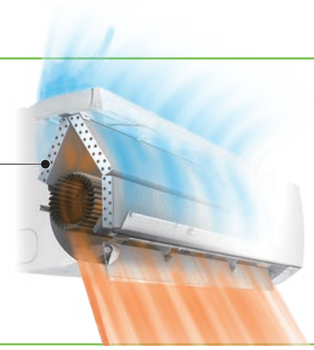
High density heat exchanger

Making the tube thin: 7 mm→5 mm

Volume reduction of heat exchanger: 30%

Even temperature

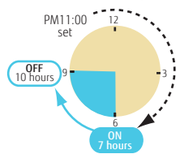
Improved heat exchanger effectiveness



## ON-OFF Programmable timer

You can set an integrated ON-OFF or OFF-ON timer suitable for your life style. (Setting time: 0.5, 1, 1.5, 2, 2.5, -----9.5, 10, 11, 12 hours)

From wake up to go to work




ON-OFF timer

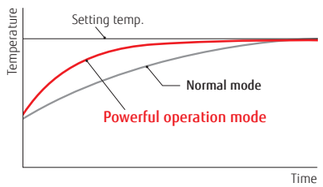
From sleep to wake up




OFF-ON timer

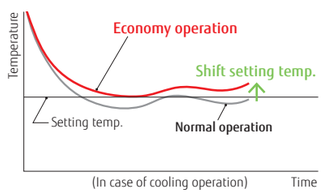
## Powerful operation

20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.



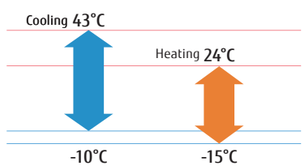

## Economy operation

Setting temp. is shifted by 1°C automatically.




## Low ambient operation

-15°C at Heating








**Model: ASYG07LLCE / ASYG09LLCE / ASYG12LLCE**





Wireless R.C.



## Specifications

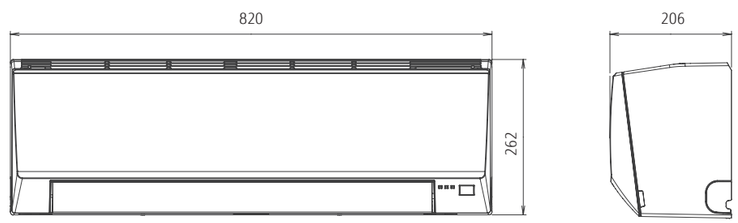
| Model No. | Indoor unit | | | ASYG07LLCE | ASYG09LLCE | ASYG12LLCE |
|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG07LLCE | AOYG09LLCE | AOYG12LLCE |
| Power Source | | | | Single-phase, ~230V, 50Hz | | |
| Capacity | Cooling | | kW | 2.0(0.9-2.8) | 2.5(0.9-3.0) | 3.4(0.9-3.8) |
| | Heating | | | 2.7(0.9-3.6) | 3.0(0.9-3.8) | 4.0(0.9-5.0) |
| Input Power | Cooling/Heating | | kW | 0.470/0.620 | 0.730/0.740 | 1.080/1.130 |
| EER | Cooling | | W/W | 4.26 | 3.42 | 3.15 |
| COP | Heating | | | 4.35 | 4.05 | 3.54 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 2.0/2.2 | 2.5/2.3 | 3.4/3.2 |
| SEER | Cooling | | W/W | 6.70 | 6.90 | 6.60 |
| SCOP | Heating (Average) | | | 4.00 | 4.00 | 3.80 |
| Energy Efficiency Class | Cooling | | | A++ | A++ | A++ |
| | Heating (Average) | | | A+ | A+ | A |
| Max. Operating Current | Cooling/Heating | | A | 6.0/7.5 | 6.0/7.5 | 6.5/9.0 |
| Annual Energy Consumption | Cooling | | kWh/a | 104 | 127 | 180 |
| | Heating | | | 770 | 805 | 1,179 |
| Moisture Removal | | | l/h | 1.0 | 1.3 | 1.8 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 43/38/33/22 | 43/38/33/22 | 43/38/33/22 |
| | Indoor (Heating) | H/M/L/Q | | 43/38/33/22 | 43/38/33/22 | 43/38/33/22 |
| | Outdoor(Cooling/Heating) | High | | 47/48 | 47/48 | 50/51 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 59/60 | 59/60 | 59/60 |
| | Outdoor(Cooling/Heating) | High | | 61/61 | 61/61 | 65/65 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 720/1,670 | 720/1,670 | 720/1,830 |
| | Indoor / Outdoor (Heating) | High | | 740/1,470 | 740/1,470 | 740/1,600 |
| Net Dimensions H x W x D | Indoor | | mm | 262×820×206 | 262×820×206 | 262×820×206 |
| | Outdoor | | mm | 535×663×293 | 535×663×293 | 535×663×293 |
| Weight | Indoor | | kg(lbs) | 7.0 (15) | 7.0 (15) | 7.0 (15) |
| | Outdoor | | kg(lbs) | 24 (53) | 24 (53) | 26 (57) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 |
| Drain hose Diameter (I.D./O.D.) | | | | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 |
| Max Pipe Length (Pre-Charge) | | | m | 20(15) | 20(15) | 20(15) |
| Max Height Difference | | | | 15 | 15 | 15 |
| Operation Range | Cooling | | °CDB | -10 to 43 | -10 to 43 | -10 to 43 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A(2,088) | R410A(2,088) | R410A(2,088) |
| | Charge | | kg(CO2eq-T) | 0.65(1.4) | 0.65(1.4) | 0.85(1.8) |

### Optional parts

Remote Controller Holder: UTZ-RXLA

### Dimensions

(Unit : mm)



NEW

# Compact Cassette

## 4-way Flow

Compact & Comfort



ALL DC V V-PAM

Economy | 10°C HEAT | Auto Changeover | Up/Down | Adjust | Restart | Sleep | Program | Filter | Drain Pump

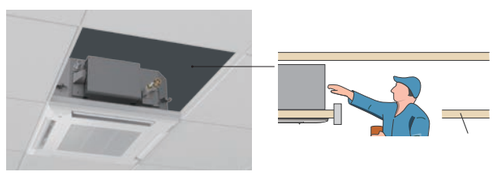
## Compact and stylish panel design

Compact and stylish panel design fits the grid type ceiling.
It is a linear design suitable for grid shape of 620 mm × 620 mm grid ceiling.



## Easy maintenance

Maintenance is easier by removing the ceiling panel next to the grill, maintenance can be done, and new installation of inspection hole is unnecessary, so construction costs can be suppressed.



The air inlet grill can be installed in various directions, so maintenance is easy.

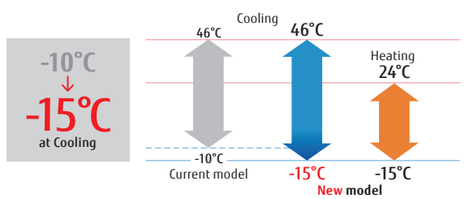


## Flexible installation

It is suitable for ceiling of grid type and it has high degree of freedom of installation and it can be installed beside lighting and ventilation opening.



## Low ambient operation








REFRIGERANT R32

**Model: AUXG09KVLA / AUXG12KVLA / AUXG14KVLA / AUXG18KVLA / AUXG22KVLA / AUXG24KVLA**





For AUXG9/12/14KVLA



For AUXG18/22KVLA



For AUXG24KVLA

## Specifications

| Model No. | Indoor unit | | AUXG09KVLA | AUXG12KVLA | AUXG14KVLA | AUXG18KVLA | AUXG22KVLA | AUXG24KVLA |
|---|---|---|---|---|---|---|---|---|
| | Outdoor unit | | AOYG09KBTB | AOYG12KBTB | AOYG14KBTB | AOYG18KBTB | AOYG22KBTB | AOYG24KBTB |
| Power Source | | | Single-phase, ~230V, 50Hz | | | | | |
| Capacity | Cooling | kW | 2.5 (0.9-3.2) | 3.5 (0.9-4.4) | 4.3 (0.9-5.4) | 5.2 (0.9-5.9) | 6.0 (0.9-6.7) | 6.8 (0.9-8.0) |
| | Heating | kW | 3.2 (0.9-4.7) | 4.1 (0.9-5.7) | 5.0 (0.9-6.5) | 6.0 (0.9-7.5) | 7.0 (0.9-8.0) | 7.5 (0.9-9.1) |
| Input Power | Cooling/Heating | kW | 0.55/0.79 | 0.93/1.08 | 1.28/1.32 | 1.60/1.66 | 1.82/1.87 | 2.21/2.03 |
| EER | Cooling | W/W | 4.57 | 3.76 | 3.36 | 3.25 | 3.30 | 3.08 |
| COP | Heating | W/W | 4.05 | 3.80 | 3.79 | 3.61 | 3.74 | 3.69 |
| Pdesign | Cooling/Heating(-10°C) | kW | 2.5/2.6 | 3.5/3.4 | 4.3/3.8 | 5.2/4.4 | 6.0/4.8 | 6.8/6.0 |
| SEER | Cooling | W/W | 6.70 | 6.60 | 6.50 | 6.60 | 6.60 | 6.10 |
| SCOP | Heating (Average) | W/W | 4.40 | 4.30 | 4.40 | 4.20 | 4.30 | 4.00 |
| Energy Efficiency Class | Cooling | | A++ | A++ | A++ | A++ | A++ | A++ |
| | Heating (Average) | | A+ | A+ | A+ | A+ | A+ | A+ |
| Max. Operating Current | Cooling/Heating | A | 7.9 | 9.7 | 10.2 | 12.1 | 12.6 | 13.6 |
| Annual Energy Consumption | Cooling | kWh/a | 131 | 186 | 231 | 275 | 318 | 390 |
| | Heating | kWh/a | 826 | 1,106 | 1,208 | 1,466 | 1,562 | 2,097 |
| Moisture Removal | | l/h | 0.6 | 1.2 | 1.5 | 2.2 | 2.6 | 2.7 |
| Sound Pressure Level | Indoor (Cooling) H/M/L/Q | dB(A) | 33/31/29/27 | 37/34/30/27 | 38/34/30/27 | 38/34/30/26 | 44/42/36/30 | 49/44/36/30 |
| | Indoor (Heating) H/M/L/Q | dB(A) | 34/32/29/27 | 37/34/31/29 | 43/38/34/30 | 43/38/34/30 | 45/43/40/33 | 49/45/40/33 |
| Sound Power Level | Outdoor(Cooling/Heating) High | dB(A) | 46/46 | 47/47 | 49/49 | 50/50 | 51/51 | 53/54 |
| | Indoor(Cooling/Heating) High | dB(A) | 46/47 | 49/49 | 50/55 | 50/55 | 56/57 | 59/61 |
| | Outdoor(Cooling/Heating) High | dB(A) | 59/59 | 61/61 | 62/62 | 62/62 | 63/63 | 65/66 |
| Airflow Rate | Indoor / Outdoor (Cooling) High | $m^3/h$ | 540/1,480 | 600/1,580 | 680/1,670 | 680/2,160 | 830/2,240 | 930/2,700 |
| | Indoor / Outdoor (Heating) High | $m^3/h$ | 540/1,410 | 600/1,520 | 800/1,580 | 800/1,830 | 860/1,960 | 930/2,700 |
| Net Dimensions H x W x D | Indoor | mm | 245x570x570 | 245x570x570 | 245x570x570 | 245x570x570 | 245x570x570 | 245x570x570 |
| | Outdoor | mm | 542x799x290 | 542x799x290 | 542x799x290 | 632x799x290 | 632x799x290 | 716x820x315 |
| Weight | Indoor | kg(lbs) | 15 (33) | 15 (33) | 15 (33) | 15 (33) | 16 (35) | 16 (35) |
| | Outdoor | kg(lbs) | 32 (71) | 33 (73) | 33 (73) | 36 (79) | 38 (84) | 42 (93) |
| Connection Pipe Diameter (Liquid / Gas) | | mm | 6.35/9.53 | 6.35/9.53 | 6.35/9.53 | 6.35/12.70 | 6.35/12.70 | 6.35/12.70 |
| Drain hose Diameter (I.D./O.D.) | | mm | 25/32 | 25/32 | 25/32 | 25/32 | 25/32 | 25/32 |
| Max Pipe Length (Pre-Charge) | | m | 20 (15) | 25 (15) | 25 (15) | 30 (20) | 30 (20) | 30 (20) |
| Max Height Difference | | m | 15 | 20 | 20 | 20 | 25 | 25 |
| Operation Range | Cooling | °CDB | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 |
| | Heating | °CDB | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | R32 (675) | R32 (675) | R32 (675) | R32 (675) | R32 (675) | R32 (675) |
| | Charge | kg(CO2eq-T) | 0.85 (0.574) | 0.85 (0.574) | 0.85 (0.574) | 1.02 (0.689) | 1.25 (0.844) | 1.25(0.844) |
| Cassette Grille | Model name | | UTG-UFYF-W | UTG-UFYF-W | UTG-UFYF-W | UTG-UFYF-W | UTG-UFYF-W | UTG-UFYF-W |
| | Dimensions (H × W × D) | mm | 49x620x620 | 49x620x620 | 49x620x620 | 49x620x620 | 49x620x620 | 49x620x620 |
| | Weight | kg(lbs) | 2.3 (5.1) | 2.3 (5.1) | 2.3 (5.1) | 2.3 (5.1) | 2.3 (5.1) | 2.3 (5.1) |

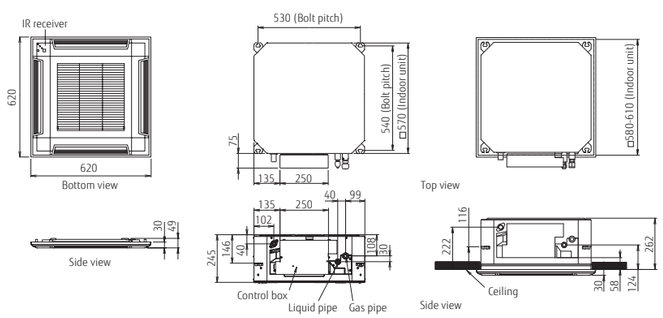
## Optional parts

Wireless Remote Controller: UTY-LNTY
Wired Remote Controller: UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM, UTY-RNNYM
Simple Remote Controller: UTY-RSRY, UTY-RHRY, UTY-RSNYM
Wireless LAN Interface: UTY-TFSXZ1
Cassette Grille: UTY-UFYF-W
Fresh Air Intake Kit: UTZ-VXAA
Air Outlet Shutter Plate: UTR-YDZB
Insulation for High Humidity: UTZ-KXGC
External Input and Output PCB (with box): UTY-XCSX+UTZ-GXRA
External Connect Kit: UTY-XWZXZG




## Dimensions

(Unit : mm)



# Compact Cassette

## 4-way Flow

Compact & Comfort

REFRIGERANT R410A



ALL DC V V-PAM

Economy | 10°C HEAT | Auto Changeover | Up/Down | Adjust | Restart | Sleep | Program | Filter | Drain Pump

## 2-stage turbo fan

High efficiency design by 2 stage structure

### Previous turbo fan

In the case of a conventional fan, the air outlet range was narrow as the airflow moved to the motor side which meant the velocity of air passing through the heat exchanger was uneven.



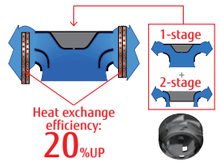
Wind velocity

Fast

Slow

### 2-stage turbo fan

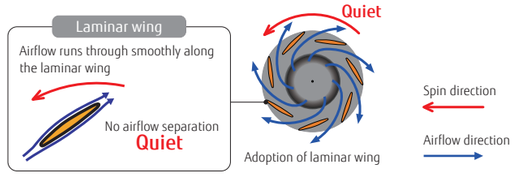
An evenly spread air distribution across the heat exchanger is possible due to the 2 stage turbo fan which produces two separate airflow streams.




## Quiet quality

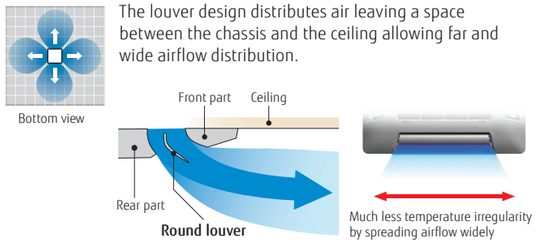
Optimized wing form (laminar wing type) and wing number (7 blades each)

**Designed by CFD-analysis (fluid) simulations**

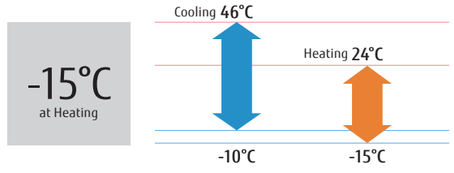



## Improvement of the airflow distribution

The louver design distributes air leaving a space between the chassis and the ceiling allowing far and wide airflow distribution.




## Low ambient operation








REFRIGERANT R410A

**Model : AUYG12LVLB / AUYG14LVLB / AUYG18LVLB / AUYG24LVLA**





Wireless R.C.



For AUYG12/14LVLB



For AUYG18LVLB



For AUYG24LVLA

## Specifications

| Model No. | Indoor unit | | | AUYG12LVLB | AUYG14LVLB | AUYG18LVLB | AUYG24LVLA |
|---|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG12LALL | AOYG14LALL | AOYG18LBCB | AOYG24LBCB |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | |
| Capacity | Cooling | | kW | 3.5 (0.9-4.4) | 4.3 (0.9-5.4) | 5.2 (0.9-5.9) | 6.8 (0.9-8.0) |
| | Heating | | | 4.1 (0.9-5.7) | 5.0 (0.9-6.5) | 6.0 (0.9-7.5) | 8.0 (0.9-9.1) |
| Input Power | Cooling/Heating | | kW | 1.05/1.11 | 1.33/1.34 | 1.62/1.66 | 2.21/2.26 |
| EER | Cooling | | W/W | 3.33 | 3.21 | 3.21 | 3.08 |
| COP | Heating | | | 3.69 | 3.71 | 3.61 | 3.54 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 3.5/4.2 | 4.3/4.5 | 5.2/5.2 | 6.8/6.0 |
| SEER | Cooling | | W/W | 6.20 | 6.40 | 6.20 | 5.60 |
| SCOP | Heating (Average) | | | 4.10 | 4.40 | 4.20 | 3.90 |
| Energy Efficiency Class | Cooling | | | A++ | A++ | A++ | A+ |
| | Heating (Average) | | | A+ | A+ | A+ | A |
| Max. Operating Current | Cooling/Heating | | A | 7.5/10.0 | 9.0/12.5 | 11.5/13.5 | 14.7/15.7 |
| Annual Energy Consumption | Cooling | | kWh/a | 198 | 235 | 293 | 425 |
| | Heating | | | 1,431 | 1,432 | 1,731 | 2,151 |
| Moisture Removal | | | l/h | 1.2 | 1.5 | 2.2 | 2.7 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 37/34/30/27 | 38/34/30/27 | 38/34/30/26 | 49/44/36/30 |
| | Indoor (Heating) | H/M/L/Q | | 37/34/31/29 | 43/38/34/30 | 43/38/34/30 | 49/45/40/33 |
| | Outdoor(Cooling/Heating) | High | | 47/48 | 49/49 | 50/50 | 53/54 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 49/49 | 50/55 | 50/55 | 59/61 |
| | Outdoor(Cooling/Heating) | High | | 61/63 | 62/64 | 62/65 | 66/66 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 600/1,780 | 680/1,910 | 680/2,380 | 930/2,850 |
| | Indoor / Outdoor (Heating) | High | | 600/1,630 | 800/1,740 | 800/2,080 | 930/2,700 |
| Net Dimensions H x W x D | Indoor | | mm | 245×570×570 | 245×570×570 | 245×570×570 | 245×570×570 |
| | Outdoor | | mm | 578×790×300 | 578×790×300 | 632×799×290 | 716×820×315 |
| Weight | Indoor | | kg(lbs) | 15 (33) | 15 (33) | 15 (33) | 16 (35) |
| | Outdoor | | kg(lbs) | 40 (88) | 40 (88) | 36 (79) | 42 (95) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/9.52 | 6.35/12.70 | 6.35/12.70 | 6.35/15.88 |
| Drain hose Diameter (I.D./O.D.) | | | | 25/32 | 25/32 | 25/32 | 25/32 |
| Max Pipe Length (Pre-Charge) | | | m | 25 (15) | 25 (15) | 25 (15) | 30 (15) |
| Max Height Difference | | | | 15 | 15 | 15 | 20 |
| Operation Range | Cooling | | °CDB | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | | kg(CO2eq-T) | 1.15 (2.4) | 1.25 (2.6) | 1.20 (2.5) | 1.50 (3.1) |
| Cassette Grille | Model name | | | UTG-UFYD-W | UTG-UFYD-W | UTG-UFYD-W | UTG-UFYD-W |
| | Dimensions (H × W × D) | | mm | 49×700×700 | 49×700×700 | 49×700×700 | 49×700×700 |
| | Weight | | kg(lbs) | 2.6 (6) | 2.6 (6) | 2.6 (6) | 2.6 (6) |

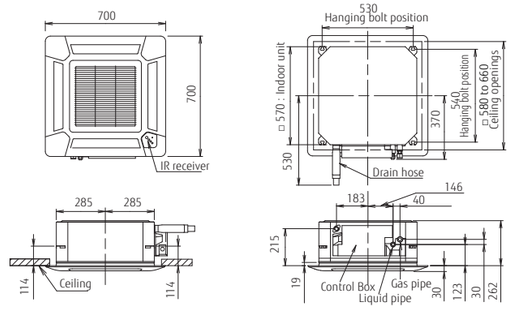
## Optional parts

| | | | |
|---|---|---|---|
| Wired Remote Controller: | UTY-RNNYM, UTY-RVNYM | Air Outlet Shutter Plate: | UTR-YDZB |
| Simple Remote Controller: | UTY-RSNYM | Wireless LAN Interface: | UTY-TFNXZ1 |
| Insulation Kit For High Humidity: | UTZ-KXGC | External Connect Kit: | UTY-XWZX |
| Fresh Air Intake Kit: | UTZ-VXAA | Cassette Grille: | UTG-UFYD-W |




## Dimensions

(Unit : mm)



NEW

# Cassette

## Circular Flow

### Comfort for Large Room




Economy · Set Temp. · Return · Auto Changeover · Up/Down · Adjust · Restart · Duct · Distributing · Individual · Auto OFF · Weekly · Filter · On/Off · Drain Pump · Blue Fin

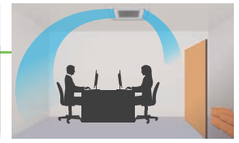
(30/36/45/54)

## Unique Circular Flow design

Cassette type realizes Circular Flow to blow large airflow in 360° direction by mounting high performance DC fan motor, turbo fan and unique seamless airflow louver design.



Comfortable air conditioning by preventing direct blowing of cold air and by providing swinging air flow simultaneously.



Efficient air conditioning based on the room layout

## Individual louver control

Each louver can be set individually by Touch Panel Wired Remote Controller to enjoy the comfort of different directional airflows according to various room layouts.

*Touch Panel Wired RC (UTY-RNRYZ3)only

**Human sensor increases more energy saving**
Energy saving operation starts automatically by detecting the motion of a person. 2 modes of save operation mode and stop mode can be selected.

## Compact and lightweight outdoor unit

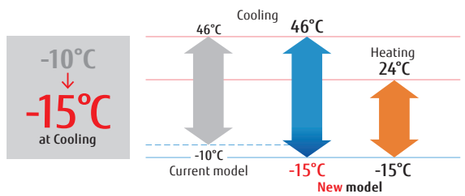
45 model outdoor unit was changed completely. Easier installation was realized by compact and lightweight outdoor unit.




Current model

New 45/54 models

## Low ambient operation




## Various Cassette Grille

Both, black and white color grilles are available. There are three types: white color grille with Remote Controller, only white color grille and only black color grille.
Selectable according to the atmosphere and/or usage of the room.



**UTG-UKYA-W**
White Color Grille
With touch panel wired remote controller





**UTG-UKYA-B**
Black Color Grille



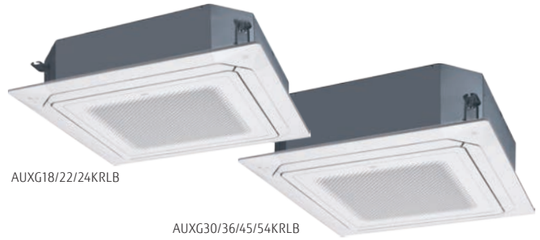
**UTG-UKYC-W**
White Color Grille





REFRIGERANT R32

**Model: AUXG18KRLB / AUXG22KRLB / AUXG24KRLB**
**AUXG30KRLB / AUXG36KRLB / AUXG45KRLB / AUXG54KRLB**



AUXG18/22/24KRLB

AUXG30/36/45/54KRLB



For AUXG18/22KRLB



For AUXG24KRLB



For AUXG30/36KRLB



For AUXG45/54KRLB

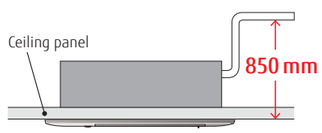
## Specifications

| Model No. | Indoor unit | | | AUXG18KRLB | AUXG22KRLB | AUXG24KRLB | AUXG30KRLB | AUXG36KRLB | AUXG45KRLB | AUXG54KRLB |
|---|---|---|---|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG18KBTB | AOYG22KBTB | AOYG24KBTB | AOYG30KBTB | AOYG36KBTB | AOYG45KBTB | AOYG54KBTB |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | | | | |
| Capacity | Cooling | | kW | 5.2 (0.9-5.9) | 6.0 (0.9-6.7) | 6.8 (0.9-8.0) | 8.5 (2.8-10.0) | 9.5 (2.8-11.2) | 12.1 (4.0-14.0) | 13.4 (4.5-14.5) |
| | Heating | | | 6.0 (0.9-7.5) | 7.0 (0.9-8.0) | 7.5 (0.9-9.1) | 10.0 (2.7-11.2) | 10.8 (2.7-12.7) | 13.5 (4.2-16.2) | 15.5 (4.7-16.5) |
| Input Power | Cooling/Heating | | kW | 1.36/1.58 | 1.71/1.82 | 1.89/1.90 | 2.44/2.51 | 2.91/2.45 | 3.61/3.21 | 4.41/4.16 |
| EER | Cooling | | W/W | 3.82 | 3.51 | 3.60 | 3.49 | 3.26 | 3.35 | 3.04 |
| COP | Heating | | | 3.80 | 3.85 | 3.95 | 3.98 | 4.40 | 4.20 | 3.73 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 5.2/4.4 | 6.0/4.8 | 6.8/6.0 | 8.5/8.0 | 9.5/8.7 | - | - |
| SEER | Cooling | | W/W | 7.00 | 7.00 | 6.60 | 6.70 | 6.55 | - | - |
| SCOP | Heating (Average) | | | 4.30 | 4.40 | 4.20 | 4.30 | 4.30 | - | - |
| Energy Efficiency Class | Cooling | | | A++ | A++ | A++ | A++ | A++ | - | - |
| | Heating (Average) | | | A+ | A+ | A+ | A+ | A+ | - | - |
| Max. Operating Current | Cooling/Heating | | A | 12.1 | 12.6 | 13.6 | 22.6 | 22.6 | 28.5 | 28.5 |
| Annual Energy Consumption | Cooling | | kWh/a | 260 | 300 | 360 | 444 | 507 | - | - |
| | Heating | | | 1,431 | 1,527 | 1,999 | 2,601 | 2,828 | - | - |
| Moisture Removal | | | l/h | 1.5 | 2.2 | 2.7 | 2.5 | 3.3 | 4.5 | 5.0 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 33/32/31/28 | 33/32/31/28 | 35/33/32/29 | 40/38/36/33 | 44/41/38/34 | 46/42/39/35 | 47/43/40/36 |
| | Indoor (Heating) | H/M/L/Q | | 33/32/31/28 | 33/32/31/28 | 35/33/32/29 | 40/38/36/33 | 44/41/38/34 | 46/42/39/35 | 47/43/40/36 |
| | Outdoor(Cooling/Heating) | High | | 50/50 | 51/51 | 53/54 | 53/55 | 55/55 | 57/57 | 57/59 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 47/47 | 49/49 | 49/49 | 54/54 | 58/58 | 60/60 | 61/61 |
| | Outdoor(Cooling/Heating) | High | | 62/62 | 63/63 | 65/66 | 68/69 | 70/70 | 71/71 | 73/73 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 1,050/2,160 | 1,050/2,240 | 1,150/2,700 | 1,600/3,750 | 1,870/3,750 | 2,000/4,450 | 2,100/4,450 |
| | Indoor / Outdoor (Heating) | High | | 1,050/1,830 | 1,050/1,960 | 1,150/2,700 | 1,600/3,750 | 1,870/3,750 | 2,000/4,450 | 2,100/4,450 |
| Net Dimensions H x W x D | Indoor | | mm | 246x840x840 | 246x840x840 | 246x840x840 | 288x840x840 | 288x840x840 | 288x840x840 | 288x840x840 |
| | Outdoor | | mm | 632x799x290 | 632x799x290 | 716x820x315 | 788x940x320 | 788x940x320 | 998x940x320 | 998x940x320 |
| Weight | Indoor | | kg(lbs) | 23 (51) | 23 (51) | 24 (53) | 26 (57) | 29 (64) | 29 (64) | 29 (64) |
| | Outdoor | | kg(lbs) | 36 (79) | 38 (84) | 42 (93) | 52 (115) | 52 (115) | 67 (148) | 67 (148) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/12.70 | 6.35/12.70 | 6.35/12.70 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 |
| Drain hose Diameter (I.D./O.D.) | | | | 25/32 | 25/32 | 25/32 | 25/32 | 25/32 | 25/32 | 25/32 |
| Max Pipe Length (Pre-Charge) | | | m | 30 (20) | 30 (20) | 30 (20) | 50 (30) | 50 (30) | 50 (30) | 50 (30) |
| Max Height Difference | | | | 20 | 25 | 25 | 30 | 30 | 30 | 30 |
| Operation Range | Cooling | | °CDB | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R32 (675) | R32 (675) | R32 (675) | R32 (675) | R32 (675) | R32 (675) | R32 (675) |
| | Charge | | kg(CO2eq-T) | 1.02 (0.689) | 1.25 (0.844) | 1.25(0.844) | 1.90(1.283) | 1.90(1.283) | 2.70(1.823) | 2.70(1.823) |
| Cassette Grille | Variation | | | UTG-UKYA-W: White Color with touch panel wired remote controller<br>UTG-UKYC-W: White Color / UTG-UKYA-B*1: Black Color | | | | | | |
| | Dimensions (H × W × D) | | mm | 53x950x950 | 53x950x950 | 53x950x950 | 53x950x950 | 53x950x950 | 53x950x950 | 53x950x950 |
| | Weight | | kg(lbs) | 6.0 (13) | 6.0 (13) | 6.0 (13) | 6.0 (13) | 6.0 (13) | 6.0 (13) | 6.0 (13) |

*1: IR Receiver kit and human sensor kit cannot be connected.

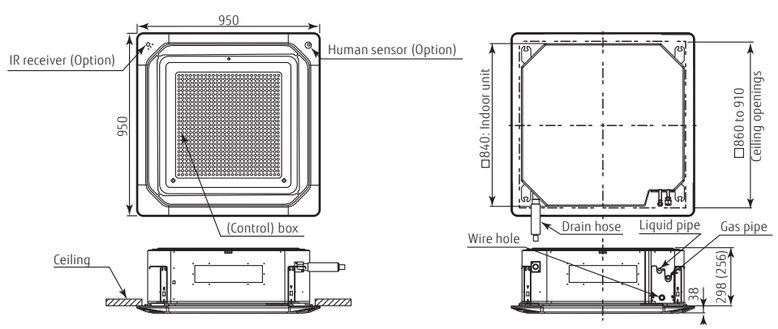
### Optional parts

| | | | |
|---|---|---|---|
| Wired Remote Controller: | UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM, UTY-RNNYM | Wide Panel: | UTG-AKXA-W |
| Simple Remote Controller: | UTY-RSRY, UTY-RHRY, UTY-RSNYM | Panel Spacer: | UTG-BKXA-W |
| IR Receiver Kit: | UTY-LBTYC | Fresh Air Intake Kit: | UTZ-VXRA |
| Wireless LAN Interface: | UTY-TFSXZ1 | Air Outlet Shutter Plate: | UTR-YDZK |
| Human Sensor Kit: | UTY-SHZXC | Insulation Kit for High Humidity: | UTZ-KXRA |
| Cassette Grille: | UTG-UKYA-W, UTG-UKYC-W, UTG-UKYA-B | External Input and Output PCB (with box): | UTY-XCSX + UTZ-GXRA |
| | | External Connect Kit: | UTY-XWZXZG |




### Dimensions

(Unit : mm)




( ) : AUXG18/22/24KRLB

# Cassette

## Circular Flow

### Comfort for Large Room

REFRIGERANT R410A

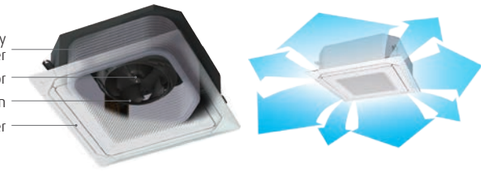
ALL DC i-PAM



Economy | Set Temp. | Return | Auto Changeover | Up/Down | Adjust | Restart | Duct | Distributing | Individual | Auto OFF | Weekly | Filter | On/Off | Drain Pump | Blue Fin (30/36/45/54)

## Unique Circular Flow design

Cassette type realizes Circular Flow to blow large airflow in 360° direction by mounting high performance DC fan motor, turbo fan and unique seamless airflow louver design.



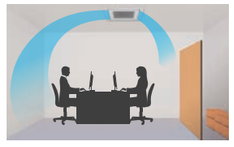

## Individual louver control

Each louver can be set individually by Touch Panel Wired Remote Controller to enjoy the comfort of different directional airflows according to various room layouts.

*Touch Panel Wired RC (UTY-RNRYZ3)only



Comfortable air conditioning by preventing direct blowing of cold air and by providing swinging air flow simultaneously.



Efficient air conditioning based on the room layout

## Human sensor increases more energy saving

Energy saving operation starts automatically by detecting the motion of a person. 2 modes of save operation mode and stop mode can be selected.



Human sensor (Option)

**2 modes can be selected.**

| | |
|---|---|
| Auto saving | Power is saved while people are away. |
| Auto OFF | Operation stops after people go out. |

*Touch Panel Wired RC (UTY-RNRYZ3) only

## Various Cassette Grille

Both, black and white color grilles are available. There are three types: white color grille with Remote Controller, only white color grille and only black color grille.
Selectable according to the atmosphere and/or usage of the room.



**UTG-UKYA-W**
White Color Grille
With touch panel wired remote controller





**UTG-UKYA-B**
Black Color Grille



**UTG-UKYC-W**
White Color Grille





**Model: AUXG18LRLB / AUXG24LRLB**
**AUXG30LRLB / AUXG36LRLB / AUXG45LRLB / AUXG54LRLB**



AUXG18/24LRLB



AUXG30/36/45/54LRLB



Touch Panel Wired R.C.



For AUXG18/24LRLB



For AUXG30/36LRLB



For AUXG45/54LRLB

## Specifications

| Model No. | Indoor unit | | | AUXG18LRLB | AUXG24LRLB | AUXG30LRLB | AUXG36LRLB | AUXG45LRLB | AUXG54LRLB |
|---|---|---|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG18LBCA | AOYG24LBCA | AOYG30LBTA | AOYG36LBTA | AOYG45LBTA | AOYG54LBTA |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | | | |
| Capacity | Cooling | | kW | 5.2 (0.9-6.5) | 6.8 (0.9-8.0) | 8.5 (2.8-10.0) | 9.5 (2.8-11.2) | 12.5 (4.0-14.0) | 13.3 (4.5-14.5) |
| | Heating | | | 6.0 (0.9-8.0) | 7.8 (0.9-9.1) | 10.0 (2.7-11.2) | 10.8 (2.7-12.7) | 14.0 (4.2-16.2) | 15.8 (4.7-16.5) |
| Input Power | Cooling/Heating | | kW | 1.42/1.50 | 2.16/2.18 | 2.56/2.77 | 2.96/2.91 | 3.85/3.73 | 4.38/4.58 |
| EER | Cooling | | W/W | 3.66 | 3.15 | 3.32 | 3.21 | 3.25 | 3.04 |
| COP | Heating | | | 4.00 | 3.58 | 3.61 | 3.71 | 3.75 | 3.45 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 5.2/4.3 | 6.8/6.0 | 8.5/8.0 | 9.5/8.7 | - | - |
| SEER | Cooling | | W/W | 7.05 | 6.60 | 6.70 | 6.40 | - | - |
| SCOP | Heating (Average) | | | 4.40 | 4.20 | 4.30 | 4.30 | - | - |
| Energy Efficiency Class | Cooling | | | A++ | A++ | A++ | A++ | - | - |
| | Heating (Average) | | | A+ | A+ | A+ | A+ | - | - |
| Max. Operating Current | Cooling/Heating | | A | 10.0/13.5 | 13.5/18.5 | 17.0/17.0 | 20.0/20.0 | 20.5/20.5 | 21.5/21.5 |
| Annual Energy Consumption | Cooling | | kWh/a | 258 | 361 | 444 | 519 | - | - |
| | Heating | | | 1,367 | 1,999 | 2,604 | 2,833 | - | - |
| Moisture Removal | | | l/h | 2.2 | 2.7 | 2.5 | 3.3 | 4.5 | 5.0 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 33/32/31/28 | 35/33/32/29 | 40/38/36/33 | 44/41/38/34 | 46/42/39/35 | 47/43/40/36 |
| | Indoor (Heating) | H/M/L/Q | | 33/32/31/28 | 35/33/32/29 | 40/38/36/33 | 44/41/38/34 | 46/42/39/35 | 47/43/40/36 |
| | Outdoor(Cooling/Heating) | High | | 51/50 | 55/56 | 53/55 | 54/55 | 55/55 | 55/57 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 47/47 | 49/49 | 54/54 | 58/58 | 60/60 | 61/61 |
| | Outdoor(Cooling/Heating) | High | | 64/62 | 68/68 | 67/69 | 68/70 | 68/68 | 69/71 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 1,050/1,900 | 1,150/2,460 | 1,600/3,600 | 1,900/3,800 | 2,000/6,750 | 2,100/6,750 |
| | Indoor / Outdoor (Heating) | High | | 1,050/1,700 | 1,150/2,360 | 1,600/3,600 | 1,900/3,800 | 2,000/6,200 | 2,100/6,850 |
| Net Dimensions H x W x D | Indoor | | mm | 246×840×840 | 246×840×840 | 288×840×840 | 288×840×840 | 288×840×840 | 288×840×840 |
| | Outdoor | | mm | 620×790×290 | 620×790×290 | 830×900×330 | 830×900×330 | 1290×900×330 | 1290×900×330 |
| Weight | Indoor | | kg(lbs) | 24 (53) | 24 (53) | 26 (57) | 26 (57) | 29 (64) | 29 (64) |
| | Outdoor | | kg(lbs) | 41 (90) | 41 (90) | 61 (134) | 61 (134) | 86 (189) | 86 (189) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/12.7 | 6.35/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 |
| Drain hose Diameter (I.D./O.D.) | | | | 25/32 | 25/32 | 25/32 | 25/32 | 25/32 | 25/32 |
| Max Pipe Length (Pre-Charge) | | | m | 30 (15) | 30 (15) | 50 (20) | 50 (20) | 50 (20) | 50 (20) |
| Max Height Difference | | | | 20 | 20 | 30 | 30 | 30 | 30 |
| Operation Range | Cooling | | °CDB | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg(CO2eq-T) | | 1.80 (3.8) | 1.80 (3.8) | 2.10 (4.4) | 2.10 (4.4) | 3.35 (7.0) | 3.35 (7.0) |
| Cassette Grille | Variation | | | UTG-UKYA-W: White Color with touch panel wired remote controller<br>UTG-UKYC-W: White Color / UTG-UKYA-B*1: Black Color | | | | | |
| | Dimensions (H × W × D) | mm | | 53×950×950 | 53×950×950 | 53×950×950 | 53×950×950 | 53×950×950 | 53×950×950 |
| | Weight | kg(lbs) | | 6.0 (13) | 6.0 (13) | 6.0 (13) | 6.0 (13) | 6.0 (13) | 6.0 (13) |

*1: IR Receiver kit and human sensor kit cannot be connected.

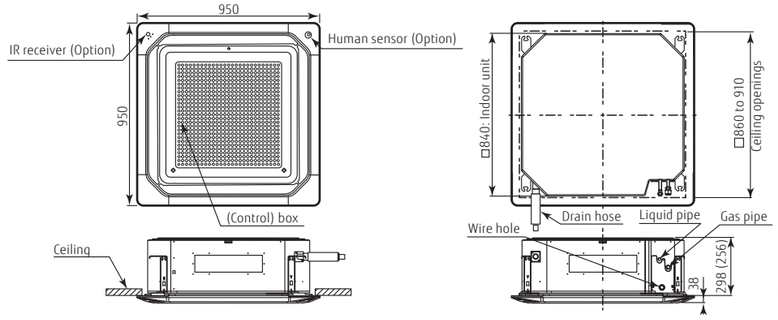
## Optional parts

| | | | |
|---|---|---|---|
| Wired Remote Controller: | UTY-RNRYZ3, UTY-RVNYM, UTY-RLRY, UTY-RNNYM | Air Outlet Shutter Plate: | UTR-YDZK |
| Simple Remote Controller: | UTY-RSNYM, UTY-RSRY, UTY-RHRY | Insulation Kit For High Humidity: | UTZ-KXRA |
| IR Receiver Kit: | UTY-LBTYC | Flesh Air Intake Kit: | UTZ-VXRA |
| Human Sensor Kit: | UTY-SHZXC | External input and output PCB (with box): | UTY-XCSX + UTZ-GXRA |
| Wide Panel: | UTG-AKXA-W | External connect kit: | UTY-XWZXZG |
| Panel Spacer: | UTG-BKXA-W | Cassette Grille : | UTG-UKYA-W, UTG-UKYA-B, UTG-UKYC-W |
| | | Wireless LAN Interface: | UTY-TFNXZ1 |




## Dimensions

(Unit : mm)




( ): AUXG18/24LRLB

# Cassette

## 4-way Flow

Comfort for large room



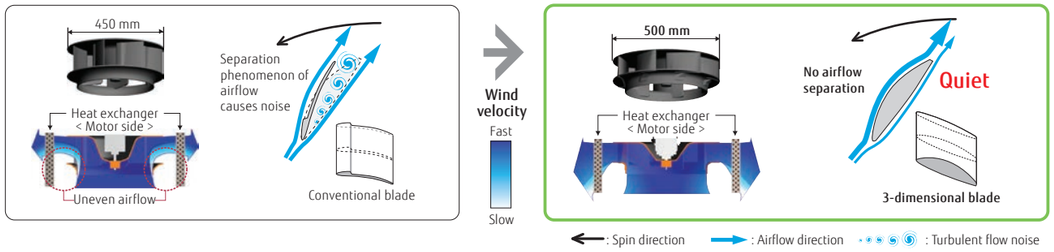
ALL DC i-PAM
Single phase

Economy | Auto Changeover | Up/Down | Adjust | Restart | Duct | Distributing | +Setback | Filter | Drain Pump | Blue Fin
(45/54)

## High efficiency turbo fan with 3-dimensional blade

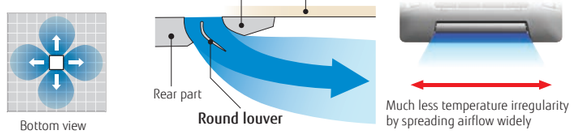
Previous turbo fan: Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.

New turbo fan: High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.



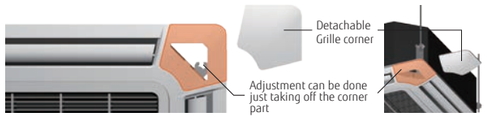

## Improvement of the airflow distribution

The louver design distributes air leaving a space between the chassis and the ceiling allowing far and wide airflow distribution.

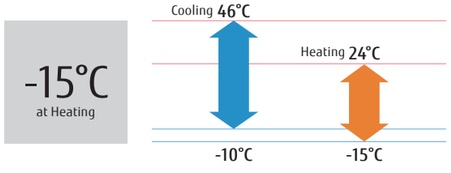



## Adjustment of hanger position is possible after installation

Hanging bracket can be checked directly by removing the corner cover. Hanging position can be arranged easily.




## Low ambient operation








**Model : AUYG30LRLE / AUYG36LRLE / AUYG45LRLA / AUYG54LRLA / AUYG36LRLA [3 phase] / AUYG45LRLA [3 phase] / AUYG54LRLA [3 phase]**





Wired R.C.



For AUYG30/36LRLE



For AUYG45LRLA (Single -phase)



For AUYG36/45/54LRLA

### Specifications

| Model No. | | | | AUYG30LRLE | AUYG36LRLE | AUYG45LRLA | AUYG45LRLA | AUYG54LRLA | AUYG36LRLA | AUYG45LRLA | AUYG54LRLA |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Indoor unit | | | AUYG30LETL | AUYG36LETL | AUYG45LBTC | AOYG45LETL | AUYG54LETL | AUYG36LATT | AUYG45LATT | AUYG54LATT |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | | | 3-phase, ~400V, 50Hz | | |
| Capacity | Cooling | | kW | 8.5 (2.8-10.0) | 10.0 (2.8-11.2) | 12.1 (4.0-13.5) | 12.5 (4.0-14.0) | 13.3 (4.5-14.5) | 10.0 (4.7-11.4) | 12.5 (5.0-14.0) | 14.0 (5.4-16.0) |
| | Heating | | | 10.0 (2.7-11.2) | 11.2 (2.7-12.7) | 13.5 (4.2-15.7) | 14.0 (4.2-16.2) | 16.0 (4.7-16.5) | 11.2 (5.0-14.0) | 14.0 (5.4-16.2) | 16.0 (5.8-18.0) |
| Input Power | Cooling/Heating | | kW | 2.65/2.77 | 3.12/3.02 | 3.89/3.85 | 3.88/3.77 | 4.42/4.69 | 2.44/2.56 | 3.54/3.58 | 4.36/4.43 |
| EER | Cooling | | W/W | 3.21 | 3.21 | 3.11 | 3.22 | 3.01 | 4.10 | 3.53 | 3.21 |
| COP | Heating | | | 3.61 | 3.71 | 3.51 | 3.71 | 3.41 | 4.38 | 3.91 | 3.61 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 8.5/8.0 | 10.0/8.7 | - | - | - | 10.0/10.0 | - | - |
| SEER | Cooling | | W/W | 6.50 | 6.30 | - | - | - | 6.50 | - | - |
| SCOP | Heating (Average) | | | 4.30 | 4.20 | - | - | - | 4.30 | - | - |
| Energy Efficiency Class | Cooling | | | A++ | A++ | - | - | - | A++ | - | - |
| | Heating (Average) | | | A+ | A+ | - | - | - | A+ | - | - |
| Max. Operating Current | Cooling/Heating | | A | 17.0/17.0 | 18.5/20.0 | 23.5/23.5 | 20.5/20.5 | 21.5/21.5 | 7.9/7.9 | 8.9/8.9 | 9.9/9.9 |
| Annual Energy Consumption | Cooling | | kWh/a | 458 | 555 | - | - | - | 538 | - | - |
| | Heating | | | 2,604 | 2,897 | - | - | - | 3,253 | - | - |
| Moisture Removal | | | l/h | 2.5 | 3.5 | 4.5 | 4.5 | 5.0 | 3.0 | 4.5 | 5.0 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 40/38/36/32 | 43/38/36/32 | 46/42/40/36 | 46/42/40/36 | 47/43/41/37 | 44/39/36/33 | 46/42/40/36 | 47/43/41/37 |
| | Indoor (Heating) | H/M/L/Q | | 40/38/36/32 | 43/38/36/32 | 46/42/40/36 | 46/42/40/36 | 47/43/41/37 | 44/39/36/33 | 46/42/40/36 | 47/43/41/37 |
| | Outdoor(Cooling/Heating) | High | | 53/55 | 54/55 | 58/58 | 55/55 | 55/57 | 51/53 | 54/54 | 55/56 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 54/54 | 57/57 | - | - | - | 58/58 | - | - |
| | Outdoor(Cooling/Heating) | High | | 68/69 | 69/70 | - | - | - | 67/69 | - | - |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 1,600/3,600 | 1,800/3,800 | 1,900/4,650 | 1,900/6,750 | 2,000/6,750 | 1,800/6,200 | 1,900/6,750 | 2,000/6,900 |
| | Indoor / Outdoor (Heating) | High | | 1,600/3,600 | 1,800/3,800 | 1,900/4,650 | 1,900/6,200 | 2,000/6,850 | 1,800/6,200 | 1,900/6,200 | 2,000/6,900 |
| Net Dimensions H x W x D | Indoor | | mm | 288x840x840 | 288x840x840 | 288x840x840 | 288x840x840 | 288x840x840 | 288x840x840 | 288x840x840 | 288x840x840 |
| | Outdoor | | mm | 830×900×330 | 830×900×330 | 914×970×370 | 1,290×900×330 | 1,290×900×330 | 1,290×900×330 | 1,290×900×330 | 1,290×900×330 |
| Weight | Indoor | | kg(lbs) | 26 (57) | 26 (57) | 26 (57) | 26 (57) | 26 (57) | 26 (57) | 26 (57) | 26 (57) |
| | Outdoor | | kg(lbs) | 61 (135) | 61 (135) | 75 (165) | 86 (190) | 86 (190) | 104 (229) | 104 (229) | 104 (229) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 |
| Drain hose Diameter (I.D./O.D.) | | | | 25.0/32.0 | 25.0/32.0 | 25.0/32.0 | 25.0/32.0 | 25.0/32.0 | 25.0/32.0 | 25.0/32.0 | 25.0/32.0 |
| Max Pipe Length (Pre-Charge) | | | m | 50 (20) | 50 (20) | 50 (20) | 50 (20) | 50 (20) | 75 (30) | 75 (30) | 75 (30) |
| Max Height Difference | | | | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Operation Range | Cooling | | °CDB | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | | kg(CO2eq-T) | 2.10 (4.4) | 2.10 (4.4) | 2.90 (6.1) | 3.35 (7.0) | 3.35 (7.0) | 3.45 (7.2) | 3.45 (7.2) | 3.45 (7.2) |
| Cassette Grille | Model name | | | UTG-UGYA-W | UTG-UGYA-W | UTG-UGYA-W | UTG-UGYA-W | UTG-UGYA-W | UTG-UGYA-W | UTG-UGYA-W | UTG-UGYA-W |
| | Dimensions (H × W × D) | | mm | 50×950×950 | 50×950×950 | 50×950×950 | 50×950×950 | 50×950×950 | 50×950×950 | 50×950×950 | 50×950×950 |
| | Weight | | kg(lbs) | 5.5 (12) | 5.5 (12) | 5.5 (12) | 5.5 (12) | 5.5 (12) | 5.5 (12) | 5.5 (12) | 5.5 (12) |

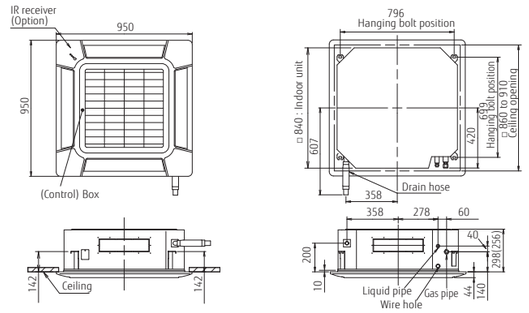
### Optional parts

| | | | |
|---|---|---|---|
| Wired Remote Controller: | UTY-RNNYM, UTY-RVNYM | Insulation Kit For High Humidity: | UTZ-KXRA |
| Simple Remote Controller: | UTY-RSNYM | Fresh Air Intake Kit: | UTZ-VXRA |
| IR Receiver Kit: | UTY-LRHYA2 | Wireless LAN Interface: | UTY-TFNXZ1 |
| Wide Panel: | UTG-AKXA-W | External Connect Kit: | UTY-XWZX |
| Panel Spacer: | UTG-BKXA-W | Cassette Grille: | UTG-UGYA-W |
| Air Outlet Shutter Plate: | UTR-YDZK | | |




### Dimensions

(Unit : mm)



# Mini Duct

## Built-in Drain Pump

REFRIGERANT R410A

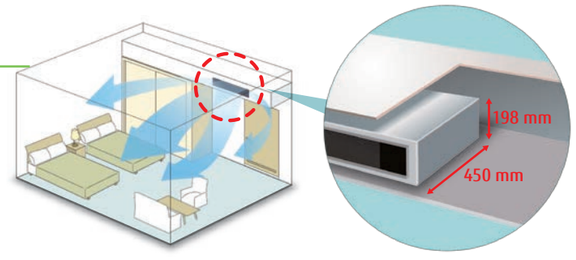


ALL DC

Economy | Set Temp. | Return | Auto Changeover | Adjust | Restart | Auto OFF | Weekly | Filter | On/Off | Drain Pump

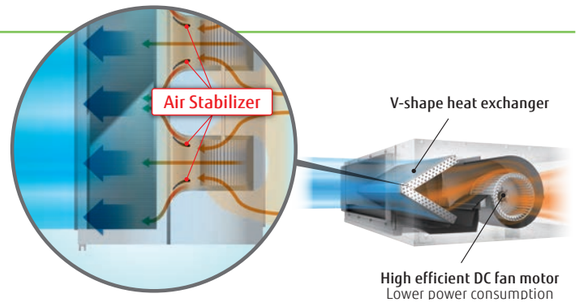
## Large living space available

- Installation space can be reduced down to minimum depth 450 mm height 198 mm and compact design
- Minimum size: Depth 450 mm, Height 198 mm Volume 27% down compared with current model
- Lightweight: 15.5 kg 18% down (12/14 models)




## Optimum airflow path and low noise operation

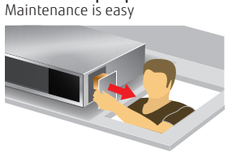
Low noise is realized drastically by stabilized airflow design




## Easy design and maintenance for drain

By using the DC fan motor, it is possible to change the static pressure range from 0 to 50 Pa*.
The change of static pressure range is possible by remote controller.
*12 model: 0 to 30 Pa.

**Built-in drain pump as standard:**
Maintenance is easy



Parts can be replaced from the side of the body where maintenance is easier

## Auto Louver Grille Kit (Option)

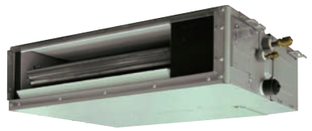
- Thin design provides a comfortable living environment over a wide area.
- Automatic louver grille provides comfortable air conditioning all the way down to the floor and matches the interior design well. (Optional)







**Model : ARYG12LSLAP / ARYG14LSLAP / ARYG18LSLAP**



ARYG12/14LSLAP



ARYG18LSLAP



Wired R.C.



For ARYG12/14LSLAP



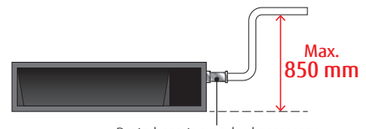
For ARYG18LSLAP

## Specifications

| Model No. | Indoor unit | | | ARYG12LSLAP | ARYG14LSLAP | ARYG18LSLAP |
|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG12LALL | AOYG14LALL | AOYG18LBCB |
| Power Source | | | | Single-phase, ~230V, 50Hz | | |
| Capacity | Cooling | | kW | 3.5 (0.9-4.4) | 4.3 (0.9-5.4) | 5.2 (0.9-5.9) |
| | Heating | | | 4.1 (0.9-5.7) | 5.0 (0.9-6.5) | 6.0 (0.9-7.5) |
| Input Power | Cooling/Heating | | kW | 1.03/1.15 | 1.34/1.49 | 1.62/1.77 |
| EER | Cooling | | W/W | 3.40 | 3.21 | 3.21 |
| COP | Heating | | | 3.56 | 3.35 | 3.38 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 3.5/4.2 | 4.3/4.5 | 5.2/5.2 |
| SEER | Cooling | | W/W | 5.70 | 5.60 | 5.80 |
| SCOP | Heating | | | 3.90 | 3.80 | 3.80 |
| Energy Efficiency Class | Cooling | | | A+ | A+ | A+ |
| | Heating | | | A | A | A |
| Max. Operating Current | Cooling/Heating | | A | 7.5/10.0 | 9.0/12.5 | 11.5/13.5 |
| Annual Energy Consumption | Cooling | | kWh/a | 215 | 269 | 314 |
| | Heating | | | 1,505 | 1,656 | 1,913 |
| Moisture Removal | | | l/h | 1.2 | 1.4 | 1.8 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 31/27/25/23 | 35/30/27/23 | 33/29/26/23 |
| | Indoor (Heating) | H/M/L/Q | | 31/27/25/23 | 35/30/27/23 | 33/29/26/23 |
| | Outdoor(Cooling/Heating) | High | | 47/48 | 49/49 | 50/50 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 55/57 | 60/62 | 58/59 |
| | Outdoor(Cooling/Heating) | High | | 61/63 | 62/64 | 62/65 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 650/1,780 | 800/1,910 | 940/2,000 |
| | Indoor / Outdoor (Heating) | High | | 650/1,630 | 800/1,740 | 940/1,910 |
| Static pressure range (Standard) | | | Pa | 0 to 30 (10) | 0 to 50 (15) | 0 to 50 (15) |
| Net Dimensions H x W x D | Indoor | | mm | 198×700×450 | 198×700×450 | 198×900×450 |
| | Outdoor | | mm | 578×790×300 | 578×790×300 | 632×799×290 |
| Weight | Indoor | | kg(lbs) | 15.5 (34) | 15.5 (34) | 18.5 (41) |
| | Outdoor | | kg(lbs) | 40 (88) | 40 (88) | 36 (79) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/9.52 | 6.35/12.70 | 6.35/12.70 |
| Drain hose Diameter (I.D./O.D.) | | | | 25/32 | 25/32 | 25/32 |
| Max Pipe Length (Pre-Charge) | | | m | 25 (15) | 25 (15) | 25 (15) |
| Max Height Difference | | | | 15 | 15 | 15 |
| Operation Range | Cooling | | °CDB | -10 to 46 | -10 to 46 | -10 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | | kg(CO2eq-T) | 1.15 (2.4) | 1.25 (2.6) | 1.20 (2.5) |

## Optional parts

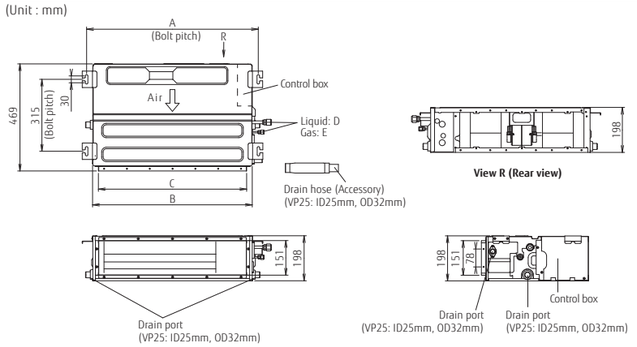
Wired Remote Controller: UTY-RLRY, UTY-RNRYZ3, UTY-RVNYM, UTY-RNNYM
Simple Remote Controller: UTY-RSNYM, UTY-RSRY, UTY-RHRY
IR Receiver Kit: UTY-LBTYM
Remote Sensor Unit: UTY-XSZX
Auto Louver Grille Kit: UTD-GXTA-W (ARYG12/14LSLAP) UTD-GXTB-W (ARYG18LSLAP)
External connect kit: UTY-XWZXZG
Wireless LAN Interface: UTY-TFNXZ1




Drain hose is standard accessory

## Dimensions

(Unit : mm)




| | ARYG12/14LSLAP | ARYG18LSLAP |
|---|---|---|
| A | 752 | 952 |
| B | 700 | 900 |
| C | 650 | 850 |
| D | 6.35 | 9.52 |
| E | 12.70 | 15.88 |

NEW

# Slim Duct

Slim & Comfort

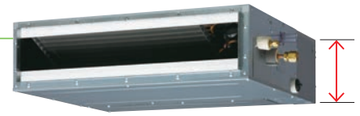


ALL DC V V-PAM

Economy · Auto Changeover · Adjust · Restart · +Setback · Filter · Drain Pump

## Slim design

The slim design allows installations where ceilings are narrow.
Drain hose as standard accessory



Height
198 mm
**Drain pump built-in**

## Compact and lightweight outdoor unit

Compact and lightweight outdoor unit expands a wider range of choice for installation location. This makes it easier to use this outdoor unit.




## Selectable with a wide range of static pressure

By using the DC fan motor, it is possible to change the static pressure range from 0 to 90 Pa.
The change of static pressure range is possible by remote controller.



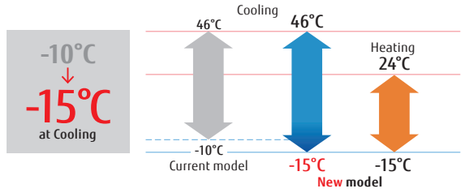
Static pressure range
0 to 90 Pa

## Auto Louver Grille Kit (Option)

Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.



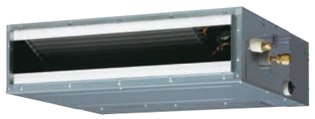
## Low ambient operation



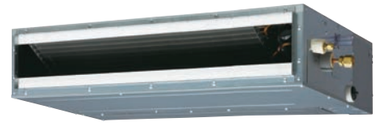





**Model : ARXG09KLLAP / ARXG12KLLAP / ARXG14KLLAP / ARXG18KLLAP**



ARXG09/12/14KLLAP



ARXG18KLLAP



For ARXG09/12/14KLLAP



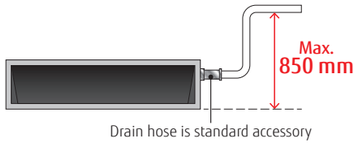
For ARXG18KLLAP

## Specifications

| Model No. | Indoor unit | | | ARXG09KLLAP | ARXG12KLLAP | ARXG14KLLAP | ARXG18KLLAP |
|---|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG09KBTB | AOYG12KBTB | AOYG14KBTB | AOYG18KBTB |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | |
| Capacity | Cooling | | kW | 2.5 (0.9-3.2) | 3.5 (0.9-4.4) | 4.3 (0.9-5.4) | 5.2 (0.9-5.9) |
| | Heating | | | 3.2 (0.9-4.7) | 4.1 (0.9-5.7) | 5.0 (0.9-6.5) | 6.0 (0.9-7.5) |
| Input Power | Cooling/Heating | | kW | 0.60/0.79 | 0.93/1.08 | 1.28/1.32 | 1.55/1.62 |
| EER | Cooling | | W/W | 4.17 | 3.76 | 3.36 | 3.35 |
| COP | Heating | | | 4.05 | 3.80 | 3.79 | 3.70 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 2.5/2.6 | 3.5/3.4 | 4.3/3.8 | 5.2/4.4 |
| SEER | Cooling | | W/W | 6.20 | 6.10 | 5.80 | 6.20 |
| SCOP | Heating | | | 4.30 | 4.00 | 3.90 | 4.10 |
| Energy Efficiency Class | Cooling | | | A++ | A++ | A+ | A++ |
| | Heating | | | A+ | A+ | A | A+ |
| Max. Operating Current | Cooling/Heating | | A | 7.9 | 9.7 | 10.2 | 12.1 |
| Annual Energy Consumption | Cooling | | kWh/a | 141 | 201 | 259 | 293 |
| | Heating | | | 845 | 1,189 | 1,362 | 1,501 |
| Moisture Removal | | | l/h | 0.7 | 1.3 | 1.5 | 2.0 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 28/27/26/25 | 29/28/26/25 | 32/30/28/26 | 32/30/29/27 |
| | Indoor (Heating) | H/M/L/Q | | 28/26/25/24 | 29/28/26/24 | 32/30/28/25 | 32/30/29/27 |
| | Outdoor(Cooling/Heating) | High | | 46/46 | 47/47 | 49/49 | 50/50 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 57/57 | 58/58 | 60/60 | 58/58 |
| | Outdoor(Cooling/Heating) | High | | 59/59 | 61/61 | 62/62 | 62/62 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 600/1,480 | 650/1,580 | 800/1,670 | 940/2,160 |
| | Indoor / Outdoor (Heating) | High | | 600/1,410 | 650/1,520 | 800/1,580 | 940/1,830 |
| Static pressure range (Standard) | | | Pa | 0 to 90 (25) | 0 to 90 (25) | 0 to 90 (25) | 0 to 90 (25) |
| Net Dimensions H x W x D | Indoor | | mm | 198x700x620 | 198x700x620 | 198x700x620 | 198x900x620 |
| | Outdoor | | mm | 542x799x290 | 542x799x290 | 542x799x290 | 632x799x290 |
| Weight | Indoor | | kg(lbs) | 17 (37) | 17 (37) | 17 (37) | 20 (44) |
| | Outdoor | | kg(lbs) | 32 (71) | 33 (73) | 33 (73) | 36 (79) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/9.53 | 6.35/9.53 | 6.35/9.53 | 6.35/12.70 |
| Drain hose Diameter (I.D./O.D.) | | | | 25/32 | 25/32 | 25/32 | 25/32 |
| Max Pipe Length (Pre-Charge) | | | m | 20 (15) | 25 (15) | 25 (15) | 30 (20) |
| Max Height Difference | | | | 15 | 20 | 20 | 20 |
| Operation Range | Cooling | | °CDB | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R32 (675) | R32 (675) | R32 (675) | R32 (675) |
| | Charge | | kg(CO2eq-T) | 0.85 (0.574) | 0.85 (0.574) | 0.85 (0.574) | 1.02 (0.689) |

## Optional parts

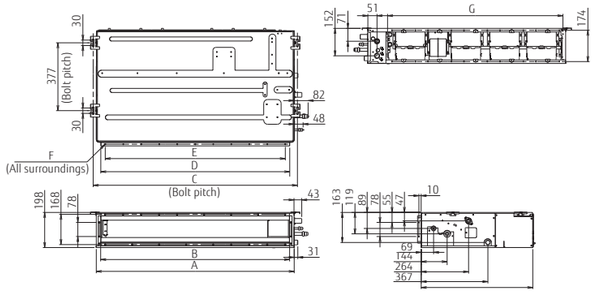
Wired Remote Controller: UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM, UTY-RNNYM
Simple Remote Controller: UTY-RSRY, UTY-RHRY, UTY-RSNYM
IR Receiver Kit: UTY-LBTYM
Wireless LAN Interface: UTY-TFSXZ1
Remote Sensor Unit: UTY-XSZX
Auto Louver Grille Kit: UTD-GXTA-W (ARXG12/14KLLAP), UTD-GXTB-W (ARXG18KLLAP)
External Connect Kit: UTY-XWZXZG




Drain hose is standard accessory

## Dimensions

(Unit : mm)




| | ARXG09/12/14KLLAP | ARXG18KLLAP |
|---|---|---|
| A | 700 | 900 |
| B | 650 | 850 |
| C | 734 | 934 |
| D | 650 | 850 |
| E | P100x6=600 | P100x8=800 |
| F | 18xØ5 | 22xØ5 |
| G | 574 | 774 |

# Slim Duct

Slim & Comfort

REFRIGERANT R410A

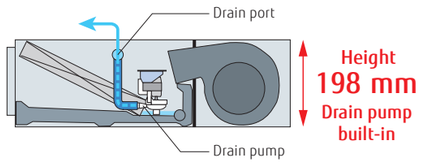


ALL DC V V-PAM

Economy · Auto Changeover · Adjust · Restart · +Setback · Filter · Drain Pump

## Slim design

The slim design allows installations where ceilings are narrow.
Drain hose as standard accessory




## Flexible installation

2-type installation methods of ceiling concealed and floor concealed can be selected.

Ceiling concealed



Floor concealed



## Selectable with a wide range of static pressure

By using the DC fan motor, it is possible to change the static pressure range from 0 to 90 Pa.
The change of static pressure range is possible by remote controller.

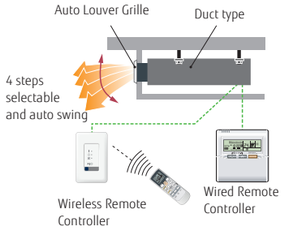


Static pressure range
0 to 90 Pa

## Auto Louver Grille Kit (Option)

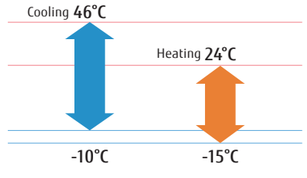
Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.






## Low ambient operation

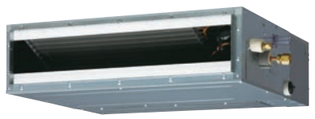
-15°C
at Heating



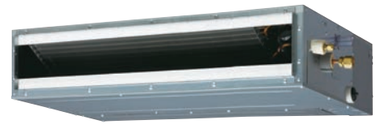





**Model : ARYG12LLTB / ARYG14LLTB / ARYG18LLTB**



ARYG12/14LLTB



ARYG18LLTB



Wired R.C.



For ARYG12/14LLTB



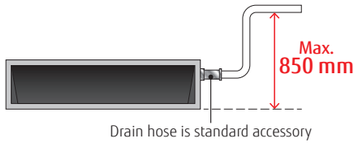
For ARYG18LLTB

## Specifications

| Model No. | Indoor unit | | | ARYG12LLTB | ARYG14LLTB | ARYG18LLTB |
|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG12LALL | AOYG14LALL | AOYG18LBCB |
| Power Source | | | | Single-phase, ~230V, 50Hz | | |
| Capacity | Cooling | | kW | 3.5 (0.9-4.4) | 4.3 (0.9-5.4) | 5.2 (0.9-5.9) |
| | Heating | | kW | 4.1 (0.9-5.7) | 5.0 (0.9-6.5) | 6.0 (0.9-7.5) |
| Input Power | Cooling/Heating | | kW | 1.05/1.11 | 1.33/1.34 | 1.62/1.66 |
| EER | Cooling | | W/W | 3.33 | 3.21 | 3.21 |
| COP | Heating | | W/W | 3.69 | 3.71 | 3.61 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 3.5/4.2 | 4.3/4.5 | 5.2/5.2 |
| SEER | Cooling | | W/W | 5.90 | 5.80 | 6.20 |
| SCOP | Heating | | W/W | 4.00 | 3.90 | 4.10 |
| Energy Efficiency Class | Cooling | | | A+ | A+ | A++ |
| | Heating | | | A+ | A | A+ |
| Max. Operating Current | Cooling/Heating | | A | 7.5/10.0 | 9.0/12.5 | 11.5/13.5 |
| Annual Energy Consumption | Cooling | | kWh/a | 207 | 259 | 294 |
| | Heating | | kWh/a | 1,467 | 1,614 | 1,775 |
| Moisture Removal | | | l/h | 1.3 | 1.5 | 2.0 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 29/28/26/25 | 32/30/28/26 | 32/30/29/27 |
| | Indoor (Heating) | H/M/L/Q | dB(A) | 29/28/26/24 | 32/30/28/25 | 32/30/29/27 |
| | Outdoor(Cooling/Heating) | High | dB(A) | 47/48 | 49/49 | 50/50 |
| Sound Power Level | Indoor(Cooling/Heating) | High | dB(A) | 58/58 | 60/60 | 58/58 |
| | Outdoor(Cooling/Heating) | High | dB(A) | 61/63 | 62/64 | 62/65 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 650/1,780 | 800/1,910 | 940/2,380 |
| | Indoor / Outdoor (Heating) | High | $m^3/h$ | 650/1,630 | 800/1,740 | 940/2,080 |
| Static pressure range (Standard) | | | Pa | 0 to 90 (25) | 0 to 90 (25) | 0 to 90 (25) |
| Net Dimensions H x W x D | Indoor | | mm | 198×700×620 | 198×700×620 | 198×900×620 |
| | Outdoor | | mm | 578×790×300 | 578×790×300 | 632×799×290 |
| Weight | Indoor | | kg(lbs) | 19 (42) | 19 (42) | 23 (51) |
| | Outdoor | | kg(lbs) | 40 (88) | 40 (88) | 36 (79) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/9.52 | 6.35/12.70 | 6.35/12.70 |
| Drain hose Diameter (I.D./O.D.) | | | mm | 25/32 | 25/32 | 25/32 |
| Max Pipe Length (Pre-Charge) | | | m | 25 (15) | 25 (15) | 25 (15) |
| Max Height Difference | | | m | 15 | 15 | 15 |
| Operation Range | Cooling | | °CDB | -10 to 46 | -10 to 46 | -10 to 46 |
| | Heating | | °CDB | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | | kg(CO2eq-T) | 1.15 (2.4) | 1.25 (2.6) | 1.20 (2.5) |

## Optional parts

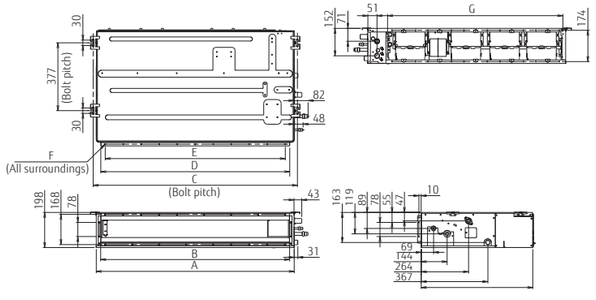
Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
Simple Remote Controller: UTY-RSNYM
IR Receiver Kit: UTY-LRHYM
Remote Sensor Unit: UTY-XSZX
Auto Louver Grille Kit: UTD-GXTA-W (ARYG12 / 14LLTB)
UTD-GXTB-W (ARYG18LLTB)
External connect kit: UTD-ECS5A
Wireless LAN Interface: UTY-TFNXZ1




Drain hose is standard accessory

## Dimensions

(Unit : mm)




| | ARYG12 / 14LLTB | ARYG18LLTB |
|---|---|---|
| A | 700 | 900 |
| B | 650 | 850 |
| C | 734 | 934 |
| D | 650 | 850 |
| E | P100x6=600 | P100x8=800 |
| F | 18xØ5 | 22xØ5 |
| G | 574 | 774 |

NEW

# Medium Static Pressure Duct

Compact & Comfort

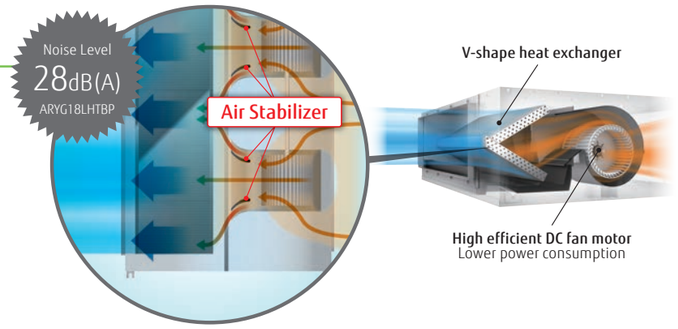


ALL DC (30/36/45/54) i-PAM V-PAM (12/14/18/24)

Economy · Set Temp. · Return · Auto Changeover · Adjust · Restart · Duct · Auto OFF · Weekly · Filter · On/Off · Adjust · Drain Pump · Blue Fin (30/36/45/54)

## High Efficiency & Quiet operation

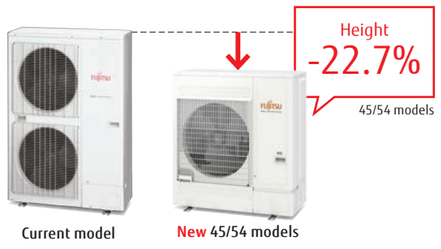
The combination of the V-shaped heat exchanger, air stabilizer, and the high efficient DC fan motor allowed high efficiency and quiet operation.




## Small and light weight outdoor unit

This model is much more compact than conventional outdoor unit. It can be installed in a narrow place.



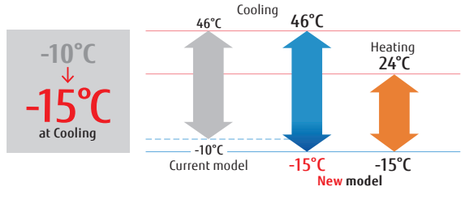




## Automatic Airflow adjustment function

This unique and innovative function detects required air flow in each application case and automatically adjust the volume.



## Low ambient operation








**Model: ARXG12KHTAP / ARXG14KHTAP / ARXG18KHTAP / ARXG22KHTAP / ARXG24KHTAP**
**ARXG30KHTAP / ARXG36KHTAP / ARXG45KHTAP / ARXG54KHTAP**



ARXG12/14KHTAP · ARXG18/22/24/30KHTAP · ARXG36/45/54KHTAP



For ARXG12/14KHTAP · For ARXG18/22KHTAP · For ARXG24KHTAP · For ARXG30/36KHTAP · For ARXG45/54KHTAP

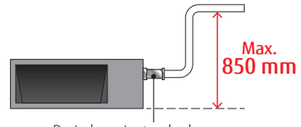
## Specifications

| Model No. | Indoor unit | | | ARXG12KHTAP | ARXG14KHTAP | ARXG18KHTAP | ARXG22KHTAP | ARXG24KHTAP | ARXG30KHTAP | ARXG36KHTAP | ARXG45KHTAP | ARXG54KHTAP |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG12KBTB | AOYG14KBTB | AOYG18KBTB | AOYG22KBTB | AOYG24KBTB | AOYG30KBTB | AOYG36KBTB | AOYG45KBTB | AOYG54KBTB |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | | | | | | |
| Capacity | Cooling | | kW | 3.5 (0.9-4.4) | 4.3 (0.9-5.4) | 5.2 (0.9-5.9) | 6.0 (0.9-6.7) | 6.8 (0.9-8.0) | 8.5 (2.8-10.0) | 9.5 (2.8-11.2) | 12.1 (4.0-14.0) | 13.4 (4.5-14.5) |
| | Heating | | | 4.1 (0.9-5.7) | 5.0 (0.9-6.5) | 6.0 (0.9-7.5) | 7.0 (0.9-8.0) | 7.5 (0.9-9.1) | 10.0 (2.7-11.2) | 10.8 (2.7-12.7) | 13.5 (4.2-16.2) | 15.5 (4.7-16.5) |
| Input Power | Cooling/Heating | | kW | 0.87/1.00 | 1.17/1.25 | 1.36/1.56 | 1.71/1.81 | 1.89/1.85 | 2.65/2.63 | 2.86/2.48 | 3.53/3.37 | 4.42/3.89 |
| EER | Cooling | | W/W | 4.02 | 3.68 | 3.82 | 3.51 | 3.60 | 3.21 | 3.32 | 3.43 | 3.03 |
| COP | Heating | | | 4.10 | 4.00 | 3.85 | 3.87 | 4.06 | 3.80 | 4.35 | 4.01 | 3.98 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 3.5/3.4 | 4.3/3.8 | 5.2/4.4 | 6.0/4.8 | 6.8/6.0 | 8.5/8.0 | 9.5/8.7 | - | - |
| SEER | Cooling | | W/W | 6.30 | 6.20 | 6.50 | 6.50 | 6.50 | 6.23 | 6.10 | - | - |
| SCOP | Heating (Average) | | | 4.10 | 4.00 | 4.10 | 4.20 | 4.10 | 4.00 | 4.20 | - | - |
| Energy Efficiency Class | Cooling | | | A++ | A++ | A++ | A++ | A++ | A++ | A++ | - | - |
| | Heating (Average) | | | A+ | A+ | A+ | A+ | A+ | A+ | A+ | - | - |
| Max. Operating Current | Cooling/Heating | | A | 9.7 | 10.2 | 12.1 | 12.6 | 13.6 | 22.6 | 22.6 | 28.5 | 28.5 |
| Annual Energy Consumption | Cooling | | kWh/a | 194 | 243 | 280 | 323 | 366 | 477 | 544 | - | - |
| | Heating | | | 1,159 | 1,328 | 1,501 | 1,597 | 2,048 | 2,796 | 2,898 | - | - |
| Moisture Removal | | | l/h | 0.7 | 0.9 | 1.2 | 1.5 | 1.8 | 2.3 | 2.0 | 2.6 | 3.7 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 32/27/26/24 | 33/28/27/25 | 28/25/22/20 | 28/25/22/20 | 32/28/24/21 | 36/33/30/29 | 36/31/28/26 | 39/35/31/29 | 39/35/31/29 |
| | Indoor (Heating) | H/M/L/Q | | 32/27/26/24 | 33/28/27/25 | 28/25/22/20 | 28/25/22/20 | 32/28/24/21 | 36/33/30/29 | 33/31/28/26 | 39/35/31/29 | 39/35/31/29 |
| | Outdoor(Cooling/Heating) | High | | 47/47 | 49/49 | 50/50 | 51/51 | 53/54 | 53/55 | 55/55 | 57/57 | 57/59 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 57/58 | 59/60 | 54/54 | 57/57 | 57/57 | 63/65 | 64/63 | 67/69 | 67/69 |
| | Outdoor(Cooling/Heating) | High | | 61/61 | 62/62 | 62/62 | 63/63 | 65/66 | 68/69 | 70/70 | 71/71 | 73/73 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 850/1,580 | 950/1,670 | 1,050/2,160 | 1,050/2,240 | 1,360/2,700 | 1,700/3,750 | 2,050/3,750 | 2,550/4,450 | 2,550/4,450 |
| | Indoor / Outdoor (Heating) | High | | 850/1,520 | 950/1,580 | 1,050/1,830 | 1,050/1,960 | 1,360/2,700 | 1,700/3,750 | 2,050/3,750 | 2,550/4,450 | 2,550/4,450 |
| Static pressure range (Standard) | | | Pa | 30 to 200 (35) | 30 to 200 (35) | 30 to 200 (35) | 30 to 200 (35) | 30 to 200 (35) | 30 to 200 (47) | 30 to 200 (47) | 30 to 200 (60) | 30 to 200 (60) |
| Net Dimensions H x W x D | Indoor | | mm | 300x700x700 | 300x700x700 | 300x1,000x700 | 300x1,000x700 | 300x1,000x700 | 300x1,000x700 | 300x1,400x700 | 300x1,400x700 | 300x1,400x700 |
| | Outdoor | | mm | 542x799x290 | 542x799x290 | 632x799x290 | 632x799x290 | 716x820x315 | 788x940x320 | 788x940x320 | 998x940x320 | 998x940x320 |
| Weight | Indoor | | kg(lbs) | 27 (60) | 27 (60) | 35 (77) | 35 (77) | 36 (79) | 36 (79) | 46 (101) | 46 (101) | 46 (101) |
| | Outdoor | | kg(lbs) | 33 (73) | 33 (73) | 36 (79) | 38 (84) | 42 (93) | 52 (115) | 52 (115) | 67 (148) | 67 (148) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/9.53 | 6.35/9.53 | 6.35/12.70 | 6.35/12.70 | 6.35/12.70 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 |
| Drain hose Diameter (I.D./O.D.) | | | | 25/32 | 25/32 | 25/32 | 25/32 | 25/32 | 25/32 | 25/32 | 25/32 | 25/32 |
| Max Pipe Length (Pre-Charge) | | | m | 25 (15) | 25 (15) | 30 (20) | 30 (20) | 30 (20) | 50 (30) | 50 (30) | 50 (30) | 50 (30) |
| Max Height Difference | | | | 20 | 20 | 20 | 25 | 25 | 30 | 30 | 30 | 30 |
| Operation Range | Cooling | | °CDB | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R32 (675) | R32 (675) | R32 (675) | R32 (675) | R32 (675) | R32 (675) | R32 (675) | R32 (675) | R32 (675) |
| | Charge | | kg(CO2eq-T) | 0.85 (0.574) | 0.85 (0.574) | 1.02 (0.689) | 1.25 (0.844) | 1.25(0.844) | 1.90(1.283) | 1.90(1.283) | 2.70(1.823) | 2.70(1.823) |

## Optional parts

Wired Remote Controller: UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM, UTY-RNNYM
Simple Remote Controller: UTY-RSRY, UTY-RHRY, UTY-RSNYM
IR Receiver Kit: UTY-LBTYM
Wireless LAN Interface: UTY-TFSXZ1
Remote Sensor Unit: UTY-XSZX

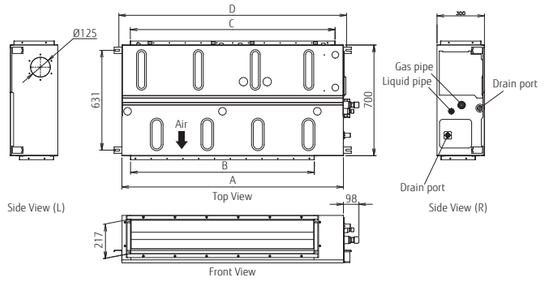
Long Life Filter: UTD-LFNA (ARXG36/45/54KHTAP), UTD-LFNB (ARXG18/24/30KHTAP), UTD-LFNC (ARXG12/14KHTAP)
External Input and Output PCB (with bracket): UTY-XCSX + UTZ-GXNA
External Connect Kit: UTY-XWZXZG
External Input and Output PCB BOX : UTZ-GXRA




Drain hose is standard accessory

## Dimensions

(Unit : mm)




| | ARXG12/14KHTAP | ARXG18/22/24/30KHTAP | ARXG36/45/54KHTAP |
|---|---|---|---|
| A | 700 | 1,000 | 1,400 |
| B | 462 | 762 | 1,162 |
| C | 650 | 895 | 1,295 |
| D | 740 | 1,040 | 1,440 |

# Medium Static Pressure Duct

Compact & Comfort



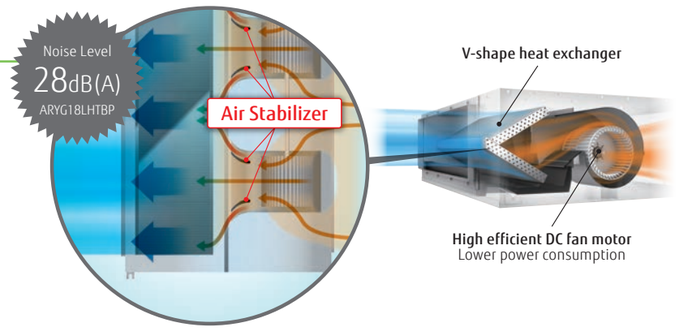
REFRIGERANT R410A

ALL DC | i-PAM (30/36/45/54) | V-PAM (12/14/18/24)

Economy | Set Temp. | Return | Auto Changeover | Adjust | Restart | Duct | Auto OFF | Weekly | Filter | On/Off | Adjust | Drain Pump | Blue Fin (30/36/45/54)

## High Efficiency & Quiet operation

The combination of the V-shaped heat exchanger, air stabilizer, and the high efficient DC fan motor allowed high efficiency and quiet operation.




## Automatic Airflow adjustment function

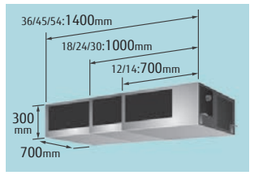
This unique and innovative function detects required air flow in each application case and automatically adjust the volume.

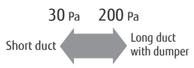


## Improved installation flexibility

- Capable to be installed in various applications that requires static pressure of 30 Pa to 200 Pa*
- Built-in drain pump, rises drain up to 850 mm
- Unified depth throughout the range enables the selection of the capacity regardless of the additional space.

(*: 12/14/18/24/30/36 models)



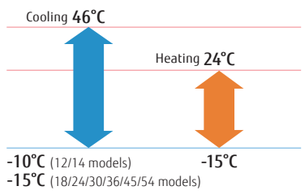




## Improved service and maintenance

- Drain pump is easily detachable from the side
- Easy access to electrical box
- Error code can be checked more in detail from error history

## Low ambient operation

-15°C








REFRIGERANT R410A

**Model: ARYG12LHTBP / ARYG14LHTBP / ARYG18LHTBP / ARYG24LHTBP**
**ARYG30LHTBP / ARYG36LHTBP / ARYG45LHTBP / ARYG54LHTBP**



ARYG12/14LHTBP



ARYG18/24/30LHTBP



ARYG36/45/54LHTBP



Touch Panel Wired R.C.



For ARYG12/14LHTBP



For ARYG18/24LHTBP



For ARYG30/36LHTBP



For ARYG45/54LHTBP

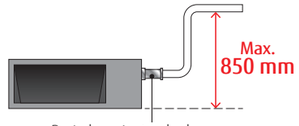
## Specifications

| Model No. | Indoor unit | | | ARYG12LHTBP | ARYG14LHTBP | ARYG18LHTBP | ARYG24LHTBP | ARYG30LHTBP | ARYG36LHTBP | ARYG45LHTBP | ARYG54LHTBP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG12LBLA | AOYG14LBLA | AOYG18LBCA | AOYG24LBCA | AOYG30LBTA | AOYG36LBTA | AOYG45LBTA | AOYG54LBTA |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | | | | | |
| Capacity | Cooling | | kW | 3.5 (0.9-4.4) | 4.3 (0.9-5.4) | 5.2 (0.9-6.5) | 6.8 (0.9-8.0) | 8.5 (2.8-10.0) | 9.4 (2.8-11.2) | 12.1 (4.0-14.0) | 13.4 (4.5-14.5) |
| | Heating | | | 4.1 (0.9-5.7) | 5.0 (0.9-6.5) | 6.0 (0.9-7.5) | 8.0 (0.9-9.1) | 10.0 (2.7-11.2) | 11.2 (2.7-12.7) | 13.3 (4.2-16.2) | 16.0 (4.7-16.5) |
| Input Power | Cooling/Heating | | kW | 0.90/1.00 | 1.18/1.25 | 1.37/1.48 | 1.95/2.21 | 2.65/2.70 | 2.83/3.07 | 3.59/3.44 | 4.42/4.62 |
| EER | Cooling | | W/W | 3.89 | 3.64 | 3.80 | 3.49 | 3.21 | 3.32 | 3.37 | 3.03 |
| COP | Heating | | | 4.10 | 4.00 | 4.05 | 3.62 | 3.70 | 3.65 | 3.87 | 3.46 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 3.5/4.2 | 4.3/4.5 | 5.2/ 4.3 | 6.8/ 6.0 | 8.5/8.0 | 9.4/8.7 | - | - |
| SEER | Cooling | | W/W | 6.20 | 6.10 | 7.15 | 6.50 | 5.95 | 5.81 | - | - |
| SCOP | Heating (Average) | | | 4.10 | 4.00 | 4.11 | 4.01 | 3.95 | 3.81 | - | - |
| Energy Efficiency Class | Cooling | | | A++ | A++ | A++ | A++ | A+ | A+ | - | - |
| | Heating (Average) | | | A+ | A+ | A+ | A+ | A | A | - | - |
| Max. Operating Current | Cooling/Heating | | A | 8.0/10.5 | 9.5/13.0 | 10.0/13.5 | 13.5/18.5 | 17.0/17.0 | 20.0/20.0 | 22.5/22.5 | 23.5/23.5 |
| Annual Energy Consumption | Cooling | | kWh/a | 198 | 247 | 255 | 366 | 500 | 566 | - | - |
| | Heating | | | 1,434 | 1,573 | 1,462 | 2,092 | 2,833 | 3,194 | - | - |
| Moisture Removal | | | l/h | 0.7 | 0.9 | 1.2 | 1.8 | 2.3 | 2.0 | 2.6 | 2.6 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 32/27/26/24 | 33/28/27/25 | 28/25/22/20 | 32/28/24/21 | 36/33/30/29 | 36/31/28/26 | 39/35/31/29 | 39/35/31/29 |
| | Indoor (Heating) | H/M/L/Q | | 32/27/26/24 | 33/28/27/25 | 28/25/22/20 | 32/28/24/21 | 36/33/30/29 | 33/31/28/26 | 39/35/31/29 | 39/35/31/29 |
| | Outdoor(Cooling/Heating) | High | | 47/48 | 49/49 | 50/51 | 55/56 | 53/55 | 54/55 | 55/55 | 55/57 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 57/58 | 59/60 | 54/54 | 57/57 | 63/65 | 64/63 | 67/69 | 67/69 |
| | Outdoor(Cooling/Heating) | High | | 60/61 | 64/63 | 63/62 | 68/68 | 68/69 | 69/70 | 69/68 | 69/71 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 850/1,780 | 950/1,910 | 1,050/1,900 | 1,360/2,460 | 1,700/3,600 | 2,050/2,800 | 2,550/6,750 | 2,550/6,750 |
| | Indoor / Outdoor (Heating) | High | | 850/1,630 | 950/1,740 | 1,050/1,700 | 1,360/2,340 | 1,700/3,600 | 1,850/2,800 | 2,550/6,200 | 2,550/6,850 |
| Static pressure range (Standard) | | | Pa | 30 to 200 (35) | 30 to 200 (35) | 30 to 200 (35) | 30 to 200 (35) | 30 to 200 (47) | 30 to 200 (47) | 30 to 160 (60) | 30 to 160 (60) |
| Net Dimensions H x W x D | Indoor | | mm | 300×700×700 | 300×700×700 | 300×1,000×700 | 300×1,000×700 | 300×1,000×700 | 300×1,400×700 | 300×1,400×700 | 300×1,400×700 |
| | Outdoor | | mm | 578×790×300 | 578×790×300 | 620×790×290 | 620×790×290 | 830×900×330 | 830×900×330 | 1,290×900×330 | 1,290×900×330 |
| Weight | Indoor | | kg(lbs) | 27 (59) | 27 (59) | 36 (79) | 36 (79) | 36 (79) | 46 (101) | 46 (101) | 46 (101) |
| | Outdoor | | kg(lbs) | 40 (88) | 40 (88) | 41 (90) | 41 (90) | 61 (134) | 61 (134) | 86 (189) | 86 (189) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/9.52 | 6.35/12.70 | 6.35/12.70 | 6.35/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 |
| Drain hose Diameter (I.D./O.D.) | | | | 25/32 | 25/32 | 25/32 | 25/32 | 25/32 | 25/32 | 25/32 | 25/32 |
| Max Pipe Length (Pre-Charge) | | | m | 25 (15) | 25 (15) | 30 (15) | 30 (15) | 50 (20) | 50 (20) | 50 (20) | 50 (20) |
| Max Height Difference | | | | 15 | 15 | 20 | 20 | 30 | 30 | 30 | 30 |
| Operation Range | Cooling | | °CDB | -10 to 46 | -10 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | | kg(CO2eq-T) | 1.15 (2.4) | 1.25 (2.6) | 1.80 (3.8) | 1.80 (3.8) | 2.10 (4.4) | 2.10 (4.4) | 3.35 (7.0) | 3.35 (7.0) |

## Optional parts

Wired Remote Controller: UTY-RNRYZ3, UTY-RVNYM, UTY-RNNYM, UTY-RLRY
Simple Remote Controller: UTY-RSNYM, UTY-RSRY, UTY-RHRY
IR Receiver Unit : UTY-LBTYM
Wireless LAN Interface: UTY-TFNXZ1
External connect kit: UTY-XWZXZG

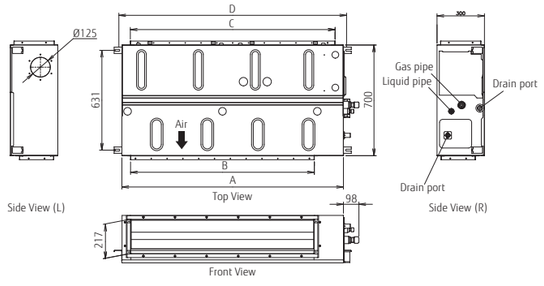
Long life filter: UTD-LFNA (ARYG36/45/54LHTBP), UTD-LFNB (ARYG18/24/30LHTBP), UTD-LFNC (ARYG12/14LHTBP)
Remote Sensor Unit: UTY-XSZX
External input and output PCB (with bracket): UTY-XCSX + UTZ-GXNA
External Input and Output PCB BOX: UTZ-GXRA




Drain hose is standard accessory

## Dimensions

(Unit : mm)




| | ARYG12/14LHTBP | ARYG18/24/30LHTBP | ARYG36/45/54LHTBP |
|---|---|---|---|
| A | 700 | 1,000 | 1,400 |
| B | 462 | 762 | 1,162 |
| C | 650 | 895 | 1,295 |
| D | 740 | 1,040 | 1,440 |

NEW

# Medium Static Pressure Duct

Standard



ALL DC | i-PAM | V-PAM

(30/36/45) (24)

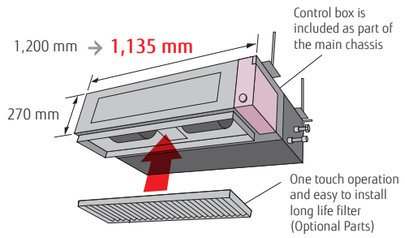
Economy | Auto Changeover | Adjust | Restart | Duct | Distributing | +Setback | Filter | Blue Fin

(45)

## Slim & Compact design

**Indoor Unit**

The slim and compact design of the indoor unit, with the control box mounted on the side of the unit, allows installation in narrow spaces.




**New Outdoor Unit**

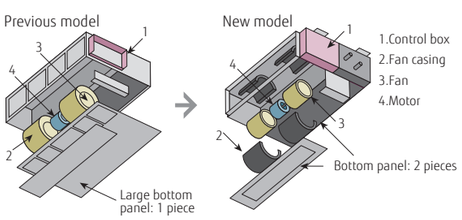
45 model outdoor unit was changed completely. Easier installation was realized by compact and lightweight outdoor unit.



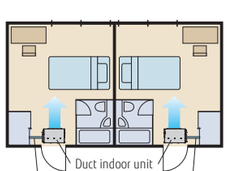

## Easy maintenance

Structural improvement is attained by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while leaving the main chassis installed.

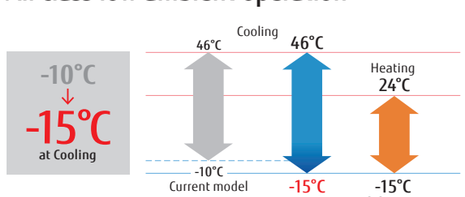
See below for the case of rear suction type




## Two-direction drain piping




## All class low ambient operation








REFRIGERANT R32

**Model : ARXG22KMLA / ARXG24KMLA / ARXG30KMLA / ARXG36KMLA / ARXG45KMLA**





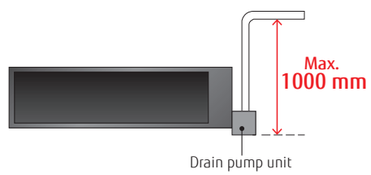
For ARXG22KMLA | For ARXG24KMLA | For ARXG30/36KMLA | For ARXG45KMLA

## Specifications

| Model No. | Indoor unit | | | ARXG22KMLA | ARXG24KMLA | ARXG30KMLA | ARXG36KMLA | ARXG45KMLA |
|---|---|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG22KBTB | AOYG24KBTB | AOYG30KBTB | AOYG36KBTB | AOYG45KBTB |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | | |
| Capacity | Cooling | | kW | 6.0 (0.9-6.7) | 6.8 (0.9-8.0) | 8.5 (2.8-10.0) | 9.5 (2.8-11.2) | 12.1 (4.0-13.0) |
| | Heating | | kW | 7.0 (0.9-8.0) | 7.5 (0.9-9.1) | 10.0 (2.7-11.2) | 10.8 (2.7-12.7) | 13.5 (4.2-15.2) |
| Input Power | Cooling/Heating | | kW | 1.78/1.87 | 2.14/1.97 | 2.65/2.63 | 2.97/2.88 | 4.22/3.84 |
| EER | Cooling | | W/W | 3.37 | 3.18 | 3.21 | 3.20 | 2.87 |
| COP | Heating | | W/W | 3.74 | 3.80 | 3.80 | 3.75 | 3.52 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 6.0/4.8 | 6.8/6.0 | 8.5/8.0 | 9.5/8.7 | - |
| SEER | Cooling | | W/W | 6.10 | 6.20 | 6.23 | 6.10 | - |
| SCOP | Heating | | W/W | 4.10 | 4.10 | 4.00 | 4.00 | - |
| Energy Efficiency Class | Cooling | | | A++ | A++ | A++ | A++ | - |
| | Heating | | | A+ | A+ | A+ | A+ | - |
| Max. Operating Current | Cooling/Heating | | A | 12.6 | 13.6 | 22.6 | 22.6 | 28.5 |
| Annual Energy Consumption | Cooling | | kWh/a | 344 | 384 | 477 | 545 | - |
| | Heating | | kWh/a | 1,637 | 2,045 | 2,797 | 3,044 | - |
| Moisture Removal | | | l/h | 2.1 | 2.5 | 2.5 | 3.0 | 4.0 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 31/29/27/25 | 31/29/27/25 | 39/35/30/26 | 39/35/30/26 | 42/38/32/28 |
| | Indoor (Heating) | H/M/L/Q | dB(A) | 31/29/27/25 | 31/29/27/25 | 42/35/30/26 | 42/35/30/26 | 42/38/32/28 |
| | Outdoor(Cooling/Heating) | High | dB(A) | 51/51 | 53/54 | 53/55 | 55/55 | 57/57 |
| Sound Power Level | Indoor(Cooling/Heating) | High | dB(A) | 60/62 | 60/62 | 65/69 | 65/70 | 68/70 |
| | Outdoor(Cooling/Heating) | High | dB(A) | 63/63 | 65/66 | 68/69 | 70/70 | 71/71 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 1,100/2,240 | 1,100/2,700 | 1,900/3,750 | 1,900/3,750 | 2,100/4,450 |
| | Indoor / Outdoor (Heating) | High | $m^3/h$ | 1,100/1,960 | 1,100/2,700 | 2,100/3,750 | 2,100/3,750 | 2,100/4,450 |
| Static pressure range (Standard) | | | Pa | 30 to 150 (35) | 30 to 150 (35) | 30 to 150 (47) | 30 to 150 (47) | 30 to 150 (60) |
| Net Dimensions H x W x D | Indoor | | mm | 270x1,135x700 | 270x1,135x700 | 270x1,135x700 | 270x1,135x700 | 270x1,135x700 |
| | Outdoor | | mm | 632x799x290 | 716x820x315 | 788x940x320 | 788x940x320 | 998x940x320 |
| Weight | Indoor | | kg(lbs) | 35 (77) | 35 (77) | 38 (84) | 38 (84) | 39 (86) |
| | Outdoor | | kg(lbs) | 38 (84) | 42 (93) | 52 (115) | 52 (115) | 67 (148) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/12.70 | 6.35/12.70 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 |
| Drain hose Diameter (I.D./O.D.) | | | | 35.7/38.1 | 35.7/38.1 | 35.7/38.1 | 35.7/38.1 | 35.7/38.1 |
| Max Pipe Length (Pre-Charge) | | | m | 30 (20) | 30 (20) | 50 (30) | 50 (30) | 50 (30) |
| Max Height Difference | | | | 25 | 25 | 30 | 30 | 30 |
| Operation Range | Cooling | | °CDB | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 |
| | Heating | | °CDB | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R32 (675) | R32 (675) | R32 (675) | R32 (675) | R32 (675) |
| | Charge | | kg(CO2eq-T) | 1.25 (0.844) | 1.25(0.844) | 1.90(1.283) | 1.90(1.283) | 2.70(1.823) |

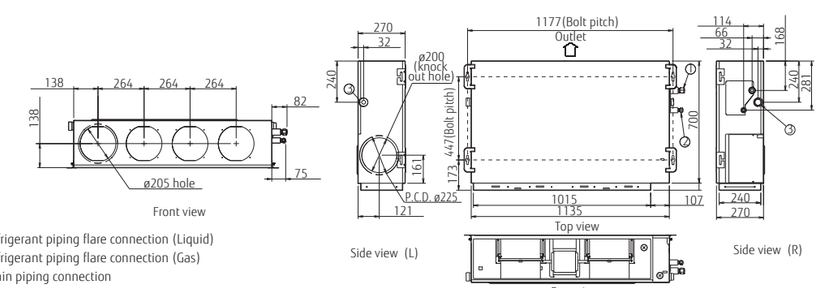
## Optional parts

| | | | |
|---|---|---|---|
| Wired Remote Controller: | UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM, UTY-RNNYM | Drain Pump Unit: | UTZ-PX1NBA |
| Simple Remote Controller: | UTY-RSRY, UTY-RHRY, UTY-RSNYM | Wireless LAN Interface: | UTY-TFSXZ1 |
| IR Receiver Kit: | UTY-LBTYM | Remote Sensor Unit: | UTY-XSZX |
| Flange (Round): | UTD-RF204 | Long Life Filter: | UTD-LF25NA |
| Flange (Square): | UTD-SF045T | External Connect Kit: | UTY-XWZXZG |




## Dimensions

(Unit : mm)




① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

# Medium Static Pressure Duct

Standard



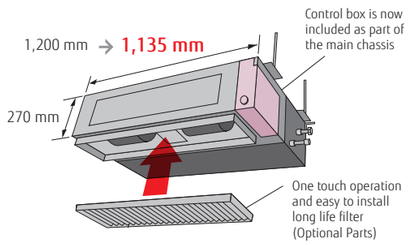
ALL DC | i-PAM | V-PAM

Single phase (30/36/45) (24)

Economy | Auto Changeover | Adjust | Restart | Duct | Distributing | +Setback | Filter | Blue Fin (45)

## Slim & Compact design

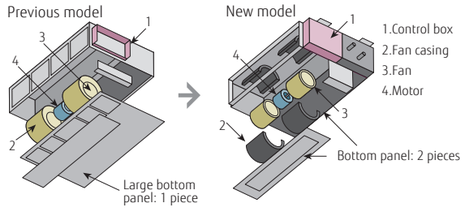
In the case of bottom return air connection, not only does the indoor unit design allow for installation in a narrow ceiling space of up to 270 mm, further space savings have been achieved by mounting the control box internally inside the chassis.



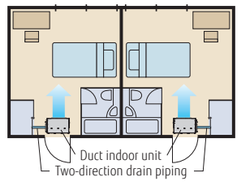

## Easy maintenance

Structural improvement is attained by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while leaving the main chassis installed.

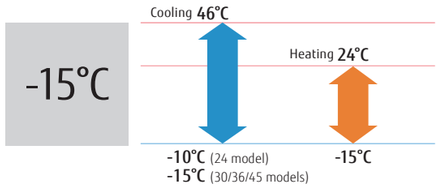
See below for the case of rear suction type




## Two-direction drain piping




## Low ambient operation








**Model : ARYG24LMLA / ARYG30LMLE / ARYG36LMLE / ARYG45LMLA / ARYG36LMLA [3 phase] / ARYG45LMLA [3 phase]**





Wired R.C.



For ARYG24LMLA



For ARYG30/36LMLE



For ARYG45LMLA (Single -phase)



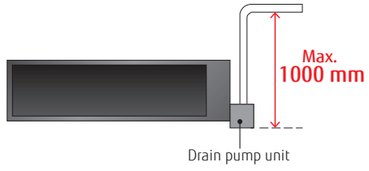
For ARYG36/45LMLA

## Specifications

| Model No. | Indoor unit | | | ARYG24LMLA | ARYG30LMLE | ARYG36LMLE | ARYG45LMLA | ARYG45LMLA | ARYG36LMLA | ARYG45LMLA |
|---|---|---|---|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG24LBCB | AOYG30LETL | AOYG36LETL | AOYG45LBTC | AOYG45LETL | AOYG36LATT | AOYG45LATT |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | | | 3-phase, ~400V, 50Hz | |
| Capacity | Cooling | | kW | 6.8 (0.9-8.0) | 8.5 (2.8-10.0) | 9.4 (2.8-11.2) | 12.1 (4.0-13.0) | 12.1 (4.0-13.3) | 10.0 (4.7-11.4) | 12.5 (5.0-14.0) |
| | Heating | | | 8.0 (0.9-9.1) | 10.0 (2.7-11.2) | 11.2 (2.7-12.7) | 13.3 (4.2-15.2) | 13.1 (4.2-15.5) | 11.2 (5.0-14.0) | 14.0 (5.4-16.2) |
| Input Power | Cooling/Heating | | kW | 2.21/2.26 | 2.65/2.68 | 2.96/3.10 | 4.29/3.84 | 3.77/3.68 | 2.84/2.87 | 3.89/3.88 |
| EER | Cooling | | W/W | 3.08 | 3.21 | 3.18 | 2.82 | 3.21 | 3.52 | 3.21 |
| COP | Heating | | | 3.54 | 3.73 | 3.61 | 3.46 | 3.61 | 3.90 | 3.61 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 6.8/6.0 | 8.5/8.0 | 9.4/8.7 | - | - | 10.0/10.0 | - |
| SEER | Cooling | | W/W | 6.20 | 5.90 | 5.70 | - | - | 5.80 | - |
| SCOP | Heating | | | 4.00 | 3.90 | 3.80 | - | - | 4.00 | - |
| Energy Efficiency Class | Cooling | | | A++ | A+ | A+ | - | - | A+ | - |
| | Heating | | | A+ | A | A | - | - | A+ | - |
| Max. Operating Current | Cooling/Heating | | A | 14.7/15.7 | 17.0/17.0 | 18.5/20.0 | 23.5/23.5 | 21.0/21.0 | 8.5/8.5 | 9.5/9.5 |
| Annual Energy Consumption | Cooling | | kWh/a | 384 | 504 | 576 | - | - | 603 | - |
| | Heating | | | 2,099 | 2,868 | 3,202 | - | - | 3,497 | - |
| Moisture Removal | | | l/h | 2.5 | 2.5 | 3.0 | 4.0 | 4.0 | 3.0 | 4.5 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 31/29/27/25 | 39/35/30/26 | 39/35/30/26 | 42/38/32/28 | 42/38/32/28 | 38/36/31/26 | 42/38/32/28 |
| | Indoor (Heating) | H/M/L/Q | | 31/29/27/25 | 42/35/30/26 | 42/35/30/26 | 42/38/32/28 | 42/38/32/28 | 40/36/31/26 | 42/38/32/28 |
| | Outdoor(Cooling/Heating) | High | | 53/54 | 53/55 | 54/55 | 58/58 | 55/55 | 51/53 | 54/54 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 60/62 | 65/69 | 65/70 | - | - | 65/67 | - |
| | Outdoor(Cooling/Heating) | High | | 66/66 | 68/69 | 69/70 | - | - | 67/69 | - |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 1,100/2,850 | 1,900/3,600 | 1,900/3,800 | 2,100/4,650 | 2,100/6,750 | 1,800/6,200 | 2,100/6,750 |
| | Indoor / Outdoor (Heating) | High | | 1,100/2,700 | 2,100/3,600 | 2,100/3,800 | 2,100/4,650 | 2,100/6,850 | 1,850/6,200 | 2,100/6,200 |
| Static pressure range (Standard) | | | Pa | 30 to 150 (35) | 30 to 150 (47) | 30 to 150 (47) | 30 to 150 (60) | 30 to 150 (60) | 30 to 150 (47) | 30 to 150 (60) |
| Net Dimensions H x W x D | Indoor | | mm | 270×1,135×700 | 270×1,135×700 | 270×1,135×700 | 270×1,135×700 | 270x1,135x700 | 270×1,135×700 | 270×1,135×700 |
| | Outdoor | | mm | 716×820×315 | 830×900×330 | 830×900×330 | 914×970×370 | 1,290×900×330 | 1,290×900×330 | 1,290×900×330 |
| Weight | Indoor | | kg(lbs) | 38 (84) | 40 (88) | 40 (88) | 40 (88) | 40 (88) | 40 (88) | 40 (88) |
| | Outdoor | | kg(lbs) | 42 (93) | 61 (134) | 61 (134) | 75 (165) | 86 (190) | 104 (229) | 104 (229) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 |
| Drain hose Diameter (I.D./O.D.) | | | | 35.7/38.1 | 35.7/38.1 | 35.7/38.1 | 35.7/38.1 | 35.7/38.1 | 35.7/38.1 | 35.7/38.1 |
| Max Pipe Length (Pre-Charge) | | | m | 30 (15) | 50 (20) | 50 (20) | 50 (20) | 50 (20) | 75 (30) | 75 (30) |
| Max Height Difference | | | | 20 | 30 | 30 | 30 | 30 | 30 | 30 |
| Operation Range | Cooling | | °CDB | -10 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | | kg(CO2eq-T) | 1.50 (3.1) | 2.10 (4.4) | 2.10 (4.4) | 2.90 (6.1) | 3.35 (7.0) | 3.45 (7.2) | 3.45 (7.2) |

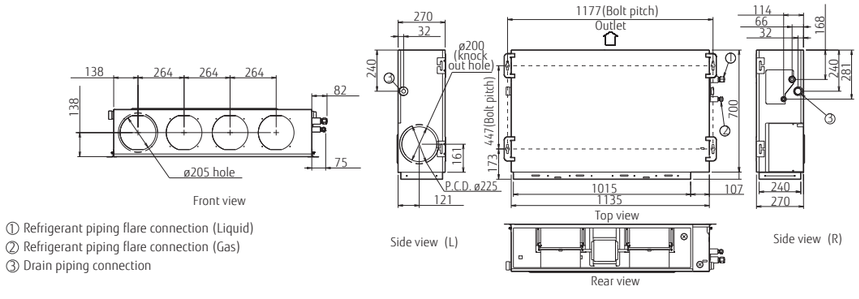
## Optional parts

| | | | |
|---|---|---|---|
| Wired Remote Controller: | UTY-RNNYM, UTY-RVNYM | Remote Sensor Unit: | UTY-XSZX |
| Simple Remote Controller: | UTY-RSNYM | Drain Pump Unit: | UTZ-PX1NBA |
| Flange (Round): | UTD-RF204 | IR Receiver Kit: | UTY-LRHYM |
| Flange (Square): | UTD-SF045T | External connect kit: | UTD-ECS5A |
| Long Life Filter: | UTD-LF25NA | Wireless LAN Interface: | UTY-TFNXZ1 |




## Dimensions

(Unit : mm)




① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

NEW

# High Static Pressure Duct

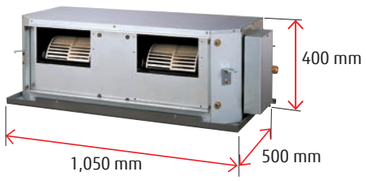


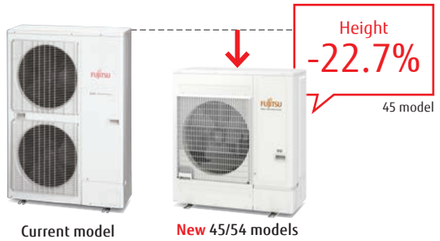
ALL DC i-PAM

Economy · Auto Changeover · Adjust · Restart · +Setback · Filter · Blue Fin

## Easy installation (Compact size & Lightweight)

A compact size and lightweight indoor unit & outdoor unit has been developed by reducing the basic chassis and the overall material weight.



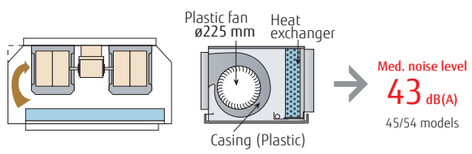




## Design also corresponding to high static pressure

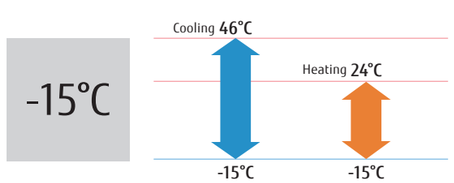



## Low noise

Cutting off the corners has enabled less turbulent airflow.
Low noise is realized by adopting a plastic case and a plastic fan.




## Low ambient operation








**Model : ARXG45KHTA / ARXG54KHTA**





## Specifications

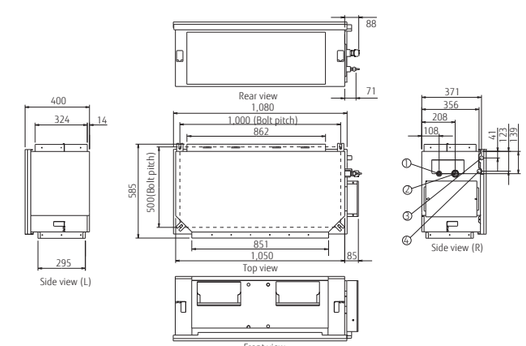
| Model No. | Indoor unit | | | ARXG45KHTA | ARXG54KHTA |
|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG45KBTB | AOYG54KBTB |
| Power Source | | | | Single-phase, ~230V, 50Hz | |
| Capacity | Cooling | | kW | 12.1 (4.0-14.0) | 13.4 (5.0-14.5) |
| | Heating | | | 13.5 (5.0-16.2) | 15.5 (5.5-18.0) |
| Input Power | Cooling/Heating | | kW | 4.16/3.61 | 4.77/4.18 |
| EER | Cooling | | W/W | 2.91 | 2.81 |
| COP | Heating | | | 3.74 | 3.71 |
| Pdesign | Cooling/Heating(-10°C) | | kW | - | - |
| SEER | Cooling | | W/W | - | - |
| SCOP | Heating | | | - | - |
| Energy Efficiency Class | Cooling | | | - | - |
| | Heating | | | - | - |
| Max. Operating Current | Cooling/Heating | | A | 28.5 | 28.5 |
| Annual Energy Consumption | Cooling | | kWh/a | - | - |
| | Heating | | | - | - |
| Moisture Removal | | | l/h | 1.5 | 2.0 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L | dB(A) | 47/43/40 | 47/43/40 |
| | Indoor (Heating) | H/M/L | | 47/43/40 | 47/43/40 |
| | Outdoor(Cooling/Heating) | High | | 57/57 | 57/59 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 75/74 | 75/74 |
| | Outdoor(Cooling/Heating) | High | | 71/71 | 73/73 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 3,350/4,450 | 3,350/4,450 |
| | Indoor / Outdoor (Heating) | High | | 3,350/4,450 | 3,350/4,450 |
| Static pressure range (Standard) | | | Pa | 100 to 250 (100) | 100 to 250 (100) |
| Net Dimensions H x W x D | Indoor | | mm | 400x1,050x500 | 400x1,050x500 |
| | Outdoor | | mm | 46 (101) | 46 (101) |
| Weight | Indoor | | kg(lbs) | 998x940x320 | 998x940x320 |
| | Outdoor | | kg(lbs) | 67 (148) | 67 (148) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 9.52/15.88 | 9.52/15.88 |
| Drain hose Diameter (I.D./O.D.) | | | | 23.4/25.4 | 23.4/25.4 |
| Max Pipe Length (Pre-Charge) | | | m | 50 (30) | 50 (30) |
| Max Height Difference | | | | 30 | 30 |
| Operation Range | Cooling | | °CDB | -15 to 46 | -15 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R32 (675) | R32 (675) |
| | Charge | | kg(CO2eq-T) | 2.70(1.823) | 2.70(1.823) |

## Optional parts

| | |
|---|---|
| Wired Remote Controller: | UTY-RVNYM, UTY-RNNYM |
| Simple Remote Controller: | UTY-RSNYM |
| Wireless LAN Interface: | UTY-TFNXZ1 |
| Remote Sensor Unit: | UTY-XSZX |
| Long Life Filter: | UTD-LF60KA |
| External Connect Kit: | UTD-ECS5A |

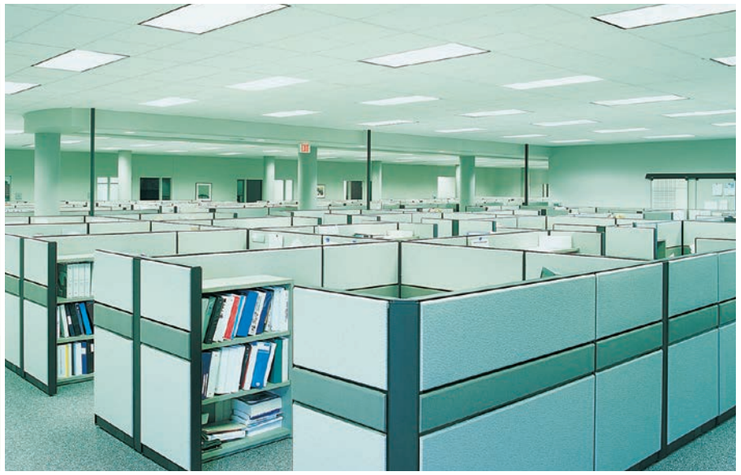
## Dimensions

(Unit : mm)




① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection (Safety drain pan)
④ Drain piping connection(Main drain pan)

# High Static Pressure Duct



REFRIGERANT R410A

ALL DC (60) Single phase

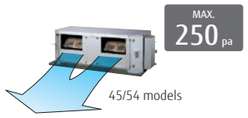
i-PAM

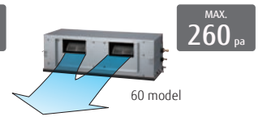
Economy · Auto Changeover · Adjust · Restart · +Setback · Filter · Blue Fin

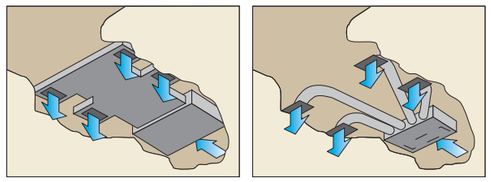
## High energy efficiency

Significantly greater efficiency is realized by using all DC inverter technology. (60 model)

## Design also corresponding to high static pressure



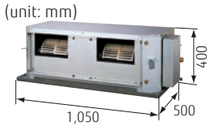



## Easy installation (Compact size & Lightweight)

A compact size and lightweight indoor unit has been developed by reducing the basic chassis and the overall material weight.

(unit: mm)



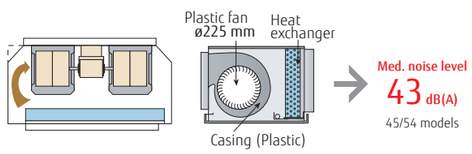

45/54 models




60 model

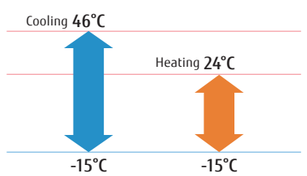
## Low noise

Cutting off the corners has enabled less turbulent airflow.
Low noise is realized by adopting a plastic case and a plastic fan.




## Low ambient operation

-15°C






REFRIGERANT R410A

**Model : ARYG45LHTA / ARYG54LHTA / ARYG45LHTA [3 phase] / ARYG54LHTA [3 phase] / ARYG60LHTA [3 phase]**



ARYG45/54LHTA



ARYG60LHTA



Wired R.C.



## Specifications

| Model No. | Indoor unit | | | ARYG45LHTA | ARYG54LHTA | ARYG45LHTA | ARYG54LHTA | ARYG60LHTA |
|---|---|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG45LETL | AOYG54LETL | AOYG45LATT | AOYG54LATT | AOYG60LATT |
| Power Source | | | | Single-phase, ~230V, 50Hz | | 3-phase, ~400V, 50Hz | | |
| Capacity | Cooling | | kW | 12.5 (4.5-14.0) | 13.4 (5.0-14.5) | 12.5 (5.0-14.0) | 14.0 (5.4-16.0) | 15.0 (6.2-17.5) |
| | Heating | | | 14.0 (5.0-16.2) | 16.0 (5.5-18.0) | 14.0 (5.4-16.2) | 16.0 (5.8-18.0) | 18.0 (6.2-18.0) |
| Input Power | Cooling/Heating | | kW | 4.30/3.80 | 4.77/4.69 | 4.06/3.67 | 4.65/4.37 | 4.70/5.15 |
| EER | Cooling | | W/W | 2.91 | 2.81 | 3.08 | 3.01 | 3.19 |
| COP | Heating | | | 3.68 | 3.41 | 3.81 | 3.66 | 3.50 |
| Max. Operating Current | Cooling/Heating | | A | 22.5/22.5 | 23.5/23.5 | 11.0/11.0 | 12.0/12.0 | 12.5 /12.5 |
| Moisture Removal | | | l/h | 1.5 | 2.0 | 1.5 | 2.5 | 2.0 |
| Sound Pressure | Indoor (Cooling) | H/M/L/Q | dB(A) | 47/43/40/- | 47/43/40/- | 47/43/40/- | 47/43/40/- | 45/40/36/- |
| | Indoor (Heating) | H/M/L/Q | | 47/43/40/- | 47/43/40/- | 47/43/40/- | 47/43/40/- | 45/40/36/- |
| | Outdoor(Cooling/Heating) | High | | 55/55 | 55/57 | 54/54 | 55/56 | 56/58 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 3,350/6,750 | 3,350/6,750 | 3,350/6,750 | 3,350/6,900 | 3,550/6,900 |
| | Indoor / Outdoor (Heating) | High | | 3,350/6,200 | 3,350/6,850 | 3,350/6,200 | 3,350/6,900 | 3,550/7,300 |
| Static pressure range (Standard) | | | Pa | 100 to 250 (100) | 100 to 250 (100) | 100 to 250 (100) | 100 to 250 (100) | 60 to 260 (60) |
| Net Dimensions H x W x D | Indoor | | mm | 400×1,050×500 | 400×1,050×500 | 400×1,050×500 | 400×1,050×500 | 425×1,250×490 |
| | Outdoor | | mm | 1,290×900×330 | 1,290×900×330 | 1,290×900×330 | 1,290×900×330 | 1,290×900×330 |
| Weight | Indoor | | kg(lbs) | 46 (101) | 46 (101) | 46 (101) | 46 (101) | 54 (119) |
| | Outdoor | | kg(lbs) | 86 (189) | 86 (189) | 104 (229) | 104 (229) | 104 (229) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 |
| Drain hose Diameter (I.D./O.D.) | | | | 23.4/25.4 | 23.4/25.4 | 23.4/25.4 | 23.4/25.4 | 23.4/25.4 |
| Max Pipe Length (Pre-Charge) | | | m | 50 (20) | 50 (20) | 75 (30) | 75 (30) | 75 (30) |
| Max Height Difference | | | | 30 | 30 | 30 | 30 | 30 |
| Operation Range | Cooling | | °CDB | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | | kg(CO2eq-T) | 3.35 (7.0) | 3.35 (7.0) | 3.45 (7.2) | 3.45 (7.2) | 3.45 (7.2) |

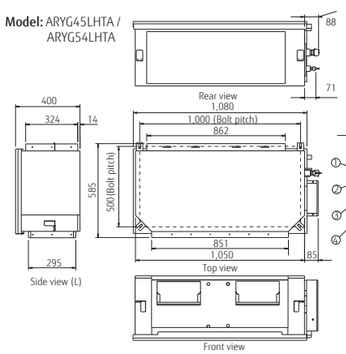
## Optional parts

| | |
|---|---|
| Wired Remote Controller: | UTY-RNNYM, UTY-RVNYM |
| Simple Remote Controller: | UTY-RSNYM |
| Long-Life Filter: | UTD-LF60KA (ARYG45/54LHTA) |
| Remote Sensor Unit: | UTY-XSZX |
| IR Receiver Kit: | UTY-LRHYM(ARYG60LHTA) |
| External connect kit: | UTD-ECS5A |
| Wireless LAN Interface: | UTY-TFSXZ1 |

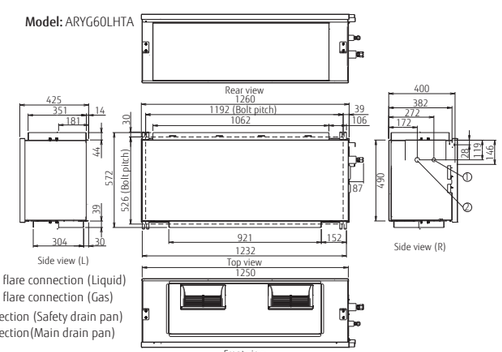
## Dimensions

(Unit : mm)

**Model:** ARYG45LHTA / ARYG54LHTA




**Model:** ARYG60LHTA




① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection (Safety drain pan)
④ Drain piping connection(Main drain pan)

# Big Duct



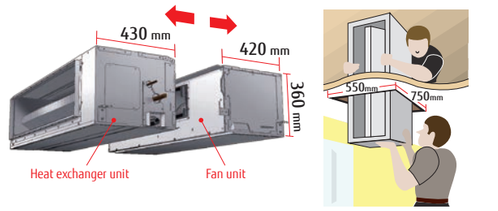
REFRIGERANT R410A

ALL DC

Economy · Set Temp. · Return · Auto Changeover · Adjust · Restart · Auto OFF · Weekly · Filter · On/Off · Adjust · Blue Fin

## Separation is possible by lightweight compact design

The indoor unit can be separated into fan unit and heat-exchanger unit to assist the installation works.



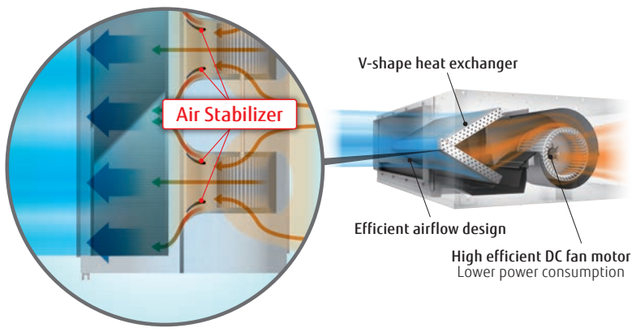

## Automatic Airflow adjustment function

This function can set the optimum airflow automatically, so installation time is shortened drastically.



## Quiet operation

The combination of the V-shaped heat exchanger, air stabilizer, and the high efficient DC fan motor allowed quiet operation despite of the small structural design.








**Model : ARYG72LHTA / ARYG90LHTA**





Wired R.C.



## Specifications

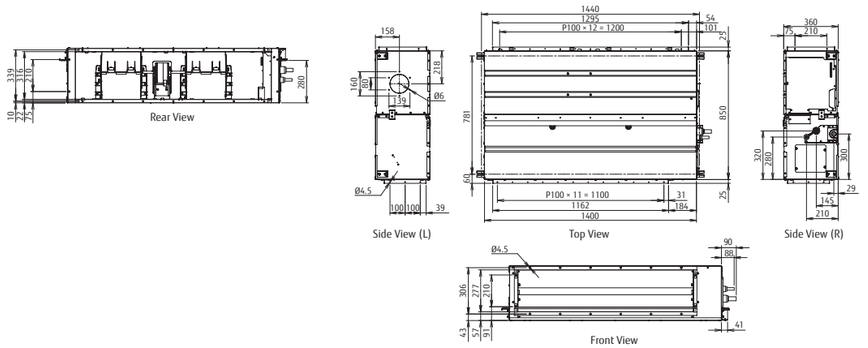
| Model No. | Indoor unit | | | ARYG72LHTA | ARYG90LHTA |
|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG72LRLA | AOYG90LRLA |
| Power Source | Indoor | | | Single-phase, ~230V, 50Hz | |
| | Outdoor | | | 3-phase, ~400V, 50Hz | |
| Capacity | Cooling | | kW | 19.0 (8.4-20.9) | 22.0 (10.3-24.2) |
| | Heating | | | 22.4 (7.2-24.6) | 27.0 (8.5-29.7) |
| Input Power | Cooling/Heating | | kW | 6.46 / 6.59 | 7.77 / 8.18 |
| EER | Cooling | | W/W | 2.94 | 2.83 |
| COP | Heating | | | 3.40 | 3.30 |
| Max. Operating Current | Indoor(Cooling/Heating) | | A | 4.6/4.6 | 6.0/6.0 |
| | Outdoor(Cooling/Heating) | | | 13.3/13.3 | 14.6/14.6 |
| Moisture Removal | | | l/h | 4.5 | 6.0 |
| Sound Pressure | Indoor (Cooling) | H/M/L/Q | dB(A) | 46/43/41/39 | 47/44/42/40 |
| | Indoor (Heating) | H/M/L/Q | | 46/43/41/39 | 47/44/42/40 |
| | Outdoor(Cooling/Heating) | High | | 55/55 | 55/57 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 4,300/8,400 | 4,300/8,400 |
| | Indoor / Outdoor (Heating) | High | | 4,300/8,400 | 4,300/9,000 |
| Static pressure range (Standard) | | | Pa | 50 to 150 (72) | 50 to 200 (72) |
| Net Dimensions H x W x D | Indoor | | mm | 360×1,400×850 | 360×1,400×850 |
| | Outdoor | | mm | 1,428×1,080×480 | 1,428×1,080×480 |
| Weight | Indoor | | kg(lbs) | 69 (152) | 80 (176) |
| | Outdoor | | kg(lbs) | 165 (363) | 174 (383) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 12.7/25.4 | 12.7/25.4 |
| Drain Hose Diameter (I.D./O.D.) | | | | 24.4/32.0 | 24.4/32.0 |
| Max Pipe Length (Pre-Charge) | | | m | 100 (30) | 100 (30) |
| Height Difference | | | | 30 | 30 |
| Operation Range | Cooling | | °CDB | -15 to 46 | -15 to 46 |
| | Heating | | | -20 to 24 | -20 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) |
| | Charge | kg(CO2eq-T) | | 5.6 (11.7) | 7.1 (14.8) |

## Optional parts

| | | | |
|---|---|---|---|
| Wired Remote Controller: | UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM, UTY-RNNYM | External Input and Output PCB: | UTY-XCSX |
| Simple Remote Controller: | UTY-RSRY, UTY-RHRY, UTY-RSNYN | Drain Pump Unit: | UTZ-PX1NAB |
| IR Receiver Unit: | UTY-LBTYM, UTY-LRHYM | Long Life filter: | UTD-LFKA |
| Remote Sensor Unit: | UTY-XSZX | Wireless LAN Interface: | UTY-TFSXZ1 |
| External Connect Kit: | UTY-XWZXZG | | |

## Dimensions

(Unit : mm)



# Floor
## Compact & Comfort



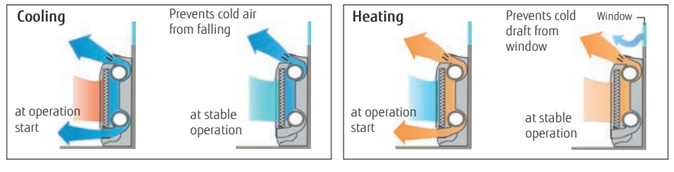
REFRIGERANT R410A

ALL DC V V-PAM

Economy | 10°C HEAT | Auto Changeover | Up/Down | Adjust | Restart | Sleep | Program | Filter | ION | AF | Washable

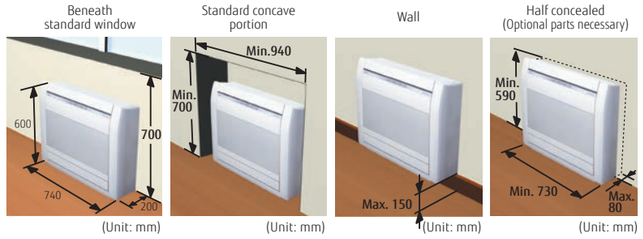
## 2-Fan & Wide airflow

Individual vertical airflow by 2-fan can control the whole room comfortably.



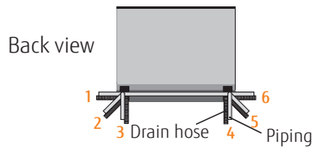

## Flexible & easy installation

Due to compact and whole surface suction method model, floor, concealed, half concealed, or wall mounted installation can be available to match the room layout.



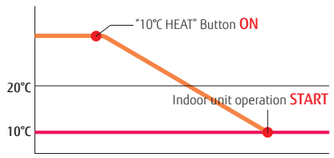

## Flexible piping connection 6 direction of drain & piping

Drain hose and piping can be drawn flexibly in the right, left, side, and down directions



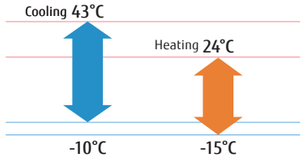

## 10°C HEAT Operation

The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied




## Low ambient operation

-15°C
at Heating








**Model: AGYG09LVCA / AGYG12LVCA / AGYG14LVCA**





Wireless R.C.



For AGYG09/12LVCA



For AGYG14LVCA

## Specifications

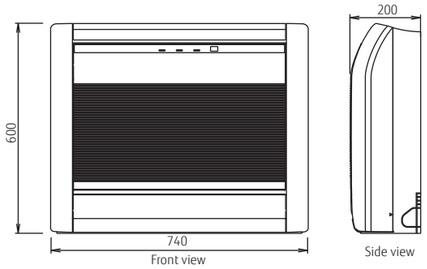
| Model No. | Indoor unit | | | AGYG09LVCA | AGYG12LVCA | AGYG14LVCA |
|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG09LVCA | AOYG12LVCA | AOYG14LVLA |
| Power Source | | | | Single-phase, ~230V, 50Hz | | |
| Capacity | Cooling | | kW | 2.6 (0.9-3.5) | 3.5 (0.9-4.0) | 4.2 (0.9-5.0) |
| | Heating | | | 3.5 (0.9-4.95) | 4.5 (0.9-5.3) | 5.2 (0.9-6.3) |
| Input Power | Cooling/Heating | | kW | 0.53/0.79 | 0.94/1.19 | 1.14/1.44 |
| EER | Cooling | | W/W | 4.91 | 3.72 | 3.68 |
| COP | Heating | | | 4.43 | 3.78 | 3.61 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 2.6/2.9 | 3.5/3.8 | 4.2/4.7 |
| SEER | Cooling | | W/W | 7.00 | 6.50 | 6.40 |
| SCOP | Heating (Average) | | | 4.20 | 4.00 | 4.00 |
| Energy Efficiency Class | Cooling | | | A++ | A++ | A++ |
| | Heating (Average) | | | A+ | A+ | A+ |
| Max. Operating Current | Cooling/Heating | | A | 7.0/10.0 | 7.0/10.0 | 9.0/13.5 |
| Annual Energy Consumption | Cooling | | kWh/a | 130 | 188 | 230 |
| | Heating | | | 967 | 1,330 | 1,645 |
| Moisture Removal | | | l/h | 1.3 | 1.8 | 2.1 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 40/35/29/22 | 40/35/29/22 | 44/38/31/22 |
| | Indoor (Heating) | H/M/L/Q | | 40/35/29/22 | 40/35/29/22 | 43/37/29/22 |
| | Outdoor(Cooling/Heating) | High | | 47/48 | 48/49 | 50/50 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 55/56 | 55/56 | 58/58 |
| | Outdoor(Cooling/Heating) | High | | 64/65 | 64/65 | 65/66 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 570/1,680 | 570/1,680 | 650/1,910 |
| | Indoor / Outdoor (Heating) | High | | 600/1,490 | 600/1,680 | 650/1,750 |
| Net Dimensions H x W x D | Indoor | | mm | 600×740×200 | 600×740×200 | 600×740×200 |
| | Outdoor | | mm | 540×790×290 | 540×790×290 | 578×790×300 |
| Weight | Indoor | | kg(lbs) | 14 (31) | 14 (31) | 14 (31) |
| | Outdoor | | kg(lbs) | 36 (79) | 36 (79) | 40 (88) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/9.52 | 6.35/9.52 | 6.35/12.70 |
| Drain hose Diameter (I.D./O.D.) | | | | 13.8/15.8 to 16.7 | 13.8/15.8 to16.7 | 13.8/15.8 to 16.7 |
| Max Pipe Length (Pre-Charge) | | | m | 20 (15) | 20 (15) | 20 (15) |
| Max Height Difference | | | | 15 | 15 | 15 |
| Operation Range | Cooling | | °CDB | -10 to 43 | -10 to 43 | -10 to 43 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | | kg(CO2eq-T) | 1.05 (2.2) | 1.05 (2.2) | 1.15 (2.4) |

### Optional parts

Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
Simple Remote Controller: UTY-RSNYM
Half Concealed Kit: UTR-STA
Wireless LAN Interface: UTY-TFNXZ1
External Connect Kit: UTY-XWZX

### Dimensions

(Unit : mm)



# Floor/Ceiling

Comfort & Dual Design



ALL DC V V-PAM

Economy | 10°C HEAT | Auto Changeover | Double | Adjust | Restart | Sleep | Program | Filter

## Flexible installation

### Example for floor installation

Floor console



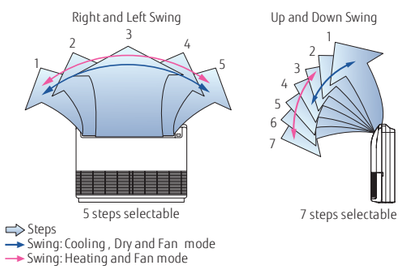
### Example for ceiling installation

Under ceiling



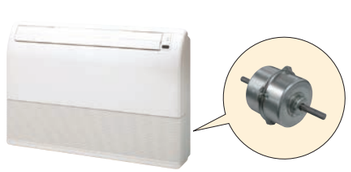
## Double auto swing

A combination of right/left and up/down directional swing allows 3-dimensional air direction control



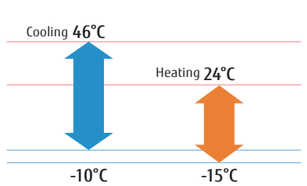

## High power DC fan motor

- High power
- Wide rotation range
- High efficiency



## Low ambient operation

-15°C at Heating








**Model : ABYG18LVTB / ABYG24LVTA**





Wireless R.C.



For ABYG18LVTB



For ABYG24LVTA

## Specifications

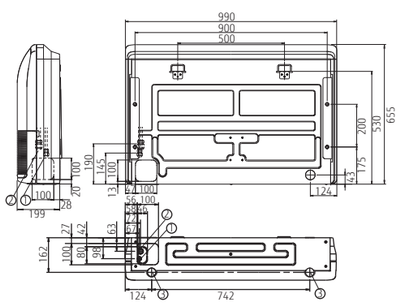
| Model No. | Indoor unit | | | ABYG18LVTB | ABYG24LVTA |
|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG18LBCB | AOYG24LBCB |
| Power Source | | | | Single-phase, ~230V, 50Hz | |
| Capacity | Cooling | | kW | 5.2 (0.9-5.9) | 6.8 (0.9-8.0) |
| | Heating | | | 6.0 (0.9-7.5) | 8.0 (0.9-9.1) |
| Input Power | Cooling/Heating | | kW | 1.62/1.66 | 2.21/2.26 |
| EER | Cooling | | W/W | 3.21 | 3.08 |
| COP | Heating | | | 3.61 | 3.54 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 5.2/5.2 | 6.8/6.0 |
| SEER | Cooling | | W/W | 6.10 | 5.60 |
| SCOP | Heating (Average) | | | 4.00 | 3.90 |
| Energy Efficiency Class | Cooling | | | A++ | A+ |
| | Heating (Average) | | | A+ | A |
| Max. Operating Current | Cooling/Heating | | A | 11.5/13.5 | 14.7/15.7 |
| Annual Energy Consumption | Cooling | | kWh/a | 298 | 425 |
| | Heating | | | 1,818 | 2,153 |
| Moisture Removal | | | l/h | 2.0 | 2.7 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 43/40/34/31 | 48/44/40/35 |
| | Indoor (Heating) | H/M/L/Q | | 43/40/34/31 | 48/44/40/35 |
| | Outdoor(Cooling/Heating) | High | | 50/50 | 53/54 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 57/57 | 61/61 |
| | Outdoor(Cooling/Heating) | High | | 62/65 | 66/66 |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 780/2,380 | 980/2,850 |
| | Indoor / Outdoor (Heating) | High | | 780/2,080 | 980/2,700 |
| Net Dimensions H x W x D | Indoor | | mm | 199×990×655 | 199×990×655 |
| | Outdoor | | mm | 632×799×290 | 716×820×315 |
| Weight | Indoor | | kg(lbs) | 27 (59) | 27 (59) |
| | Outdoor | | kg(lbs) | 36 (79) | 42 (93) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 6.35/12.70 | 6.35/15.88 |
| Drain hose Diameter (I.D./O.D.) | | | | 25/32 | 25/32 |
| Max Pipe Length (Pre-Charge) | | | m | 25 (15) | 30 (15) |
| Max Height Difference | | | | 15 | 20 |
| Operation Range | Cooling | | °CDB | -10 to 46 | -10 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) |
| | Charge | | kg(CO2eq-T) | 1.20 (2.5) | 1.50 (3.1) |

## Optional parts

**Wired Remote Controller:** UTY-RNNYM, UTY-RVNYM
**Simple Remote Controller:** UTY-RSNYM
**Wireless LAN Interface:** UTY-TFNXZ1
**External Connect Kit:** UTY-XWZX

## Dimensions

(Unit : mm)




① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

# Ceiling
## Comfort for Large Room



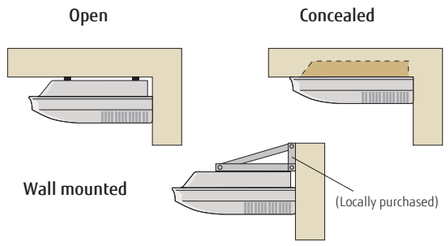
REFRIGERANT R410A

ALL DC i-PAM
Single phase

Economy | 10°C HEAT | Auto Changeover | Double | Adjust | Restart | Duct | Sleep | Program | Filter | Blue Fin
(45)

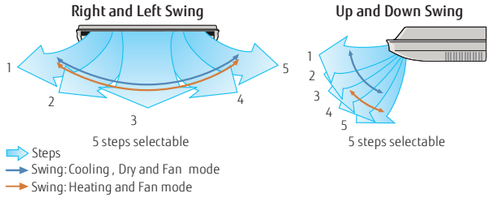
## Flexible installation

Various installations are possible to match the room layout.

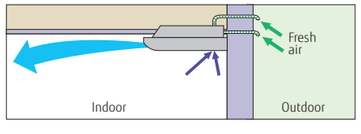



## Multi auto swing

A combination of right/left and up/down directional swing allows 3-dimensional air direction control.

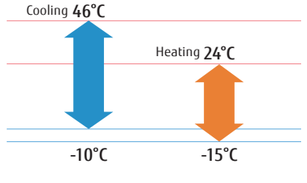



## Fresh air intake




## Low ambient operation

-15°C
at Heating






REFRIGERANT R410A

**Model : ABYG30LRTE / ABYG36LRTE / ABYG45LRTA /
ABYG36LRTA [3 phase] / ABYG45LRTA [3 phase] / ABYG54LRTA [3 phase]**





Wireless R.C.



For ABYG30/36LRTE



For ABYG45LRTA (Single -phase)



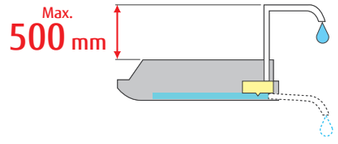
For ABYG36/45/54LRTA

## Specifications

| Model No. | Indoor unit | | | ABYG30LRTE | ABYG36LRTE | ABYG45LRTA | ABYG45LRTA | ABYG36LRTA | ABYG45LRTA | ABYG54LRTA |
|---|---|---|---|---|---|---|---|---|---|---|
| | Outdoor unit | | | AOYG30LETL | AOYG36LETL | AOYG45LBTC | AOYG45LETL | AOYG36LATT | AOYG45LATT | AOYG54LATT |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | | 3-phase, ~400V, 50Hz | | |
| Capacity | Cooling | | kW | 8.5 (2.8-10.0) | 9.4 (2.8-11.2) | 12.1 (4.0-13.0) | 12.1 (4.0-13.3) | 10.0 (4.7-11.4) | 12.5 (5.0-14.0) | 14.0 (5.4-16.0) |
| | Heating | | | 10.0 (2.7-11.2) | 11.2 (2.7-12.7) | 13.3 (4.2-15.2) | 13.3 (4.2-15.5) | 11.2 (5.0-14.0) | 14.0 (5.4-16.2) | 16.0 (5.8-18.0) |
| Input Power | Cooling/Heating | | kW | 2.65/2.77 | 2.93/3.02 | 4.29/3.84 | 3.77/3.68 | 2.84/2.87 | 3.89/3.88 | 4.65/4.67 |
| EER | Cooling | | W/W | 3.21 | 3.21 | 2.82 | 3.21 | 3.52 | 3.21 | 3.01 |
| COP | Heating | | | 3.61 | 3.71 | 3.46 | 3.61 | 3.90 | 3.61 | 3.43 |
| Pdesign | Cooling/Heating(-10°C) | | kW | 8.5/8.0 | 9.4/8.7 | - | - | 10.0/10.0 | - | - |
| SEER | Cooling | | W/W | 6.10 | 6.00 | - | - | 6.10 | - | - |
| SCOP | Heating | | | 4.20 | 4.10 | - | - | 4.10 | - | - |
| Energy Efficiency Class | Cooling | | | A++ | A+ | - | - | A++ | - | - |
| | Heating | | | A+ | A+ | - | - | A+ | - | - |
| Max. Operating Current | Cooling/Heating | | A | 17.0/17.0 | 18.5/20.0 | 23.5/23.5 | 20.5/20.5 | 7.9/7.9 | 8.9/8.9 | 9.9/9.9 |
| Annual Energy Consumption | Cooling | | kWh/a | 487 | 548 | - | - | 573 | - | - |
| | Heating | | | 2,662 | 2,965 | - | - | 3,414 | - | - |
| Moisture Removal | | | l/h | 2.5 | 3.0 | 4.0 | 4.0 | 3.0 | 4.5 | 5.0 |
| Sound Pressure Level | Indoor (Cooling) | H/M/L/Q | dB(A) | 45/43/37/32 | 47/43/37/32 | 49/45/39/34 | 49/45/39/34 | 47/43/37/32 | 49/45/39/34 | 51/48/42/38 |
| | Indoor (Heating) | H/M/L/Q | | 45/43/37/32 | 47/43/37/32 | 49/45/39/34 | 49/45/39/34 | 47/43/37/32 | 49/45/39/34 | 51/48/42/38 |
| | Outdoor(Cooling/Heating) | High | | 53/55 | 54/55 | 58/58 | 55/55 | 51/53 | 54/54 | 55/56 |
| Sound Power Level | Indoor(Cooling/Heating) | High | | 57/60 | 60/61 | - | - | 61/61 | - | - |
| | Outdoor(Cooling/Heating) | High | | 68/69 | 69/70 | - | - | 67/69 | - | - |
| Airflow Rate | Indoor / Outdoor (Cooling) | High | $m^3/h$ | 1,660/3,600 | 1,900/3,800 | 2,100/4,650 | 2,100/6,750 | 1,900/6,200 | 2,100/6,750 | 2,300/6,900 |
| | Indoor / Outdoor (Heating) | High | | 1,660/3,600 | 1,900/3,800 | 2,100/4,650 | 2,100/6,200 | 1,900/6,200 | 2,100/6,200 | 2,300/6,900 |
| Net Dimensions H x W x D | Indoor | | mm | 240×1,660×700 | 240×1,660×700 | 240×1,660×700 | 240×1,660×700 | 240×1,660×700 | 240×1,660×700 | 240×1,660×700 |
| | Outdoor | | mm | 830×900×330 | 830×900×330 | 914×970×370 | 1,290×900×330 | 1,290×900×330 | 1,290×900×330 | 1,290×900×330 |
| Weight | Indoor | | kg(lbs) | 46 (101) | 46 (101) | 46 (101) | 46 (101) | 46 (101) | 46 (101) | 48 (106) |
| | Outdoor | | kg(lbs) | 61 (134) | 61 (134) | 75 (165) | 86 (189) | 104 (229) | 104 (229) | 104 (229) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 |
| Drain port Diameter (I.D./O.D.) | | | | 22.0/25.6 | 22.0/25.6 | 21.5/26.0 | 21.5/26.0 | 21.5/26.0 | 21.5/26.0 | 21.5/26.0 |
| Max Pipe Length (Pre-Charge) | | | m | 50 (20) | 50 (20) | 50 (20) | 50 (20) | 75 (30) | 75 (30) | 75 (30) |
| Max Height Difference | | | | 30 | 30 | 30 | 30 | 30 | 30 | 30 |
| Operation Range | Cooling | | °CDB | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | | kg(CO2eq-T) | 2.10 (4.4) | 2.10 (4.4) | 2.90 (6.1) | 3.35 (7.0) | 3.45 (7.2) | 3.45 (7.2) | 3.45 (7.2) |

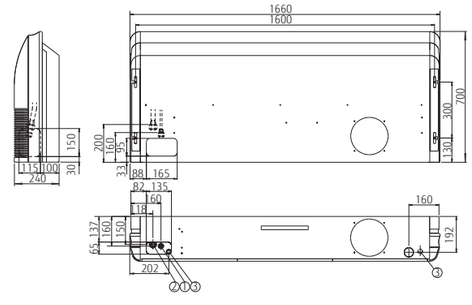
## Optional parts

| | |
|---|---|
| Wired Remote Controller: | UTY-RNNYM, UTY-RVNYM |
| Simple Remote Controller: | UTY-RSNYM |
| Drain Pump Unit: | UTR-DPB24T |
| Flange (Round): | UTD-RF204 |
| Wireless LAN Interface: | UTY-TFNXZ1 |
| External Connect Kit: | UTD-ECS5A, UTY-XWZX |




## Dimensions

(Unit : mm)




① Refrigerant piping flare connection (Liquid)
② Refrigerant piping flare connection (Gas)
③ Drain piping connection

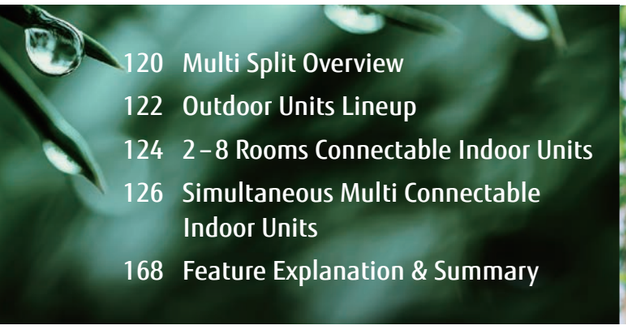
# Feature Summary

| Type | | Wall Mounted | | | | | | | | | | | | Cassette | | | | | Duct | | | | | | | | | Floor | Floor/ Ceiling | Ceiling |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Series | | Flagship Range | Designer Range | Standard Range | | ECO Range | | Designer Range | | Standard Range | | | ECO Range | Compact 4-way Flow | | Circular Flow | | 4-way Flow | Mini (With drain pump) | Slim (With drain pump) | | Medium Static Pressure (Compact & Comfort) | | Medium Static Pressure (Standard) | | High Static Pressure | | Big | | | |
| Model No. | | ASYG 12KXCA | ASYG 07/09/12/14 KGTB | ASYG 07/09/12/14 KMTB | ASYG 18/24KMTA | ASYG 07/09/12 KPCA | ASYG 18/24KLCA | ASYG 09/12LTCA | ASYG 07/09/12/14 LUCA | ASYG 07/09/12/14 LMCE | ASYG 18/30LFCA, ASYG 24LFCC | ASYG 30/36LMTA | ASYG 07/09/12 LLCE | AUXG 09/12/14/ 18/22/24 KVLA | AUYG 12/14/18 LVLB, AUYG 24LVLA | AUXG 18/22/24/ 30/36/45/54 KRLB | AUXG 18/24/30/ 36/45/54 LRLB | AUYG 30/36LRLE, AUYG 36/45/54 LRLA | ARYG 12/14/18 LSLAP | ARXG 09/12/14/18 KLLAP | ARYG 12/14/18 LLTB | ARXG 12/14/18/ 22/24/30/ 36/45/54 KHTAP | ARYG 12/14/18/ 24/30/36/ 45/54 LHTBP | ARXG 22/24/ 30/36/45 KMLA | ARYG 24/36/45 LMLA, ARYG 30/36LMLE | ARXG 45/54KHTA | ARYG 45/54/60 LHTA | ARYG 72/90LHTA | AGYG 09/12/14 LVCA | ABYG 18LVTB, ABYG 24LVTA | ABYG 30/36LRTE, ABYG 36/45/54 LRTA |
| | | R32 | R32 | R32 | R32 | R32 | R32 | R410A | | | | | | R32 | R410A | R32 | R410A | | R410A | R32 | R410A | R32 | R410A | R32 | R410A | R32 | R410A | | | R410A | |
| Energy Saving Function | Dual side fans | ● | | | | | | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Save human sensor | ● | ● | | | | | ● | | | | ● | | | | | | | | | | | | | | | | | | | |
| | Save & Stop human sensor | | | | | | | | | | | | | | | ○ | ○ | | | | | | | | | | | | | | |
| | Economy mode | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Room temperature set point limitation | | ○ | ○ | ○ | | | ○ | ○ | ○ | ○ | ○ | | ○ | ○ | ● | ● | ○ | ● | ○ | ○ | ● | ● | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ |
| | Set temperature auto return | | ○ | ○ | ○ | | | ○ | ○ | ○ | ○ | ○ | | ● | ○ | ● | ● | ○ | ● | ○ | ○ | ● | ● | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ |
| Comfortable Function | Powerful heating | | | | | | | ● | | | | | | | | | | | | | | | | | | | | | | | |
| | Power diffuser | ● | | | | | | | | ● | ● | | | | | | | | | | | | | | | | | | | | |
| | Server room operation | | | | | | | | | | | ● | | | | | | | | | | | | | | | | | | | |
| | Powerful mode | ● | ● | ● | ● | ● | ● | ● | ● | ● | | ● | ● | | | | | | | | | | | | | | | | | | |
| | 10°C HEAT operation | ● | ● | ● | ● | | | ● | ● | ● | ● | ● | | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | ○ (60) | ○ | ● | ● | ● |
| | Low noise mode | ● | ● | ● | ● | | | ● | ● | ● | | ● | | | | ○ (45/54) | ○ (45/54) | | | | | ○ (45/54) | ○ (45/54) | ○ (45) (36LMLA) | ○ (45) (36LMLA) | ○ | ○ | ○ | | | ○ (45/54) (36LRTA) |
| | Auto-changeover | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Up/down swing flaps | | ● | ● | ● | ● | ● | ● | ● | ● | | | ● | ● | ● | ● | ● | ● | ○ | ○ | ○ | | | | | | | | ● | | |
| | Double swing automatic | ● | | | ● | | | | | | ● | ● | | | | | | | | | | | | | | | | | | ● | ● |
| | Automatic fan speed | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Auto restart | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Connectable fresh air duct | | | | | | | | | | | | | ○ | ● | ● | ● | | | | | ● | ● | ● | ● | | | | | | ● |
| | Fresh air intake | | | | | | | | | | | | | ○ | ○ | ○ | ○ | | ○ | ○ | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | | ○ |
| | Connectable distributing duct | | | | | | | | | | | | | | ● | ● | ● | | | | | | | ● | ● | | | | | | |
| | Individual airflow direction control | | | | | | | | | | | | | | ● | ● | | | | | | | | | | | | | | | |
| Convenient Function | Auto off timer | | ○ | ○ | ○ | | | ○ | ○ | ○ | ○ | ○ | | ○ | ○ | ● | ● | ○ | ● | ○ | ○ | ● | ● | ○ | ○ | ○ | ○ (60) | ● | ○ | ○ | ○ |
| | Sleep timer | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | ○ (60) | ○ | ● | ● | ● |
| | Program timer | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | ○ (60) | ○ | ● | ● | ● |
| | Weekly timer | | ● | ○ | ● | | | ● | ● | | | ● | | | | ● | ● | | ● | | | ● | ● | | | | | ● | | | |
| | Weekly + setback timer | | ○ | ○ | ○ | | | ○ | ○ | ○ | ○ | ○ | | ○ | ○ | | | ● | | ● | ● | | | ● | ● | ● | ● | | ○ | ○ | ○ |
| | Filter sign | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | External error output | | ○ | ○ | ○ | | | ○ | ○ | ○ | ○ | ○ | | | | ○ | ○ | | ○ | | | ○ | ○ | | | | | ○ | | | |
| | External ON/OFF input | | ○ | ○ | ○ | | | ○ | ○ | ○ | ○ | ○ | | ○ | ○ | ● | ● | ○ | ● | ○ | ○ | ● | ● | ○ | ○ | ○ | ○ | ● | ○ | ○ | ○ |
| | Wireless LAN control | ● | ○ | ○ | ○ | ○ | | ○ | ○ | ○ | ○ | ○ | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Clean Function | Plasma air clean | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Filter auto clean | ● | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Ion deodorization filter | | ○ | ○ | ● | | | ● | ● | ● | ● | ● | | | | | | | | | | | | | | | | | ● | | |
| | Apple-catechin filter | | ○ | ○ | ● | | | ● | ● | ● | ● | ● | | | | | | | | | | | | | | | | | ● | | |
| | Long life filter | | | | | | | | | | | | | | | | | | | | | ○ | ○ | ○ | ○ | | ○ (60) | ○ | ● | | |
| | Washable panel | | | | ● | ● | ● | | | ● | ● | | ● | | | | | | | | | | | | | | | | | | |
| Installation | Automatic airflow adjustment | | | | | | | | | | | | | | | | | | | | | ● | ● | | | | | ● | | | |
| | Drain pump as standard | | | | | | | | | | | | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ○ | ○ | | | ○ | | | ○ |
| | Blue fin | | | | | | | | | | ● (30) | ● | | | | ● (30/36/45/54) | ● (30/36/45/54) | ● (45/54) | | | | ● (30/36/45/54) | ● (30/36/45/54) | ● (45) | ● (45) | ● | ● | ● | | | ● (45) |

○: Optional function

## Light Commercial & Residential

# MULTI SPLIT



120 Multi Split Overview
122 Outdoor Units Lineup
124 2 – 8 Rooms Connectable Indoor Units
126 Simultaneous Multi Connectable Indoor Units
168 Feature Explanation & Summary



## Refrigerant type R32 models

**2 Rooms Multi**

128 **New** 2 Rooms Multi

**Simultaneous Multi**

136 **New** Simultaneous Multi Twin/Triple

**2 Rooms Multi Split Indoor Units**

142 **New** 2 Rooms Multi Indoor Units Specifications

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146 **New** 2 Rooms Multi Combination Table

## Refrigerant type R410A models

**2 – 8 Rooms Multi**

130 2 & 3-4 Rooms Multi
132 5-6 Rooms Multi
134 8 Rooms Multi

**Simultaneous Multi**

138 Simultaneous Multi Twin/Triple
140 Simultaneous Multi Twin/Triple/Double Twin

**2 – 8 Rooms Multi Split Indoor Units**

144 2-8 Rooms Indoor Units Specifications

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147 2-8 Rooms Multi Combination Table



## Control several indoor units with one outdoor unit. Build the system you desire.

If you want to keep a large floor as well as many rooms comfortable, we recommend to use our Multi Splits to build a compact system using just one outdoor unit. Choose from a large lineup of indoor units, which match up well to your rooms. You can mix and match them as you like. Build the system that is just right for you.



# **Multi Split** Overview

Space-saving multi outdoor units can connect up to 8 indoor units in multiple rooms.
New refrigerant R32 models are additionally added. Multi split type can be introduced in
various situations like in homes, in offices and stores to provide environment-friendly comfort.











NEW

## 2 Rooms Multi



14 class 18 class

## 2-8 Rooms Multi

2-8 Rooms Multi type units are recommended for situations that require air conditioning in multiple rooms such as in family house or offices. Between 2 to 8 indoor units can be connected and individually operated. A variation of individual and central remote controller are available for operation control, time scheduling of each room and energy savings. Due to space - saving outdoor unit enables installation on balcony or under a waist-high window.

### 2 & 3-4 Rooms Multi



2 Rooms 14/18 class



3 Rooms 18/24 class

4 Rooms 30 class

### 5-6 Rooms Multi



36/45 class

### 8 Rooms Multi



45 class

### Twin/Triple



36/45/54 class
(Single phase/3 phase)

### Twin/Triple/ Double Twin



72/90 class
(3 phase)

NEW

## Twin/Triple



Twin 36 class
(Single phase)

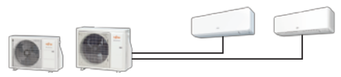
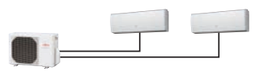
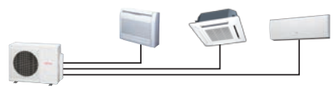
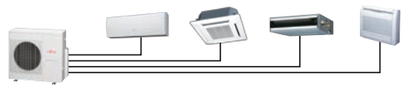
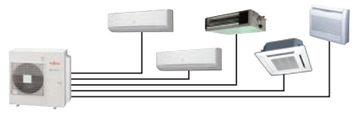
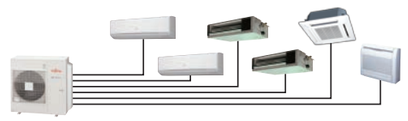
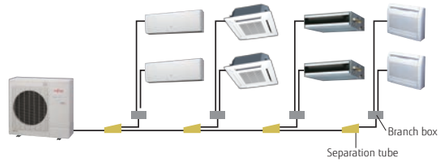
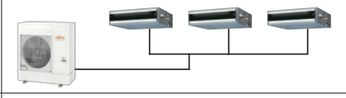
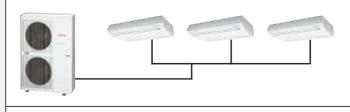
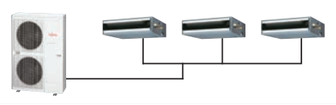
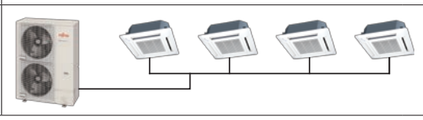


Twin/Triple 45/54 class
(Single phase)

## Simultaneous Multi

Simultaneous Multi type is recommended for situations where multiple indoor units need to be operated simultaneously such as for a small building, for small office building entrance, meeting room, educational facility hall, and other large spaces. Up to 4 indoor units can be operated simultaneously. This type is suitable for office spaces with large areas and properties with unusual floor layout.

# Outdoor Units Lineup

| | | | Class | 14 | 18 | 18 | 24 | 30 | 36 | 45 | | 54 | 72 | 90 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling rated capacity(kW) | 4 | 5 | 5.4 | 6.8 | 8 | 10 | 12.5 | 14 | 14 | 19 | 22 |
| 2 & 3-4 Rooms Multi | 2 Rooms Multi Up to 2 units | R32 |  NEW | AOYG14KBTA2 | AOYG18KBTA2 | | | | | | | | | |
| | | R410A |  | AOYG14LAC2 | AOYG18LAC2 | | | | | | | | | |
| | 3 Rooms Multi Up to 3 units | R410A |  | | | AOYG18LAT3* | AOYG24LAT3* | | | | | | | |
| | 4 Rooms Multi Up to 4 units | |  | | | | | AOYG30LAT4* | | | | | | |
| 5-6 Rooms Multi | 5 Rooms Multi Up to 5 units | R410A |  | | | | | | AOYG36LBLA5* | | | | | |
| | 6 Rooms Multi Up to 6 units | |  | | | | | | | AOYG45LBLA6* | | | | |
| 8 Rooms Multi Up to 8 units | | R410A |   | | | | | | | | AOYG45LBT8* | | | |
| Simultaneous Multi | Twin Single phase | R32 |  NEW | | | | | | AOYG36KBTB | AOYG45KBTB | | | | |
| | Twin/Triple Single phase | R32 |  NEW | | | | | | | | | AOYG54KBTB | | |
| | Twin/Triple Single phase | R410A |  | | | | | | AOYG36LBTB | AOYG45LBTB*1 | | AOYG54LBTB*2 | | |
| | Twin/Triple 3 phase | |  | | | | | | AOYG36LATT | AOYG45LATT | | AOYG54LATT | | |
| | Twin/Triple/ Double Twin 3 phase | R410A |  | | | | | | | | | | AOYG72LRLA | AOYG90LRLA |

Note: **1. 2 Rooms Multi:** Connectable indoor units are 2 units.
AOYG14KBTA2: Total capacity of indoor units connected must be between 4.0 kW and 6.0 kW.
AOYG18KBTA2: Total capacity of indoor units connected must be between 4.0 kW and 7.5kW.
AOYG14LAC2: Total capacity of indoor units connected must be between 4.0 kW and 6.0 kW.
AOYG18LAC2: Total capacity of indoor units connected must be between 4.0 kW and 7.0 kW.

**2. 3 Rooms Multi:** Connectable indoor units are 2 to 3 units.
AOYG18LAT3: Total capacity of indoor units connected must be between 4.0 kW and 8.5 kW.
AOYG24LAT3: Total capacity of indoor units connected must be between 4.0 kW and 10.5 kW.

**3. 4 Rooms Multi:** Connectable indoor units are 3 to 4 units.
AOYG30LAT4: Total capacity of indoor units connected must be between 7.5 kW and 14.0 kW.

**4. 5 Rooms Multi:** Connectable indoor units are 2 to 5 units
AOYG36LBLA5: Total capacity of indoor units connected must be between 7.5 kW and 15.5 kW.

**5. 6 Rooms Multi:** Connectable indoor units are 2 to 6 units
AOYG45LBLA6 Total capacity of indoor units connected must be between 9.5 kW and 18.0 kW.

**6. 8 Rooms Multi:** Connectable indoor units are 2 to 8 units
AOYG45LBT8: Total capacity of indoor units connected must be between 11.0 kW and 18.0 kW.

EUROVENT CERTIFIED PERFORMANCE www.eurovent-certification.com

FUJITSU GENERAL (Euro) GmbH participates in the ECP programme for AIR CONDITIONERS. Check ongoing validity of certificate: www.eurovent-certification.com

* Models so marked are not ECC certified.

# **2 – 8 Rooms** Connectable Indoor Units

REFRIGERANT R32

| Type | | 2 Rooms | |
|---|---|---|---|
| Model name | | AOYG14KBTA2 | AOYG18KBTA2 |
| Multi Split Outdoor Unit | |  |  |
| Capacity (kW) | Cooling | 4.0 | 5.0 |
| | Heating | 4.4 | 5.6 |

| Indoor Unit | BTU | kW Class | | |
|---|---|---|---|---|
|  ASYG07/09/12/14KGTB<br> ASYG07/09/12/14KMTB | 7,000 | 2.0 | ● | ● |
| | 9,000 | 2.5 | ● | ● |
| | 12,000 | 3.5 | ● | ● |
| | 14,000 | 4.0 | – | ● |
|  AUXG07/09/12/14KVLA | 7,000 | 2.0 | ● | ● |
| | 9,000 | 2.5 | ● | ● |
| | 12,000 | 3.5 | ● | ● |
| | 14,000 | 4.0 | – | ● |
|  ARXG07/09/12/14KSLAP | 7,000 | 2.0 | ● | ● |
| | 9,000 | 2.5 | ● | ● |
| | 12,000 | 3.5 | ● | ● |
| | 14,000 | 4.0 | – | ● |
|  ARXG07/09/12/14KLLAP | 7,000 | 2.0 | ● | ● |
| | 9,000 | 2.5 | ● | ● |
| | 12,000 | 3.5 | ● | ● |
| | 14,000 | 4.0 | – | ● |

REFRIGERANT R410A

| Type | | 2 Rooms | | 3 Rooms | | 4 Rooms | 5 Rooms | 6 Rooms | 8 Rooms |
|---|---|---|---|---|---|---|---|---|---|
| Model name | | AOYG 14LAC2 | AOYG 18LAC2 | AOYG 18LAT3 | AOY G24LAT3 | AOYG30LAT4 | AOYG36LBLA5 | AOYG45LBLA6 | AOYG45LBT8 |
| Multi Split Outdoor Unit | |  | |  | |  |  |  |  (Branch Box) |
| Capacity (kW) | Cooling | 4.0 | 5.0 | 5.4 | 6.8 | 8.0 | 10.0 | 12.5 | 14.0 |
| | Heating | 4.4 | 5.6 | 6.8 | 8.0 | 9.6 | 12.0 | 13.5 | 16.0 |

| Indoor Unit | BTU | kW Class | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
|  ASYG07/09/12/14LMCE | 7,000 | 2.0 | ● | ● | ● | ● | ● | ● | ● | ● |
| | 9,000 | 2.5 | ● | ● | ● | ● | ● | ● | ● | ● |
|  ASYG07/09/12/14LUCA | 12,000 | 3.5 | ● | ● | ● | ● | ● | ● | ● | ● |
| | 14,000 | 4.0 | – | ● | ● | ● | ● | ● | ● | ● |
|  ASYG18/24LF | 18,000 | 5.0 | – | – | – | ● | ● | ● | ● | ● |
| | 24,000 | 7.0 | – | – | – | – | ● | – | ● | ● |
|  AGYG09/12/14LV | 9,000 | 2.5 | – | ● | ● | ● | ● | ● | ● | ● |
| | 12,000 | 3.5 | – | ● | ● | ● | ● | ● | ● | ● |
| | 14,000 | 4.0 | – | – | ● | ● | ● | ● | ● | ● |
|  AUYG07/09/12/14/18LV | 7,000 | 2.0 | – | ● | ● | ● | ● | ● | ● | ● |
| | 9,000 | 2.5 | – | ● | ● | ● | ● | ● | ● | ● |
| | 12,000 | 3.5 | – | ● | ● | ● | ● | ● | ● | ● |
| | 14,000 | 4.0 | – | – | ● | ● | ● | ● | ● | ● |
| | 18,000 | 5.0 | – | – | – | ● | ● | ● | ● | ● |
|  ABYG14/18LV | 14,000 | 4.0 | – | – | ● | ● | ● | ● | ● | ● |
| | 18,000 | 5.0 | – | – | – | ● | ● | ● | ● | ● |
|  ARYG07/09/12/14/18LSLAP | 7,000 | 2.0 | – | ● | ● | ● | ● | ● | ● | – |
| | 9,000 | 2.5 | – | ● | ● | ● | ● | ● | ● | – |
| | 12,000 | 3.5 | – | ● | ● | ● | ● | ● | ● | – |
| | 14,000 | 4.0 | – | – | ● | ● | ● | ● | ● | – |
| | 18,000 | 5.0 | – | – | – | ● | ● | ● | ● | – |
|  ARYG07/09/12/14/18LL | 7,000 | 2.0 | – | ● | ● | ● | ● | ● | ● | ● |
| | 9,000 | 2.5 | – | ● | ● | ● | ● | ● | ● | ● |
| | 12,000 | 3.5 | – | ● | ● | ● | ● | ● | ● | ● |
| | 14,000 | 4.0 | – | – | ● | ● | ● | ● | ● | ● |
| | 18,000 | 5.0 | – | – | – | ● | ● | ● | ● | ● |

# **Simultaneous Multi** Connectable Indoor Units

REFRIGERANT R32

| Type | | 4HP | 5HP | 6HP | |
|---|---|---|---|---|---|
| Model name | | AOYG36KBTB | AOYG45KBTB | AOYG54KBTB | |
| Simultaneous Multi Outdoor Unit | |  | |  | |
| Capacity (kW) | Cooling | 9.5 | 12.1 | 13.4 | 13.4 |
| | Heating | 10.8 | 13.5 | 15.5 | 15.5 |

| Indoor Unit | BTU | kW Class | Twin | | | Triple |
|---|---|---|---|---|---|---|
|  AUXG18/22/24KVLA | 18,000 | 5.0 | ● ×2 | – | – | ● ×3 |
| | 22,000 | 6.5 | – | ● ×2 | – | – |
| | 24,000 | 7.0 | – | – | ● ×2 | – |
|  ARXG18KLLAP | 18,000 | 5.0 | ● ×2 | – | – | ● ×3 |
|  ARXG22/24KMLA | 22,000 | 6.5 | – | ● ×2 | – | – |
| | 24,000 | 7.0 | – | – | ● ×2 | – |
| Separation tube | | | UTP-SX236A (18/22/24) | | | UTP-SX354A (18) |

REFRIGERANT R410A

| Type | | 4HP | | 5HP | | 6HP | | 8HP | 10HP |
|---|---|---|---|---|---|---|---|---|---|
| Model name | | AOYG36LBTB | AOYG36LATT | AOYG45LBTB | AOYG45LATT | AOYG54LBTB | AOYG54LATT | AOYG72LRLA | AOYG90LRLA |
| Simultaneous Multi Outdoor Unit | |  | |  | |  | |  |  |
| Capacity (kW) | Cooling | 10.0 | | 12.1 | 12.5 | 13.3 | 14.0 | 19.0 | 22.0 |
| | Heating | 11.2 | | 14.0 | 14.0 | 15.0 | 16.0 | 22.4 | 27.0 |

| Indoor Unit | BTU | kW Class | Twin | | | Triple | Twin | Triple | Double Twin | Twin | Triple | Double Twin |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  AUYG18/22/24LV | 18,000 | 5.0 | ● ×2 | – | – | ● ×3 | – | – | ● ×4 | – | – | – |
| | 22,000 | 6.5 | – | ● ×2 | – | – | – | – | – | – | – | ● ×4 |
| | 24,000 | 7.0 | – | – | ● ×2 | – | – | ● ×3 | – | – | – | – |
|  AUYG30/36/45LR | 30,000 | 8.8 | – | – | – | – | – | – | – | – | ● ×3 | – |
| | 36,000 | 10.6 | – | – | – | – | ● ×2 | – | – | – | – | – |
| | 45,000 | 12.5 | – | – | – | – | – | – | – | ● ×2 | – | – |
|  ARYG18LL | 18,000 | 5.0 | ● ×2 | – | – | ● ×3 | – | – | ● ×4 | – | – | – |
|  ARYG22/24/ 30/36/45LM | 22,000 | 6.5 | – | ● ×2 | – | – | – | – | – | – | – | ● ×4 |
| | 24,000 | 7.0 | – | – | ● ×2 | – | – | ● ×3 | – | – | – | – |
| | 30,000 | 8.8 | – | – | – | – | – | – | – | – | ● ×3 | – |
| | 36,000 | 10.6 | – | – | – | – | ● ×2 | – | – | – | – | – |
| | 45,000 | 12.5 | – | – | – | – | – | – | – | ● ×2 | – | – |
|  ABYG/18/22/24LV | 18,000 | 5.0 | ● ×2 | – | – | ● ×3 | – | – | ● ×4 | – | – | – |
| | 22,000 | 6.5 | – | ● ×2 | – | – | – | – | – | – | – | ● ×4 |
| | 24,000 | 7.0 | – | – | ● ×2 | – | – | ● ×3 | – | – | – | – |
|  ABYG30/36/45LR | 30,000 | 8.8 | – | – | – | – | – | – | – | – | ● ×3 | – |
| | 36,000 | 10.6 | – | – | – | – | ● ×2 | – | – | – | – | – |
| | 45,000 | 12.5 | – | – | – | – | – | – | – | ● ×2 | – | – |
| Separation tube | | | UTP-SX236A ×1 | UTP-SX254A ×1 | UTP-SX254 ×1 | UTP-SX354A ×1 | UTP-SX272A ×1 | UTP-SX372A ×1 | UTP-SX272A x 1, UTP-SX236A x 2 | UTP-SX272A ×1 | UTP-SX372A ×1 | UTP-SX272A ×1, UTP-SX254A ×2 |

NEW

# 2 Rooms Multi



ALL DC

## High energy saving

DC technology is used for compressor, indoor / outdoor fan motor and inverter controlling.

Rank
Cooling A+++
Heating A++

SEER 8.7 *1

SCOP 4.7

*1: 14 model




## Wide range of indoor units with various models

4 types / 16 models are lined up in the capacity range from 2.0 kW to 4.0 kW class. Wide range of requirements can be realized from in private homes, large shops and hotels.



### Models equipped with the New R32 Refrigerant

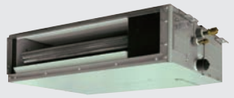
Wall mounted type with sophisticated design



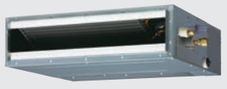
Middle and small capacity models are available. This makes it easier to install at small spaces.



Compact Cassette



Mini Duct



Slim Duct





**2 Rooms: AOYG14KBTA2 / AOYG18KBTA2**



14 18

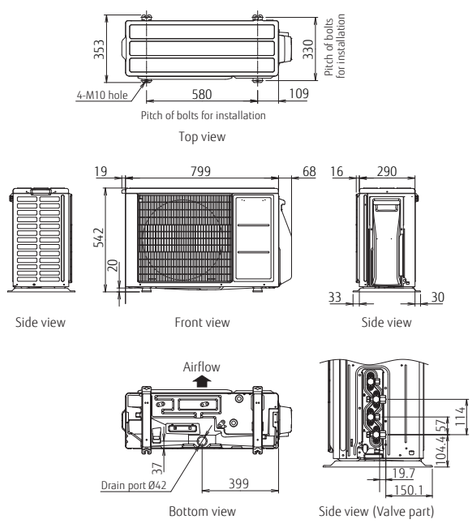
## Specifications

| Model No. | | | | AOYG14KBTA2 | AOYG18KBTA2 |
|---|---|---|---|---|---|
| Power Source | | | | Single-phase, ~230V, 50Hz | |
| Rated Capacity (min-max) | Cooling | | kW | 4.0 (1.4-4.6) | 5.0 (1.7-5.8) |
| | Heating | | | 4.4 (1.1-5.5) | 5.6 (1.8-7.0) |
| EER | Cooling | | W/W | 4.12 | 4.03 |
| COP | Heating | | | 4.63 | 4.59 |
| Sound Pressure Level (High) | Cooling | | dB(A) | 47 | 47 |
| | Heating | | | 49 | 50 |
| Sound Power Level (High) | Cooling | | | 60 | 60 |
| | Heating | | | 62 | 62 |
| Airflow Rate | Cooling/Heating | | $m^3/h$ | 1,670/1,670 | 1,960/2,020 |
| Net Dimensions H × W × D | | | mm | 542×799×290 | 632×799×290 |
| Weight | | | kg(lbs) | 33 (73) | 37 (82) |
| Connection Pipe Diameter | Liquid | | mm | 6.35×2 | 6.35×2 |
| | Gas | | | 9.53 × 2 | 9.53 × 2 |
| Max. Pipe Length | Total / Each | | m | 30 / 20 | 30 / 20 |
| Max. Height Difference | Between Outdoor Unit and Each Indoor Units. | | | 15 | 15 |
| | Between Indoor Units. | | | 10 | 10 |
| Operation Range | Cooling | | °CDB | -10 to 46 | -10 to 46 |
| | Heating | | | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R32 (675) | R32 (675) |
| | Charge | kg(CO2eq-T) | | 0.9 (0.574) | 1.02 (0.689) |

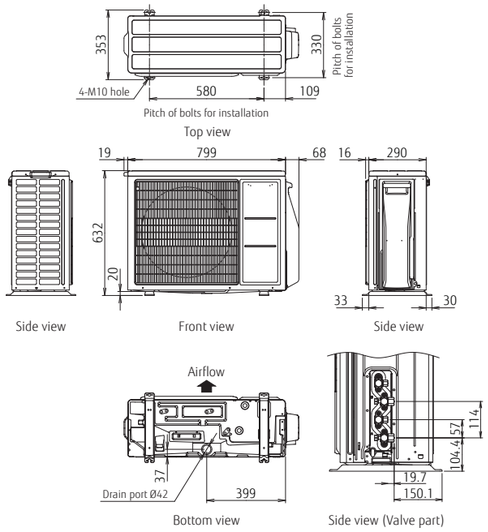
## Dimensions

(Unit : mm)

### AOYG14KBTA2




### AOYG18KBTA2



# 2 & 3-4 Rooms Multi

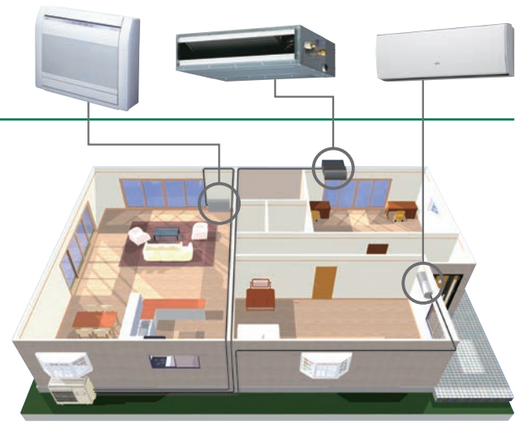
REFRIGERANT R410A



ALL DC

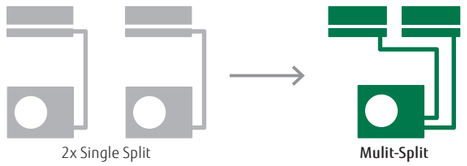
## Wide range of indoor units with various models

4 types / 16 models are lined up in the capacity range from 2.0 kW to 4.0 kW class. Wide range of requirements can be realized from in private homes, large shops and hotels.



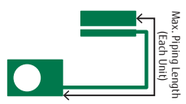
## Space-saving installation

Multiple indoor units can be connected to 1 outdoor unit, and long piping connection is also possible. Compared with single type, the outdoor unit can be installed in various places to realize the space-saving installation.

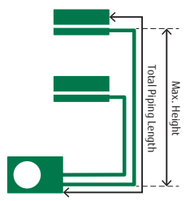



## Flexible installation

Up to max. piping length of 70 m (AOYG30LAT4), max. height difference of 15 m can be supported. Multi type can be installed in large-size residence or buildings with multiple floors.




**Max. Piping Length (Each Unit):**
**20 m:** AOYG14LAC2,18LAC2,
**25 m:** AOYG18LAT3/24LAT3/30LAT4




**Max. Height:**
**15 m:** AOYG14LAC2/18LAC2/18LAT3/24LAT3/30LAT4

**Total Piping Length:**
**30 m:** AOYG14LAC2/18LAC2,
**50 m:** AOYG18LAT3/24LAT3,
**70 m:** AOYG30LAT4



REFRIGERANT R410A

**2 Rooms: AOYG14LAC2 / AOYG18LAC2**
**3 Rooms: AOYG18LAT3 / AOYG24LAT3**
**4 Rooms: AOYG30LAT4**




## Specifications (2 Rooms, 3 Rooms, 4 Rooms)

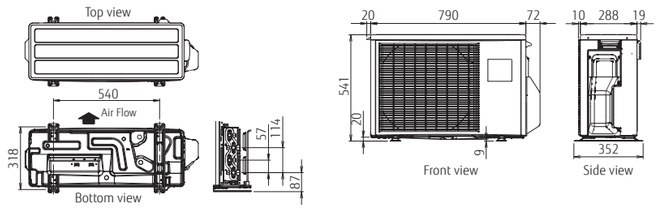
| Model No. | | | AOYG14LAC2 | AOYG18LAC2 | AOYG18LAT3 | AOYG24LAT3 | AOYG30LAT4 |
|---|---|---|---|---|---|---|---|
| Power Source | | | Single-phase, ~230V, 50Hz | | | | |
| Rated Capacity (min-max) | Cooling | kW | 4.0 (1.4-4.4) | 5.0 (1.7-5.6) | 5.4 (1.8-6.8) | 6.8 (1.8-8.5) | 8.0 (3.5-10.1) |
| | Heating | | 4.4 (1.1-5.4) | 5.6 (1.8-6.1) | 6.8 (2.0-8.0) | 8.0 (2.0-9.2) | 9.6 (3.7-12.0) |
| EER | Cooling | W/W | 3.67 | 3.21 | 4.00 | 3.51 | 3.60 |
| COP | Heating | | 4.27 | 3.97 | 4.20 | 4.00 | 4.00 |
| Sound Pressure Level (High) | Cooling | dB(A) | 47 | 50 | 46 | 48 | 50 |
| | Heating | | 49 | 51 | 47 | 49 | 51 |
| Sound Power Level (High) | Cooling | | 61 | 63 | 65 | 68 | 68 |
| | Heating | | 63 | 64 | 67 | 70 | 70 |
| Airflow Rate | Cooling/Heating | $m^3/h$ | 1,850/1,850 | 2,050/2,050 | 3,050/2,750 | 3,300/3,300 | 3,500/3,300 |
| Net Dimensions H × W × D | | mm | 540×790×290 | 540×790×290 | 700×900×330 | 700×900×330 | 830×900×330 |
| Weight | | kg(lbs) | 37 (82) | 38 (84) | 55 (121) | 55 (121) | 68 (150) |
| Connection Pipe Diameter | Liquid | mm | 6.35×2 | 6.35×2 | 6.35×3 | 6.35×3 | 6.35×4 (*6.35×3, 9.52) |
| | Gas | | 9.52 × 2 | 9.52 × 2 *(9.52, 12.70) | 9.52 × 2, 12.70 *(9.52 × 3) | 9.52 × 2, 12.70 *(9.52 × 3) | 9.52 × 2, 12.70 × 2 *(9.52 × 3, 12.70) *(9.52 × 2, 12.70, 15.88) |
| Max. Pipe Length | Total / Each | m | 30 / 20 | 30 / 20 | 50 / 25 | 50 / 25 | 70 / 25 |
| Max. Height Difference | Between Outdoor Unit and Each Indoor Units. | | 15 | 15 | 15 | 15 | 15 |
| | Between Indoor Units. | | 10 | 10 | 10 | 10 | 10 |
| Operation Range | Cooling | °CDB | 10 to 46 | 10 to 46 | -10 to 46 | -10 to 46 | 0 to 46 |
| | Heating | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -10 to 24 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg(CO2eq-T) | 1.25 (2.6) | 1.30 (2.7) | 2.20 (4.6) | 2.20 (4.6) | 3.30 (6.9) |

* Connect to connection valve by the adapter.

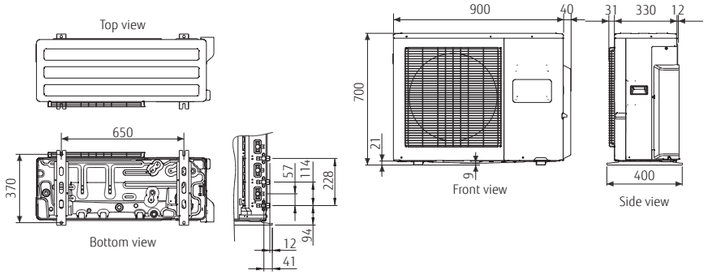
## Dimensions

(Unit : mm)

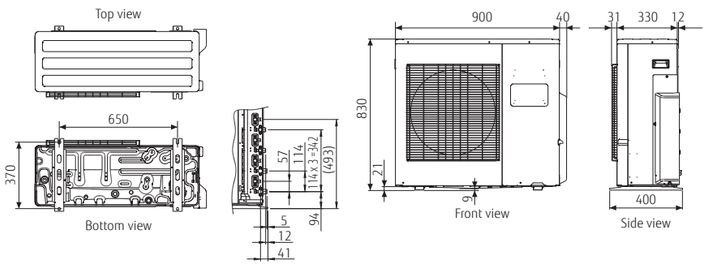
**2 Rooms:**
**AOYG14LAC2/AOYG18LAC2**




**3 Rooms:**
**AOYG18LAT3/AOYG24LAT3**




**4 Rooms:**
**AOYG30LAT4**



# 5 – 6 Rooms Multi



REFRIGERANT R410A

ALL DC

## Wide range of indoor units with various models

4 types / 16 models are lined up in the capacity range from 2.0 kW to 4.0 kW class. Wide range of requirements can be realized from in private homes, large shops and hotels.















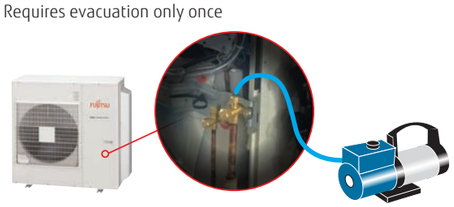
## Compact design

Multiple indoor units can be connected to 1 outdoor unit, and long piping connection is also possible.
Compared with single type, the outdoor unit can be installed in various places to realize the space-saving installation.




## Easy installation

All connected pipes and indoor units can be evacuated quickly via our centralized valve method.
Requires evacuation only once



## Central & Individual Control

- Batched control of up to 8 indoor units. The temperature, airflow volume, and remote control prohibition settings of all indoor units can be batched.
- Corresponds to 9 different languages (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)
- Large backlight LED screen
- Large easy-to-see operation panel

Max. Controllable
1 multi system

Max. Controllable
8 indoor units







**5 Rooms: AOYG36LBLA5**
**6 Rooms: AOYG45LBLA6**

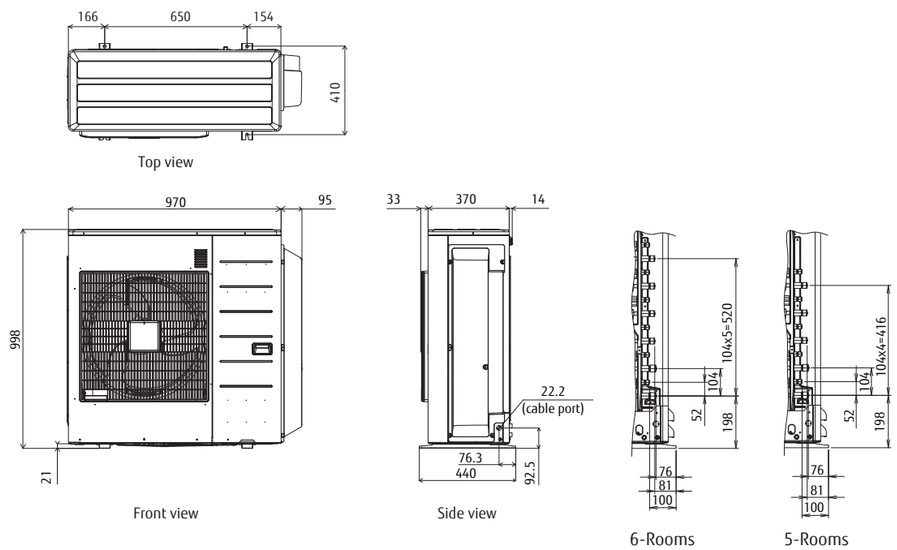


## Specifications (5 Rooms, 6 Rooms)

| Model No. | | | AOYG36LBLA5 | AOYG45LBLA6 |
|---|---|---|---|---|
| Power Source | | | Single-phase, ~230V, 50Hz | |
| Rated Capacity (min-max) | Cooling | kW | 10.0 (3.5-12.5) | 12.5 (3.5-14.0) |
| | Heating | | 12.0 (3.5-14.0) | 13.5 (3.5-16.0) |
| EER | Cooling | W/W | 4.10 | 3.50 |
| COP | Heating | | 4.30 | 4.00 |
| Sound Pressure Level (High) | Cooling | dB(A) | 53 | 53 |
| | Heating | | 55 | 55 |
| Sound Power Level (High) | Cooling | | 67 | 67 |
| | Heating | | 68 | 68 |
| Airflow Rate | Cooling/Heating | $m^3/h$ | 4,200/4,200 | 4,200/4,200 |
| Net Dimensions H × W × D | | mm | 998×970×370 | 998×970×370 |
| Weight | | kg(lbs) | 94 (207) | 94 (207) |
| Connection Pipe Diameter | Liquid | mm | 6.35×5 | 6.35×6 |
| | Gas | | 9.52 × 3, 12.70 × 2 | 9.52 × 4, 12.70 × 2 |
| Max. Pipe Length | Total / Each | m | 80 / 25 | 80 / 25 |
| Max. Height Difference | Between Outdoor Unit and Each Indoor Units. | | 15 | 15 |
| | Between Indoor Units. | | 10 | 10 |
| Operation Range | Cooling | °CDB | -10 to 46 | -10 to 46 |
| | Heating | | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) |
| | Charge | kg(CO2eq-T) | 4.00 (8.4) | 4.00 (8.4) |

## Dimensions

(Unit : mm)



# 8 Rooms Multi



REFRIGERANT R410A

ALL DC

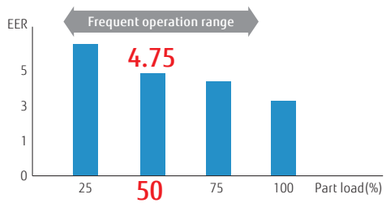
## Compact outdoor unit

The compact design outdoor unit allows to be installed below a window and in a narrow space.




## High seasonal efficiency

The actual performance is conducted under various outside temperatures depending on weather and seasons, furthermore, especially for multi system, not all the rooms are operated all the time. So over 90% of actual operation time, air conditioners are operated at partial capacity instead of rated capacity. Considering these, we focused on energy-saving performance which is based on actual use. Efficiency of part load performance was drastically improved by developing ALL DC and our own inverter system.




## Innovated technology



**High efficiency large fan:**
High efficiency fan is mounted.



**DC fan motor:**
High performance and high efficiency has been realized by using a small DC fan motor.



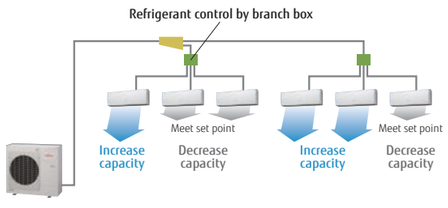
**Heat exchanger:**
Reduced compact size and energy saving has been realized by utilizing high density piping design and 3-Row heat exchanger.



**High efficiency DC twin rotary compressor:**
A high performance, low noise, large capacity DC twin rotary compressor is used.

## Quick comfort by optimized refrigerant control

Every room meets the set point most quickly and comfortably by optimized refrigerant control.








### 8 Rooms: AOYG45LBT8

**Branch Box:** UTP-PY03A / UTP-PY02A



3 zones type



2 zones type



## Specifications (Outdoor unit/Branch box)

| Outdoor Unit Model Name | | | AOYG45LBT8 |
|---|---|---|---|
| Maximum Connectable Indoor Unit | | | 8 |
| Indoor Unit Connectable Capacity | Cooling | kW | 11.0 - 17.5 |
| Power source | | | Single-phase, ~230V, 50Hz |
| Rated Capacity | Cooling | kW | 14.0 |
| | Heating | | 16.0 |
| Input Power | Cooling | kW | 5.20 |
| | Heating | | 5.07 |
| Airflow rate | Cooling | $m^3/h$ | 4,650 |
| | Heating | | 4,800 |
| Sound Pressure Level | Cooling | dB(A) | 56 |
| | Heating | | 58 |
| Heat Exchanger Fin | | | Plate fin coil |
| Net Dimensions H × W × D | | mm | 914×970×370 |
| Weight | | kg(lbs) | 98 (217) |
| Connection Pipe Diameter (Liquid / Gas) | | mm | 9.52/15.88 |
| Max Pipe Length | | m | 115 (Total) |
| Max Height Difference (O.U ~ I.U) | | | 30 |
| Operating Range | Cooling | °CDB | -5 to 46 |
| | Heating | | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) |
| | Charge | kg(CO2eq-T) | 3.45 (7.2) |

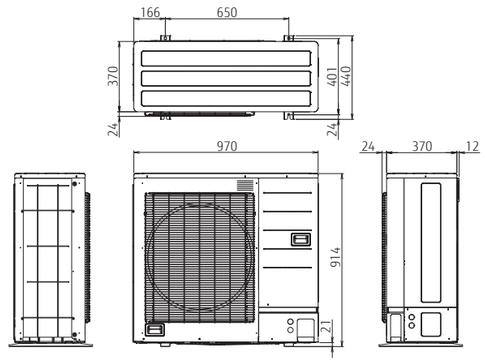
| Branch Box Model Name | | | UTP-PY03A | UTP-PY02A |
|---|---|---|---|---|
| Connectable Indoor Unit | | | 1 to 3 Units | 1 to 2 Units |
| Power source | | | Single-phase, ~230V, 50Hz | Single-phase, ~230V, 50Hz |
| Available Voltage Range | | | 198-264V | 198-264V |
| Power Consumption | | W | 10 | 10 |
| Running Current | | A | 0.05 | 0.05 |
| Net Dimensions H × W × D | | mm | 195×433×370 | 195×433×370 |
| Weight | | kg(lbs) | 9 (20) | 9 (20) |
| Connection pipe diameter | Liquid | °CDB | Main: 9.52×1, Branch:6.35×3 | Main: 9.52×1, Branch:6.35×2 |
| | Gas | | Main: 15.88×1, Branch:12.70×3 | Main: 15.88×1, Branch:12.70×2 |
| | Method | | Flare | Flare |

Note: Specifications are based on the following conditions.
- In case of connecting two indoor units(7 kW class).
- These are the measured values in the manufacturer`s anechoic chamber.
- Cooling: Indoor temp. of 27°CDB/19°CWB, outdoor temp. of 35°CDB/24°CWB Heating: Indoor temp. of 20°CDB/15°CWB, outdoor temp. of 7°CDB/6°CWB
  Pipe length: 5 m (Outdoor unit - Branch box), 3 m (Branch box - Indoor unit) Height difference : 0 m

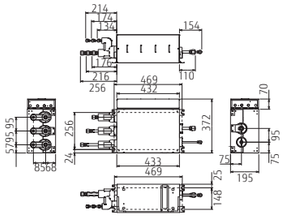
### Dimensions

(Unit : mm)

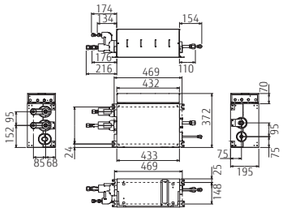
**Outdoor Unit:**
**AOYG45LBT8**




**Branch Box :**
**UTP-PY03A (3 branches type)**




**Branch Box :**
**UTP-PY02A (2 branches type)**



NEW

# Simultaneous Multi

## Twin/Triple

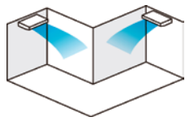


ALL DC

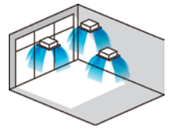
## Supports various installation scenes from office to commercial space, inside the same room and multi connection of up to 3 indoor units.

Selection of indoor units according to the room shape and heat load, like number of people and lighting conditions.
Most comfortable air flow distribution can be realized.

Installation according to floor layout



Installation according to lighting conditions



## Design flexibility

**Slim & Compact design**
This model is much more compact than a conventional outdoor unit. Significant reduced height of the product supports installations in narrow spaces.

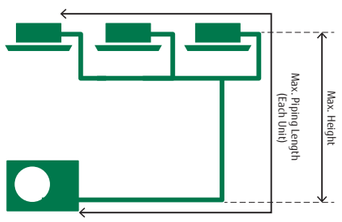



Current model

New 45/54 models

## Flexible installation

Up to max. piping length of 50 m, max. height difference of 30 m can be supported. Multi type can be installed in large-size residence or buildings with multiple floors.




Max. Piping Length (Each Unit): **50 m**

Max. Height: **30 m**

## New Indoor unit lineup

3 types 6 models indoor units are provided, so you can select them depending on your room size and conditions.



Compact Cassette



Slim Duct



Duct





**Model: AOYG36KBTB / AOYG45KBTB / AOYG54KBTB**



36



45/54

## Specifications (Indoor units/Outdoor units)

| Indoor Units Model No. | | | | Compact Cassette | | |
|---|---|---|---|---|---|---|
| | | | | AUXG18KVLA | AUXG22KVLA | AUXG24KVLA |
| Power Source | | | | Single-phase, ~230V, 50Hz | | |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 680/580/490/410 | 830/740/600/450 | 930/830/600/450 |
| | Heating | H/M/L/Q | | 800/680/580/450 | 860/760/700/530 | 930/850/700/530 |
| Net Dimension H × W × D | | | mm | 245x570x570 | 245x570x570 | 245x570x570 |
| Weight | | | kg(lbs) | 15 (33) | 16 (35) | 16 (35) |
| Cassette Grille | | | | UTG-UFYF-W | UTG-UFYF-W | UTG-UFYF-W |

| Indoor Units Model No. | | | | Duct | | |
|---|---|---|---|---|---|---|
| | | | | ARXG18KLLAP | ARXG22KMLA | ARXG24KMLA |
| Power Source | | | | Single-phase, ~230V, 50Hz | | |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 940/880/820/750 | 1,100/910/750/580 | 1,100/910/750/580 |
| | Heating | H/M/L/Q | | 940/880/820/750 | 1,100/910/750/580 | 1,100/910/750/580 |
| Net Dimension H × W × D | | | mm | 198x900x620 | 270x1,135x700 | 270x1,135x700 |
| Weight | | | kg(lbs) | 20 (44) | 35 (77) | 35 (77) |

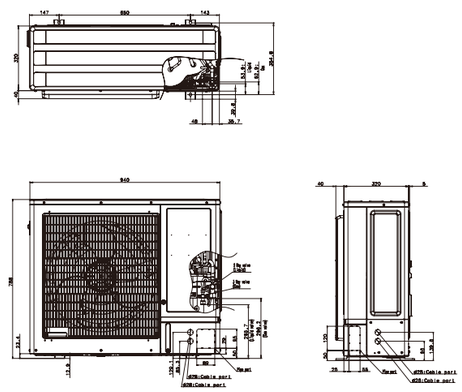
| Outdoor Units Model No. | | | AOYG36KBTB | AOYG45KBTB | AOYG54KBTB |
|---|---|---|---|---|---|
| Capacity | Cooling | kW | 9.5 | 12.1 | 13.4 |
| | Heating | | 10.8 | 13.5 | 15.5 |
| Power Source | | | Single-phase, ~230V, 50Hz | | |
| Pdesign | Cooling | kW | – | – | – |
| | Heating (-10°C) | | 8.7 | 9.2 | 9.5 |
| SEER | Cooling | W/W | 6.10 | – | – |
| SCOP | Heating | | 4.00 | – | – |
| Annual Energy Consumption | Cooling | kWh/a | 545 | – | – |
| | Heating | | 3,043 | – | – |
| Energy Efficiency Class | Cooling | | A++ | – | – |
| | Heating | | A+ | – | – |
| Sound Pressure Level (High) | Cooling | dB(A) | 55 | 57 | 57 |
| | Heating | | 55 | 57 | 59 |
| Sound Power Level (High) | Cooling | | 70 | 71 | 73 |
| | Heating | | 70 | 71 | 73 |
| Airflow Rate | Cooling / Heating | $m^3/h$ | 3,750/3,750 | 4,450/4,450 | 4,450/4,450 |
| Net Dimension H × W × D | | mm | 788x940x320 | 998x940x320 | 998x940x320 |
| Weight | | kg(lbs) | 52 (115) | 67 (148) | 67 (148) |
| Connection Pipe Diameter (Liquid / Gas) | | mm | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 |
| Max Pipe Length (Pre-Charge) | | m | 50 (30) | 50 (30) | 50 (30) |
| Height Difference | | | 30 | 30 | 30 |
| Operation Range | Cooling | °CDB | -15 to 46 | -15 to 46 | -15 to 46 |
| | Heating | | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | R32 (675) | R32 (675) | R32 (675) |
| | Charge | kg(CO2eq-T) | 1.90(1.283) | 2.70(1.823) | 2.70(1.823) |
| Separation tube | | | UTP-SX236A (Twin) | UTP-SX236A (Twin) | UTP-SX236A (Twin)<br>UTP-SX354A (Triple) |

• Different type and capacity indoor units cannot be connected.
• The above table is the value for connecting with cassette type.

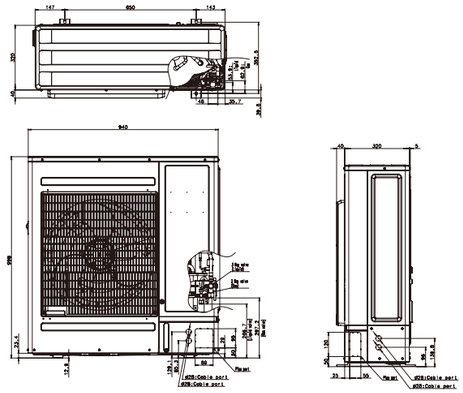
## Dimensions

(Unit : mm)

**AOYG36KBTB**



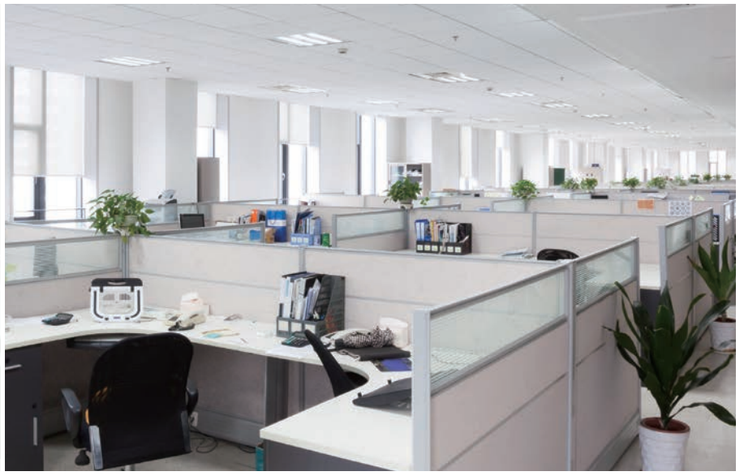
**AOYG45KBTB / AOYG54KBTB**



# Simultaneous Multi

## Twin/Triple

REFRIGERANT R410A



ALL DC

## Supports various installation scenes from office to commercial space, inside the same room and multi connection of up to 3 indoor units.

Selection of indoor units according to the room shape and heat load, like number of people and lighting conditions.
Most comfortable air flow distribution can be realized.

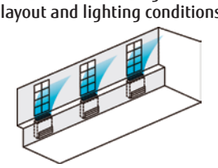
**Installation according to floor layout**



**Installation according to lighting conditions**

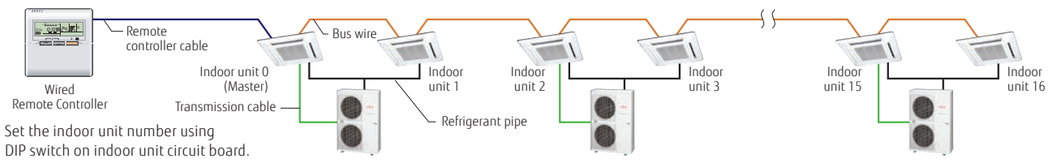


**Installation according to layout and lighting conditions**



## Simultaneous control

Max 16 indoor units are simultaneously controlled with a wired remote controller.




Set the indoor unit number using DIP switch on indoor unit circuit board.

## Indoor unit lineup

4 types 9 models indoor units are provided, so you can select them depending on your room size and conditions.



**Compact Cassette**



**Slim Duct**



**Duct**



**Floor/Ceiling Universal**





**Model : AOYG36LBTB / AOYG45LBTB / AOYG54LBTB**
**AOYG36LATT [3phase] / AOYG45LATT [3phase] / AOYG54LATT [3phase]**



### Specifications (Indoor units/Outdoor units)

| Indoor Units Model No. | | | | Compact Cassette | | |
|---|---|---|---|---|---|---|
| | | | | AUYG18LVLB | AUYG22LVLA | AUYG24LVLA |
| Power Source | | | | Single-phase, ~230V, 50Hz | | |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 750/610/520/410 | 930/830/600/450 | 930/830/600/450 |
| | Heating | H/M/L/Q | $m^3/h$ | 800/710/600/450 | 930/860/700/530 | 930/830/600/450 |
| Net Dimension H × W × D | | | mm | 245×570×570 | 245×570×570 | 245×570×570 |
| Weight | | | kg(lbs) | 15 (33) | 16 (35) | 16 (35) |
| Cassette Grille | | | | UTG-UFYD-W | UTG-UFYD-W | UTG-UFYD-W |

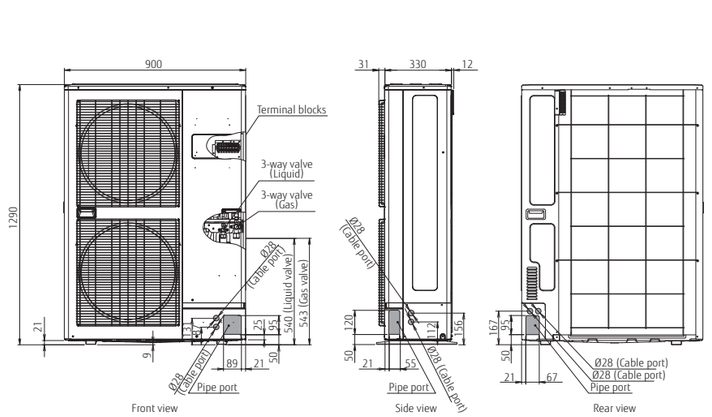
| Indoor Units Model No. | | | | Duct | | | Floor/Ceiling Universal | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ARYG18LLTB | ARYG22LMLA | ARYG24LMLA | ABYG18LVTB | ABYG22LVTA | ABYG24LVTA |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | Single-phase, ~230V, 50Hz | | |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 940/880/820/750 | 1,100/910/750/580 | | 780/700/560/500 | 980/820/680/540 | |
| | Heating | H/M/L/Q | $m^3/h$ | 940/880/820/750 | 1,100/910/750/580 | | 780/700/560/500 | 980/820/680/540 | |
| Net Dimension H × W × D | | | mm | 198 × 900 × 620 | 270 × 1,135 × 700 | | 199 × 990 × 655 | 199 × 990 × 655 | |
| Weight | | | kg(lbs) | 23 (51) | 38 (84) | | 27 (60) | 27 (60) | |

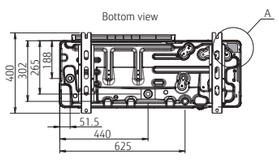
| Outdoor Units Model No. | | | | AOYG36LBTB | AOYG45LBTB | AOYG54LBTB | AOYG36LATT | AOYG45LATT | AOYG54LATT |
|---|---|---|---|---|---|---|---|---|---|
| Capacity | Cooling | | kW | 10.0 | 12.1 | 13.3 | 10.0 | 12.5 | 14.0 |
| | Heating | | kW | 11.2 | 14.0 | 15.0 | 11.2 | 14.0 | 16.0 |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | 3-phase, ~400V, 50Hz | | |
| Pdesign | Cooling | | kW | 10.0 | - | - | 10.0 | - | - |
| | Heating (-10°C) | | kW | 10.0 | - | - | 10.0 | - | - |
| SEER | Cooling | | W/W | 5.56 | - | - | 6.00 | - | - |
| SCOP | Heating | | W/W | 3.90 | - | - | 4.00 | - | - |
| Annual Energy Consumption | Cooling | | kWh/a | 629 | - | - | 583 | - | - |
| | Heating | | kWh/a | 3,588 | - | - | 3,499 | - | - |
| Energy Efficiency Class | Cooling | | | A | - | - | A+ | - | - |
| | Heating | | | A | - | - | A+ | - | - |
| Sound Pressure Level (High) | Cooling | | dB(A) | 52 | 54 | 55 | 51 | 54 | 55 |
| Sound Power Level (High) | Heating | | dB(A) | 69 | 70 | 72 | 69 | 69 | 71 |
| Airflow Rate | Cooling / Heating | | $m^3/h$ | 6,200/6,200 | 6,750/6,200 | 6,850/6,750 | 6,200/6,200 | 6,750/6,200 | 6,900/6,900 |
| Net Dimension H × W × D | | | mm | 1,290×900×330 | 1,290×900×330 | 1,290×900×330 | 1,290×900×330 | 1,290×900×330 | 1,290×900×330 |
| Weight | | | kg(lbs) | 93(205) | 93(205) | 93(205) | 104 (229) | 104 (229) | 104 (229) |
| Connection Pipe Diameter (Liquid / Gas) | | | mm | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 | 9.52/15.88 |
| Max Pipe Length (Pre-Charge) | | | m | 75(30) | 75(30) | 75(30) | 75(30) | 75(30) | 75(30) |
| Height Difference | | | m | 30 | 30 | 30 | 30 | 30 | 30 |
| Operation Range | Cooling | | °CDB | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 |
| | Heating | | °CDB | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | Type (Global Warming Potential) | | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | | kg(CO2eq-T) | 3.45 (7.2) | 3.45 (7.2) | 3.45 (7.2) | 3.45 (7.2) | 3.45 (7.2) | 3.45 (7.2) |
| Separation tube | | | | UTP-SX236A(Twin) | UTP-SX254A(Twin) | UTP-SX254A(Twin)/ UTP-SX354A(Triple) | UTP-SX236A (Twin) | UTP-SX254A (Twin) | UTP-SX254A (Twin) / UTP-SX354A (Triple) |

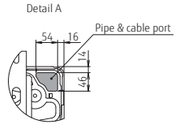
*Different type and capacity indoor units cannot be connected.
*The above table is the value for connecting with cassette type.

### Dimensions

(Unit : mm)



# Simultaneous Multi

## Twin/Triple/Double Twin

REFRIGERANT R410A



ALL DC

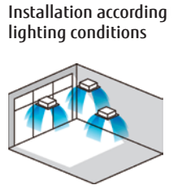
## Support various applications from open plan offices to retail stores, with up to 4 indoor units.

Selection of indoor units according to the room shape and heat load, like number of people and lighting conditions. Most comfortable air flow distribution can be realized.

**Installation according to floor layout**



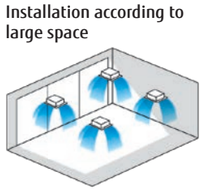
**Installation according to lighting conditions**



**Installation according to layout and lighting conditions**

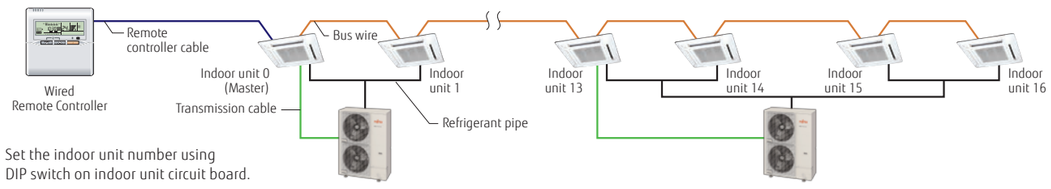


**Installation according to large space**



## Simultaneous control

Max 16 indoor units are simultaneously controlled with a wired remote controller.




Set the indoor unit number using DIP switch on indoor unit circuit board.

*When using a wireless remote controller, the following functions cannot be used: Timer operation, Sleep Timer operation, 10℃ Heat operation

## Indoor unit lineup

6 types 18 models indoor units are provided, so you can select them depending on your room size and conditions.



Compact Cassette



Cassette



Slim Duct



Duct



Floor/Ceiling Universal



Ceiling





**Model: AOYG72LRLA [3phase] / AOYG90LRLA [3phase]**



## Specifications (Indoor units/Outdoor units)

| Indoor Units Model No. | | | | Compact Cassette, Cassette | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | AUYG18LVLB | AUYG22LVLA | AUYG24LVLA | AUYG30LRLE | AUYG36LRLE | AUYG45LRLA |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | | | |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 750/610/520/410 | 930/830/600/450 | 930/830/600/450 | 1,600/1,400/1,270/1,150 | 1,800/1,400/1,270/1,150 | 1,900/1,640/1,460/1,250 |
| | Heating | H/M/L/Q | | 800/710/600/450 | 930/860/700/530 | 930/830/600/450 | 1,800/1,400/1,270/1,150 | 1,800/1,400/1,270/1,150 | 1,900/1,640/1,460/1,250 |
| Net Dimension H × W × D | | | mm | 245×570×570 | 245×570×570 | 245×570×570 | 288 × 840 × 840 | 288 × 840 × 840 | 288 × 840 × 840 |
| Weight | | | kg(lbs) | 15 (33) | 16 (35) | 16 (35) | 26 (57) | 26 (57) | 26 (57) |
| Cassette Grille | | | | UTG-UFYD-W | | | UTG-UGYA-W | | |

| Indoor Units Model No. | | | | Duct | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ARYG18LLTB | ARYG22LMLA | ARYG24LMLA | ARYG30LMLE | ARYG36LMLE | ARYG45LMLA |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | | | |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 940/880/820/750 | 1,100/910/750/580 | 1,100/910/750/580 | 1,900/1,620/1,270/980 | 1,900/1,620/1,270/980 | 2,100/1,750/1,350/1,070 |
| | Heating | H/M/L/Q | | 940/880/820/750 | 1,100/910/750/580 | 1,100/910/750/580 | 2,100/1,620/1,270/980 | 2,100/1,620/1,270/980 | 2,100/1,750/1,350/1,070 |
| Net Dimension H × W × D | | | mm | 198 × 900 × 620 | 270 × 1135 × 700 | 270 × 1135 × 700 | 270 × 1135 × 700 | 270 × 1135 × 700 | 270 × 1135 × 700 |
| Weight | | | kg(lbs) | 23 (51) | 38 (84) | 38 (84) | 40 (88) | 40 (88) | 40 (88) |

| Indoor Units Model No. | | | | Floor/Ceiling, Ceiling | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | ABYG18LVTB | ABYG22LVTA | ABYG24LVTA | ABYG30LRTE | ABYG36LRTE | ABYG45LRTA |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | | | |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 780/700/560/500 | 980/820/680/540 | 980/820/680/540 | 1,660/1,500/1,200/1,000 | 1,900/1,500/1,200/1,000 | 2,100/1,700/1,400/1,100 |
| | Heating | H/M/L/Q | | 780/700/560/500 | 980/820/680/540 | 980/820/680/540 | 1,660/1,500/1,200/1,000 | 1,900/1,500/1,200/1,000 | 2,100/1,700/1,400/1,100 |
| Net Dimension H × W × D | | | mm | 199 × 990 × 655 | 199 × 990 × 655 | 199 × 990 × 655 | 240 × 1660 × 700 | 240 × 1660 × 700 | 240 × 1660 × 700 |
| Weight | | | kg(lbs) | 27 (60) | 27 (60) | 27 (60) | 46 (101) | 46 (101) | 46 (101) |

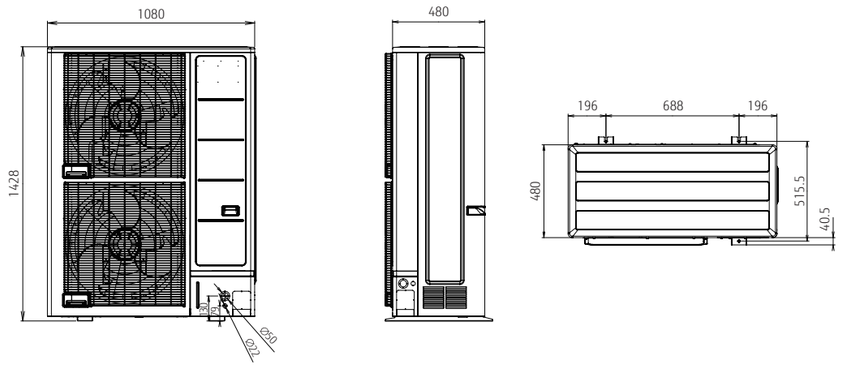
| Outdoor Units Model No. | | | AOYG72LRLA | AOYG90LRLA |
|---|---|---|---|---|
| Capacity | Cooling | kW | 19.0 | 22.0 |
| | Heating | | 22.4 | 27.0 |
| Power Source | | | 3-phase, ~400V, 50Hz | |
| Sound Pressure Level (High) | Cooling | dB(A) | 55 | 55 |
| Airflow Rate | Cooling / Heating | $m^3/h$ | 8,400/8,400 | 8,400/9,000 |
| Net Dimension H × W × D | | mm | 1,428×1,080×480 | 1,428×1,080×480 |
| Weight | | kg(lbs) | 163 (359) | 172 (378) |
| Connection Pipe Diameter (Liquid / Gas) | | mm | 12.7/25.4 | 12.7/25.4 |
| Max Pipe Length (Pre-Charge) | | m | 100 (30) | 100 (30) |
| Height Difference | | | 30 | 30 |
| Operation Range | Cooling | °CDB | –15 to 46 | –15 to 46 |
| | Heating | | –20 to 24 | –20 to 24 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) |
| | Charge | kg(CO2eq-T) | 5.6 (11.7) | 7.1 (14.8) |

• Different type and capacity indoor units cannot be connected.
• The above table is the value for connecting with cassette type.

*: That specification is not fixed yet.

## Dimensions

(Unit : mm)



# New 2 Rooms Multi
## Indoor Units Specifications






### Wall mounted



| Model No. | Indoor unit | | | ASYG07KGTB | ASYG09KGTB | ASYG12KGTB | ASYG14KGTB |
|---|---|---|---|---|---|---|---|
| kW Class | | | kW | 2.0 | 2.5 | 3.5 | 4.0 |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | |
| Sound Pressure Level | Cooling | H/M/L/Q | dB(A) | 38/33/29/21 | 40/34/29/21 | 40/35/30/21 | 43/36/30/21 |
| | Heating | | | 41/35/31/22 | 42/36/31/22 | 42/38/33/22 | 44/39/33/24 |
| Sound Power Level | Cooling | H | dB(A) | 54 | 55 | 55 | 57 |
| | Heating | | | 56 | 57 | 58 | 59 |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 650/540/430/270 | 700/560/430/270 | 700/560/430/250 | 770/600/450/280 |
| | Heating | | | 720/580/460/330 | 750/610/470/330 | 770/640/520/330 | 800/660/520/340 |
| Net Dimensions | | | mm | 270x834x215 | 270x834x215 | 270x834x215 | 270x834x215 |
| Weight | | | kg(lbs) | 10 (22) | 10 (22) | 10 (22) | 10 (22) |
| Connection Pipe Diameter | | Liquid/Gas | mm | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 |

### Wall mounted



| Model No. | Indoor unit | | | ASYG07KMTB | ASYG09KMTB | ASYG12KMTB | ASYG14KMTB |
|---|---|---|---|---|---|---|---|
| kW Class | | | kW | 2.0 | 2.5 | 3.5 | 4.0 |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | |
| Sound Pressure Level | Cooling | H/M/L/Q | dB(A) | 38/33/29/21 | 40/34/29/21 | 40/35/30/21 | 43/36/30/21 |
| | Heating | | | 41/35/31/22 | 42/36/31/22 | 42/38/33/22 | 44/39/33/24 |
| Sound Power Level | Cooling | H | dB(A) | 54 | 55 | 55 | 57 |
| | Heating | | | 56 | 57 | 58 | 59 |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 650/540/430/270 | 700/560/430/270 | 700/560/430/270 | 770/600/450/280 |
| | Heating | | | 720/580/460/330 | 750/610/470/330 | 770/640/520/330 | 800/660/520/340 |
| Net Dimensions | | | mm | 270x834x222 | 270x834x222 | 270x834x222 | 270x834x222 |
| Weight | | | kg(lbs) | 10 (22) | 10 (22) | 10 (22) | 10 (22) |
| Connection Pipe Diameter | | Liquid/Gas | mm | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 |



### Compact cassette Grid type



| Model No. | Indoor unit | | | AUXG07KVLA | AUXG09KVLA | AUXG12KVLA | AUXG14KVLA |
|---|---|---|---|---|---|---|---|
| kW Class | | | kW | 2.0 | 2.5 | 3.5 | 4.0 |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | |
| Sound Pressure Level | Cooling | H/M/L/Q | dB(A) | 33/31/29/27 | 33/31/29/27 | 37/34/31/28 | 38/35/32/29 |
| | Heating | | | 34/32/29/27 | 34/32/29/27 | 37/34/31/29 | 43/38/34/30 |
| Sound Power Level | Cooling | H | dB(A) | 46 | 46 | 49 | 50 |
| | Heating | | | 47 | 47 | 49 | 55 |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 540/490/440/390 | 540/490/440/390 | 610/530/470/410 | 680/580/490/410 |
| | Heating | | | 540/490/440/390 | 540/490/440/390 | 610/530/470/410 | 790/680/580/450 |
| Net Dimensions | | | mm | 245x570x570 | 245x570x570 | 245x570x570 | 245x570x570 |
| Weight | | | kg(lbs) | 15 (33) | 15 (33) | 15 (33) | 15 (33) |
| Panel | | | | UTG-UFYF-W | UTG-UFYF-W | UTG-UFYF-W | UTG-UFYF-W |
| Connection Pipe Diameter | | Liquid/Gas | mm | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 |

### Mini duct



| Model No. | Indoor unit | | | ARXG07KSLAP | ARXG09KSLAP | ARXG12KSLAP | ARXG14KSLAP |
|---|---|---|---|---|---|---|---|
| kW Class | | | kW | 2.0 | 2.5 | 3.5 | 4.0 |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | |
| Sound Pressure Level | Cooling | H/M/L/Q | dB(A) | 29/26/24/23 | 29/26/24/23 | 31/27/25/23 | 35/30/27/23 |
| | Heating | | | 29/26/24/23 | 29/26/24/23 | 31/27/25/23 | 35/30/27/23 |
| Sound Power Level | Cooling | H | dB(A) | 52 | 54 | 55 | 60 |
| | Heating | | | 53 | 56 | 57 | 62 |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 550/440/390/360 | 600/450/400/360 | 650/490/430/360 | 800/640/530/360 |
| | Heating | | | 550/440/390/360 | 600/450/400/360 | 650/490/430/360 | 800/640/530/360 |
| Net Dimensions | | | mm | 198x700x450 | 198x700x450 | 198x700x450 | 198x700x450 |
| Weight | | | kg(lbs) | 15.5 (34) | 15.5 (34) | 15.5 (34) | 15.5 (34) |
| Connection Pipe Diameter | | Liquid/Gas | mm | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 |
| External static pressure | | | Pa | 0 to 30 | 0 to 30 | 0 to 30 | 0 to 50 |
| Drain pump | | | | Standard | | | |

### Slim duct



| Model No. | Indoor unit | | | ARXG07KLLAP | ARXG09KLLAP | ARXG12KLLAP | ARXG14KLLAP |
|---|---|---|---|---|---|---|---|
| kW Class | | | kW | 2.0 | 2.5 | 3.5 | 4.0 |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | |
| Sound Pressure Level | Cooling | H/M/L/Q | dB(A) | 28/26/25/24 | 28/27/26/25 | 29/28/27/26 | 32/30/28/26 |
| | Heating | | | 28/26/25/24 | 28/26/25/24 | 29/28/27/24 | 32/30/28/25 |
| Sound Power Level | Cooling | H | dB(A) | 57 | 57 | 58 | 60 |
| | Heating | | | 57 | 57 | 58 | 60 |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 550/490/470/440 | 600/550/500/450 | 650/600/550/480 | 800/700/600/480 |
| | Heating | | | 550/490/470/440 | 600/550/500/450 | 650/600/550/480 | 800/700/600/480 |
| Net Dimensions | | | mm | 198x700x620 | 198x700x620 | 198x700x620 | 198x700x620 |
| Weight | | | kg(lbs) | 16 (35) | 17 (37) | 17 (37) | 17 (37) |
| Connection Pipe Diameter | | Liquid/Gas | mm | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 |
| External static pressure | | | Pa | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 |
| Drain pump | | | | Standard | | | |

# 2 - 8 Rooms Multi Indoor Units Specifications

## Compact wall mounted



| Model No. | Indoor unit | | | ASYG07LUCA | ASYG09LUCA | ASYG12LUCA | ASYG14LUCA |
|---|---|---|---|---|---|---|---|
| kW Class | | | kW | 2.0 | 2.5 | 3.5 | 4.0 |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | |
| Sound Pressure Level | Cooling | H/M/L/Q | dB(A) | 35/30/28/21 | 36/32/28/21 | 37/34/31/21 | 41/36/33/25 |
| | Heating | | | 35/30/28/21 | 36/32/28/21 | 37/34/31/21 | 41/36/34/27 |
| Sound Power Level | Cooling | H | dB(A) | 53 | 54 | 55 | 59 |
| | Heating | | | 53 | 54 | 55 | 59 |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 570/520/470/330 | 600/550/470/330 | 660/600/530/330 | 710/640/570/390 |
| | Heating | | | 570/520/470/330 | 600/550/470/330 | 660/600/530/330 | 710/640/590/430 |
| Net Dimensions | | | mm | 282×870×185 | 282×870×185 | 282×870×185 | 282×870×185 |
| Weight | | | kg(lbs) | 9.5 (21) | 9.5 (21) | 9.5 (21) | 9.5 (21) |
| Connection Pipe Diameter | | Liquid/Gas | mm | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 | 6.35/12.70 |

## Wall mounted



| Model No. | Indoor unit | | | ASYG18LFCA | ASYG24LFCC |
|---|---|---|---|---|---|
| kW Class | | | kW | 5.0 | 7.0 |
| Power Source | | | | Single-phase, ~230V, 50Hz | |
| Sound Pressure Level | Cooling | H/M/L/Q | dB(A) | 43/37/33/26 | 49/42/37/33 |
| | Heating | | | 42/37/33/25 | 48/42/37/33 |
| Sound Power Level | Cooling | H | dB(A) | 58 | 64 |
| | Heating | | | 58 | 64 |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 900/740/620/550 | 1,120/900/740/620 |
| | Heating | | | 900/740/620/550 | 1,100/900/740/620 |
| Net Dimensions | | | mm | 320×998×238 | 320×998×238 |
| Weight | | | kg(lbs) | 14 (30.8) | 14 (30.8) |
| Connection Pipe Diameter | | Liquid/Gas | mm | 6.35/12.70 | 6.35/15.88 |

## Compact wall mounted



| Model No. | Indoor unit | | | ASYG07LMCE | ASYG09LMCE | ASYG12LMCE | ASYG14LMCE |
|---|---|---|---|---|---|---|---|
| kW Class | | | kW | 2.0 | 2.5 | 3.5 | 4.0 |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | |
| Sound Pressure Level | Cooling | H/M/L/Q | dB(A) | 36/32/29/21 | 37/33/29/21 | 40/36/30/21 | 42/38/33/25 |
| | Heating | | | 36/32/29/22 | 37/33/29/22 | 40/36/31/22 | 42/38/35/27 |
| Sound Power Level | Cooling | H | dB(A) | 51 | 52 | 54 | 56 |
| | Heating | | | 51 | 52 | 55 | 57 |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 560/500/430/310 | 600/520/430/310 | 660/560/450/310 | 730/600/530/360 |
| | Heating | | | 560/500/430/330 | 600/520/430/330 | 660/560/470/330 | 730/615/560/375 |
| Net Dimensions | | | mm | 270×870×204 | 270×870×204 | 270×870×204 | 270×870×204 |
| Weight | | | kg(lbs) | 8.5 (18.7) | 8.5 (18.7) | 8.5 (18.7) | 8.5 (18.7) |
| Connection Pipe Diameter | | Liquid/Gas | mm | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 | 6.35/12.70 |

## Floor



| Model No. | Indoor unit | | | AGYG09LVCA | AGYG12LVCA | AGYG14LVCA |
|---|---|---|---|---|---|---|
| kW Class | | | kW | 2.5 | 3.5 | 4.0 |
| Power Source | | | | Single-phase, ~230V, 50Hz | | |
| Sound Pressure Level | Cooling | H/M/L/Q | dB(A) | 39/34/28/22 | 42/36/30/22 | 44/38/31/22 |
| | Heating | | | 39/35/30/22 | 42/38/32/22 | 44/39/33/22 |
| Sound Power Level | Cooling | H | dB(A) | 52 | 55 | 56 |
| | Heating | | | 52 | 55 | 56 |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 530/440/360/270 | 600/490/380/270 | 650/520/400/270 |
| | Heating | | | 530/460/380/270 | 600/510/410/270 | 650/540/430/270 |
| Net Dimensions | | | mm | 600×740×200 | 600×740×200 | 600×740×200 |
| Weight | | | kg(lbs) | 14 (30.7) | 14 (30.7) | 14 (30.7) |
| Connection Pipe Diameter | | Liquid/Gas | mm | 6.35/9.52 | 6.35/9.52 | 6.35/12.70 |



## Floor ceiling



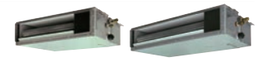
| Model No. | Indoor unit | | | ABYG14LVTA | ABYG18LVTB |
|---|---|---|---|---|---|
| kW Class | | | kW | 4.0 | 5.0 |
| Power Source | | | | Single-phase, ~230V, 50Hz | |
| Sound Pressure Level | Cooling | H/M/L/Q | dB(A) | 36/34/33/29 (Under ceiling)<br>39/37/36/32 (Floor console) | 41/38/34/32 (Under ceiling)<br>44/41/37/35 (Floor console) |
| | Heating | | | 36/34/33/29 (Under ceiling)<br>39/37/36/32 (Floor console) | 41/38/34/32 (Under ceiling)<br>44/41/37/35 (Floor console) |
| Sound Power Level | Cooling | H | dB(A) | 51 | 55 |
| | Heating | | | 51 | 55 |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 640/590/540/480 | 780/700/560/500 |
| | Heating | | | 640/590/540/480 | 780/700/560/500 |
| Net Dimensions | | | mm | 199×990×655 | 199×990×655 |
| Weight | | | kg(lbs) | 27 (60) | 27 (60) |
| Connection Pipe Diameter | | Liquid/Gas | mm | 6.35/12.70 | 6.35/12.70 |

## Compact cassette



| Model No. | Indoor unit | | | AUYG07LVLA | AUYG09LVLA | AUYG12LVLB | AUYG14LVLB | AUYG18LVLB |
|---|---|---|---|---|---|---|---|---|
| kW Class | | | kW | 2.0 | 2.5 | 3.5 | 4.0 | 5.0 |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | | |
| Sound Pressure Level | Cooling | H/M/L/Q | dB(A) | 33/31/29/27 | 33/31/29/27 | 37/33/31/28 | 40/35/32/29 | 42/37/33/29 |
| | Heating | | | 34/32/29/27 | 34/32/29/27 | 37/33/31/28 | 40/37/34/29 | 44/40/37/30 |
| Sound Power Level | Cooling | H | dB(A) | 46 | 46 | 49 | 52 | 54 |
| | Heating | | | 47 | 47 | 49 | 52 | 56 |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 540/490/440/390 | 540/490/440/390 | 610/530/470/410 | 680/580/490/410 | 750/610/520/410 |
| | Heating | | | 540/490/440/390 | 540/490/440/390 | 610/530/470/410 | 700/620/550/430 | 800/710/600/450 |
| Net Dimensions | | | mm | 245×570×570 | 245×570×570 | 245×570×570 | 245×570×570 | 245×570×570 |
| Weight | | | kg(lbs) | 15(33.1) | 15 (33.1) | 15 (33.1) | 15 (33.1) | 15 (33.1) |
| Panel | | | | UTG-UFYD-W | | | | |
| Connection Pipe Diameter | | Liquid/Gas | mm | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 | 6.35/12.70 | 6.35/12.70 |

## Mini duct



| Model No. | Indoor unit | | | ARYG07LSLAP | ARYG09LSLAP | ARYG012LSLAP | ARYG14LSLAP | ARYG18LSLAP |
|---|---|---|---|---|---|---|---|---|
| kW Class | | | kW | 2.0 | 2.5 | 3.5 | 4.0 | 5.0 |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | | |
| Sound Pressure Level | Cooling | H/M/L/Q | dB(A) | 29/26/24/23 | 29/26/24/23 | 31/27/25/23 | 35/30/27/23 | 33/29/26/23 |
| | Heating | | | 29/26/24/23 | 29/26/24/23 | 31/27/25/23 | 35/30/27/23 | 33/29/26/23 |
| Sound Power Level | Cooling | H | dB(A) | 52 | 54 | 55 | 60 | 58 |
| | Heating | | | 53 | 56 | 57 | 62 | 59 |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 550/440/390/360 | 600/450/400/360 | 650/490/430/360 | 800/640/530/360 | 940/750/540/480 |
| | Heating | | | 550/440/390/360 | 600/450/400/360 | 650/490/430/360 | 800/640/530/360 | 940/750/540/480 |
| Net Dimensions | | | mm | 198×700×450 | 198×700×450 | 198×700×450 | 198×700×450 | 198×900×450 |
| Weight | | | kg(lbs) | 15.5 (34.1) | | | | 18.5 (40.7) |
| Connection Pipe Diameter | | Liquid/Gas | mm | 6.35/9.52 | | | 6.35/12.70 | |
| External static pressure | | | Pa | 0 to 30 | | | 0 to 50 | |
| Drain pump | | | | Standard | | | | |

## Slim duct



| Model No. | Indoor unit | | | ARYG07LLTA | ARYG09LLTA | ARYG12LLTB | ARYG14LLTB | ARYG18LLTB |
|---|---|---|---|---|---|---|---|---|
| kW Class | | | kW | 2.0 | 2.5 | 3.5 | 4.0 | 5.0 |
| Power Source | | | | Single-phase, ~230V, 50Hz | | | | |
| Sound Pressure Level | Cooling | H/M/L/Q | dB(A) | 28/26/25/24 | 28/27/26/25 | 29/28/27/26 | 32/30/28/26 | 32/31/30/29 |
| | Heating | | | 28/26/25/24 | 28/26/25/24 | 29/28/27/24 | 33/30/28/25 | 33/32/31/29 |
| Sound Power Level | Cooling | H | dB(A) | 57 | 57 | 58 | 60 | 58 |
| | Heating | | | 57 | 57 | 58 | 61 | 59 |
| Airflow Rate | Cooling | H/M/L/Q | $m^3/h$ | 550/490/470/440 | 600/550/500/450 | 650/600/550/480 | 800/700/600/480 | 940/880/820/750 |
| | Heating | | | 550/490/470/440 | 600/550/500/450 | 650/600/550/480 | 800/700/600/480 | 940/880/820/750 |
| Net Dimensions | | | mm | 198×700×620 | 198×700×620 | 198×700×620 | 198×700×620 | 198×900×620 |
| Weight | | | kg(lbs) | 17 (37.5) | 19 (41.8) | 19 (41.8) | 19 (41.8) | 23 (50.6) |
| Connection Pipe Diameter | | Liquid/Gas | mm | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 | 6.35/12.7 | 6.35/12.70 |
| External static pressure | | | Pa | 0 to 90 | | | | |
| Drain pump | | | | Standard | | | | |

# **2 Rooms** Multi Combination Table-Cooling/Heating




## 2 Rooms Multi cooling

| AOYG14KBTA2 | Combination of Indoor Unit | | COOLING OPERATION | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling Capacity | | | Input Power (min-max) | EER | Seasonal Data | | |
| | | | Room 1 | Room 2 | Total Capacity (min-max) | | | Pdesign | SEER | Energy efficiency class |
| | | | kW | kW | kW | kW | | kW | | |
| 2 Room | 7 | 7 | 2.00 | 2.00 | 4.00(1.4-4.6) | 0.97(0.25 - 1.20) | 4.12 | 4.0 | 8.7 | A+++ |
| | 7 | 9 | 1.75 | 2.25 | 4.00(1.4-4.6) | 0.97(0.25 - 1.20) | 4.12 | 4.0 | 8.7 | A+++ |
| | 7 | 12 | 1.47 | 2.53 | 4.00(1.4-4.6) | 0.97(0.25 - 1.20) | 4.12 | 4.0 | 8.7 | A+++ |
| | 9 | 9 | 2.00 | 2.00 | 4.00(1.4-4.6) | 0.97(0.25 - 1.20) | 4.12 | 4.0 | 8.7 | A+++ |
| | 9 | 12 | 1.71 | 2.29 | 4.00(1.4-4.6) | 0.97(0.25 - 1.20) | 4.12 | 4.0 | 8.7 | A+++ |

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h models
•The above is the value for connecting with Wall Mounted [KG] type.
•2 or more indoor units should be connected.
•Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected indoor unit is up to 21000Btu from 14000Btu.

| AOYG18KBTA2 | Combination of Indoor Unit | | COOLING OPERATION | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling Capacity | | | Input Power (min-max) | EER | Seasonal Data | | |
| | | | Room 1 | Room 2 | Total Capacity (min-max) | | | Pdesign | SEER | Energy efficiency class |
| | | | kW | kW | kW | kW | | kW | | |
| 2 Room | 7 | 7 | 2.00 | 2.00 | 4.00(1.7-5.0) | 0.92(0.25 - 1.23) | 4.35 | 4.0 | 8.8 | A+++ |
| | 7 | 9 | 2.00 | 2.50 | 4.50(1.7-5.7) | 1.07(0.25- 1.45) | 4.22 | 4.5 | 8.7 | A+++ |
| | 7 | 12 | 1.84 | 3.16 | 5.00(1.7-5.8) | 1.24(0.25 - 1.55) | 4.03 | 5.0 | 8.6 | A+++ |
| | 7 | 14 | 1.67 | 3.33 | 5.00(1.7-5.8) | 1.24(0.25 - 1.55) | 4.03 | 5.0 | 8.6 | A+++ |
| | 9 | 9 | 2.50 | 2.50 | 5.00(1.7-5.8) | 1.24(0.25 - 1.55) | 4.03 | 5.0 | 8.6 | A+++ |
| | 9 | 12 | 2.14 | 2.86 | 5.00(1.7-5.8) | 1.24(0.25 - 1.55) | 4.03 | 5.0 | 8.6 | A+++ |
| | 9 | 14 | 1.96 | 3.04 | 5.00(1.7-5.8) | 1.24(0.25 - 1.55) | 4.03 | 5.0 | 8.6 | A+++ |
| | 12 | 12 | 2.50 | 2.50 | 5.00(1.7-5.8) | 1.24(0.25 - 1.55) | 4.03 | 5.0 | 8.6 | A+++ |
| | 12 | 14 | 2.31 | 2.69 | 5.00(1.7-5.8) | 1.24(0.25 - 1.55) | 4.03 | 5.0 | 8.6 | A+++ |

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h models
•The above is the value for connecting with Wall Mounted [KG] type.
•2 or more indoor units should be connected.
•Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected indoor unit is up to 26000Btu from 14000Btu.

## 2 Rooms Multi heating

| AOYG14KBTA2 | Combination of Indoor Unit | | HEATING OPERATION | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Heating Capacity | | | Input Power (min-max) | COP | Seasonal Data | | |
| | | | Room 1 | Room 2 | Total Capacity (min-max) | | | Pdesign | SCOP | Energy efficiency class |
| | | | kW | kW | kW | kW | | kW | | |
| 2 Room | 7 | 7 | 2.20 | 2.20 | 4.40(1.1-5.5) | 0.95(0.25 - 1.65) | 4.63 | 3.5 | 4.7 | A++ |
| | 7 | 9 | 1.92 | 2.48 | 4.40(1.1-5.5) | 0.95(0.25 - 1.65) | 4.63 | 3.5 | 4.7 | A++ |
| | 7 | 12 | 1.62 | 2.78 | 4.40(1.1-5.5) | 0.95(0.25 - 1.65) | 4.63 | 3.5 | 4.7 | A++ |
| | 9 | 9 | 2.20 | 2.20 | 4.40(1.1-5.5) | 0.95(0.25 - 1.65) | 4.63 | 3.5 | 4.7 | A++ |
| | 9 | 12 | 1.89 | 2.51 | 4.40(1.1-5.5) | 0.95(0.25 - 1.65) | 4.63 | 3.5 | 4.7 | A++ |

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h models
•The above is the value for connecting with Wall Mounted [KG] type.
•2 or more indoor units should be connected.
•Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected indoor unit is up to 21000Btu from 14000Btu.

| AOYG18KBTA2 | Combination of Indoor Unit | | HEATING OPERATION | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Heating Capacity | | | Input Power (min-max) | COP | Seasonal Data | | |
| | | | Room 1 | Room 2 | Total Capacity (min-max) | | | Pdesign | SCOP | Energy efficiency class |
| | | | kW | kW | kW | kW | | kW | | |
| 2 Room | 7 | 7 | 2.40 | 2.40 | 4.80(1.7-5.6) | 0.99(0.25 - 1.35) | 4.85 | 3.8 | 4.7 | A++ |
| | 7 | 9 | 2.40 | 3.00 | 5.40(1.7-6.4) | 1.15(0.25 - 1.60) | 4.70 | 4.0 | 4.7 | A++ |
| | 7 | 12 | 2.06 | 3.54 | 5.60(1.7-7.0) | 1.22(0.25 - 1.80) | 4.59 | 4.2 | 4.7 | A++ |
| | 7 | 14 | 1.87 | 3.73 | 5.60(1.7-7.0) | 1.22(0.25 - 1.80) | 4.59 | 4.2 | 4.7 | A++ |
| | 9 | 9 | 2.80 | 2.80 | 5.60(1.7-7.0) | 1.22(0.25 - 1.80) | 4.59 | 4.2 | 4.7 | A++ |
| | 9 | 12 | 2.40 | 3.20 | 5.60(1.7-7.0) | 1.22(0.25 - 1.80) | 4.59 | 4.2 | 4.7 | A++ |
| | 9 | 14 | 2.19 | 3.41 | 5.60(1.7-7.0) | 1.22(0.25 - 1.80) | 4.59 | 4.2 | 4.7 | A++ |
| | 12 | 12 | 2.80 | 2.80 | 5.60(1.7-7.0) | 1.22(0.25 - 1.80) | 4.59 | 4.2 | 4.7 | A++ |
| | 12 | 14 | 2.58 | 3.02 | 5.60(1.7-7.0) | 1.22(0.25 - 1.80) | 4.59 | 4.2 | 4.7 | A++ |

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h models
•The above is the value for connecting with Wall Mounted [KG] type.
•2 or more indoor units should be connected.
•Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected indoor unit is up to 26000Btu from 14000Btu.






## 2 Rooms Multi cooling

| AOYG14LAC2 | Combination of Indoor Unit | | COOLING OPERATION | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling Capacity | | | Input Power (min-max) | EER | Seasonal Data | | |
| | | | Room 1 | Room 2 | Total Capacity (min-max) | | | Pdesign | SEER | Energy efficiency class |
| | | | kW | kW | kW | kW | | kW | | |
| 2 Room | 7 | 7 | 2.00 | 2.00 | 4.00 ( 1.4 - 4.4 ) | 1.09 ( 0.35 - 1.40 ) | 3.67 | 4.0 | 6.7 | A++ |
| | 7 | 9 | 1.95 | 2.05 | 4.00 ( 1.4 - 4.4 ) | 1.09 ( 0.35 - 1.40 ) | 3.67 | 4.0 | 6.6 | A++ |
| | 7 | 12 | 1.65 | 2.35 | 4.00 ( 1.4 - 4.6 ) | 1.05 ( 0.35 - 1.47 ) | 3.81 | 4.0 | 6.5 | A++ |
| | 9 | 9 | 2.00 | 2.00 | 4.00 ( 1.4 - 4.5 ) | 1.09 ( 0.35 - 1.43 ) | 3.67 | 4.0 | 6.6 | A++ |
| | 9 | 12 | 1.70 | 2.30 | 4.00 ( 1.4 - 4.7 ) | 1.05 ( 0.35 - 1.47 ) | 3.81 | 4.0 | 6.5 | A++ |

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected indoor unit is up to 21000Btu from 14000Btu.

| AOYG18LAC2 | Combination of Indoor Unit | | COOLING OPERATION | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cooling Capacity | | | Input Power (min-max) | EER | Seasonal Data | | |
| | | | Room 1 | Room 2 | Total Capacity (min-max) | | | Pdesign | SEER | Energy efficiency class |
| | | | kW | kW | kW | kW | | kW | | |
| 2 Room | 7 | 7 | 2.10 | 2.10 | 4.20 ( 1.7 - 5.2 ) | 1.24 ( 0.35 - 1.68 ) | 3.39 | 4.2 | 7.0 | A++ |
| | 7 | 9 | 2.10 | 2.50 | 4.60 ( 1.7 - 5.3 ) | 1.26 ( 0.35 - 1.79 ) | 3.65 | 4.6 | 6.8 | A++ |
| | 7 | 12 | 1.90 | 3.10 | 5.00 ( 1.7 - 5.6 ) | 1.55 ( 0.35 - 1.95 ) | 3.23 | 5.0 | 6.5 | A++ |
| | 7 | 14 | 1.80 | 3.20 | 5.00 ( 1.8 - 5.7 ) | 1.55 ( 0.40 - 1.99 ) | 3.23 | 5.0 | 6.5 | A++ |
| | 9 | 9 | 2.50 | 2.50 | 5.00 ( 1.7 - 5.6 ) | 1.56 ( 0.35 - 1.95 ) | 3.21 | 5.0 | 6.6 | A++ |
| | 9 | 12 | 2.10 | 2.90 | 5.00 ( 1.7 - 5.7 ) | 1.55 ( 0.35 - 1.95 ) | 3.23 | 5.0 | 6.5 | A++ |
| | 9 | 14 | 2.00 | 3.00 | 5.00 ( 1.8 - 5.8 ) | 1.55 ( 0.40 - 1.99 ) | 3.23 | 5.0 | 6.4 | A++ |
| | 12 | 12 | 2.50 | 2.50 | 5.00 ( 1.7 - 5.8 ) | 1.56 ( 0.35 - 1.99 ) | 3.21 | 5.0 | 6.4 | A++ |

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected indoor unit is up to 24000Btu from 14000Btu.
•Where "14" means "wall mounted type" only models. Other types of indoor units cannot be connected.

## 2 Rooms Multi heating

| AOYG14LAC2 | Combination of Indoor Unit | | HEATING OPERATION | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Heating Capacity | | | Input Power (min-max) | COP | Seasonal Data | | |
| | | | Room 1 | Room 2 | Total Capacity (min-max) | | | Pdesign | SCOP | Energy efficiency class |
| | | | kW | kW | kW | kW | | kW | | |
| 2 Room | 7 | 7 | 2.20 | 2.20 | 4.40 ( 1.1 - 5.4 ) | 1.03 ( 0.25 - 1.78 ) | 4.27 | 3.8 | 4.1 | A+ |
| | 7 | 9 | 2.15 | 2.25 | 4.40 ( 1.1 - 5.4 ) | 1.03 ( 0.25 - 1.78 ) | 4.27 | 3.8 | 4.1 | A+ |
| | 7 | 12 | 1.95 | 2.45 | 4.40 ( 1.1 - 5.5 ) | 1.02 ( 0.25 - 1.76 ) | 4.31 | 3.8 | 4.0 | A+ |
| | 9 | 9 | 2.20 | 2.20 | 4.40 ( 1.1 - 5.4 ) | 1.03 ( 0.25 - 1.78 ) | 4.27 | 3.8 | 4.0 | A+ |
| | 9 | 12 | 2.00 | 2.40 | 4.40 ( 1.1 - 5.5 ) | 1.02 ( 0.25 - 1.76 ) | 4.31 | 3.8 | 4.0 | A+ |

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected indoor unit is up to 21000Btu from 14000Btu.

| AOYG18LAC2 | Combination of Indoor Unit | | HEATING OPERATION | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Heating Capacity | | | Input Power (min-max) | COP | Seasonal Data | | |
| | | | Room 1 | Room 2 | Total Capacity (min-max) | | | Pdesign | SCOP | Energy efficiency class |
| | | | kW | kW | kW | kW | | kW | | |
| 2 Room | 7 | 7 | 2.70 | 2.70 | 5.40 ( 1.8 - 6.0 ) | 1.24 ( 0.50 - 1.61 ) | 4.37 | 3.8 | 4.1 | A+ |
| | 7 | 9 | 2.50 | 3.00 | 5.50 ( 1.8 - 6.0 ) | 1.36 ( 0.50 - 1.87 ) | 4.04 | 4.0 | 4.1 | A+ |
| | 7 | 12 | 2.30 | 3.30 | 5.60 ( 1.8 - 6.1 ) | 1.38 ( 0.50 - 1.88 ) | 4.06 | 4.2 | 4.0 | A+ |
| | 7 | 14 | 2.25 | 3.35 | 5.60 ( 1.9 - 6.2 ) | 1.35 ( 0.55 - 1.86 ) | 4.15 | 4.2 | 4.0 | A+ |
| | 9 | 9 | 2.80 | 2.80 | 5.60 ( 1.8 - 6.1 ) | 1.41 ( 0.50 - 1.90 ) | 3.97 | 4.2 | 4.1 | A+ |
| | 9 | 12 | 2.45 | 3.15 | 5.60 ( 1.8 - 6.2 ) | 1.38 ( 0.50 - 1.88 ) | 4.07 | 4.2 | 4.0 | A+ |
| | 9 | 14 | 2.35 | 3.25 | 5.60 ( 1.9 - 6.3 ) | 1.35 ( 0.55 - 1.86 ) | 4.15 | 4.2 | 4.0 | A+ |
| | 12 | 12 | 2.80 | 2.80 | 5.60 ( 1.8 - 6.3 ) | 1.34 ( 0.50 - 1.84 ) | 4.18 | 4.2 | 4.0 | A+ |

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected indoor unit is up to 24000Btu from 14000Btu.
•Where "14" means "wall mounted type" only models. Other types of indoor units cannot be connected.

REFRIGERANT R410A

# **3 Rooms** Multi Combination Table-Cooling/Heating

## 3 Rooms Multi cooling

| AOYG18LAT3 | Combination of Indoor Unit | | | COOLING OPERATION | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Cooling Capacity | | | | Input Power (min-max) | EER | Seasonal Data | | |
| | | | | Room 1 | Room 2 | Room 3 | Total Capacity (min-max) | | | Pdesign | SEER | Energy efficiency |
| | | | | kW | kW | kW | kW | kW | | kW | | |
| 2 Room | 7 | 7 | - | 2.30 | 2.30 | - | 4.60 ( 1.8 - 5.0 ) | 1.22 ( 0.50 - 1.43 ) | 3.77 | 4.6 | 6.3 | A++ |
| | 7 | 9 | - | 2.30 | 2.70 | - | 5.00 ( 1.8 - 5.7 ) | 1.35 ( 0.50 - 1.81 ) | 3.70 | 5.0 | 6.2 | A++ |
| | 7 | 12 | - | 1.98 | 3.02 | - | 5.00 ( 1.8 - 6.1 ) | 1.34 ( 0.50 - 2.06 ) | 3.73 | 5.0 | 6.2 | A++ |
| | 7 | 14 | - | 1.88 | 3.42 | - | 5.30 ( 1.8 - 6.6 ) | 1.34 ( 0.50 - 2.06 ) | 3.96 | 5.3 | 6.1 | A++ |
| | 9 | 9 | - | 2.50 | 2.50 | - | 5.00 ( 1.8 - 6.2 ) | 1.35 ( 0.50 - 2.06 ) | 3.70 | 5.0 | 6.2 | A++ |
| | 9 | 12 | - | 2.18 | 2.82 | - | 5.00 ( 1.8 - 6.3 ) | 1.35 ( 0.50 - 2.06 ) | 3.70 | 5.0 | 6.2 | A++ |
| | 9 | 14 | - | 2.07 | 3.23 | - | 5.30 ( 1.8 - 6.7 ) | 1.35 ( 0.50 - 2.06 ) | 3.93 | 5.3 | 6.1 | A++ |
| | 12 | 12 | - | 2.55 | 2.55 | - | 5.10 ( 1.8 - 6.3 ) | 1.35 ( 0.50 - 2.06 ) | 3.78 | 5.1 | 6.1 | A++ |
| | 12 | 14 | - | 2.41 | 2.89 | - | 5.30 ( 1.8 - 6.7 ) | 1.35 ( 0.50 - 2.06 ) | 3.93 | 5.3 | 6.1 | A++ |
| 3 Room | 7 | 7 | 7 | 1.80 | 1.80 | 1.80 | 5.40 ( 1.8 - 6.8 ) | 1.35 ( 0.50 - 2.06 ) | 4.00 | 5.4 | 6.9 | A++ |
| | 7 | 7 | 9 | 1.70 | 1.70 | 2.00 | 5.40 ( 1.8 - 6.8 ) | 1.35 ( 0.50 - 2.06 ) | 4.00 | 5.4 | 6.9 | A++ |
| | 7 | 7 | 12 | 1.53 | 1.53 | 2.33 | 5.40 ( 1.8 - 6.8 ) | 1.35 ( 0.50 - 2.06 ) | 4.00 | 5.4 | 6.7 | A++ |
| | 7 | 7 | 14 | 1.41 | 1.41 | 2.58 | 5.40 ( 2.0 - 6.8 ) | 1.35 ( 0.60 - 2.06 ) | 4.00 | 5.4 | 6.7 | A++ |
| | 7 | 9 | 9 | 1.61 | 1.89 | 1.89 | 5.40 ( 1.8 - 6.8 ) | 1.35 ( 0.50 - 2.06 ) | 4.00 | 5.4 | 6.8 | A++ |
| | 7 | 9 | 12 | 1.46 | 1.72 | 2.22 | 5.40 ( 1.8 - 6.8 ) | 1.35 ( 0.50 - 2.06 ) | 4.00 | 5.4 | 6.7 | A++ |
| | 7 | 9 | 14 | 1.35 | 1.58 | 2.47 | 5.40 ( 2.0 - 6.8 ) | 1.35 ( 0.60 - 2.06 ) | 4.00 | 5.4 | 6.7 | A++ |
| | 9 | 9 | 9 | 1.80 | 1.80 | 1.80 | 5.40 ( 1.8 - 6.8 ) | 1.35 ( 0.50 - 2.06 ) | 4.00 | 5.4 | 6.8 | A++ |
| | 9 | 9 | 12 | 1.64 | 1.64 | 2.12 | 5.40 ( 1.8 - 6.8 ) | 1.35 ( 0.50 - 2.06 ) | 4.00 | 5.4 | 6.7 | A++ |

| AOYG24LAT3 | Combination of Indoor Unit | | | COOLING OPERATION | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Cooling Capacity | | | | Input Power (min-max) | EER | Seasonal Data | | |
| | | | | Room 1 | Room 2 | Room 3 | Total Capacity (min-max) | | | Pdesign | SEER | Energy efficiency |
| | | | | kW | kW | kW | kW | kW | | kW | | |
| 2 Room | 7 | 7 | - | 2.30 | 2.30 | - | 4.60 ( 1.8 - 5.0 ) | 1.20 ( 0.50 - 1.40 ) | 3.83 | 4.6 | 6.3 | A++ |
| | 7 | 9 | - | 2.30 | 2.70 | - | 5.00 ( 1.8 - 5.7 ) | 1.36 ( 0.50 - 1.78 ) | 3.68 | 5.0 | 6.2 | A++ |
| | 7 | 12 | - | 2.38 | 3.42 | - | 5.80 ( 1.8 - 6.1 ) | 1.70 ( 0.50 - 1.97 ) | 3.41 | 5.8 | 6.1 | A++ |
| | 7 | 14 | - | 2.37 | 4.13 | - | 6.50 ( 1.8 - 7.2 ) | 1.91 ( 0.50 - 2.46 ) | 3.40 | 6.5 | 6.0 | A+ |
| | 7 | 18 | - | 2.08 | 4.52 | - | 6.60 ( 1.8 - 7.8 ) | 1.91 ( 0.50 - 2.87 ) | 3.46 | 6.6 | 5.9 | A+ |
| | 9 | 9 | - | 2.75 | 2.75 | - | 5.50 ( 1.8 - 6.2 ) | 1.55 ( 0.50 - 2.02 ) | 3.55 | 5.5 | 6.1 | A++ |
| | 9 | 12 | - | 2.79 | 3.41 | - | 6.20 ( 1.8 - 6.8 ) | 1.90 ( 0.50 - 2.45 ) | 3.26 | 6.2 | 5.9 | A+ |
| | 9 | 14 | - | 2.66 | 3.94 | - | 6.60 ( 1.8 - 7.7 ) | 1.91 ( 0.50 - 2.77 ) | 3.46 | 6.6 | 6.0 | A+ |
| | 9 | 18 | - | 2.35 | 4.35 | - | 6.70 ( 1.8 - 7.9 ) | 1.91 ( 0.50 - 2.87 ) | 3.51 | 6.7 | 5.9 | A+ |
| | 12 | 12 | - | 3.15 | 3.15 | - | 6.30 ( 1.8 - 7.2 ) | 1.90 ( 0.50 - 2.74 ) | 3.32 | 6.3 | 5.9 | A+ |
| | 12 | 14 | - | 3.03 | 3.67 | - | 6.70 ( 1.8 - 7.8 ) | 1.91 ( 0.50 - 2.87 ) | 3.51 | 6.7 | 5.9 | A+ |
| | 12 | 18 | - | 2.66 | 4.04 | - | 6.70 ( 1.8 - 7.9 ) | 1.92 ( 0.50 - 2.87 ) | 3.49 | 6.7 | 5.8 | A+ |
| 3 Room | 7 | 7 | 7 | 2.23 | 2.23 | 2.23 | 6.70 ( 1.8 - 7.4 ) | 1.89 ( 0.50 - 2.37 ) | 3.54 | 6.7 | 6.4 | A++ |
| | 7 | 7 | 9 | 2.14 | 2.14 | 2.52 | 6.80 ( 1.8 - 7.8 ) | 1.94 ( 0.60 - 2.87 ) | 3.51 | 6.8 | 6.4 | A++ |
| | 7 | 7 | 12 | 1.98 | 1.98 | 2.84 | 6.80 ( 1.8 - 8.1 ) | 1.93 ( 0.50 - 2.87 ) | 3.52 | 6.8 | 6.3 | A++ |
| | 7 | 7 | 14 | 1.82 | 1.82 | 3.16 | 6.80 ( 2.0 - 8.4 ) | 1.94 ( 0.60 - 2.87 ) | 3.51 | 6.8 | 6.2 | A++ |
| | 7 | 7 | 18 | 1.63 | 1.63 | 3.54 | 6.80 ( 2.0 - 8.5 ) | 1.94 ( 0.60 - 2.87 ) | 3.51 | 6.8 | 6.1 | A++ |
| | 7 | 9 | 9 | 2.03 | 2.38 | 2.38 | 6.80 ( 1.8 - 8.2 ) | 1.93 ( 0.50 - 2.87 ) | 3.52 | 6.8 | 6.4 | A++ |
| | 7 | 9 | 12 | 1.88 | 2.21 | 2.70 | 6.80 ( 1.8 - 8.2 ) | 1.93 ( 0.50 - 2.87 ) | 3.52 | 6.8 | 6.2 | A++ |
| | 7 | 9 | 14 | 1.74 | 2.04 | 3.02 | 6.80 ( 2.0 - 8.4 ) | 1.94 ( 0.60 - 2.87 ) | 3.51 | 6.8 | 6.2 | A++ |
| | 7 | 9 | 18 | 1.56 | 1.84 | 3.40 | 6.80 ( 2.0 - 8.5 ) | 1.94 ( 0.60 - 2.87 ) | 3.51 | 6.8 | 6.1 | A++ |
| | 7 | 12 | 12 | 1.76 | 2.52 | 2.52 | 6.80 ( 1.8 - 8.2 ) | 1.94 ( 0.50 - 2.87 ) | 3.51 | 6.8 | 6.2 | A++ |
| | 7 | 12 | 14 | 1.63 | 2.34 | 2.83 | 6.80 ( 2.0 - 8.5 ) | 1.94 ( 0.60 - 2.87 ) | 3.51 | 6.8 | 6.2 | A++ |
| | 9 | 9 | 9 | 2.27 | 2.27 | 2.27 | 6.80 ( 1.8 - 8.2 ) | 1.94 ( 0.50 - 2.87 ) | 3.51 | 6.8 | 6.4 | A++ |
| | 9 | 9 | 12 | 2.11 | 2.11 | 2.58 | 6.80 ( 1.8 - 8.3 ) | 1.94 ( 0.50 - 2.87 ) | 3.51 | 6.8 | 6.2 | A++ |
| | 9 | 9 | 14 | 1.95 | 1.95 | 2.89 | 6.80 ( 2.0 - 8.5 ) | 1.94 ( 0.60 - 2.87 ) | 3.51 | 6.8 | 6.2 | A++ |
| | 9 | 9 | 18*1 | 1.77 | 1.77 | 3.27 | 6.80 ( 2.0 - 8.5 ) | 1.94 ( 0.60 - 2.87 ) | 3.51 | 6.8 | 6.1 | A++ |
| | 9 | 12 | 12 | 1.97 | 2.41 | 2.41 | 6.80 ( 1.8 - 8.3 ) | 1.94 ( 0.50 - 2.87 ) | 3.51 | 6.8 | 6.2 | A++ |
| | 9 | 12 | 14 | 1.84 | 2.24 | 2.72 | 6.80 ( 2.0 - 8.5 ) | 1.94 ( 0.60 - 2.87 ) | 3.51 | 6.8 | 6.2 | A++ |
| | 12 | 12 | 12 | 2.27 | 2.27 | 2.27 | 6.80 ( 1.8 - 8.3 ) | 1.94 ( 0.50 - 2.87 ) | 3.51 | 6.8 | 6.1 | A++ |

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The total ability of connectable indoor units is up to 36000Btu from 14000Btu.
*1: When ASYG18L is connected, connect at least 1 wall mounted type of 9000Btu.

## 3 Rooms Multi heating

| AOYG18LAT3 | Combination of Indoor Unit | | | HEATING OPERATION | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Heating Capacity | | | | Input Power (min-max) | COP | Seasonal Data | | |
| | | | | Room 1 | Room 2 | Room 3 | Total Capacity (min-max) | | | Pdesign | SCOP | Energy efficiency |
| | | | | kW | kW | kW | kW | kW | | kW | | |
| 2 Room | 7 | 7 | - | 2.70 | 2.70 | - | 5.40 ( 2.0 - 6.1 ) | 1.59 ( 0.52 - 1.93 ) | 3.40 | 4.0 | 4.1 | A+ |
| | 7 | 9 | - | 2.75 | 3.25 | - | 6.00 ( 2.0 - 6.4 ) | 1.87 ( 0.52 - 2.06 ) | 3.21 | 4.0 | 4.1 | A+ |
| | 7 | 12 | - | 2.59 | 3.71 | - | 6.30 ( 2.0 - 6.5 ) | 1.98 ( 0.52 - 2.06 ) | 3.18 | 4.0 | 4.1 | A+ |
| | 7 | 14 | - | 2.51 | 4.29 | - | 6.80 ( 2.0 - 7.1 ) | 1.92 ( 0.50 - 2.06 ) | 3.54 | 4.0 | 4.1 | A+ |
| | 9 | 9 | - | 3.15 | 3.15 | - | 6.30 ( 2.0 - 6.5 ) | 1.98 ( 0.52 - 2.06 ) | 3.18 | 4.0 | 4.1 | A+ |
| | 9 | 12 | - | 2.89 | 3.51 | - | 6.40 ( 2.0 - 6.6 ) | 1.99 ( 0.52 - 2.06 ) | 3.22 | 4.0 | 4.1 | A+ |
| | 9 | 14 | - | 2.77 | 4.03 | - | 6.80 ( 2.0 - 7.2 ) | 1.91 ( 0.50 - 2.06 ) | 3.56 | 4.0 | 4.1 | A+ |
| | 12 | 12 | - | 3.20 | 3.20 | - | 6.40 ( 2.0 - 6.6 ) | 1.98 ( 0.52 - 2.06 ) | 3.23 | 4.0 | 4.1 | A+ |
| | 12 | 14 | - | 3.09 | 3.71 | - | 6.80 ( 2.0 - 7.3 ) | 1.90 ( 0.50 - 2.06 ) | 3.58 | 4.0 | 4.1 | A+ |
| 3 Room | 7 | 7 | 7 | 2.27 | 2.27 | 2.27 | 6.80 ( 2.0 - 7.7 ) | 1.62 ( 0.50 - 2.06 ) | 4.20 | 5.0 | 4.3 | A+ |
| | 7 | 7 | 9 | 2.14 | 2.14 | 2.52 | 6.80 ( 2.0 - 7.8 ) | 1.62 ( 0.50 - 2.06 ) | 4.20 | 5.0 | 4.3 | A+ |
| | 7 | 7 | 12 | 1.98 | 1.98 | 2.83 | 6.80 ( 2.0 - 7.8 ) | 1.59 ( 0.50 - 2.06 ) | 4.28 | 5.0 | 4.3 | A+ |
| | 7 | 7 | 14 | 1.83 | 1.83 | 3.14 | 6.80 ( 2.0 - 8.0 ) | 1.61 ( 0.50 - 2.06 ) | 4.22 | 5.0 | 4.3 | A+ |
| | 7 | 9 | 9 | 2.03 | 2.39 | 2.39 | 6.80 ( 2.0 - 7.8 ) | 1.60 ( 0.50 - 2.06 ) | 4.25 | 5.0 | 4.3 | A+ |
| | 7 | 9 | 12 | 1.89 | 2.22 | 2.69 | 6.80 ( 2.0 - 7.9 ) | 1.59 ( 0.50 - 2.06 ) | 4.28 | 5.0 | 4.3 | A+ |
| | 7 | 9 | 14 | 1.75 | 2.06 | 2.99 | 6.80 ( 2.0 - 8.0 ) | 1.60 ( 0.50 - 2.06 ) | 4.25 | 5.0 | 4.3 | A+ |
| | 9 | 9 | 9 | 2.27 | 2.27 | 2.27 | 6.80 ( 2.0 - 7.9 ) | 1.59 ( 0.50 - 2.06 ) | 4.28 | 5.0 | 4.3 | A+ |
| | 9 | 9 | 12 | 2.12 | 2.12 | 2.57 | 6.80 ( 2.0 - 7.9 ) | 1.59 ( 0.50 - 2.06 ) | 4.28 | 5.0 | 4.3 | A+ |

| AOYG24LAT3 | Combination of Indoor Unit | | | HEATING OPERATION | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Heating Capacity | | | | Input Power (min-max) | COP | Seasonal Data | | |
| | | | | Room 1 | Room 2 | Room 3 | Total Capacity (min-max) | | | Pdesign | SCOP | Energy efficiency |
| | | | | kW | kW | kW | kW | kW | | kW | | |
| 2 Room | 7 | 7 | - | 2.75 | 2.75 | - | 5.50 ( 2.0 - 6.1 ) | 1.55 ( 0.52 - 1.93 ) | 3.55 | 4.0 | 4.1 | A+ |
| | 7 | 9 | - | 2.80 | 3.30 | - | 6.10 ( 2.0 - 7.0 ) | 1.82 ( 0.52 - 2.52 ) | 3.35 | 4.0 | 4.1 | A+ |
| | 7 | 12 | - | 2.88 | 4.12 | - | 7.00 ( 2.0 - 7.3 ) | 2.31 ( 0.52 - 2.66 ) | 3.03 | 4.0 | 4.1 | A+ |
| | 7 | 14 | - | 2.80 | 4.80 | - | 7.60 ( 2.0 - 8.3 ) | 2.28 ( 0.50 - 2.87 ) | 3.33 | 4.0 | 4.1 | A+ |
| | 7 | 18 | - | 2.51 | 5.39 | - | 7.90 ( 2.0 - 8.3 ) | 2.34 ( 0.50 - 2.87 ) | 3.38 | 4.0 | 4.1 | A+ |
| | 9 | 9 | - | 3.30 | 3.30 | - | 6.60 ( 2.0 - 7.4 ) | 2.04 ( 0.52 - 2.68 ) | 3.24 | 4.0 | 4.1 | A+ |
| | 9 | 12 | - | 3.30 | 4.00 | - | 7.30 ( 2.0 - 7.7 ) | 2.43 ( 0.52 - 2.87 ) | 3.00 | 4.0 | 4.1 | A+ |
| | 9 | 14 | - | 3.22 | 4.68 | - | 7.90 ( 2.0 - 8.3 ) | 2.38 ( 0.50 - 2.87 ) | 3.32 | 4.0 | 4.1 | A+ |
| | 9 | 18 | - | 2.84 | 5.16 | - | 8.00 ( 2.0 - 8.5 ) | 2.32 ( 0.50 - 2.87 ) | 3.45 | 4.0 | 4.1 | A+ |
| | 12 | 12 | - | 3.80 | 3.80 | - | 7.60 ( 2.0 - 7.8 ) | 2.54 ( 0.52 - 2.87 ) | 2.99 | 4.0 | 4.1 | A+ |
| | 12 | 14 | - | 3.59 | 4.31 | - | 7.90 ( 2.0 - 8.4 ) | 2.37 ( 0.50 - 2.87 ) | 3.33 | 4.0 | 4.1 | A+ |
| | 12 | 18 | - | 3.20 | 4.80 | - | 8.00 ( 2.0 - 8.6 ) | 2.31 ( 0.50 - 2.87 ) | 3.46 | 4.0 | 4.1 | A+ |
| 3 Room | 7 | 7 | 7 | 2.60 | 2.60 | 2.60 | 7.80 ( 2.0 - 8.6 ) | 1.94 ( 0.50 - 2.68 ) | 4.02 | 5.0 | 4.3 | A+ |
| | 7 | 7 | 9 | 2.52 | 2.52 | 2.96 | 8.00 ( 2.0 - 8.8 ) | 2.00( 0.50 - 2.87 ) | 4.00 | 5.2 | 4.2 | A+ |
| | 7 | 7 | 12 | 2.34 | 2.34 | 3.32 | 8.00 ( 2.0 - 8.9 ) | 1.99 ( 0.50 - 2.80 ) | 4.02 | 5.2 | 4.2 | A+ |
| | 7 | 7 | 14 | 2.16 | 2.16 | 3.68 | 8.00 ( 2.0 - 9.2 ) | 1.91 ( 0.50 - 2.72 ) | 4.19 | 5.2 | 4.2 | A+ |
| | 7 | 7 | 18 | 1.94 | 1.94 | 4.12 | 8.00 ( 2.0 - 9.2 ) | 1.89 ( 0.50 - 2.70 ) | 4.23 | 5.2 | 4.2 | A+ |
| | 7 | 9 | 9 | 2.38 | 2.81 | 2.81 | 8.00( 2.0 - 9.0 ) | 1.99 ( 0.50 - 2.87 ) | 4.02 | 5.2 | 4.2 | A+ |
| | 7 | 9 | 12 | 2.23 | 2.62 | 3.15 | 8.00 ( 2.0 - 9.1 ) | 1.98 ( 0.50 - 2.87 ) | 4.04 | 5.2 | 4.2 | A+ |
| | 7 | 9 | 14 | 2.06 | 2.42 | 3.52 | 8.00 ( 2.0 - 9.2 ) | 1.91 ( 0.50 - 2.72 ) | 4.19 | 5.2 | 4.2 | A+ |
| | 7 | 9 | 18 | 1.85 | 2.18 | 3.97 | 8.00 ( 2.0 - 9.2 ) | 1.89 ( 0.50 - 2.69 ) | 4.23 | 5.2 | 4.2 | A+ |
| | 7 | 12 | 12 | 2.08 | 2.96 | 2.96 | 8.00 ( 2.0 - 9.1 ) | 1.97 ( 0.50 - 2.87 ) | 4.06 | 5.2 | 4.2 | A+ |
| | 7 | 12 | 14 | 1.93 | 2.76 | 3.31 | 8.00 ( 2.0 - 9.2 ) | 1.90 ( 0.50 - 2.70 ) | 4.21 | 5.2 | 4.2 | A+ |
| | 9 | 9 | 9 | 2.67 | 2.67 | 2.67 | 8.00 ( 2.0 - 9.1 ) | 1.98 ( 0.50 - 2.87 ) | 4.04 | 5.2 | 4.2 | A+ |
| | 9 | 9 | 12 | 2.49 | 2.49 | 3.02 | 8.00 ( 2.0 - 9.2 ) | 1.97 ( 0.50 - 2.87 ) | 4.06 | 5.2 | 4.2 | A+ |
| | 9 | 9 | 14 | 2.32 | 2.32 | 3.37 | 8.00 ( 2.0 - 9.2 ) | 1.89 ( 0.50 - 2.70 ) | 4.23 | 5.2 | 4.2 | A+ |
| | 9 | 9 | 18*1 | 2.10 | 2.10 | 3.81 | 8.00 ( 2.0 - 9.2 ) | 1.87 ( 0.50 - 2.68 ) | 4.28 | 5.2 | 4.2 | A+ |
| | 9 | 12 | 12 | 2.34 | 2.83 | 2.83 | 8.00 ( 2.0 - 9.2 ) | 1.96 ( 0.50 - 2.80 ) | 4.08 | 5.2 | 4.2 | A+ |
| | 9 | 12 | 14 | 2.18 | 2.64 | 3.17 | 8.00 ( 2.0 - 9.2 ) | 1.89 ( 0.50 - 2.69 ) | 4.23 | 5.2 | 4.2 | A+ |
| | 12 | 12 | 12 | 2.67 | 2.67 | 2.67 | 8.00 ( 2.0 - 9.2 ) | 1.95 ( 0.50 - 2.78 ) | 4.10 | 5.2 | 4.2 | A+ |

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected indoor unit is up to 36000Btu from 14000Btu.
*1: When ASYG18L is connected, connect at least 1 wall mounted type for 9000Btu.

REFRIGERANT R410A

# **4 Rooms** Multi Combination Table-Cooling/Heating

## 4 Rooms Multi cooling

| AOYG30LAT4 | Combination of Indoor Unit | | | | COOLING OPERATION | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Cooling Capacity | | | | | Input Power (min-max) | EER | Seasonal Data | | |
| | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Total Capacity (min-max) | | | Pdesign | SEER | Energy efficiency |
| | | | | | kW | kW | kW | kW | kW | kW | | kW | | |
| 3 Room | 7 | 7 | 14 | - | 1.96 | 1.96 | 3.27 | - | 7.20 ( 1.6 - 8.9 ) | 2.22 ( 0.68 - 3.43 ) | 3.24 | 7.2 | 5.9 | A+ |
| | 7 | 7 | 18 | - | 1.81 | 1.81 | 4.08 | - | 7.70 ( 2.8 - 10.0 ) | 2.22 ( 0.98 - 3.55 ) | 3.47 | 7.7 | 5.8 | A+ |
| | 7 | 7 | 24 | - | 1.61 | 1.61 | 4.57 | - | 7.80 ( 2.8 - 10.1 ) | 2.19 ( 0.98 - 3.53 ) | 3.56 | 7.8 | 5.8 | A+ |
| | 7 | 9 | 12 | - | 2.08 | 2.34 | 2.78 | - | 7.20 ( 1.6 - 8.9 ) | 2.22 ( 0.68 - 3.41 ) | 3.24 | 7.2 | 5.9 | A+ |
| | 7 | 9 | 14 | - | 1.90 | 2.14 | 3.16 | - | 7.20 ( 2.8 - 9.1 ) | 2.22 ( 0.98 - 3.56 ) | 3.24 | 7.2 | 5.9 | A+ |
| | 7 | 9 | 18 | - | 1.76 | 1.98 | 3.96 | - | 7.70 ( 2.8 - 9.9 ) | 2.22 ( 0.98 - 3.56 ) | 3.47 | 7.7 | 5.8 | A+ |
| | 7 | 9 | 24 | - | 1.57 | 1.77 | 4.46 | - | 7.80 ( 2.8 - 10.1 ) | 2.19 ( 0.98 - 3.53 ) | 3.56 | 7.8 | 5.8 | A+ |
| | 7 | 12 | 12 | - | 1.96 | 2.62 | 2.62 | - | 7.20 ( 1.6 - 9.1 ) | 2.22 ( 0.68 - 3.54 ) | 3.24 | 7.2 | 5.9 | A+ |
| | 7 | 12 | 14 | - | 1.83 | 2.43 | 3.04 | - | 7.30 ( 2.8 - 9.2 ) | 2.22 ( 0.98 - 3.56 ) | 3.29 | 7.3 | 5.9 | A+ |
| | 7 | 12 | 18 | - | 1.68 | 2.24 | 3.78 | - | 7.70 ( 2.8 - 9.9 ) | 2.22 ( 0.98 - 3.56 ) | 3.47 | 7.7 | 5.8 | A+ |
| | 7 | 12 | 24 | - | 1.51 | 2.01 | 4.28 | - | 7.80 ( 2.8 - 10.1 ) | 2.19 ( 0.98 - 3.56 ) | 3.56 | 7.8 | 5.8 | A+ |
| | 7 | 14 | 14 | - | 1.68 | 2.81 | 2.81 | - | 7.30 ( 2.8 - 9.3 ) | 2.22 ( 0.98 - 3.58 ) | 3.29 | 7.3 | 5.9 | A+ |
| | 7 | 14 | 18 | - | 1.57 | 2.61 | 3.52 | - | 7.70 ( 3.5 - 10.0 ) | 2.22 ( 1.17 - 3.58 ) | 3.47 | 7.7 | 5.8 | A+ |
| | 7 | 14 | 24 | - | 1.44 | 2.39 | 4.07 | - | 7.90 ( 3.5 - 10.1 ) | 2.20 ( 1.17 - 3.58 ) | 3.59 | 7.9 | 5.8 | A+ |
| | 7 | 18 | 18 | - | 1.42 | 3.19 | 3.19 | - | 7.80 ( 3.5 - 10.1 ) | 2.22 ( 1.17 - 3.58 ) | 3.51 | 7.8 | 5.7 | A+ |
| | 7 | 18 | 24 | - | 1.30 | 2.92 | 3.68 | - | 7.90 ( 4.7 - 10.1 ) | 2.22 ( 1.27 - 3.58 ) | 3.56 | 7.9 | 5.7 | A+ |
| | 9 | 9 | 9 | - | 2.40 | 2.40 | 2.40 | - | 7.20 ( 2.8 - 8.9 ) | 2.22 ( 0.98 - 3.42 ) | 3.24 | 7.2 | 5.9 | A+ |
| | 9 | 9 | 12 | - | 2.26 | 2.26 | 2.68 | - | 7.20 ( 2.8 - 9.1 ) | 2.22 ( 0.98 - 3.54 ) | 3.24 | 7.2 | 5.9 | A+ |
| | 9 | 9 | 14 | - | 2.10 | 2.10 | 3.11 | - | 7.30 ( 2.8 - 9.2 ) | 2.22 ( 0.98 - 3.57 ) | 3.29 | 7.3 | 5.9 | A+ |
| | 9 | 9 | 18 | - | 1.93 | 1.93 | 3.85 | - | 7.70 ( 2.8 - 9.9 ) | 2.22 ( 0.98 - 3.56 ) | 3.47 | 7.7 | 5.8 | A+ |
| | 9 | 9 | 24 | - | 1.73 | 1.73 | 4.35 | - | 7.80 ( 2.8 - 10.1 ) | 2.20 ( 1.17 - 3.54 ) | 3.55 | 7.8 | 5.8 | A+ |
| | 9 | 12 | 12 | - | 2.14 | 2.53 | 2.53 | - | 7.20 ( 2.8 - 9.1 ) | 2.22 ( 0.98 - 3.54 ) | 3.24 | 7.2 | 5.9 | A+ |
| | 9 | 12 | 14 | - | 1.99 | 2.36 | 2.95 | - | 7.30 ( 2.8 - 9.2 ) | 2.22 ( 0.98 - 3.57 ) | 3.29 | 7.3 | 5.9 | A+ |
| | 9 | 12 | 18 | - | 1.84 | 2.18 | 3.68 | - | 7.70 ( 2.8 - 9.9 ) | 2.22 ( 0.98 - 3.56 ) | 3.47 | 7.7 | 5.8 | A+ |
| | 9 | 12 | 24 | - | 1.66 | 1.97 | 4.18 | - | 7.80 ( 2.8 - 10.1 ) | 2.19 ( 0.98 - 3.56 ) | 3.56 | 7.8 | 5.8 | A+ |
| | 9 | 14 | 14 | - | 1.84 | 2.73 | 2.73 | - | 7.30 ( 3.5 - 9.3 ) | 2.22 ( 1.17 - 3.58 ) | 3.29 | 7.3 | 5.9 | A+ |
| | 9 | 14 | 18 | - | 1.74 | 2.58 | 3.48 | - | 7.80 ( 3.5 - 10.0 ) | 2.22 ( 1.17 - 3.58 ) | 3.51 | 7.8 | 5.8 | A+ |
| | 9 | 14 | 24 | - | 1.58 | 2.34 | 3.98 | - | 7.90 ( 3.5 - 10.1 ) | 2.22 ( 1.27 - 3.56 ) | 3.56 | 7.9 | 5.8 | A+ |
| | 9 | 18 | 18 | - | 1.56 | 3.12 | 3.12 | - | 7.80 ( 4.7 - 10.1 ) | 2.22 ( 1.27 - 3.58 ) | 3.51 | 7.8 | 5.7 | A+ |
| | 12 | 12 | 12 | - | 2.43 | 2.43 | 2.43 | - | 7.30 ( 2.8 - 9.2 ) | 2.22 ( 0.98 - 3.55 ) | 3.29 | 7.3 | 5.9 | A+ |
| | 12 | 12 | 14 | - | 2.28 | 2.28 | 2.85 | - | 7.40 ( 2.8 - 9.3 ) | 2.22 ( 0.98 - 3.58 ) | 3.33 | 7.4 | 5.9 | A+ |
| | 12 | 12 | 18 | - | 2.12 | 2.12 | 3.57 | - | 7.80 ( 3.5 - 10.0 ) | 2.22 ( 1.17 - 3.57 ) | 3.51 | 7.8 | 5.8 | A+ |
| | 12 | 12 | 24 | - | 1.92 | 1.92 | 4.07 | - | 7.90 ( 3.5 - 10.1 ) | 2.20 ( 1.17 - 3.54 ) | 3.59 | 7.9 | 5.8 | A+ |
| | 12 | 14 | 14 | - | 2.11 | 2.64 | 2.64 | - | 7.40 ( 3.5 - 9.4 ) | 2.22 ( 1.17 - 3.58 ) | 3.33 | 7.4 | 5.9 | A+ |
| | 12 | 14 | 18 | - | 1.98 | 2.48 | 3.34 | - | 7.80 ( 3.5 - 10.1 ) | 2.22 ( 1.17 - 3.58 ) | 3.51 | 7.8 | 5.8 | A+ |
| | 12 | 18 | 18 | - | 1.81 | 3.05 | 3.05 | - | 7.90 ( 4.7 - 10.1 ) | 2.22 ( 1.27 - 3.58 ) | 3.56 | 7.9 | 5.7 | A+ |
| 4 Room | 7 | 7 | 7 | 7 | 1.93 | 1.93 | 1.93 | 1.93 | 7.70 ( 1.6 - 9.6 ) | 2.20 ( 0.68 - 3.41 ) | 3.50 | 7.7 | 6.2 | A++ |
| | 7 | 7 | 7 | 9 | 1.89 | 1.89 | 1.89 | 2.13 | 7.80 ( 1.6 - 9.8 ) | 2.22 ( 0.68 - 3.54 ) | 3.51 | 7.8 | 6.2 | A++ |
| | 7 | 7 | 7 | 12 | 1.83 | 1.83 | 1.83 | 2.41 | 7.90 ( 1.6 - 9.9 ) | 2.22 ( 0.68 - 3.54 ) | 3.56 | 7.9 | 6.1 | A++ |
| | 7 | 7 | 7 | 14 | 1.70 | 1.70 | 1.70 | 2.80 | 7.90 ( 2.8 - 9.9 ) | 2.22 ( 0.98 - 3.56 ) | 3.56 | 7.9 | 6.1 | A++ |
| | 7 | 7 | 7 | 18 | 1.52 | 1.52 | 1.52 | 3.43 | 8.00 ( 2.8 - 10.1 ) | 2.20 ( 0.98 - 3.55 ) | 3.64 | 8.0 | 6.0 | A+ |
| | 7 | 7 | 9 | 9 | 1.86 | 1.86 | 2.09 | 2.09 | 7.90 ( 2.8 - 9.7 ) | 2.22 ( 0.98 - 3.42 ) | 3.56 | 7.9 | 6.2 | A++ |
| | 7 | 7 | 9 | 12 | 1.78 | 1.78 | 1.99 | 2.35 | 7.90 ( 2.8 - 9.9 ) | 2.22 ( 0.98 - 3.55 ) | 3.56 | 7.9 | 6.1 | A++ |
| | 7 | 7 | 9 | 14 | 1.68 | 1.68 | 1.88 | 2.76 | 8.00 ( 2.8 - 10.0 ) | 2.22 ( 0.98 - 3.57 ) | 3.60 | 8.0 | 6.1 | A++ |
| | 7 | 7 | 9 | 18 | 1.49 | 1.49 | 1.67 | 3.35 | 8.00 ( 3.5 - 10.1 ) | 2.20 ( 1.17 - 3.55 ) | 3.64 | 8.0 | 6.0 | A+ |
| | 7 | 7 | 12 | 12 | 1.72 | 1.72 | 2.28 | 2.28 | 8.00 ( 2.8 - 10.0 ) | 2.22 ( 0.98 - 3.55 ) | 3.60 | 8.0 | 6.1 | A++ |
| | 7 | 7 | 12 | 14 | 1.61 | 1.61 | 2.13 | 2.65 | 8.00 ( 2.8 - 10.0 ) | 2.22 ( 0.98 - 3.57 ) | 3.60 | 8.0 | 6.1 | A++ |
| | 7 | 7 | 12 | 18 | 1.43 | 1.43 | 1.91 | 3.22 | 8.00 ( 3.5 - 10.1 ) | 2.20 ( 1.17 - 3.56 ) | 3.64 | 8.0 | 6.0 | A+ |
| | 7 | 7 | 14 | 14 | 1.50 | 1.50 | 2.50 | 2.50 | 8.00 ( 3.5 - 10.1 ) | 2.22 ( 1.17 - 3.58 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 7 | 7 | 14 | 18 | 1.35 | 1.35 | 2.25 | 3.04 | 8.00 ( 3.5 - 10.1 ) | 2.22 ( 1.17 - 3.58 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 7 | 9 | 9 | 9 | 1.81 | 2.03 | 2.03 | 2.03 | 7.90 ( 2.8 - 9.9 ) | 2.22 ( 0.98 - 3.56 ) | 3.56 | 7.9 | 6.2 | A++ |
| | 7 | 9 | 9 | 12 | 1.76 | 1.96 | 1.96 | 2.32 | 8.00 ( 2.8 - 10.0 ) | 2.22 ( 0.98 - 3.56 ) | 3.60 | 8.0 | 6.1 | A++ |
| | 7 | 9 | 9 | 14 | 1.64 | 1.83 | 1.83 | 2.70 | 8.00 ( 3.5 - 10.1 ) | 2.22 ( 1.17 - 3.58 ) | 3.60 | 8.0 | 6.1 | A++ |
| | 7 | 9 | 9 | 18 | 1.45 | 1.64 | 1.64 | 3.27 | 8.00 ( 3.5 - 10.1 ) | 2.22 ( 1.17 - 3.56 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 7 | 9 | 12 | 12 | 1.68 | 1.88 | 2.22 | 2.22 | 8.00 ( 2.8 - 10.0 ) | 2.22 ( 0.98 - 3.56 ) | 3.60 | 8.0 | 6.1 | A++ |
| | 7 | 9 | 12 | 14 | 1.57 | 1.76 | 2.08 | 2.59 | 8.00 ( 3.5 - 10.1 ) | 2.22 ( 1.17 - 3.58 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 7 | 9 | 12 | 18 | 1.40 | 1.58 | 1.87 | 3.15 | 8.00 ( 3.5 - 10.1 ) | 2.22 ( 1.17 - 3.56 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 7 | 9 | 14 | 14 | 1.48 | 1.66 | 2.43 | 2.43 | 8.00 ( 3.5 - 10.1 ) | 2.22 ( 1.17 - 3.58 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 7 | 9 | 14 | 18 | 1.32 | 1.49 | 2.21 | 2.98 | 8.00 ( 4.7 - 10.1 ) | 2.22 ( 1.27 - 3.57 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 7 | 12 | 12 | 12 | 1.61 | 2.13 | 2.13 | 2.13 | 8.00 ( 2.8 - 10.1 ) | 2.22 ( 0.98 - 3.56 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 7 | 12 | 12 | 14 | 1.51 | 2.00 | 2.00 | 2.49 | 8.00 ( 3.5 - 10.1 ) | 2.22 ( 1.17 - 3.58 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 7 | 12 | 12 | 18 | 1.35 | 1.80 | 1.80 | 3.04 | 8.00 ( 3.5 - 10.1 ) | 2.22 ( 1.17 - 3.56 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 7 | 12 | 14 | 14 | 1.41 | 1.89 | 2.35 | 2.35 | 8.00 ( 3.5 - 10.1 ) | 2.22 ( 1.17 - 3.58 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 9 | 9 | 9 | 9 | 2.00 | 2.00 | 2.00 | 2.00 | 8.00 ( 3.5 - 10.0 ) | 2.22 ( 1.17 - 3.56 ) | 3.60 | 8.0 | 6.2 | A++ |
| | 9 | 9 | 9 | 12 | 1.91 | 1.91 | 1.91 | 2.27 | 8.00 ( 3.5 - 10.0 ) | 2.22 ( 1.17 - 3.56 ) | 3.60 | 8.0 | 6.1 | A++ |
| | 9 | 9 | 9 | 14 | 1.79 | 1.79 | 1.79 | 2.63 | 8.00 ( 3.5 - 10.0 ) | 2.22 ( 1.17 - 3.56 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 9 | 9 | 9 | 18*1 | 1.60 | 1.60 | 1.60 | 3.20 | 8.00 ( 4.7 - 10.0 ) | 2.22 ( 1.17 - 3.56 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 9 | 9 | 12 | 12 | 1.83 | 1.83 | 2.17 | 2.17 | 8.00 ( 3.5 - 10.0 ) | 2.22 ( 1.17 - 3.56 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 9 | 9 | 12 | 14 | 1.72 | 1.72 | 2.03 | 2.53 | 8.00 ( 3.5 - 10.0 ) | 2.22 ( 1.17 - 3.56 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 9 | 9 | 12 | 18*2 | 1.54 | 1.54 | 1.83 | 3.09 | 8.00 ( 4.7 - 10.0 ) | 2.22 ( 1.17 - 3.56 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 9 | 9 | 14 | 14 | 1.62 | 1.62 | 2.38 | 2.38 | 8.00 ( 4.7 - 10.0 ) | 2.22 ( 1.17 - 3.56 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 9 | 12 | 12 | 12 | 1.76 | 2.08 | 2.08 | 2.08 | 8.00 ( 3.5 - 10.0 ) | 2.22 ( 1.17 - 3.56 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 9 | 12 | 12 | 14 | 1.66 | 1.95 | 1.95 | 2.44 | 8.00 ( 3.5 - 10.0 ) | 2.22 ( 1.17 - 3.56 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 9 | 12 | 14 | 14 | 1.55 | 1.85 | 2.30 | 2.30 | 8.00 ( 4.7 - 10.0 ) | 2.22 ( 1.17 - 3.56 ) | 3.60 | 8.0 | 6.0 | A+ |
| | 12 | 12 | 12 | 12 | 2.00 | 2.00 | 2.00 | 2.00 | 8.00 ( 3.5 - 10.0 ) | 2.22 ( 1.17 - 3.56 ) | 3.60 | 8.0 | 6.0 | A+ |

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•3 or more indoor units should be connected.
•Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected indoor unit is up to 49000Btu from 27000Btu.
*1: Connection of ASYG18L + ARYG09L + ARYG09L + ARYG09L is not available. All types other than this combination can be connected.
*2: Connection of ASYG18L + ARYG12L + ARYG09L + ARYG09L is not available. All types other than this combination can be connected.

## 4 Rooms Multi heating

| AOYG30LAT4 | Combination of Indoor Unit | | | | HEATING OPERATION | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | Heating Capacity | | | | | Input Power (min-max) | COP | Seasonal Data | | |
| | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Total Capacity (min-max) | | | Pdesign | SCOP | Energy efficiency |
| | | | | | kW | kW | kW | kW | kW | kW | | kW | | |
| 3 Room | 7 | 7 | 14 | - | 2.42 | 2.42 | 4.15 | - | 9.00 ( 1.8 - 10.1 ) | 2.66 ( 0.58 - 3.53 ) | 3.38 | 5.8 | 3.8 | A |
| | 7 | 7 | 18 | - | 2.27 | 2.27 | 4.86 | - | 9.40 ( 3.3 - 11.2 ) | 2.46 ( 0.87 - 3.52 ) | 3.82 | 5.8 | 3.8 | A |
| | 7 | 7 | 24 | - | 2.03 | 2.03 | 5.44 | - | 9.50 ( 3.3 - 11.5 ) | 2.47 ( 0.87 - 3.52 ) | 3.85 | 5.8 | 3.8 | A |
| | 7 | 9 | 12 | - | 2.49 | 2.94 | 3.56 | - | 9.00 ( 1.8 - 10.0 ) | 2.69 ( 0.58 - 3.51 ) | 3.35 | 5.8 | 3.8 | A |
| | 7 | 9 | 14 | - | 2.33 | 2.75 | 4.00 | - | 9.10 ( 3.3 - 10.2 ) | 2.64 ( 0.87 - 3.50 ) | 3.45 | 5.8 | 3.8 | A |
| | 7 | 9 | 18 | - | 2.17 | 2.56 | 4.66 | - | 9.40 ( 3.3 - 11.3 ) | 2.45 ( 0.87 - 3.50 ) | 3.84 | 5.8 | 3.8 | A |
| | 7 | 9 | 24 | - | 1.98 | 2.33 | 5.29 | - | 9.60 ( 3.3 - 11.5 ) | 2.46 ( 0.87 - 3.51 ) | 3.90 | 5.8 | 3.8 | A |
| | 7 | 12 | 12 | - | 2.33 | 3.33 | 3.33 | - | 9.00 ( 1.8 - 10.1 ) | 2.66 ( 0.58 - 3.48 ) | 3.38 | 5.8 | 3.8 | A |
| | 7 | 12 | 14 | - | 2.22 | 3.17 | 3.80 | - | 9.20 ( 3.3 - 10.3 ) | 2.62 ( 0.87 - 3.48 ) | 3.51 | 5.8 | 3.8 | A |
| | 7 | 12 | 18 | - | 2.08 | 2.97 | 4.45 | - | 9.50 ( 3.3 - 11.4 ) | 2.44 ( 0.87 - 3.47 ) | 3.89 | 5.8 | 3.8 | A |
| | 7 | 12 | 24 | - | 1.88 | 2.69 | 5.03 | - | 9.60 ( 3.3 - 11.7 ) | 2.45 ( 0.87 - 3.56 ) | 3.92 | 5.8 | 3.8 | A |
| | 7 | 14 | 14 | - | 2.10 | 3.60 | 3.60 | - | 9.30 ( 3.3 - 10.6 ) | 2.59 ( 0.87 - 3.48 ) | 3.59 | 5.8 | 3.8 | A |
| | 7 | 14 | 18 | - | 1.96 | 3.35 | 4.19 | - | 9.50 ( 3.7 - 11.5 ) | 2.42 ( 0.97 - 3.52 ) | 3.93 | 5.8 | 3.8 | A |
| | 7 | 14 | 24 | - | 1.78 | 3.05 | 4.77 | - | 9.60 ( 3.3 - 11.7 ) | 2.45 ( 0.87 - 3.56 ) | 3.92 | 5.8 | 3.8 | A |
| | 7 | 18 | 18 | - | 1.82 | 3.89 | 3.89 | - | 9.60 ( 3.7 - 12.0 ) | 2.40 ( 0.97 - 3.52 ) | 4.00 | 5.8 | 3.8 | A |
| | 7 | 18 | 24 | - | 1.65 | 3.53 | 4.42 | - | 9.60 ( 4.3 - 12.0 ) | 2.40 ( 1.12 - 3.52 ) | 4.00 | 5.8 | 3.8 | A |
| | 9 | 9 | 9 | - | 3.00 | 3.00 | 3.00 | - | 9.00 ( 3.3 - 10.0 ) | 2.69 ( 0.87 - 3.51 ) | 3.35 | 5.8 | 3.8 | A |
| | 9 | 9 | 12 | - | 2.80 | 2.80 | 3.39 | - | 9.00 ( 3.3 - 10.1 ) | 2.67 ( 0.87 - 3.48 ) | 3.37 | 5.8 | 3.8 | A |
| | 9 | 9 | 14 | - | 2.66 | 2.66 | 3.87 | - | 9.20 ( 3.3 - 10.3 ) | 2.63 ( 0.87 - 3.48 ) | 3.50 | 5.8 | 3.8 | A |
| | 9 | 9 | 18 | - | 2.49 | 2.49 | 4.52 | - | 9.50 ( 3.7 - 11.4 ) | 2.44 ( 0.97 - 3.48 ) | 3.89 | 5.8 | 3.8 | A |
| | 9 | 9 | 24 | - | 2.25 | 2.25 | 5.11 | - | 9.60 ( 3.7 - 11.7 ) | 2.45 ( 0.97 - 3.57 ) | 3.92 | 5.8 | 3.8 | A |
| | 9 | 12 | 12 | - | 2.65 | 3.22 | 3.22 | - | 9.10 ( 3.3 - 10.3 ) | 2.65 ( 0.87 - 3.52 ) | 3.43 | 5.8 | 3.8 | A |
| | 9 | 12 | 14 | - | 2.53 | 3.07 | 3.69 | - | 9.30 ( 3.3 - 10.5 ) | 2.61 ( 0.87 - 3.52 ) | 3.56 | 5.8 | 3.8 | A |
| | 9 | 12 | 18 | - | 2.36 | 2.86 | 4.29 | - | 9.50 ( 3.7 - 11.4 ) | 2.43 ( 0.97 - 3.47 ) | 3.91 | 5.8 | 3.8 | A |
| | 9 | 12 | 24 | - | 2.14 | 2.59 | 4.86 | - | 9.60 ( 3.7 - 11.8 ) | 2.44 ( 0.97 - 3.55 ) | 3.93 | 5.8 | 3.8 | A |
| | 9 | 14 | 14 | - | 2.38 | 3.46 | 3.46 | - | 9.30 ( 3.7 - 10.7 ) | 2.58 ( 0.97 - 3.46 ) | 3.60 | 5.8 | 3.8 | A |
| | 9 | 14 | 18 | - | 2.22 | 3.23 | 4.04 | - | 9.50 ( 3.7 - 11.6 ) | 2.41 ( 0.97 - 3.51 ) | 3.94 | 5.8 | 3.8 | A |
| | 9 | 14 | 24 | - | 2.03 | 2.95 | 4.62 | - | 9.60 ( 4.3 - 11.9 ) | 2.42 ( 1.12 - 3.57 ) | 3.97 | 5.8 | 3.8 | A |
| | 9 | 18 | 18 | - | 2.07 | 3.76 | 3.76 | - | 9.60 ( 4.3 - 12.0 ) | 2.40 ( 1.12 - 3.52 ) | 4.00 | 5.8 | 3.8 | A |
| | 12 | 12 | 12 | - | 3.07 | 3.07 | 3.07 | - | 9.20 ( 3.3 - 10.3 ) | 2.63 ( 0.87 - 3.49 ) | 3.50 | 5.8 | 3.8 | A |
| | 12 | 12 | 14 | - | 2.91 | 2.91 | 3.49 | - | 9.30 ( 3.3 - 10.6 ) | 2.59 ( 0.87 - 3.49 ) | 3.59 | 5.8 | 3.8 | A |
| | 12 | 12 | 18 | - | 2.71 | 2.71 | 4.07 | - | 9.50 ( 3.7 - 11.6 ) | 2.42 ( 0.97 - 3.52 ) | 3.93 | 5.8 | 3.8 | A |
| | 12 | 12 | 24 | - | 2.48 | 2.48 | 4.65 | - | 9.60 ( 3.7 - 11.8 ) | 2.43 ( 0.97 - 3.54 ) | 3.95 | 5.8 | 3.8 | A |
| | 12 | 14 | 14 | - | 2.76 | 3.32 | 3.32 | - | 9.40 ( 3.7 - 10.8 ) | 2.40 ( 0.97 - 3.50 ) | 3.92 | 5.8 | 3.8 | A |
| | 12 | 14 | 18 | - | 2.57 | 3.08 | 3.85 | - | 9.50 ( 3.7 - 11.6 ) | 2.40 ( 0.97 - 3.49 ) | 3.96 | 5.8 | 3.8 | A |
| | 12 | 18 | 18 | - | 2.40 | 3.60 | 3.60 | - | 9.60 ( 4.3 - 12.0 ) | 2.40 ( 1.12 - 3.52 ) | 4.00 | 5.8 | 3.8 | A |
| 4 Room | 7 | 7 | 7 | 7 | 2.35 | 2.35 | 2.35 | 2.35 | 9.40 ( 1.8 - 10.8 ) | 2.43 ( 0.58 - 3.47 ) | 3.87 | 6.2 | 4.0 | A+ |
| | 7 | 7 | 7 | 9 | 2.27 | 2.27 | 2.27 | 2.68 | 9.50 ( 1.8 - 10.9 ) | 2.42 ( 0.58 - 3.51 ) | 3.88 | 6.2 | 4.0 | A+ |
| | 7 | 7 | 7 | 12 | 2.14 | 2.14 | 2.14 | 3.06 | 9.50 ( 1.8 - 11.1 ) | 2.41 ( 0.58 - 3.55 ) | 3.94 | 6.2 | 4.0 | A+ |
| | 7 | 7 | 7 | 14 | 2.04 | 2.04 | 2.04 | 3.49 | 9.60 ( 3.3 - 11.3 ) | 2.38 ( 0.87 - 3.56 ) | 4.03 | 6.2 | 4.0 | A+ |
| | 7 | 7 | 7 | 18 | 1.87 | 1.87 | 1.87 | 4.00 | 9.60 ( 3.3 - 12.0 ) | 2.27 ( 0.87 - 3.56 ) | 4.23 | 6.2 | 4.0 | A+ |
| | 7 | 7 | 9 | 9 | 2.18 | 2.18 | 2.57 | 2.57 | 9.50 ( 3.3 - 10.9 ) | 2.41 ( 0.87 - 3.44 ) | 3.94 | 6.2 | 4.0 | A+ |
| | 7 | 7 | 9 | 12 | 2.06 | 2.06 | 2.43 | 2.95 | 9.50 ( 3.3 - 11.1 ) | 2.40 ( 0.87 - 3.54 ) | 3.96 | 6.2 | 4.0 | A+ |
| | 7 | 7 | 9 | 14 | 1.96 | 1.96 | 2.31 | 3.36 | 9.60 ( 3.3 - 11.4 ) | 2.38 ( 0.87 - 3.54 ) | 4.03 | 6.2 | 4.0 | A+ |
| | 7 | 7 | 9 | 18 | 1.80 | 1.80 | 2.13 | 3.87 | 9.60 ( 3.7 - 12.0 ) | 2.27 ( 0.97 - 3.55 ) | 4.23 | 6.2 | 4.0 | A+ |
| | 7 | 7 | 12 | 12 | 1.98 | 1.98 | 2.82 | 2.82 | 9.60 ( 3.3 - 11.3 ) | 2.39 ( 0.87 - 3.57 ) | 4.02 | 6.2 | 4.0 | A+ |
| | 7 | 7 | 12 | 14 | 1.87 | 1.87 | 2.67 | 3.20 | 9.60 ( 3.3 - 11.5 ) | 2.36 ( 0.87 - 3.58 ) | 4.07 | 6.2 | 4.0 | A+ |
| | 7 | 7 | 12 | 18 | 1.72 | 1.72 | 2.46 | 3.69 | 9.60 ( 3.7 - 12.0 ) | 2.27 ( 0.97 - 3.58 ) | 4.23 | 6.2 | 4.0 | A+ |
| | 7 | 7 | 14 | 14 | 1.77 | 1.77 | 3.03 | 3.03 | 9.60 ( 3.7 - 11.8 ) | 2.34( 0.97 - 3.58 ) | 4.10 | 6.2 | 4.0 | A+ |
| | 7 | 7 | 14 | 18 | 1.64 | 1.64 | 2.81 | 3.51 | 9.60 ( 3.7 - 12.0 ) | 2.27 ( 0.97 - 3.56 ) | 4.23 | 6.2 | 4.0 | A+ |
| | 7 | 9 | 9 | 9 | 2.09 | 2.47 | 2.47 | 2.47 | 9.50 ( 3.3 - 11.2 ) | 2.40 ( 0.87 - 3.54 ) | 4.00 | 6.2 | 4.0 | A+ |
| | 7 | 9 | 9 | 12 | 2.01 | 2.36 | 2.36 | 2.87 | 9.60 ( 3.3 - 11.3 ) | 2.39( 0.87 - 3.58 ) | 4.02 | 6.2 | 4.0 | A+ |
| | 7 | 9 | 9 | 14 | 1.89 | 2.23 | 2.23 | 3.25 | 9.60 ( 3.7 - 11.5 ) | 2.37 ( 0.97 - 3.58 ) | 4.05 | 6.2 | 4.0 | A+ |
| | 7 | 9 | 9 | 18 | 1.75 | 2.06 | 2.06 | 3.74 | 9.60 ( 3.7 - 12.0 ) | 2.27 ( 0.97 - 3.58 ) | 4.23 | 6.2 | 4.0 | A+ |
| | 7 | 9 | 12 | 12 | 1.91 | 2.25 | 2.72 | 2.72 | 9.60 ( 3.3 - 11.4 ) | 2.38 ( 0.87 - 3.58 ) | 4.03 | 6.2 | 4.0 | A+ |
| | 7 | 9 | 12 | 14 | 1.80 | 2.13 | 2.58 | 3.09 | 9.60 ( 3.7 - 11.6 ) | 2.35 ( 0.97 - 3.58 ) | 4.09 | 6.2 | 4.0 | A+ |
| | 7 | 9 | 12 | 18 | 1.67 | 1.97 | 2.39 | 3.58 | 9.60 ( 3.7 - 12.0 ) | 2.27 ( 0.97 - 3.58 ) | 4.23 | 6.2 | 4.0 | A+ |
| | 7 | 9 | 14 | 14 | 1.71 | 2.02 | 2.94 | 2.94 | 9.60 ( 3.7 - 11.8 ) | 2.33 ( 0.97 - 3.58 ) | 4.12 | 6.2 | 4.0 | A+ |
| | 7 | 9 | 14 | 18 | 1.59 | 1.87 | 2.73 | 3.41 | 9.60 ( 4.3 - 12.0 ) | 2.27 ( 1.12 - 3.58 ) | 4.23 | 6.2 | 4.0 | A+ |
| | 7 | 12 | 12 | 12 | 1.81 | 2.59 | 2.59 | 2.59 | 9.60 ( 3.3 - 11.5 ) | 2.37 ( 0.87 - 3.58 ) | 4.05 | 6.2 | 4.0 | A+ |
| | 7 | 12 | 12 | 14 | 1.72 | 2.46 | 2.46 | 2.95 | 9.60 ( 3.7 - 11.7 ) | 2.34 ( 0.97 - 3.58 ) | 4.10 | 6.2 | 4.0 | A+ |
| | 7 | 12 | 12 | 18 | 1.60 | 2.29 | 2.29 | 3.43 | 9.60 ( 3.7 - 12.0 ) | 2.27 ( 0.97 - 3.56 ) | 4.23 | 6.2 | 4.0 | A+ |
| | 7 | 12 | 14 | 14 | 1.64 | 2.34 | 2.81 | 2.81 | 9.60 ( 3.7 - 11.9 ) | 2.32 ( 0.97 - 3.58 ) | 4.14 | 6.2 | 4.0 | A+ |
| | 9 | 9 | 9 | 9 | 2.40 | 2.40 | 2.40 | 2.40 | 9.60 ( 3.7 - 11.3 ) | 2.40 ( 0.97 - 3.58 ) | 4.00 | 6.2 | 4.0 | A+ |
| | 9 | 9 | 9 | 12 | 2.28 | 2.28 | 2.28 | 2.76 | 9.60 ( 3.7 - 11.4 ) | 2.38 ( 0.97 - 3.58 ) | 4.03 | 6.2 | 4.0 | A+ |
| | 9 | 9 | 9 | 14 | 2.16 | 2.16 | 2.16 | 3.14 | 9.60 ( 3.7 - 11.6 ) | 2.36 ( 0.97 - 3.58 ) | 4.07 | 6.2 | 4.0 | A+ |
| | 9 | 9 | 9 | 18*1 | 1.99 | 1.99 | 1.99 | 3.62 | 9.60 ( 4.3 - 12.0 ) | 2.27 ( 1.12 - 3.58 ) | 4.23 | 6.2 | 4.0 | A+ |
| | 9 | 9 | 12 | 12 | 2.17 | 2.17 | 2.63 | 2.63 | 9.60 ( 3.7 - 11.5 ) | 2.37 ( 0.97 - 3.58 ) | 4.05 | 6.2 | 4.0 | A+ |
| | 9 | 9 | 12 | 14 | 2.06 | 2.06 | 2.49 | 2.99 | 9.60 ( 3.7 - 11.7 ) | 2.35 ( 0.97 - 3.58 ) | 4.09 | 6.2 | 4.0 | A+ |
| | 9 | 9 | 12 | 18*2 | 1.91 | 1.91 | 2.31 | 3.47 | 9.60 ( 4.3 - 12.0 ) | 2.27 ( 1.12 - 3.58 ) | 4.23 | 6.2 | 4.0 | A+ |
| | 9 | 9 | 14 | 14 | 1.96 | 1.96 | 2.84 | 2.84 | 9.60 ( 4.3 - 11.9 ) | 2.33 ( 1.12 - 3.58 ) | 4.12 | 6.2

REFRIGERANT R410A

# 5 Rooms Multi Combination Table-Cooling

## 5 Rooms Multi cooling

| AOYG36LBLA5 | Combination of Indoor Unit | | | | | COOLING OPERATION | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Cooling Capacity | | | | | | Input Power (min-max) | EER | Seasonal Data | | |
| | | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Total Capacity (min-max) | | | Pdesign | SEER | Energy efficiency |
| | | | | | | kW | kW | kW | kW | kW | kW | kW | | kW | | |
| 2 Room | 7 | 24 | - | - | - | 2.00 | 7.00 | - | - | - | 9.0 (3.5-11.1) | 2.31 (0.8-3.29) | 3.89 | 9.0 | 6.5 | A++ |
| | 9 | 24 | - | - | - | 2.50 | 7.00 | - | - | - | 9.5 (3.5-11.8) | 2.53 (0.8-3.59) | 3.75 | 9.5 | 6.5 | A++ |
| | 12 | 24 | - | - | - | 3.33 | 6.67 | - | - | - | 10.0 (3.5-12.5) | 2.81 (0.8-3.88) | 3.56 | 10.0 | 6.5 | A++ |
| | 14 | 24 | - | - | - | 3.68 | 6.32 | - | - | - | 10.0 (3.5-12.5) | 2.81 (0.8-3.88) | 3.56 | 10.0 | 6.5 | A++ |
| | 18 | 18 | - | - | - | 5.00 | 5.00 | - | - | - | 10.0 (3.5-12.5) | 2.81 (0.8-3.88) | 3.56 | 10.0 | 6.5 | A++ |
| | 18 | 24 | - | - | - | 4.29 | 5.71 | - | - | - | 10.0 (3.5-12.5) | 2.79 (0.8-3.88) | 3.58 | 10.0 | 6.4 | A++ |
| | 24 | 24 | - | - | - | 5.00 | 5.00 | - | - | - | 10.0 (3.5-12.5) | 2.78 (0.8-3.88) | 3.60 | 10.0 | 6.4 | A++ |
| 3 Room | 7 | 7 | 14 | - | - | 2.00 | 2.00 | 4.00 | - | - | 8.0 (3.5-10.0) | 1.90 (0.8-2.85) | 4.21 | 8.0 | 6.7 | A++ |
| | 7 | 7 | 18 | - | - | 2.00 | 2.00 | 5.00 | - | - | 9.0 (3.5-11.4) | 2.32 (0.8-3.44) | 3.88 | 9.0 | 6.7 | A++ |
| | 7 | 7 | 24 | - | - | 1.84 | 1.84 | 6.32 | - | - | 10.0 (3.5-12.5) | 2.81 (0.8-3.88) | 3.56 | 10.0 | 6.6 | A++ |
| | 7 | 9 | 12 | - | - | 2.00 | 2.50 | 3.50 | - | - | 8.0 (3.5-10.0) | 1.90 (0.8-2.85) | 4.21 | 8.0 | 6.7 | A++ |
| | 7 | 9 | 14 | - | - | 2.00 | 2.50 | 4.00 | - | - | 8.5 (3.5-10.7) | 2.10 (0.8-3.15) | 4.05 | 8.5 | 6.7 | A++ |
| | 7 | 9 | 18 | - | - | 2.00 | 2.50 | 5.00 | - | - | 9.5 (3.5-12.1) | 2.55 (0.8-3.74) | 3.72 | 9.5 | 6.6 | A++ |
| | 7 | 9 | 24 | - | - | 1.75 | 2.25 | 6.00 | - | - | 10.0 (3.5-12.5) | 2.80 (0.8-3.88) | 3.57 | 10.0 | 6.6 | A++ |
| | 7 | 12 | 12 | - | - | 2.00 | 3.50 | 3.50 | - | - | 9.0 (3.5-11.1) | 2.27 (0.8-3.29) | 3.97 | 9.0 | 6.7 | A++ |
| | 7 | 12 | 14 | - | - | 2.00 | 3.50 | 4.00 | - | - | 9.5 (3.5-11.8) | 2.50 (0.8-3.59) | 3.80 | 9.5 | 6.7 | A++ |
| | 7 | 12 | 18 | - | - | 1.89 | 3.24 | 4.87 | - | - | 10.0 (3.5-12.5) | 2.81 (0.8-3.88) | 3.56 | 10.0 | 6.6 | A++ |
| | 7 | 12 | 24 | - | - | 1.63 | 2.79 | 5.58 | - | - | 10.0 (3.5-12.5) | 2.79 (0.8-3.88) | 3.59 | 10.0 | 6.6 | A++ |
| | 7 | 14 | 14 | - | - | 2.00 | 4.00 | 4.00 | - | - | 10.0 (3.5-12.5) | 2.81 (0.8-3.88) | 3.56 | 10.0 | 6.6 | A++ |
| | 7 | 14 | 18 | - | - | 1.79 | 3.59 | 4.62 | - | - | 10.0 (3.5-12.5) | 2.80 (0.8-3.88) | 3.57 | 10.0 | 6.6 | A++ |
| | 7 | 14 | 24 | - | - | 1.56 | 3.11 | 5.33 | - | - | 10.0 (3.5-12.5) | 2.78 (0.8-3.88) | 3.60 | 10.0 | 6.5 | A++ |
| | 7 | 18 | 18 | - | - | 1.62 | 4.19 | 4.19 | - | - | 10.0 (3.5-12.5) | 2.79 (0.8-3.88) | 3.59 | 10.0 | 6.6 | A++ |
| | 7 | 18 | 24 | - | - | 1.43 | 3.67 | 4.90 | - | - | 10.0 (3.5-12.5) | 2.77 (0.8-3.88) | 3.61 | 10.0 | 6.5 | A++ |
| | 9 | 9 | 9 | - | - | 2.50 | 2.50 | 2.50 | - | - | 7.5 (3.5-9.6) | 1.74 (0.8-2.70) | 4.30 | 7.5 | 6.7 | A++ |
| | 9 | 9 | 12 | - | - | 2.50 | 2.50 | 3.50 | - | - | 8.5 (3.5-10.7) | 2.10 (0.8-3.15) | 4.05 | 8.5 | 6.7 | A++ |
| | 9 | 9 | 14 | - | - | 2.50 | 2.50 | 4.00 | - | - | 9.0 (3.5-11.4) | 2.32 (0.8-3.44) | 3.88 | 9.0 | 6.7 | A++ |
| | 9 | 9 | 18 | - | - | 2.50 | 2.50 | 5.00 | - | - | 10.0 (3.5-12.5) | 2.81 (0.8-3.88) | 3.56 | 10.0 | 6.6 | A++ |
| | 9 | 9 | 24 | - | - | 2.14 | 2.14 | 5.72 | - | - | 10.0 (3.5-12.5) | 2.79 (0.8-3.88) | 3.58 | 10.0 | 6.6 | A++ |
| | 9 | 12 | 12 | - | - | 2.50 | 3.50 | 3.50 | - | - | 9.5 (3.5-11.8) | 2.50 (0.8-3.59) | 3.80 | 9.5 | 6.7 | A++ |
| | 9 | 12 | 14 | - | - | 2.50 | 3.50 | 4.00 | - | - | 10.0 (3.5-12.5) | 2.81 (0.8-3.88) | 3.56 | 10.0 | 6.6 | A++ |
| | 9 | 12 | 18 | - | - | 2.31 | 3.08 | 4.61 | - | - | 10.0 (3.5-12.5) | 2.80 (0.8-3.88) | 3.57 | 10.0 | 6.6 | A++ |
| | 9 | 12 | 24 | - | - | 2.00 | 2.67 | 5.33 | - | - | 10.0 (3.5-12.5) | 2.78 (0.8-3.88) | 3.60 | 10.0 | 6.5 | A++ |
| | 9 | 14 | 14 | - | - | 2.44 | 3.78 | 3.78 | - | - | 10.0 (3.5-12.5) | 2.81 (0.8-3.88) | 3.56 | 10.0 | 6.6 | A++ |
| | 9 | 14 | 18 | - | - | 2.20 | 3.41 | 4.39 | - | - | 10.0 (3.5-12.5) | 2.79 (0.8-3.88) | 3.58 | 10.0 | 6.6 | A++ |
| | 9 | 14 | 24 | - | - | 1.91 | 2.98 | 5.11 | - | - | 10.0 (3.5-12.5) | 2.78 (0.8-3.88) | 3.60 | 10.0 | 6.5 | A++ |
| | 9 | 18 | 18 | - | - | 2.00 | 4.00 | 4.00 | - | - | 10.0 (3.5-12.5) | 2.78 (0.8-3.88) | 3.60 | 10.0 | 6.5 | A++ |
| | 9 | 18 | 24 | - | - | 1.76 | 3.53 | 4.71 | - | - | 10.0 (3.5-12.5) | 2.76 (0.8-3.88) | 3.62 | 10.0 | 6.5 | A++ |
| | 12 | 12 | 12 | - | - | 3.33 | 3.33 | 3.33 | - | - | 10.0 (3.5-12.5) | 2.81 (0.8-3.88) | 3.56 | 10.0 | 6.6 | A++ |
| | 12 | 12 | 14 | - | - | 3.16 | 3.16 | 3.68 | - | - | 10.0 (3.5-12.5) | 2.81 (0.8-3.88) | 3.56 | 10.0 | 6.6 | A++ |
| | 12 | 12 | 18 | - | - | 2.86 | 2.86 | 4.28 | - | - | 10.0 (3.5-12.5) | 2.79 (0.8-3.88) | 3.58 | 10.0 | 6.6 | A++ |
| | 12 | 12 | 24 | - | - | 2.50 | 2.50 | 5.00 | - | - | 10.0 (3.5-12.5) | 2.77 (0.8-3.88) | 3.61 | 10.0 | 6.5 | A++ |
| | 12 | 14 | 14 | - | - | 3.00 | 3.50 | 3.50 | - | - | 10.0 (3.5-12.5) | 2.80 (0.8-3.88) | 3.57 | 10.0 | 6.6 | A++ |
| | 12 | 14 | 18 | - | - | 2.73 | 3.18 | 4.09 | - | - | 10.0 (3.5-12.5) | 2.79 (0.8-3.88) | 3.59 | 10.0 | 6.6 | A++ |
| | 12 | 14 | 24 | - | - | 2.40 | 2.80 | 4.80 | - | - | 10.0 (3.5-12.5) | 2.76 (0.8-3.88) | 3.62 | 10.0 | 6.5 | A++ |
| | 12 | 18 | 18 | - | - | 2.50 | 3.75 | 3.75 | - | - | 10.0 (3.5-12.5) | 2.77 (0.8-3.88) | 3.61 | 10.0 | 6.5 | A++ |
| | 12 | 18 | 24 | - | - | 2.22 | 3.33 | 4.45 | - | - | 10.0 (3.5-12.5) | 2.75 (0.8-3.88) | 3.64 | 10.0 | 6.5 | A++ |
| | 14 | 14 | 14 | - | - | 3.33 | 3.33 | 3.33 | - | - | 10.0 (3.5-12.5) | 2.79 (0.8-3.88) | 3.58 | 10.0 | 6.6 | A++ |
| | 14 | 14 | 18 | - | - | 3.04 | 3.04 | 3.92 | - | - | 10.0 (3.5-12.5) | 2.78 (0.8-3.88) | 3.60 | 10.0 | 6.5 | A++ |
| | 14 | 14 | 24 | - | - | 2.69 | 2.69 | 4.62 | - | - | 10.0 (3.5-12.5) | 2.75 (0.8-3.88) | 3.63 | 10.0 | 6.5 | A++ |
| | 14 | 18 | 18 | - | - | 2.80 | 3.60 | 3.60 | - | - | 10.0 (3.5-12.5) | 2.76 (0.8-3.88) | 3.62 | 10.0 | 6.5 | A++ |
| | 18 | 18 | 18 | - | - | 3.33 | 3.33 | 3.33 | - | - | 10.0 (3.5-12.5) | 2.75 (0.8-3.88) | 3.64 | 10.0 | 6.5 | A++ |
| 4 Room | 7 | 7 | 7 | 7 | - | 2.00 | 2.00 | 2.00 | 2.00 | - | 8.0 (3.5-10.0) | 1.84 (0.8-2.85) | 4.34 | 8.0 | 6.8 | A++ |
| | 7 | 7 | 7 | 9 | - | 2.00 | 2.00 | 2.00 | 2.50 | - | 8.5 (3.5-10.7) | 2.00 (0.8-3.15) | 4.25 | 8.5 | 6.8 | A++ |
| | 7 | 7 | 7 | 12 | - | 2.00 | 2.00 | 2.00 | 3.50 | - | 9.5 (3.5-11.8) | 2.32 (0.8-3.59) | 4.10 | 9.5 | 6.8 | A++ |
| | 7 | 7 | 7 | 14 | - | 2.00 | 2.00 | 2.00 | 4.00 | - | 10.0 (3.5-12.5) | 2.50 (0.8-3.88) | 4.00 | 10.0 | 6.8 | A++ |
| | 7 | 7 | 7 | 18 | - | 1.79 | 1.79 | 1.79 | 4.63 | - | 10.0 (3.5-12.5) | 2.49 (0.8-3.88) | 4.01 | 10.0 | 6.8 | A++ |
| | 7 | 7 | 7 | 24 | - | 1.56 | 1.56 | 1.56 | 5.32 | - | 10.0 (3.5-12.5) | 2.47 (0.8-3.88) | 4.05 | 10.0 | 6.7 | A++ |
| | 7 | 7 | 9 | 9 | - | 2.00 | 2.00 | 2.50 | 2.50 | - | 9.0 (3.5-11.4) | 2.17 (0.8-3.44) | 4.15 | 9.0 | 6.8 | A++ |
| | 7 | 7 | 9 | 12 | - | 2.00 | 2.00 | 2.50 | 3.50 | - | 10.0 (3.5-12.5) | 2.50 (0.8-3.88) | 4.00 | 10.0 | 6.8 | A++ |
| | 7 | 7 | 9 | 14 | - | 1.89 | 1.89 | 2.43 | 3.79 | - | 10.0 (3.5-12.5) | 2.50 (0.8-3.88) | 4.00 | 10.0 | 6.8 | A++ |
| | 7 | 7 | 9 | 18 | - | 1.71 | 1.71 | 2.20 | 4.38 | - | 10.0 (3.5-12.5) | 2.49 (0.8-3.88) | 4.02 | 10.0 | 6.8 | A++ |
| | 7 | 7 | 9 | 24 | - | 1.49 | 1.49 | 1.91 | 5.11 | - | 10.0 (3.5-12.5) | 2.46 (0.8-3.88) | 4.06 | 10.0 | 6.7 | A++ |
| | 7 | 7 | 12 | 12 | - | 1.84 | 1.84 | 3.16 | 3.16 | - | 10.0 (3.5-12.5) | 2.49 (0.8-3.88) | 4.01 | 10.0 | 6.8 | A++ |
| | 7 | 7 | 12 | 14 | - | 1.75 | 1.75 | 3.00 | 3.50 | - | 10.0 (3.5-12.5) | 2.49 (0.8-3.88) | 4.02 | 10.0 | 6.8 | A++ |
| | 7 | 7 | 12 | 18 | - | 1.59 | 1.59 | 2.73 | 4.09 | - | 10.0 (3.5-12.5) | 2.48 (0.8-3.88) | 4.04 | 10.0 | 6.8 | A++ |
| | 7 | 7 | 12 | 24 | - | 1.40 | 1.40 | 2.40 | 4.80 | - | 10.0 (3.5-12.5) | 2.46 (0.8-3.88) | 4.07 | 10.0 | 6.7 | A++ |
| | 7 | 7 | 14 | 14 | - | 1.67 | 1.67 | 3.33 | 3.33 | - | 10.0 (3.5-12.5) | 2.48 (0.8-3.88) | 4.03 | 10.0 | 6.8 | A++ |
| | 7 | 7 | 14 | 18 | - | 1.52 | 1.52 | 3.04 | 3.92 | - | 10.0 (3.5-12.5) | 2.47 (0.8-3.88) | 4.05 | 10.0 | 6.7 | A++ |
| | 7 | 7 | 14 | 24 | - | 1.35 | 1.35 | 2.69 | 4.61 | - | 10.0 (3.5-12.5) | 2.45 (0.8-3.88) | 4.08 | 10.0 | 6.7 | A++ |
| | 7 | 7 | 18 | 18 | - | 1.40 | 1.40 | 3.60 | 3.60 | - | 10.0 (3.5-12.5) | 2.46 (0.8-3.88) | 4.07 | 10.0 | 6.7 | A++ |
| | 7 | 9 | 9 | 9 | - | 2.00 | 2.50 | 2.50 | 2.50 | - | 9.5 (3.5-12.1) | 2.35 (0.8-3.74) | 4.05 | 9.5 | 6.8 | A++ |
| | 7 | 9 | 9 | 12 | - | 1.89 | 2.43 | 2.43 | 3.25 | - | 10.0 (3.5-12.5) | 2.50 (0.8-3.88) | 4.00 | 10.0 | 6.8 | A++ |
| | 7 | 9 | 9 | 14 | - | 1.79 | 2.31 | 2.31 | 3.59 | - | 10.0 (3.5-12.5) | 2.49 (0.8-3.88) | 4.01 | 10.0 | 6.8 | A++ |
| | 7 | 9 | 9 | 18 | - | 1.63 | 2.09 | 2.09 | 4.19 | - | 10.0 (3.5-12.5) | 2.48 (0.8-3.88) | 4.03 | 10.0 | 6.8 | A++ |
| | 7 | 9 | 9 | 24 | - | 1.43 | 1.84 | 1.84 | 4.89 | - | 10.0 (3.5-12.5) | 2.46 (0.8-3.88) | 4.07 | 10.0 | 6.7 | A++ |
| | 7 | 9 | 12 | 12 | - | 1.75 | 2.25 | 3.00 | 3.00 | - | 10.0 (3.5-12.5) | 2.49 (0.8-3.88) | 4.02 | 10.0 | 6.8 | A++ |
| | 7 | 9 | 12 | 14 | - | 1.67 | 2.14 | 2.86 | 3.33 | - | 10.0 (3.5-12.5) | 2.48 (0.8-3.88) | 4.03 | 10.0 | 6.8 | A++ |
| | 7 | 9 | 12 | 18 | - | 1.52 | 1.96 | 2.61 | 3.91 | - | 10.0 (3.5-12.5) | 2.47 (0.8-3.88) | 4.05 | 10.0 | 6.7 | A++ |
| | 7 | 9 | 12 | 24 | - | 1.35 | 1.73 | 2.31 | 4.61 | - | 10.0 (3.5-12.5) | 2.45 (0.8-3.88) | 4.08 | 10.0 | 6.7 | A++ |
| | 7 | 9 | 14 | 14 | - | 1.59 | 2.05 | 3.18 | 3.18 | - | 10.0 (3.5-12.5) | 2.48 (0.8-3.88) | 4.04 | 10.0 | 6.8 | A++ |
| | 7 | 9 | 14 | 18 | - | 1.46 | 1.88 | 2.92 | 3.74 | - | 10.0 (3.5-12.5) | 2.46 (0.8-3.88) | 4.06 | 10.0 | 6.7 | A++ |
| | 7 | 9 | 14 | 24 | - | 1.30 | 1.67 | 2.59 | 4.44 | - | 10.0 (3.5-12.5) | 2.44 (0.8-3.88) | 4.10 | 10.0 | 6.7 | A++ |
| | 7 | 9 | 18 | 18 | - | 1.35 | 1.73 | 3.46 | 3.46 | - | 10.0 (3.5-12.5) | 2.45 (0.8-3.88) | 4.08 | 10.0 | 6.7 | A++ |
| | 7 | 12 | 12 | 12 | - | 1.63 | 2.79 | 2.79 | 2.79 | - | 10.0 (3.5-12.5) | 2.48 (0.8-3.88) | 4.03 | 10.0 | 6.8 | A++ |
| | 7 | 12 | 12 | 14 | - | 1.56 | 2.67 | 2.67 | 3.10 | - | 10.0 (3.5-12.5) | 2.47 (0.8-3.88) | 4.05 | 10.0 | 6.7 | A++ |
| | 7 | 12 | 12 | 18 | - | 1.43 | 2.45 | 2.45 | 3.67 | - | 10.0 (3.5-12.5) | 2.46 (0.8-3.88) | 4.07 | 10.0 | 6.7 | A++ |
| | 7 | 12 | 14 | 14 | - | 1.49 | 2.55 | 2.98 | 2.98 | - | 10.0 (3.5-12.5) | 2.46 (0.8-3.88) | 4.06 | 10.0 | 6.7 | A++ |
| | 7 | 12 | 14 | 18 | - | 1.37 | 2.35 | 2.75 | 3.53 | - | 10.0 (3.5-12.5) | 2.45 (0.8-3.88) | 4.08 | 10.0 | 6.7 | A++ |
| | 7 | 14 | 14 | 14 | - | 1.42 | 2.86 | 2.86 | 2.86 | - | 10.0 (3.5-12.5) | 2.46 (0.8-3.88) | 4.07 | 10.0 | 6.7 | A++ |
| | 7 | 14 | 14 | 18 | - | 1.32 | 2.64 | 2.64 | 3.40 | - | 10.0 (3.5-12.5) | 2.44 (0.8-3.88) | 4.09 | 10.0 | 6.7 | A++ |
| | 9 | 9 | 9 | 9 | - | 2.50 | 2.50 | 2.50 | 2.50 | - | 10.0 (3.5-12.5) | 2.50 (0.8-3.88) | 4.00 | 10.0 | 6.8 | A++ |
| | 9 | 9 | 9 | 12 | - | 2.31 | 2.31 | 2.31 | 3.07 | - | 10.0 (3.5-12.5) | 2.49 (0.8-3.88) | 4.01 | 10.0 | 6.8 | A++ |
| | 9 | 9 | 9 | 14 | - | 2.20 | 2.20 | 2.20 | 3.40 | - | 10.0 (3.5-12.5) | 2.49 (0.8-3.88) | 4.02 | 10.0 | 6.8 | A++ |
| | 9 | 9 | 9 | 18 | - | 2.00 | 2.00 | 2.00 | 4.00 | - | 10.0 (3.5-12.5) | 2.47 (0.8-3.88) | 4.05 | 10.0 | 6.7 | A++ |
| | 9 | 9 | 9 | 24 | - | 1.76 | 1.76 | 1.76 | 4.72 | - | 10.0 (3.5-12.5) | 2.45 (0.8-3.88) | 4.08 | 10.0 | 6.7 | A++ |
| | 9 | 9 | 12 | 12 | - | 2.14 | 2.14 | 2.86 | 2.86 | - | 10.0 (3.5-12.5) | 2.48 (0.8-3.88) | 4.03 | 10.0 | 6.8 | A++ |
| | 9 | 9 | 12 | 14 | - | 2.05 | 2.05 | 2.73 | 3.17 | - | 10.0 (3.5-12.5) | 2.48 (0.8-3.88) | 4.04 | 10.0 | 6.8 | A++ |
| | 9 | 9 | 12 | 18 | - | 1.88 | 1.88 | 2.50 | 3.74 | - | 10.0 (3.5-12.5) | 2.46 (0.8-3.88) | 4.06 | 10.0 | 6.7 | A++ |
| | 9 | 9 | 12 | 24 | - | 1.67 | 1.67 | 2.22 | 4.44 | - | 10.0 (3.5-12.5) | 2.44 (0.8-3.88) | 4.10 | 10.0 | 6.7 | A++ |
| | 9 | 9 | 14 | 14 | - | 1.96 | 1.96 | 3.04 | 3.04 | - | 10.0 (3.5-12.5) | 2.47 (0.8-3.88) | 4.05 | 10.0 | 6.7 | A++ |
| | 9 | 9 | 14 | 18 | - | 1.80 | 1.80 | 2.80 | 3.60 | - | 10.0 (3.5-12.5) | 2.46 (0.8-3.88) | 4.07 | 10.0 | 6.7 | A++ |
| | 9 | 9 | 18 | 18 | - | 1.67 | 1.67 | 3.33 | 3.33 | - | 10.0 (3.5-12.5) | 2.44 (0.8-3.88) | 4.10 | 10.0 | 6.7 | A++ |
| | 9 | 12 | 12 | 12 | - | 1.99 | 2.67 | 2.67 | 2.67 | - | 10.0 (3.5-12.5) | 2.47 (0.8-3.88) | 4.05 | 10.0 | 6.7 | A++ |
| | 9 | 12 | 12 | 14 | - | 1.91 | 2.55 | 2.55 | 2.99 | - | 10.0 (3.5-12.5) | 2.46 (0.8-3.88) | 4.06 | 10.0 | 6.7 | A++ |
| | 9 | 12 | 12 | 18 | - | 1.76 | 2.35 | 2.35 | 3.54 | - | 10.0 (3.5-12.5) | 2.45 (0.8-3.88) | 4.08 | 10.0 | 6.7 | A++ |
| | 9 | 12 | 14 | 14 | - | 1.83 | 2.45 | 2.86 | 2.86 | - | 10.0 (3.5-12.5) | 2.46 (0.8-3.88) | 4.07 | 10.0 | 6.7 | A++ |
| | 9 | 12 | 14 | 18 | - | 1.70 | 2.26 | 2.64 | 3.40 | - | 10.0 (3.5-12.5) | 2.44 (0.8-3.88) | 4.09 | 10.0 | 6.7 | A++ |
| | 9 | 14 | 14 | 14 | - | 1.75 | 2.75 | 2.75 | 2.75 | - | 10.0 (3.5-12.5) | 2.45 (0.8-3.88) | 4.08 | 10.0 | 6.7 | A++ |
| | 12 | 12 | 12 | 12 | - | 2.50 | 2.50 | 2.50 | 2.50 | - | 10.0 (3.5-12.5) | 2.46 (0.8-3.88) | 4.06 | 10.0 | 6.7 | A++ |
| | 12 | 12 | 12 | 14 | - | 2.40 | 2.40 | 2.40 | 2.80 | - | 10.0 (3.5-12.5) | 2.46 (0.8-3.88) | 4.07 | 10.0 | 6.7 | A++ |
| | 12 | 12 | 12 | 18 | - | 2.22 | 2.22 | 2.22 | 3.34 | - | 10.0 (3.5-12.5) | 2.44 (0.8-3.88) | 4.10 | 10.0 | 6.7 | A++ |
| | 12 | 12 | 14 | 14 | - | 2.31 | 2.31 | 2.69 | 2.69 | - | 10.0 (3.5-12.5) | 2.45 (0.8-3.88) | 4.08 | 10.0 | 6.7 | A++ |
| | 12 | 14 | 14 | 14 | - | 2.23 | 2.59 | 2.59 | 2.59 | - | 10.0 (3.5-12.5) | 2.44 (0.8-3.88) | 4.10 | 10.0 | 6.7 | A++ |

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected indoor unit is up to 54000Btu from 27000Btu.



## 5 Rooms Multi cooling

| AOYG36LBLA5 | Combination of Indoor Unit | | | | | COOLING OPERATION | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Cooling Capacity | | | | | | Input Power (min-max) | EER | Seasonal Data | | |
| | | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Total Capacity (min-max) | | | Pdesign | SEER | Energy efficiency |
| | | | | | | kW | kW | kW | kW | kW | kW | kW | | kW | | |
| 5 Room | 7 | 7 | 7 | 7 | 7 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 10.0 (3.5-12.5) | 2.44 (0.8-3.88) | 4.10 | 10.0 | 7.0 | A++ |
| | 7 | 7 | 7 | 7 | 9 | 1.89 | 1.89 | 1.89 | 1.89 | 2.44 | 10.0 (3.5-12.5) | 2.44 (0.8-3.88) | 4.10 | 10.0 | 7.0 | A++ |
| | 7 | 7 | 7 | 7 | 12 | 1.75 | 1.75 | 1.75 | 1.75 | 3.00 | 10.0 (3.5-12.5) | 2.43 (0.8-3.88) | 4.11 | 10.0 | 7.0 | A++ |
| | 7 | 7 | 7 | 7 | 14 | 1.67 | 1.67 | 1.67 | 1.67 | 3.32 | 10.0 (3.5-12.5) | 2.42 (0.8-3.88) | 4.13 | 10.0 | 7.0 | A++ |
| | 7 | 7 | 7 | 7 | 18 | 1.52 | 1.52 | 1.52 | 1.52 | 3.92 | 10.0 (3.5-12.5) | 2.41 (0.8-3.88) | 4.15 | 10.0 | 6.9 | A++ |
| | 7 | 7 | 7 | 7 | 24 | 1.35 | 1.35 | 1.35 | 1.35 | 4.60 | 10.0 (3.5-12.5) | 2.39 (0.8-3.88) | 4.19 | 10.0 | 6.9 | A++ |
| | 7 | 7 | 7 | 9 | 9 | 1.79 | 1.79 | 1.79 | 2.31 | 2.31 | 10.0 (3.5-12.5) | 2.43 (0.8-3.88) | 4.11 | 10.0 | 7.0 | A++ |
| | 7 | 7 | 7 | 9 | 12 | 1.67 | 1.67 | 1.67 | 2.14 | 2.85 | 10.0 (3.5-12.5) | 2.42 (0.8-3.88) | 4.13 | 10.0 | 7.0 | A++ |
| | 7 | 7 | 7 | 9 | 14 | 1.59 | 1.59 | 1.59 | 2.05 | 3.18 | 10.0 (3.5-12.5) | 2.42 (0.8-3.88) | 4.14 | 10.0 | 7.0 | A++ |
| | 7 | 7 | 7 | 9 | 18 | 1.46 | 1.46 | 1.46 | 1.88 | 3.74 | 10.0 (3.5-12.5) | 2.40 (0.8-3.88) | 4.17 | 10.0 | 6.9 | A++ |
| | 7 | 7 | 7 | 9 | 24 | 1.30 | 1.30 | 1.30 | 1.67 | 4.43 | 10.0 (3.5-12.5) | 2.38 (0.8-3.88) | 4.21 | 10.0 | 6.9 | A++ |
| | 7 | 7 | 7 | 12 | 12 | 1.56 | 1.56 | 1.56 | 2.66 | 2.66 | 10.0 (3.5-12.5) | 2.41 (0.8-3.88) | 4.15 | 10.0 | 7.0 | A++ |
| | 7 | 7 | 7 | 12 | 14 | 1.49 | 1.49 | 1.49 | 2.55 | 2.98 | 10.0 (3.5-12.5) | 2.40 (0.8-3.88) | 4.16 | 10.0 | 6.9 | A++ |
| | 7 | 7 | 7 | 12 | 18 | 1.37 | 1.37 | 1.37 | 2.35 | 3.54 | 10.0 (3.5-12.5) | 2.39 (0.8-3.88) | 4.19 | 10.0 | 6.9 | A++ |
| | 7 | 7 | 7 | 14 | 14 | 1.43 | 1.43 | 1.43 | 2.86 | 2.86 | 10.0 (3.5-12.5) | 2.40 (0.8-3.88) | 4.17 | 10.0 | 6.9 | A++ |
| | 7 | 7 | 7 | 14 | 18 | 1.32 | 1.32 | 1.32 | 2.64 | 3.40 | 10.0 (3.5-12.5) | 2.38 (0.8-3.88) | 4.20 | 10.0 | 6.9 | A++ |
| | 7 | 7 | 9 | 9 | 9 | 1.70 | 1.70 | 2.20 | 2.20 | 2.20 | 10.0 (3.5-12.5) | 2.43 (0.8-3.88) | 4.12 | 10.0 | 7.0 | A++ |
| | 7 | 7 | 9 | 9 | 12 | 1.59 | 1.59 | 2.05 | 2.05 | 2.72 | 10.0 (3.5-12.5) | 2.42 (0.8-3.88) | 4.14 | 10.0 | 7.0 | A++ |
| | 7 | 7 | 9 | 9 | 14 | 1.52 | 1.52 | 1.96 | 1.96 | 3.04 | 10.0 (3.5-12.5) | 2.41 (0.8-3.88) | 4.15 | 10.0 | 6.9 | A++ |
| | 7 | 7 | 9 | 9 | 18 | 1.40 | 1.40 | 1.80 | 1.80 | 3.60 | 10.0 (3.5-12.5) | 2.39 (0.8-3.88) | 4.18 | 10.0 | 6.9 | A++ |
| | 7 | 7 | 9 | 12 | 12 | 1.49 | 1.49 | 1.92 | 2.55 | 2.55 | 10.0 (3.5-12.5) | 2.40 (0.8-3.88) | 4.16 | 10.0 | 6.9 | A++ |
| | 7 | 7 | 9 | 12 | 14 | 1.43 | 1.43 | 1.84 | 2.45 | 2.85 | 10.0 (3.5-12.5) | 2.40 (0.8-3.88) | 4.17 | 10.0 | 6.9 | A++ |
| | 7 | 7 | 9 | 12 | 18 | 1.32 | 1.32 | 1.70 | 2.26 | 3.40 | 10.0 (3.5-12.5) | 2.38 (0.8-3.88) | 4.20 | 10.0 | 6.9 | A++ |
| | 7 | 7 | 9 | 14 | 14 | 1.37 | 1.37 | 1.76 | 2.75 | 2.75 | 10.0 (3.5-12.5) | 2.39 (0.8-3.88) | 4.19 | 10.0 | 6.9 | A++ |
| | 7 | 7 | 12 | 12 | 12 | 1.40 | 1.40 | 2.40 | 2.40 | 2.40 | 10.0 (3.5-12.5) | 2.39 (0.8-3.88) | 4.18 | 10.0 | 6.9 | A++ |
| | 7 | 7 | 12 | 12 | 14 | 1.35 | 1.35 | 2.31 | 2.31 | 2.68 | 10.0 (3.5-12.5) | 2.39 (0.8-3.88) | 4.19 | 10.0 | 6.9 | A++ |
| | 7 | 7 | 12 | 14 | 14 | 1.30 | 1.30 | 2.22 | 2.59 | 2.59 | 10.0 (3.5-12.5) | 2.38 (0.8-3.88) | 4.21 | 10.0 | 6.9 | A++ |
| | 7 | 9 | 9 | 9 | 9 | 1.64 | 2.09 | 2.09 | 2.09 | 2.09 | 10.0 (3.5-12.5) | 2.42 (0.8-3.88) | 4.13 | 10.0 | 7.0 | A++ |
| | 7 | 9 | 9 | 9 | 12 | 1.52 | 1.96 | 1.96 | 1.96 | 2.60 | 10.0 (3.5-12.5) | 2.41 (0.8-3.88) | 4.15 | 10.0 | 6.9 | A++ |
| | 7 | 9 | 9 | 9 | 14 | 1.46 | 1.88 | 1.88 | 1.88 | 2.90 | 10.0 (3.5-12.5) | 2.40 (0.8-3.88) | 4.17 | 10.0 | 6.9 | A++ |
| | 7 | 9 | 9 | 9 | 18 | 1.35 | 1.73 | 1.73 | 1.73 | 3.46 | 10.0 (3.5-12.5) | 2.39 (0.8-3.88) | 4.19 | 10.0 | 6.9 | A++ |
| | 7 | 9 | 9 | 12 | 12 | 1.42 | 1.84 | 1.84 | 2.45 | 2.45 | 10.0 (3.5-12.5) | 2.40 (0.8-3.88) | 4.17 | 10.0 | 6.9 | A++ |
| | 7 | 9 | 9 | 12 | 14 | 1.37 | 1.76 | 1.76 | 2.35 | 2.76 | 10.0 (3.5-12.5) | 2.39 (0.8-3.88) | 4.19 | 10.0 | 6.9 | A++ |
| | 7 | 9 | 9 | 12 | 18 | 1.32 | 1.70 | 1.70 | 2.64 | 2.64 | 10.0 (3.5-12.5) | 2.38 (0.8-3.88) | 4.20 | 10.0 | 6.9 | A++ |
| | 7 | 9 | 9 | 14 | 14 | 1.34 | 1.73 | 2.31 | 2.31 | 2.31 | 10.0 (3.5-12.5) | 2.39 (0.8-3.88) | 4.19 | 10.0 | 6.9 | A++ |
| | 7 | 9 | 12 | 12 | 14 | 1.30 | 1.67 | 2.22 | 2.22 | 2.59 | 10.0 (3.5-12.5) | 2.38 (0.8-3.88) | 4.21 | 10.0 | 6.9 | A++ |
| | 9 | 9 | 9 | 9 | 9 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 10.0 (3.5-12.5) | 2.41 (0.8-3.88) | 4.15 | 10.0 | 7.0 | A++ |
| | 9 | 9 | 9 | 9 | 12 | 1.88 | 1.88 | 1.88 | 1.88 | 2.48 | 10.0 (3.5-12.5) | 2.40 (0.8-3.88) | 4.17 | 10.0 | 6.9 | A++ |
| | 9 | 9 | 9 | 9 | 14 | 1.80 | 1.80 | 1.80 | 1.80 | 2.80 | 10.0 (3.5-12.5) | 2.39 (0.8-3.88) | 4.18 | 10.0 | 6.9 | A++ |
| | 9 | 9 | 9 | 9 | 18 | 1.67 | 1.67 | 1.67 | 1.67 | 3.32 | 10.0 (3.5-12.5) | 2.38 (0.8-3.88) | 4.21 | 10.0 | 6.9 | A++ |
| | 9 | 9 | 9 | 12 | 12 | 1.76 | 1.76 | 1.76 | 2.36 | 2.36 | 10.0 (3.5-12.5) | 2.39 (0.8-3.88) | 4.19 | 10.0 | 6.9 | A++ |
| | 9 

REFRIGERANT R410A

# **5 Rooms** Multi Combination Table–Heating

## 5 Rooms Multi heating

| AOYG36LBLA5 | Combination of Indoor Unit | | | | | HEATING OPERATION | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Heating Capacity | | | | | | Input Power (min-max) | COP | Seasonal Data | | |
| | | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Total Capacity (min-max) | | | Pdesign | SCOP | Energy efficiency |
| | | | | | | kW | kW | kW | kW | kW | kW | kW | | kW | | |
| 2 Room | 7 | 24 | - | - | - | 2.40 | 8.40 | - | - | - | 10.8 (3.5-12.4) | 2.97 (0.7-3.34) | 3.64 | 8.9 | 3.9 | A |
| | 9 | 24 | - | - | - | 3.00 | 8.40 | - | - | - | 11.4 (3.5-13.2) | 3.15 (0.7-3.58) | 3.62 | 9.0 | 3.9 | A |
| | 12 | 24 | - | - | - | 4.00 | 8.00 | - | - | - | 12.0 (3.5-14.0) | 3.34 (0.7-3.82) | 3.59 | 9.0 | 4.0 | A+ |
| | 14 | 24 | - | - | - | 4.42 | 7.58 | - | - | - | 12.0 (3.5-14.0) | 3.33 (0.7-3.82) | 3.60 | 9.0 | 4.0 | A+ |
| | 18 | 18 | - | - | - | 6.00 | 6.00 | - | - | - | 12.0 (3.5-14.0) | 3.34 (0.7-3.82) | 3.59 | 9.0 | 4.0 | A+ |
| | 18 | 24 | - | - | - | 5.14 | 6.86 | - | - | - | 12.0 (3.5-14.0) | 3.32 (0.7-3.82) | 3.61 | 9.0 | 4.0 | A+ |
| | 24 | 24 | - | - | - | 6.00 | 6.00 | - | - | - | 12.0 (3.5-14.0) | 3.31 (0.7-3.82) | 3.62 | 9.0 | 4.0 | A+ |
| 3 Room | 7 | 7 | 14 | - | - | 2.40 | 2.40 | 4.80 | - | - | 9.6 (3.5-11.2) | 2.45 (0.7-2.98) | 3.92 | 8.8 | 4.0 | A+ |
| | 7 | 7 | 18 | - | - | 2.40 | 2.40 | 6.00 | - | - | 10.8 (3.5-12.8) | 2.80 (0.7-3.46) | 3.86 | 9.0 | 4.0 | A+ |
| | 7 | 7 | 24 | - | - | 2.21 | 2.21 | 7.58 | - | - | 12.0 (3.5-14.0) | 3.14 (0.7-3.82) | 3.82 | 9.0 | 4.0 | A+ |
| | 7 | 9 | 12 | - | - | 2.40 | 3.00 | 4.20 | - | - | 9.6 (3.5-11.2) | 2.45 (0.7-2.98) | 3.92 | 8.8 | 4.0 | A+ |
| | 7 | 9 | 14 | - | - | 2.40 | 3.00 | 4.80 | - | - | 10.2 (3.5-12.0) | 2.63 (0.7-3.22) | 3.88 | 8.9 | 4.0 | A+ |
| | 7 | 9 | 18 | - | - | 2.40 | 3.00 | 6.00 | - | - | 11.4 (3.5-13.6) | 2.97 (0.7-3.70) | 3.84 | 9.0 | 4.0 | A+ |
| | 7 | 9 | 24 | - | - | 2.10 | 2.70 | 7.20 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.83 | 9.0 | 4.0 | A+ |
| | 7 | 12 | 12 | - | - | 2.40 | 4.20 | 4.20 | - | - | 10.8 (3.5-12.4) | 2.79 (0.7-3.34) | 3.87 | 8.9 | 4.0 | A+ |
| | 7 | 12 | 14 | - | - | 2.40 | 4.20 | 4.80 | - | - | 11.4 (3.5-13.2) | 2.96 (0.7-3.58) | 3.85 | 9.0 | 4.0 | A+ |
| | 7 | 12 | 18 | - | - | 2.27 | 3.89 | 5.84 | - | - | 12.0 (3.5-14.0) | 3.14 (0.7-3.82) | 3.82 | 9.0 | 4.0 | A+ |
| | 7 | 12 | 24 | - | - | 1.95 | 3.35 | 6.70 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.83 | 9.0 | 4.0 | A+ |
| | 7 | 14 | 14 | - | - | 2.40 | 4.80 | 4.80 | - | - | 12.0 (3.5-14.0) | 3.14 (0.7-3.82) | 3.82 | 9.0 | 4.0 | A+ |
| | 7 | 14 | 18 | - | - | 2.15 | 4.31 | 5.54 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.83 | 9.0 | 4.0 | A+ |
| | 7 | 14 | 24 | - | - | 1.87 | 3.73 | 6.40 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.84 | 9.0 | 4.0 | A+ |
| | 7 | 18 | 18 | - | - | 1.96 | 5.02 | 5.02 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.83 | 9.0 | 4.0 | A+ |
| | 7 | 18 | 24 | - | - | 1.71 | 4.41 | 5.88 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.84 | 9.0 | 4.0 | A+ |
| | 9 | 9 | 9 | - | - | 3.00 | 3.00 | 3.00 | - | - | 9.0 (3.5-10.8) | 2.29 (0.7-2.86) | 3.93 | 8.8 | 4.0 | A+ |
| | 9 | 9 | 12 | - | - | 3.00 | 3.00 | 4.20 | - | - | 10.2 (3.5-12.0) | 2.63 (0.7-3.22) | 3.88 | 8.9 | 4.0 | A+ |
| | 9 | 9 | 14 | - | - | 3.00 | 3.00 | 4.80 | - | - | 10.8 (3.5-12.8) | 2.80 (0.7-3.46) | 3.86 | 9.0 | 4.0 | A+ |
| | 9 | 9 | 18 | - | - | 3.00 | 3.00 | 6.00 | - | - | 12.0 (3.5-14.0) | 3.14 (0.7-3.82) | 3.82 | 9.0 | 4.0 | A+ |
| | 9 | 9 | 24 | - | - | 2.57 | 2.57 | 6.86 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.83 | 9.0 | 4.0 | A+ |
| | 9 | 12 | 12 | - | - | 3.00 | 4.20 | 4.20 | - | - | 11.4 (3.5-13.2) | 2.96 (0.7-3.58) | 3.85 | 9.0 | 4.0 | A+ |
| | 9 | 12 | 14 | - | - | 3.00 | 4.20 | 4.80 | - | - | 12.0 (3.5-14.0) | 3.14 (0.7-3.82) | 3.82 | 9.0 | 4.0 | A+ |
| | 9 | 12 | 18 | - | - | 2.77 | 3.69 | 5.54 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.83 | 9.0 | 4.0 | A+ |
| | 9 | 12 | 24 | - | - | 2.40 | 3.20 | 6.40 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.84 | 9.0 | 4.0 | A+ |
| | 9 | 14 | 14 | - | - | 2.92 | 4.54 | 4.54 | - | - | 12.0 (3.5-14.0) | 3.14 (0.7-3.82) | 3.82 | 9.0 | 4.0 | A+ |
| | 9 | 14 | 18 | - | - | 2.63 | 4.10 | 5.27 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.83 | 9.0 | 4.0 | A+ |
| | 9 | 14 | 24 | - | - | 2.30 | 3.57 | 6.13 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.84 | 9.0 | 4.0 | A+ |
| | 9 | 18 | 18 | - | - | 2.40 | 4.80 | 4.80 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.84 | 9.0 | 4.0 | A+ |
| | 9 | 18 | 24 | - | - | 2.12 | 4.24 | 5.64 | - | - | 12.0 (3.5-14.0) | 3.12 (0.7-3.82) | 3.85 | 9.0 | 4.0 | A+ |
| | 12 | 12 | 12 | - | - | 4.00 | 4.00 | 4.00 | - | - | 12.0 (3.5-14.0) | 3.14 (0.7-3.82) | 3.82 | 9.0 | 4.0 | A+ |
| | 12 | 12 | 14 | - | - | 3.79 | 3.79 | 4.42 | - | - | 12.0 (3.5-14.0) | 3.14 (0.7-3.82) | 3.82 | 9.0 | 4.0 | A+ |
| | 12 | 12 | 18 | - | - | 3.43 | 3.43 | 5.14 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.83 | 9.0 | 4.0 | A+ |
| | 12 | 12 | 24 | - | - | 3.00 | 3.00 | 6.00 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.84 | 9.0 | 4.0 | A+ |
| | 12 | 14 | 14 | - | - | 3.60 | 4.20 | 4.20 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.83 | 9.0 | 4.0 | A+ |
| | 12 | 14 | 18 | - | - | 3.27 | 3.82 | 4.91 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.83 | 9.0 | 4.0 | A+ |
| | 12 | 14 | 24 | - | - | 2.88 | 3.36 | 5.76 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.84 | 9.0 | 4.0 | A+ |
| | 12 | 18 | 18 | - | - | 3.00 | 4.50 | 4.50 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.84 | 9.0 | 4.0 | A+ |
| | 12 | 18 | 24 | - | - | 2.67 | 4.00 | 5.33 | - | - | 12.0 (3.5-14.0) | 3.12 (0.7-3.82) | 3.85 | 9.0 | 4.0 | A+ |
| | 14 | 14 | 14 | - | - | 4.00 | 4.00 | 4.00 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.83 | 9.0 | 4.0 | A+ |
| | 14 | 14 | 18 | - | - | 3.65 | 3.65 | 4.70 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.84 | 9.0 | 4.0 | A+ |
| | 14 | 14 | 24 | - | - | 3.23 | 3.23 | 5.54 | - | - | 12.0 (3.5-14.0) | 3.12 (0.7-3.82) | 3.85 | 9.0 | 4.0 | A+ |
| | 14 | 18 | 18 | - | - | 3.36 | 4.32 | 4.32 | - | - | 12.0 (3.5-14.0) | 3.13 (0.7-3.82) | 3.84 | 9.0 | 4.0 | A+ |
| | 18 | 18 | 18 | - | - | 4.00 | 4.00 | 4.00 | - | - | 12.0 (3.5-14.0) | 3.12 (0.7-3.82) | 3.85 | 9.0 | 4.0 | A+ |
| 4 Room | 7 | 7 | 7 | 7 | - | 2.40 | 2.40 | 2.40 | 2.40 | - | 9.6 (3.5-11.2) | 2.31 (0.7-2.98) | 4.16 | 8.8 | 4.2 | A+ |
| | 7 | 7 | 7 | 9 | - | 2.40 | 2.40 | 2.40 | 3.00 | - | 10.2 (3.5-12.0) | 2.47 (0.7-3.22) | 4.13 | 8.9 | 4.2 | A+ |
| | 7 | 7 | 7 | 12 | - | 2.40 | 2.40 | 2.40 | 4.20 | - | 11.4 (3.5-13.2) | 2.79 (0.7-3.58) | 4.09 | 9.0 | 4.2 | A+ |
| | 7 | 7 | 7 | 14 | - | 2.40 | 2.40 | 2.40 | 4.80 | - | 12.0 (3.5-14.0) | 2.95 (0.7-3.82) | 4.07 | 9.0 | 4.2 | A+ |
| | 7 | 7 | 7 | 18 | - | 2.15 | 2.15 | 2.15 | 5.55 | - | 12.0 (3.5-14.0) | 2.94 (0.7-3.82) | 4.08 | 9.0 | 4.2 | A+ |
| | 7 | 7 | 7 | 24 | - | 1.87 | 1.87 | 1.87 | 6.39 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.10 | 9.0 | 4.2 | A+ |
| | 7 | 7 | 9 | 9 | - | 2.40 | 2.40 | 3.00 | 3.00 | - | 10.8 (3.5-12.8) | 2.64 (0.7-3.46) | 4.09 | 9.0 | 4.2 | A+ |
| | 7 | 7 | 9 | 12 | - | 2.40 | 2.40 | 3.00 | 4.20 | - | 12.0 (3.5-14.0) | 2.95 (0.7-3.82) | 4.07 | 9.0 | 4.2 | A+ |
| | 7 | 7 | 9 | 14 | - | 2.27 | 2.27 | 2.92 | 4.54 | - | 12.0 (3.5-14.0) | 2.95 (0.7-3.82) | 4.07 | 9.0 | 4.2 | A+ |
| | 7 | 7 | 9 | 18 | - | 2.05 | 2.05 | 2.63 | 5.27 | - | 12.0 (3.5-14.0) | 2.94 (0.7-3.82) | 4.08 | 9.0 | 4.2 | A+ |
| | 7 | 7 | 9 | 24 | - | 1.79 | 1.79 | 2.30 | 6.12 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.10 | 9.0 | 4.2 | A+ |
| | 7 | 7 | 12 | 12 | - | 2.21 | 2.21 | 3.79 | 3.79 | - | 12.0 (3.5-14.0) | 2.94 (0.7-3.82) | 4.08 | 9.0 | 4.2 | A+ |
| | 7 | 7 | 12 | 14 | - | 2.10 | 2.10 | 3.60 | 4.20 | - | 12.0 (3.5-14.0) | 2.94 (0.7-3.82) | 4.08 | 9.0 | 4.2 | A+ |
| | 7 | 7 | 12 | 18 | - | 1.91 | 1.91 | 3.27 | 4.91 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.09 | 9.0 | 4.2 | A+ |
| | 7 | 7 | 12 | 24 | - | 1.68 | 1.68 | 2.88 | 5.76 | - | 12.0 (3.5-14.0) | 2.92 (0.7-3.82) | 4.11 | 9.0 | 4.2 | A+ |
| | 7 | 7 | 14 | 14 | - | 2.00 | 2.00 | 4.00 | 4.00 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.09 | 9.0 | 4.2 | A+ |
| | 7 | 7 | 14 | 18 | - | 1.83 | 1.83 | 3.65 | 4.69 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.10 | 9.0 | 4.2 | A+ |
| | 7 | 7 | 14 | 24 | - | 1.62 | 1.62 | 3.23 | 5.53 | - | 12.0 (3.5-14.0) | 2.92 (0.7-3.82) | 4.11 | 9.0 | 4.2 | A+ |
| | 7 | 7 | 18 | 18 | - | 1.68 | 1.68 | 4.32 | 4.32 | - | 12.0 (3.5-14.0) | 2.92 (0.7-3.82) | 4.11 | 9.0 | 4.2 | A+ |
| | 7 | 9 | 9 | 9 | - | 2.40 | 3.00 | 3.00 | 3.00 | - | 11.4 (3.5-13.6) | 2.80 (0.7-3.70) | 4.07 | 9.0 | 4.2 | A+ |
| | 7 | 9 | 9 | 12 | - | 2.27 | 2.92 | 2.92 | 3.89 | - | 12.0 (3.5-14.0) | 2.95 (0.7-3.82) | 4.07 | 9.0 | 4.2 | A+ |
| | 7 | 9 | 9 | 14 | - | 2.15 | 2.77 | 2.77 | 4.31 | - | 12.0 (3.5-14.0) | 2.94 (0.7-3.82) | 4.08 | 9.0 | 4.2 | A+ |
| | 7 | 9 | 9 | 18 | - | 1.95 | 2.51 | 2.51 | 5.03 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.09 | 9.0 | 4.2 | A+ |
| | 7 | 9 | 9 | 24 | - | 1.71 | 2.20 | 2.20 | 5.89 | - | 12.0 (3.5-14.0) | 2.92 (0.7-3.82) | 4.11 | 9.0 | 4.2 | A+ |
| | 7 | 9 | 12 | 12 | - | 2.10 | 2.70 | 3.60 | 3.60 | - | 12.0 (3.5-14.0) | 2.94 (0.7-3.82) | 4.08 | 9.0 | 4.2 | A+ |
| | 7 | 9 | 12 | 14 | - | 2.00 | 2.57 | 3.43 | 4.00 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.09 | 9.0 | 4.2 | A+ |
| | 7 | 9 | 12 | 18 | - | 1.83 | 2.35 | 3.13 | 4.69 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.10 | 9.0 | 4.2 | A+ |
| | 7 | 9 | 12 | 24 | - | 1.62 | 2.08 | 2.77 | 5.53 | - | 12.0 (3.5-14.0) | 2.92 (0.7-3.82) | 4.11 | 9.0 | 4.2 | A+ |
| | 7 | 9 | 14 | 14 | - | 1.91 | 2.45 | 3.82 | 3.82 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.09 | 9.0 | 4.2 | A+ |
| | 7 | 9 | 14 | 18 | - | 1.75 | 2.25 | 3.50 | 4.50 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.10 | 9.0 | 4.2 | A+ |
| | 7 | 9 | 14 | 24 | - | 1.56 | 2.00 | 3.11 | 5.33 | - | 12.0 (3.5-14.0) | 2.91 (0.7-3.82) | 4.12 | 9.0 | 4.2 | A+ |
| | 7 | 9 | 18 | 18 | - | 1.62 | 2.08 | 4.15 | 4.15 | - | 12.0 (3.5-14.0) | 2.92 (0.7-3.82) | 4.11 | 9.0 | 4.2 | A+ |
| | 7 | 12 | 12 | 12 | - | 1.95 | 3.35 | 3.35 | 3.35 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.09 | 9.0 | 4.2 | A+ |
| | 7 | 12 | 12 | 14 | - | 1.87 | 3.20 | 3.20 | 3.73 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.10 | 9.0 | 4.2 | A+ |
| | 7 | 12 | 12 | 18 | - | 1.71 | 2.94 | 2.94 | 4.41 | - | 12.0 (3.5-14.0) | 2.92 (0.7-3.82) | 4.11 | 9.0 | 4.2 | A+ |
| | 7 | 12 | 14 | 14 | - | 1.80 | 3.06 | 3.57 | 3.57 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.10 | 9.0 | 4.2 | A+ |
| | 7 | 12 | 14 | 18 | - | 1.65 | 2.82 | 3.29 | 4.24 | - | 12.0 (3.5-14.0) | 2.92 (0.7-3.82) | 4.11 | 9.0 | 4.2 | A+ |
| | 7 | 14 | 14 | 14 | - | 1.71 | 3.43 | 3.43 | 3.43 | - | 12.0 (3.5-14.0) | 2.92 (0.7-3.82) | 4.11 | 9.0 | 4.2 | A+ |
| | 7 | 14 | 14 | 18 | - | 1.58 | 3.17 | 3.17 | 4.08 | - | 12.0 (3.5-14.0) | 2.91 (0.7-3.82) | 4.12 | 9.0 | 4.2 | A+ |
| | 9 | 9 | 9 | 9 | - | 3.00 | 3.00 | 3.00 | 3.00 | - | 12.0 (3.5-14.0) | 2.95 (0.7-3.82) | 4.07 | 9.0 | 4.2 | A+ |
| | 9 | 9 | 9 | 12 | - | 2.77 | 2.77 | 2.77 | 3.69 | - | 12.0 (3.5-14.0) | 2.94 (0.7-3.82) | 4.08 | 9.0 | 4.2 | A+ |
| | 9 | 9 | 9 | 14 | - | 2.63 | 2.63 | 2.63 | 4.11 | - | 12.0 (3.5-14.0) | 2.94 (0.7-3.82) | 4.08 | 9.0 | 4.2 | A+ |
| | 9 | 9 | 9 | 18 | - | 2.40 | 2.40 | 2.40 | 4.80 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.10 | 9.0 | 4.2 | A+ |
| | 9 | 9 | 9 | 24 | - | 2.12 | 2.12 | 2.12 | 5.64 | - | 12.0 (3.5-14.0) | 2.92 (0.7-3.82) | 4.11 | 9.0 | 4.2 | A+ |
| | 9 | 9 | 12 | 12 | - | 2.57 | 2.57 | 3.43 | 3.43 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.09 | 9.0 | 4.2 | A+ |
| | 9 | 9 | 12 | 14 | - | 2.45 | 2.45 | 3.27 | 3.83 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.09 | 9.0 | 4.2 | A+ |
| | 9 | 9 | 12 | 18 | - | 2.25 | 2.25 | 3.00 | 4.50 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.10 | 9.0 | 4.2 | A+ |
| | 9 | 9 | 12 | 24 | - | 2.00 | 2.00 | 2.67 | 5.33 | - | 12.0 (3.5-14.0) | 2.91 (0.7-3.82) | 4.12 | 9.0 | 4.2 | A+ |
| | 9 | 9 | 14 | 14 | - | 2.35 | 2.35 | 3.65 | 3.65 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.10 | 9.0 | 4.2 | A+ |
| | 9 | 9 | 14 | 18 | - | 2.16 | 2.16 | 3.36 | 4.32 | - | 12.0 (3.5-14.0) | 2.92 (0.7-3.82) | 4.11 | 9.0 | 4.2 | A+ |
| | 9 | 9 | 18 | 18 | - | 2.00 | 2.00 | 4.00 | 4.00 | - | 12.0 (3.5-14.0) | 2.91 (0.7-3.82) | 4.12 | 9.0 | 4.2 | A+ |
| | 9 | 12 | 12 | 12 | - | 2.40 | 3.20 | 3.20 | 3.20 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.10 | 9.0 | 4.2 | A+ |
| | 9 | 12 | 12 | 14 | - | 2.30 | 3.06 | 3.06 | 3.58 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.10 | 9.0 | 4.2 | A+ |
| | 9 | 12 | 12 | 18 | - | 2.12 | 2.82 | 2.82 | 4.24 | - | 12.0 (3.5-14.0) | 2.92 (0.7-3.82) | 4.11 | 9.0 | 4.2 | A+ |
| | 9 | 12 | 14 | 14 | - | 2.20 | 2.94 | 3.43 | 3.43 | - | 12.0 (3.5-14.0) | 2.92 (0.7-3.82) | 4.11 | 9.0 | 4.2 | A+ |
| | 9 | 12 | 14 | 18 | - | 2.04 | 2.72 | 3.17 | 4.07 | - | 12.0 (3.5-14.0) | 2.91 (0.7-3.82) | 4.12 | 9.0 | 4.2 | A+ |
| | 9 | 14 | 14 | 14 | - | 2.13 | 3.29 | 3.29 | 3.29 | - | 12.0 (3.5-14.0) | 2.92 (0.7-3.82) | 4.11 | 9.0 | 4.2 | A+ |
| | 12 | 12 | 12 | 12 | - | 3.00 | 3.00 | 3.00 | 3.00 | - | 12.0 (3.5-14.0) | 2.93 (0.7-3.82) | 4.10 | 9.0 | 4.2 | A+ |
| | 12 | 12 | 12 | 14 | - | 2.88 | 2.88 | 2.88 | 3.36 | - | 12.0 (3.5-14.0) | 2.92 (0.7-3.82) | 4.11 | 9.0 | 4.2 | A+ |
| | 12 | 12 | 12 | 18 | - | 2.67 | 2.67 | 2.67 | 3.99 | - | 12.0 (3.5-14.0) | 2.91 (0.7-3.82) | 4.12 | 9.0 | 4.2 | A+ |
| | 12 | 12 | 14 | 14 | - | 2.77 | 2.77 | 3.23 | 3.23 | - | 12.0 (3.5-14.0) | 2.92 (0.7-3.82) | 4.11 | 9.0 | 4.2 | A+ |
| | 12 | 14 | 14 | 14 | - | 2.67 | 3.11 | 3.11 | 3.11 | - | 12.0 (3.5-14.0) | 2.91 (0.7-3.82) | 4.12 | 9.0 | 4.2 | A+ |

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected indoor unit is up to 54000Btu from 27000Btu.



## 5 Rooms Multi heating

| AOYG36LBLA5 | Combination of Indoor Unit | | | | | HEATING OPERATION | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Heating Capacity | | | | | | Input Power (min-max) | COP | Seasonal Data | | |
| | | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Total Capacity (min-max) | | | Pdesign | SCOP | Energy efficiency |
| | | | | | | kW | kW | kW | kW | kW | kW | kW | | kW | | |
| 5 Room | 7 | 7 | 7 | 7 | 7 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 12.0 (3.5-14.0) | 2.79 (0.7-3.82) | 4.30 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 7 | 7 | 9 | 2.27 | 2.27 | 2.27 | 2.27 | 2.92 | 12.0 (3.5-14.0) | 2.79 (0.7-3.82) | 4.30 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 7 | 7 | 12 | 2.10 | 2.10 | 2.10 | 2.10 | 3.60 | 12.0 (3.5-14.0) | 2.78 (0.7-3.82) | 4.31 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 7 | 7 | 14 | 2.00 | 2.00 | 2.00 | 2.00 | 4.00 | 12.0 (3.5-14.0) | 2.78 (0.7-3.82) | 4.32 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 7 | 7 | 18 | 1.83 | 1.83 | 1.83 | 1.83 | 4.68 | 12.0 (3.5-14.0) | 2.77 (0.7-3.82) | 4.33 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 7 | 7 | 24 | 1.62 | 1.62 | 1.62 | 1.62 | 5.52 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.34 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 7 | 9 | 9 | 2.15 | 2.15 | 2.15 | 2.77 | 2.77 | 12.0 (3.5-14.0) | 2.78 (0.7-3.82) | 4.31 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 7 | 9 | 12 | 2.00 | 2.00 | 2.00 | 2.57 | 3.43 | 12.0 (3.5-14.0) | 2.78 (0.7-3.82) | 4.32 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 7 | 9 | 14 | 1.91 | 1.91 | 1.91 | 2.45 | 3.82 | 12.0 (3.5-14.0) | 2.78 (0.7-3.82) | 4.32 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 7 | 9 | 18 | 1.75 | 1.75 | 1.75 | 2.25 | 4.50 | 12.0 (3.5-14.0) | 2.77 (0.7-3.82) | 4.33 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 7 | 9 | 24 | 1.56 | 1.56 | 1.56 | 2.00 | 5.32 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.35 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 7 | 12 | 12 | 1.87 | 1.87 | 1.87 | 3.20 | 3.20 | 12.0 (3.5-14.0) | 2.77 (0.7-3.82) | 4.33 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 7 | 12 | 14 | 1.79 | 1.79 | 1.79 | 3.06 | 3.57 | 12.0 (3.5-14.0) | 2.77 (0.7-3.82) | 4.33 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 7 | 12 | 18 | 1.65 | 1.65 | 1.65 | 2.82 | 4.23 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.34 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 7 | 14 | 14 | 1.71 | 1.71 | 1.71 | 3.43 | 3.43 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.34 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 7 | 14 | 18 | 1.58 | 1.58 | 1.58 | 3.17 | 4.09 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.35 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 9 | 9 | 9 | 2.05 | 2.05 | 2.63 | 2.63 | 2.63 | 12.0 (3.5-14.0) | 2.78 (0.7-3.82) | 4.31 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 9 | 9 | 12 | 1.91 | 1.91 | 2.45 | 2.45 | 3.28 | 12.0 (3.5-14.0) | 2.78 (0.7-3.82) | 4.32 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 9 | 9 | 14 | 1.83 | 1.83 | 2.35 | 2.35 | 3.64 | 12.0 (3.5-14.0) | 2.77 (0.7-3.82) | 4.33 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 9 | 9 | 18 | 1.68 | 1.68 | 2.16 | 2.16 | 4.32 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.34 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 9 | 12 | 12 | 1.79 | 1.79 | 2.30 | 3.06 | 3.06 | 12.0 (3.5-14.0) | 2.77 (0.7-3.82) | 4.33 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 9 | 12 | 14 | 1.71 | 1.71 | 2.20 | 2.94 | 3.44 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.34 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 9 | 12 | 18 | 1.58 | 1.58 | 2.04 | 2.72 | 4.08 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.35 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 9 | 14 | 14 | 1.65 | 1.65 | 2.12 | 3.29 | 3.29 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.34 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 12 | 12 | 12 | 1.68 | 1.68 | 2.88 | 2.88 | 2.88 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.34 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 12 | 12 | 14 | 1.62 | 1.62 | 2.77 | 2.77 | 3.22 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.34 | 9.0 | 4.4 | A+ |
| | 7 | 7 | 12 | 14 | 14 | 1.56 | 1.56 | 2.66 | 3.11 | 3.11 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.35 | 9.0 | 4.4 | A+ |
| | 7 | 9 | 9 | 9 | 9 | 1.96 | 2.51 | 2.51 | 2.51 | 2.51 | 12.0 (3.5-14.0) | 2.78 (0.7-3.82) | 4.32 | 9.0 | 4.4 | A+ |
| | 7 | 9 | 9 | 9 | 12 | 1.83 | 2.35 | 2.35 | 2.35 | 3.12 | 12.0 (3.5-14.0) | 2.77 (0.7-3.82) | 4.33 | 9.0 | 4.4 | A+ |
| | 7 | 9 | 9 | 9 | 14 | 1.75 | 2.25 | 2.25 | 2.25 | 3.50 | 12.0 (3.5-14.0) | 2.77 (0.7-3.82) | 4.33 | 9.0 | 4.4 | A+ |
| | 7 | 9 | 9 | 9 | 18 | 1.62 | 2.08 | 2.08 | 2.08 | 4.14 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.34 | 9.0 | 4.4 | A+ |
| | 7 | 9 | 9 | 12 | 12 | 1.72 | 2.20 | 2.20 | 2.94 | 2.94 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.34 | 9.0 | 4.4 | A+ |
| | 7 | 9 | 9 | 12 | 14 | 1.65 | 2.12 | 2.12 | 2.82 | 3.29 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.34 | 9.0 | 4.4 | A+ |
| | 7 | 9 | 9 | 12 | 18 | 1.58 | 2.04 | 2.04 | 3.17 | 3.17 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.35 | 9.0 | 4.4 | A+ |
| | 7 | 9 | 12 | 12 | 12 | 1.61 | 2.08 | 2.77 | 2.77 | 2.77 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.34 | 9.0 | 4.4 | A+ |
| | 7 | 9 | 12 | 12 | 14 | 1.56 | 2.00 | 2.67 | 2.67 | 3.10 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.35 | 9.0 | 4.4 | A+ |
| | 9 | 9 | 9 | 9 | 9 | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | 12.0 (3.5-14.0) | 2.77 (0.7-3.82) | 4.33 | 9.0 | 4.4 | A+ |
| | 9 | 9 | 9 | 9 | 12 | 2.25 | 2.25 | 2.25 | 2.25 | 3.00 | 12.0 (3.5-14.0) | 2.77 (0.7-3.82) | 4.33 | 9.0 | 4.4 | A+ |
| | 9 | 9 | 9 | 9 | 14 | 2.16 | 2.16 | 2.16 | 2.16 | 3.36 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.34 | 9.0 | 4.4 | A+ |
| | 9 | 9 | 9 | 9 | 18 | 2.00 | 2.00 | 2.00 | 2.00 | 4.00 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.35 | 9.0 | 4.4 | A+ |
| | 9 | 9 | 9 | 12 | 12 | 2.12 | 2.12 | 2.12 | 2.82 | 2.82 | 12.0 (3.5-14.0) | 2.76 (0.7-3.82) | 4.34 | 9.0 | 4.4 | A+ |
| | 9 | 9 | 9

REFRIGERANT R410A

# **6 Rooms** Multi Combination Table-Cooling

## 6 Rooms Multi cooling

| AOYG45LBLA6 | Combination of Indoor Unit | | | | | | COOLING OPERATION | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Cooling Capacity | | | | | | | Input Power (min-max) | EER |
| | | | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Room 6 | Total Capacity (min-max) | | |
| | | | | | | | kW | kW | kW | kW | kW | kW | kW | kW | |
| 2 Room | 12 | 24 | - | - | - | - | 3.50 | 7.00 | - | - | - | - | 10.5 (3.5-11.5) | 3.06 (0.8-3.32) | 3.43 |
| | 14 | 24 | - | - | - | - | 4.00 | 7.00 | - | - | - | - | 11.0 (3.5-12.1) | 3.28 (0.8-3.70) | 3.35 |
| | 18 | 18 | - | - | - | - | 5.00 | 5.00 | - | - | - | - | 10.0 (3.5-11.5) | 2.92 (0.8-3.32) | 3.42 |
| | 18 | 24 | - | - | - | - | 5.00 | 7.00 | - | - | - | - | 12.0 (3.5-13.4) | 3.75 (0.8-4.46) | 3.20 |
| | 24 | 24 | - | - | - | - | 6.25 | 6.25 | - | - | - | - | 12.5 (3.5-14.0) | 4.01 (0.8-4.84) | 3.12 |
| 3 Room | 7 | 7 | 24 | - | - | - | 2.00 | 2.00 | 7.00 | - | - | - | 11.0 (3.5-12.1) | 3.19 (0.8-3.70) | 3.45 |
| | 7 | 9 | 18 | - | - | - | 2.00 | 2.50 | 5.00 | - | - | - | 9.5 (3.5-10.8) | 2.55 (0.8-2.93) | 3.73 |
| | 7 | 9 | 24 | - | - | - | 2.00 | 2.50 | 7.00 | - | - | - | 11.5 (3.5-12.7) | 3.41 (0.8-4.08) | 3.37 |
| | 7 | 12 | 18 | - | - | - | 2.00 | 3.50 | 5.00 | - | - | - | 10.5 (3.5-11.8) | 3.02 (0.8-3.51) | 3.48 |
| | 7 | 12 | 24 | - | - | - | 2.00 | 3.50 | 6.90 | - | - | - | 12.4 (3.5-13.7) | 3.82 (0.8-4.65) | 3.25 |
| | 7 | 14 | 14 | - | - | - | 2.00 | 4.00 | 4.00 | - | - | - | 10.0 (3.5-11.1) | 2.81 (0.8-3.13) | 3.56 |
| | 7 | 14 | 18 | - | - | - | 2.00 | 4.00 | 5.00 | - | - | - | 11.0 (3.5-12.4) | 3.23 (0.8-3.89) | 3.41 |
| | 7 | 14 | 24 | - | - | - | 1.94 | 3.89 | 6.67 | - | - | - | 12.5 (3.5-14.0) | 3.89 (0.8-4.84) | 3.21 |
| | 7 | 18 | 18 | - | - | - | 2.00 | 5.00 | 5.00 | - | - | - | 12.0 (3.5-13.7) | 3.69 (0.8-4.65) | 3.25 |
| | 7 | 18 | 24 | - | - | - | 1.79 | 4.59 | 6.12 | - | - | - | 12.5 (3.5-14.0) | 3.87 (0.8-4.84) | 3.23 |
| | 7 | 24 | 24 | - | - | - | 1.60 | 5.45 | 5.45 | - | - | - | 12.5 (3.5-14.0) | 3.83 (0.8-4.84) | 3.26 |
| | 9 | 9 | 18 | - | - | - | 2.50 | 2.50 | 5.00 | - | - | - | 10.0 (3.5-11.5) | 2.84 (0.8-3.32) | 3.52 |
| | 9 | 9 | 24 | - | - | - | 2.50 | 2.50 | 7.00 | - | - | - | 12.0 (3.5-13.4) | 3.65 (0.8-4.46) | 3.29 |
| | 9 | 12 | 14 | - | - | - | 2.50 | 3.50 | 4.00 | - | - | - | 10.0 (3.5-11.1) | 2.81 (0.8-3.13) | 3.56 |
| | 9 | 12 | 18 | - | - | - | 2.50 | 3.50 | 5.00 | - | - | - | 11.0 (3.5-12.4) | 3.23 (0.8-3.89) | 3.41 |
| | 9 | 12 | 24 | - | - | - | 2.50 | 3.33 | 6.67 | - | - | - | 12.5 (3.5-14.0) | 3.89 (0.8-4.84) | 3.21 |
| | 9 | 14 | 14 | - | - | - | 2.50 | 4.00 | 4.00 | - | - | - | 10.5 (3.5-11.8) | 3.02 (0.8-3.51) | 3.48 |
| | 9 | 14 | 18 | - | - | - | 2.50 | 4.00 | 5.00 | - | - | - | 11.5 (3.5-13.0) | 3.45 (0.8-4.27) | 3.33 |
| | 9 | 14 | 24 | - | - | - | 2.40 | 3.72 | 6.38 | - | - | - | 12.5 (3.5-14.0) | 3.88 (0.8-4.84) | 3.22 |
| | 9 | 18 | 18 | - | - | - | 2.50 | 5.00 | 5.00 | - | - | - | 12.5 (3.5-14.0) | 3.89 (0.8-4.84) | 3.21 |
| | 9 | 18 | 24 | - | - | - | 2.21 | 4.41 | 5.88 | - | - | - | 12.5 (3.5-14.0) | 3.86 (0.8-4.84) | 3.24 |
| | 9 | 24 | 24 | - | - | - | 1.98 | 5.26 | 5.26 | - | - | - | 12.5 (3.5-14.0) | 3.82 (0.8-4.84) | 3.27 |
| | 12 | 12 | 12 | - | - | - | 3.50 | 3.50 | 3.50 | - | - | - | 10.5 (3.5-11.5) | 2.98 (0.8-3.32) | 3.52 |
| | 12 | 12 | 14 | - | - | - | 3.50 | 3.50 | 4.00 | - | - | - | 11.0 (3.5-12.1) | 3.19 (0.8-3.70) | 3.45 |
| | 12 | 12 | 18 | - | - | - | 3.50 | 3.50 | 5.00 | - | - | - | 12.0 (3.5-13.4) | 3.65 (0.8-4.46) | 3.29 |
| | 12 | 12 | 24 | - | - | - | 3.13 | 3.13 | 6.24 | - | - | - | 12.5 (3.5-14.0) | 3.87 (0.8-4.84) | 3.23 |
| | 12 | 14 | 14 | - | - | - | 3.50 | 4.00 | 4.00 | - | - | - | 11.5 (3.5-12.7) | 3.41 (0.8-4.08) | 3.37 |
| | 12 | 14 | 18 | - | - | - | 3.50 | 4.00 | 5.00 | - | - | - | 12.5 (3.5-14.0) | 3.89 (0.8-4.84) | 3.21 |
| | 12 | 14 | 24 | - | - | - | 3.00 | 3.50 | 6.00 | - | - | - | 12.5 (3.5-14.0) | 3.86 (0.8-4.84) | 3.24 |
| | 12 | 18 | 18 | - | - | - | 3.12 | 4.69 | 4.69 | - | - | - | 12.5 (3.5-14.0) | 3.87 (0.8-4.84) | 3.23 |
| | 12 | 18 | 24 | - | - | - | 2.78 | 4.17 | 5.55 | - | - | - | 12.5 (3.5-14.0) | 3.85 (0.8-4.84) | 3.25 |
| | 12 | 24 | 24 | - | - | - | 2.50 | 5.00 | 5.00 | - | - | - | 12.5 (3.5-14.0) | 3.81 (0.8-4.84) | 3.28 |
| | 14 | 14 | 14 | - | - | - | 4.00 | 4.00 | 4.00 | - | - | - | 12.0 (3.5-13.4) | 3.65 (0.8-4.46) | 3.29 |
| | 14 | 14 | 18 | - | - | - | 3.80 | 3.80 | 4.90 | - | - | - | 12.5 (3.5-14.0) | 3.88 (0.8-4.84) | 3.22 |
| | 14 | 14 | 24 | - | - | - | 3.37 | 3.37 | 5.76 | - | - | - | 12.5 (3.5-14.0) | 3.85 (0.8-4.84) | 3.25 |
| | 14 | 18 | 18 | - | - | - | 3.50 | 4.50 | 4.50 | - | - | - | 12.5 (3.5-14.0) | 3.86 (0.8-4.84) | 3.24 |
| | 14 | 18 | 24 | - | - | - | 3.13 | 4.02 | 5.35 | - | - | - | 12.5 (3.5-14.0) | 3.83 (0.8-4.84) | 3.26 |
| | 14 | 24 | 24 | - | - | - | 2.82 | 4.84 | 4.84 | - | - | - | 12.5 (3.5-14.0) | 3.80 (0.8-4.84) | 3.29 |
| | 18 | 18 | 18 | - | - | - | 4.17 | 4.17 | 4.17 | - | - | - | 12.5 (3.5-14.0) | 3.85 (0.8-4.84) | 3.25 |
| | 18 | 18 | 24 | - | - | - | 3.75 | 3.75 | 5.00 | - | - | - | 12.5 (3.5-14.0) | 3.81 (0.8-4.84) | 3.28 |
| 4 Room | 7 | 7 | 7 | 14 | - | - | 2.00 | 2.00 | 2.00 | 4.00 | - | - | 10.0 (3.5-11.1) | 2.50 (0.8-3.13) | 4.00 |
| | 7 | 7 | 7 | 18 | - | - | 2.00 | 2.00 | 2.00 | 5.00 | - | - | 11.0 (3.5-12.4) | 3.06 (0.8-3.89) | 3.59 |
| | 7 | 7 | 7 | 24 | - | - | 1.94 | 1.94 | 1.94 | 6.68 | - | - | 12.5 (3.5-14.0) | 3.77 (0.8-4.84) | 3.32 |
| | 7 | 7 | 9 | 12 | - | - | 2.00 | 2.00 | 2.50 | 3.50 | - | - | 10.0 (3.5-11.1) | 2.50 (0.8-3.13) | 4.00 |
| | 7 | 7 | 9 | 14 | - | - | 2.00 | 2.00 | 2.50 | 4.00 | - | - | 10.5 (3.5-11.8) | 2.79 (0.8-3.51) | 3.76 |
| | 7 | 7 | 9 | 18 | - | - | 2.00 | 2.00 | 2.50 | 5.00 | - | - | 11.5 (3.5-13.0) | 3.33 (0.8-4.27) | 3.45 |
| | 7 | 7 | 9 | 24 | - | - | 1.86 | 1.86 | 2.39 | 6.39 | - | - | 12.5 (3.5-14.0) | 3.75 (0.8-4.84) | 3.33 |
| | 7 | 7 | 12 | 12 | - | - | 2.00 | 2.00 | 3.50 | 3.50 | - | - | 11.0 (3.5-12.1) | 3.00 (0.8-3.70) | 3.67 |
| | 7 | 7 | 12 | 14 | - | - | 2.00 | 2.00 | 3.50 | 4.00 | - | - | 11.5 (3.5-12.7) | 3.27 (0.8-4.08) | 3.52 |
| | 7 | 7 | 12 | 18 | - | - | 2.00 | 2.00 | 3.50 | 5.00 | - | - | 12.5 (3.5-14.0) | 3.78 (0.8-4.84) | 3.31 |
| | 7 | 7 | 12 | 24 | - | - | 1.75 | 1.75 | 3.00 | 6.00 | - | - | 12.5 (3.5-14.0) | 3.74 (0.8-4.84) | 3.34 |
| | 7 | 7 | 14 | 14 | - | - | 2.00 | 2.00 | 4.00 | 4.00 | - | - | 12.0 (3.5-13.4) | 3.51 (0.8-4.46) | 3.42 |
| | 7 | 7 | 14 | 18 | - | - | 1.90 | 1.90 | 3.80 | 4.90 | - | - | 12.5 (3.5-14.0) | 3.77 (0.8-4.84) | 3.32 |
| | 7 | 7 | 14 | 24 | - | - | 1.68 | 1.68 | 3.37 | 5.77 | - | - | 12.5 (3.5-14.0) | 3.73 (0.8-4.84) | 3.35 |
| | 7 | 7 | 18 | 18 | - | - | 1.75 | 1.75 | 4.50 | 4.50 | - | - | 12.5 (3.5-14.0) | 3.74 (0.8-4.84) | 3.34 |
| | 7 | 7 | 18 | 24 | - | - | 1.56 | 1.56 | 4.02 | 5.36 | - | - | 12.5 (3.5-14.0) | 3.70 (0.8-4.84) | 3.38 |
| | 7 | 7 | 24 | 24 | - | - | 1.41 | 1.41 | 4.84 | 4.84 | - | - | 12.5 (3.5-14.0) | 3.67 (0.8-4.84) | 3.41 |
| | 7 | 9 | 9 | 14 | - | - | 2.00 | 2.50 | 2.50 | 2.50 | - | - | 9.5 (3.5-10.8) | 2.31 (0.8-2.93) | 4.11 |
| | 7 | 9 | 9 | 12 | - | - | 2.00 | 2.50 | 2.50 | 3.50 | - | - | 10.5 (3.5-11.8) | 2.79 (0.8-3.51) | 3.76 |
| | 7 | 9 | 9 | 14 | - | - | 2.00 | 2.50 | 2.50 | 4.00 | - | - | 11.0 (3.5-12.4) | 3.06 (0.8-3.89) | 3.59 |
| | 7 | 9 | 9 | 18 | - | - | 2.00 | 2.50 | 2.50 | 5.00 | - | - | 12.0 (3.5-13.7) | 3.57 (0.8-4.65) | 3.36 |
| | 7 | 9 | 9 | 24 | - | - | 1.79 | 2.30 | 2.30 | 6.11 | - | - | 12.5 (3.5-14.0) | 3.74 (0.8-4.84) | 3.34 |
| | 7 | 9 | 12 | 12 | - | - | 2.00 | 2.50 | 3.50 | 3.50 | - | - | 11.5 (3.5-12.7) | 3.27 (0.8-4.08) | 3.52 |
| | 7 | 9 | 12 | 14 | - | - | 2.00 | 2.50 | 3.50 | 4.00 | - | - | 12.0 (3.5-13.4) | 3.51 (0.8-4.46) | 3.42 |
| | 7 | 9 | 12 | 18 | - | - | 1.90 | 2.45 | 3.26 | 4.89 | - | - | 12.5 (3.5-14.0) | 3.77 (0.8-4.84) | 3.32 |
| | 7 | 9 | 12 | 24 | - | - | 1.68 | 2.16 | 2.88 | 5.78 | - | - | 12.5 (3.5-14.0) | 3.73 (0.8-4.84) | 3.35 |
| | 7 | 9 | 14 | 14 | - | - | 2.00 | 2.50 | 4.00 | 4.00 | - | - | 12.5 (3.5-14.0) | 3.78 (0.8-4.84) | 3.31 |
| | 7 | 9 | 14 | 18 | - | - | 1.82 | 2.34 | 3.65 | 4.69 | - | - | 12.5 (3.5-14.0) | 3.75 (0.8-4.84) | 3.33 |
| | 7 | 9 | 14 | 24 | - | - | 1.62 | 2.08 | 3.24 | 5.56 | - | - | 12.5 (3.5-14.0) | 3.71 (0.8-4.84) | 3.37 |
| | 7 | 9 | 18 | 18 | - | - | 1.68 | 2.16 | 4.33 | 4.33 | - | - | 12.5 (3.5-14.0) | 3.73 (0.8-4.84) | 3.35 |
| | 7 | 9 | 18 | 24 | - | - | 1.51 | 1.94 | 3.88 | 5.17 | - | - | 12.5 (3.5-14.0) | 3.69 (0.8-4.84) | 3.39 |
| | 7 | 12 | 12 | 12 | - | - | 1.90 | 3.50 | 3.50 | 3.50 | - | - | 12.4 (3.5-13.7) | 3.69 (0.8-4.65) | 3.36 |
| | 7 | 12 | 12 | 14 | - | - | 1.94 | 3.33 | 3.33 | 3.90 | - | - | 12.5 (3.5-14.0) | 3.77 (0.8-4.84) | 3.32 |
| | 7 | 12 | 12 | 18 | - | - | 1.79 | 3.06 | 3.06 | 4.59 | - | - | 12.5 (3.5-14.0) | 3.74 (0.8-4.84) | 3.34 |
| | 7 | 12 | 12 | 24 | - | - | 1.59 | 2.73 | 2.73 | 5.45 | - | - | 12.5 (3.5-14.0) | 3.71 (0.8-4.84) | 3.37 |
| | 7 | 12 | 14 | 14 | - | - | 1.87 | 3.19 | 3.72 | 3.72 | - | - | 12.5 (3.5-14.0) | 3.75 (0.8-4.84) | 3.33 |
| | 7 | 12 | 14 | 18 | - | - | 1.72 | 2.94 | 3.43 | 4.41 | - | - | 12.5 (3.5-14.0) | 3.73 (0.8-4.84) | 3.35 |
| | 7 | 12 | 14 | 24 | - | - | 1.54 | 2.63 | 3.07 | 5.26 | - | - | 12.5 (3.5-14.0) | 3.70 (0.8-4.84) | 3.38 |
| | 7 | 12 | 18 | 18 | - | - | 1.59 | 2.73 | 4.09 | 4.09 | - | - | 12.5 (3.5-14.0) | 3.71 (0.8-4.84) | 3.37 |
| | 7 | 12 | 18 | 24 | - | - | 1.43 | 2.46 | 3.69 | 4.92 | - | - | 12.5 (3.5-14.0) | 3.68 (0.8-4.84) | 3.40 |
| | 7 | 14 | 14 | 14 | - | - | 1.79 | 3.57 | 3.57 | 3.57 | - | - | 12.5 (3.5-14.0) | 3.74 (0.8-4.84) | 3.34 |
| | 7 | 14 | 14 | 18 | - | - | 1.65 | 3.30 | 3.30 | 4.25 | - | - | 12.5 (3.5-14.0) | 3.72 (0.8-4.84) | 3.36 |
| | 7 | 14 | 14 | 24 | - | - | 1.48 | 2.97 | 2.97 | 5.08 | - | - | 12.5 (3.5-14.0) | 3.69 (0.8-4.84) | 3.39 |
| | 7 | 14 | 18 | 18 | - | - | 1.53 | 3.07 | 3.95 | 3.95 | - | - | 12.5 (3.5-14.0) | 3.70 (0.8-4.84) | 3.38 |
| | 7 | 18 | 18 | 18 | - | - | 1.43 | 3.69 | 3.69 | 3.69 | - | - | 12.5 (3.5-14.0) | 3.68 (0.8-4.84) | 3.40 |
| | 9 | 9 | 9 | 12 | - | - | 2.50 | 2.50 | 2.50 | 2.50 | - | - | 10.0 (3.5-11.5) | 2.59 (0.8-3.32) | 3.86 |
| | 9 | 9 | 9 | 12 | - | - | 2.50 | 2.50 | 2.50 | 3.50 | - | - | 11.0 (3.5-12.4) | 3.06 (0.8-3.89) | 3.59 |
| | 9 | 9 | 9 | 14 | - | - | 2.50 | 2.50 | 2.50 | 4.00 | - | - | 11.5 (3.5-13.0) | 3.33 (0.8-4.27) | 3.45 |
| | 9 | 9 | 9 | 18 | - | - | 2.50 | 2.50 | 2.50 | 5.00 | - | - | 12.5 (3.5-14.0) | 3.77 (0.8-4.84) | 3.32 |
| | 9 | 9 | 9 | 24 | - | - | 2.21 | 2.21 | 2.21 | 5.87 | - | - | 12.5 (3.5-14.0) | 3.73 (0.8-4.84) | 3.35 |
| | 9 | 9 | 12 | 12 | - | - | 2.50 | 2.50 | 3.50 | 3.50 | - | - | 12.0 (3.5-13.4) | 3.51 (0.8-4.46) | 3.42 |
| | 9 | 9 | 12 | 14 | - | - | 2.50 | 2.50 | 3.50 | 4.00 | - | - | 12.5 (3.5-14.0) | 3.78 (0.8-4.84) | 3.31 |
| | 9 | 9 | 12 | 18 | - | - | 2.34 | 2.34 | 3.13 | 4.69 | - | - | 12.5 (3.5-14.0) | 3.75 (0.8-4.84) | 3.33 |
| | 9 | 9 | 12 | 24 | - | - | 2.08 | 2.08 | 2.78 | 5.56 | - | - | 12.5 (3.5-14.0) | 3.71 (0.8-4.84) | 3.37 |
| | 9 | 9 | 14 | 14 | - | - | 2.45 | 2.45 | 3.80 | 3.80 | - | - | 12.5 (3.5-14.0) | 3.77 (0.8-4.84) | 3.32 |
| | 9 | 9 | 14 | 18 | - | - | 2.25 | 2.25 | 3.50 | 4.50 | - | - | 12.5 (3.5-14.0) | 3.74 (0.8-4.84) | 3.34 |
| | 9 | 9 | 14 | 24 | - | - | 2.01 | 2.01 | 3.13 | 5.35 | - | - | 12.5 (3.5-14.0) | 3.70 (0.8-4.84) | 3.38 |
| | 9 | 9 | 18 | 18 | - | - | 2.08 | 2.08 | 4.17 | 4.17 | - | - | 12.5 (3.5-14.0) | 3.71 (0.8-4.84) | 3.37 |
| | 9 | 9 | 18 | 24 | - | - | 1.88 | 1.88 | 3.75 | 4.99 | - | - | 12.5 (3.5-14.0) | 3.68 (0.8-4.84) | 3.40 |
| | 9 | 12 | 12 | 12 | - | - | 2.51 | 3.33 | 3.33 | 3.33 | - | - | 12.5 (3.5-14.0) | 3.77 (0.8-4.84) | 3.32 |
| | 9 | 12 | 12 | 14 | - | - | 2.39 | 3.19 | 3.19 | 3.73 | - | - | 12.5 (3.5-14.0) | 3.75 (0.8-4.84) | 3.33 |
| | 9 | 12 | 12 | 18 | - | - | 2.21 | 2.94 | 2.94 | 4.41 | - | - | 12.5 (3.5-14.0) | 3.73 (0.8-4.84) | 3.35 |
| | 9 | 12 | 12 | 24 | - | - | 1.97 | 2.63 | 2.63 | 5.27 | - | - | 12.5 (3.5-14.0) | 3.70 (0.8-4.84) | 3.38 |
| | 9 | 12 | 14 | 14 | - | - | 2.30 | 3.06 | 3.57 | 3.57 | - | - | 12.5 (3.5-14.0) | 3.74 (0.8-4.84) | 3.34 |
| | 9 | 12 | 14 | 18 | - | - | 2.12 | 2.83 | 3.30 | 4.25 | - | - | 12.5 (3.5-14.0) | 3.72 (0.8-4.84) | 3.36 |
| | 9 | 12 | 14 | 24 | - | - | 1.91 | 2.54 | 2.97 | 5.08 | - | - | 12.5 (3.5-14.0) | 3.69 (0.8-4.84) | 3.39 |
| | 9 | 12 | 18 | 18 | - | - | 1.97 | 2.63 | 3.95 | 3.95 | - | - | 12.5 (3.5-14.0) | 3.70 (0.8-4.84) | 3.38 |
| | 9 | 14 | 14 | 14 | - | - | 2.21 | 3.43 | 3.43 | 3.43 | - | - | 12.5 (3.5-14.0) | 3.73 (0.8-4.84) | 3.35 |
| | 9 | 14 | 14 | 18 | - | - | 2.05 | 3.18 | 3.18 | 4.09 | - | - | 12.5 (3.5-14.0) | 3.71 (0.8-4.84) | 3.37 |
| | 9 | 14 | 14 | 24 | - | - | 1.84 | 2.87 | 2.87 | 4.92 | - | - | 12.5 (3.5-14.0) | 3.68 (0.8-4.84) | 3.40 |
| | 9 | 14 | 18 | 18 | - | - | 1.91 | 2.97 | 3.81 | 3.81 | - | - | 12.5 (3.5-14.0) | 3.69 (0.8-4.84) | 3.39 |



## 6 Rooms Multi cooling

| AOYG45LBLA6 | Combination of Indoor Unit | | | | | | COOLING OPERATION | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Cooling Capacity | | | | | | | Input Power (min-max) | EER |
| | | | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Room 6 | Total Capacity (min-max) | | |
| | | | | | | | kW | kW | kW | kW | kW | kW | kW | kW | |
| 4 Room | 12 | 12 | 12 | 12 | - | - | 3.13 | 3.13 | 3.13 | 3.13 | - | - | 12.5 (3.5-14.0) | 3.75 (0.8-4.84) | 3.33 |
| | 12 | 12 | 12 | 14 | - | - | 3.00 | 3.00 | 3.00 | 3.50 | - | - | 12.5 (3.5-14.0) | 3.74 (0.8-4.84) | 3.34 |
| | 12 | 12 | 12 | 18 | - | - | 2.78 | 2.78 | 2.78 | 4.16 | - | - | 12.5 (3.5-14.0) | 3.71 (0.8-4.84) | 3.37 |
| | 12 | 12 | 12 | 24 | - | - | 2.50 | 2.50 | 2.50 | 5.00 | - | - | 12.5 (3.5-14.0) | 3.68 (0.8-4.84) | 3.40 |
| | 12 | 12 | 14 | 14 | - | - | 2.88 | 2.88 | 3.37 | 3.37 | - | - | 12.5 (3.5-14.0) | 3.73 (0.8-4.84) | 3.35 |
| | 12 | 12 | 14 | 18 | - | - | 2.68 | 2.68 | 3.13 | 4.01 | - | - | 12.5 (3.5-14.0) | 3.70 (0.8-4.84) | 3.38 |
| | 12 | 12 | 14 | 24 | - | - | 2.42 | 2.42 | 2.82 | 4.84 | - | - | 12.5 (3.5-14.0) | 3.67 (0.8-4.84) | 3.41 |
| | 12 | 12 | 18 | 18 | - | - | 2.50 | 2.50 | 3.75 | 3.75 | - | - | 12.5 (3.5-14.0) | 3.68 (0.8-4.84) | 3.40 |
| | 12 | 14 | 14 | 14 | - | - | 2.78 | 3.24 | 3.24 | 3.24 | - | - | 12.5 (3.5-14.0) | 3.71 (0.8-4.84) | 3.37 |
| | 12 | 14 | 14 | 18 | - | - | 2.59 | 3.02 | 3.02 | 3.87 | - | - | 12.5 (3.5-14.0) | 3.69 (0.8-4.84) | 3.39 |
| | 12 | 14 | 18 | 18 | - | - | 2.42 | 2.82 | 3.63 | 3.63 | - | - | 12.5 (3.5-14.0) | 3.67 (0.8-4.84) | 3.41 |
| 5 Room | 7 | 7 | 7 | 7 | 7 | - | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | - | 10.0 (3.5-11.1) | 2.44 (0.8-3.13) | 4.10 |
| | 7 | 7 | 7 | 7 | 9 | - | 2.00 | 2.00 | 2.00 | 2.00 | 2.50 | - | 10.5 (3.5-11.8) | 2.72 (0.8-3.51) | 3.86 |
| | 7 | 7 | 7 | 7 | 12 | - | 2.00 | 2.00 | 2.00 | 2.00 | 3.50 | - | 11.5 (3.5-12.7) | 3.18 (0.8-4.08) | 3.62 |
| | 7 | 7 | 7 | 7 | 14 | - | 2.00 | 2.00 | 2.00 | 2.00 | 4.00 | - | 12.0 (3.5-13.4) | 3.41 (0.8-4.46) | 3.52 |
| | 7 | 7 | 7 | 7 | 18 | - | 1.90 | 1.90 | 1.90 | 1.90 | 4.90 | - | 12.5 (3.5-14.0) | 3.65 (0.8-4.84) | 3.42 |
| | 7 | 7 | 7 | 7 | 24 | - | 1.68 | 1.68 | 1.68 | 1.68 | 5.78 | - | 12.5 (3.5-14.0) | 3.61 (0.8-4.84) | 3.46 |
| | 7 | 7 | 7 | 9 | 9 | - | 2.00 | 2.00 | 2.00 | 2.50 | 2.50 | - | 11.0 (3.5-12.4) | 2.98 (0.8-3.89) | 3.69 |
| | 7 | 7 | 7 | 9 | 12 | - | 2.00 | 2.00 | 2.00 | 2.50 | 3.50 | - | 12.0 (3.5-13.4) | 3.41 (0.8-4.46) | 3.52 |
| | 7 | 7 | 7 | 9 | 14 | - | 2.00 | 2.00 | 2.00 | 2.50 | 4.00 | - | 12.5 (3.5-14.0) | 3.67 (0.8-4.84) | 3.41 |
| | 7 | 7 | 7 | 9 | 18 | - | 1.82 | 1.82 | 1.82 | 2.34 | 4.70 | - | 12.5 (3.5-14.0) | 3.64 (0.8-4.84) | 3.43 |
| | 7 | 7 | 7 | 9 | 24 | - | 1.62 | 1.62 | 1.62 | 2.08 | 5.56 | - | 12.5 (3.5-14.0) | 3.60 (0.8-4.84) | 3.47 |
| | 7 | 7 | 7 | 12 | 12 | - | 1.94 | 1.94 | 1.94 | 3.34 | 3.34 | - | 12.5 (3.5-14.0) | 3.65 (0.8-4.84) | 3.42 |
| | 7 | 7 | 7 | 12 | 14 | - | 1.86 | 1.86 | 1.86 | 3.19 | 3.73 | - | 12.5 (3.5-14.0) | 3.64 (0.8-4.84) | 3.43 |
| | 7 | 7 | 7 | 12 | 18 | - | 1.72 | 1.72 | 1.72 | 2.94 | 4.40 | - | 12.5 (3.5-14.0) | 3.62 (0.8-4.84) | 3.45 |
| | 7 | 7 | 7 | 12 | 24 | - | 1.54 | 1.54 | 1.54 | 2.63 | 5.25 | - | 12.5 (3.5-14.0) | 3.58 (0.8-4.84) | 3.49 |
| | 7 | 7 | 7 | 14 | 14 | - | 1.79 | 1.79 | 1.79 | 3.57 | 3.57 | - | 12.5 (3.5-14.0) | 3.63 (0.8-4.84) | 3.44 |
| | 7 | 7 | 7 | 14 | 18 | - | 1.65 | 1.65 | 1.65 | 3.30 | 4.25 | - | 12.5 (3.5-14.0) | 3.60 (0.8-4.84) | 3.47 |
| | 7 | 7 | 7 | 14 | 24 | - | 1.48 | 1.48 | 1.48 | 2.97 | 5.09 | - | 12.5 (3.5-14.0) | 3.57 (0.8-4.84) | 3.50 |
| | 7 | 7 | 7 | 18 | 18 | - | 1.54 | 1.54 | 1.54 | 3.94 | 3.94 | - | 12.5 (3.5-14.0) | 3.58 (0.8-4.84) | 3.49 |
| | 7 | 7 | 9 | 9 | 9 | - | 2.00 | 2.00 | 2.50 | 2.50 | 2.50 | - | 11.5 (3.5-13.0) | 3.24 (0.8-4.27) | 3.55 |
| | 7 | 7 | 9 | 9 | 12 | - | 2.00 | 2.00 | 2.50 | 2.50 | 3.50 | - | 12.5 (3.5-14.0) | 3.67 (0.8-4.84) | 3.41 |
| | 7 | 7 | 9 | 9 | 14 | - | 1.90 | 1.90 | 2.45 | 2.45 | 3.80 | - | 12.5 (3.5-14.0) | 3.65 (0.8-4.84) | 3.42 |
| | 7 | 7 | 9 | 9 | 18 | - | 1.75 | 1.75 | 2.25 | 2.25 | 4.50 | - | 12.5 (3.5-14.0) | 3.62 (0.8-4.84) | 3.45 |
| | 7 | 7 | 9 | 9 | 24 | - | 1.56 | 1.56 | 2.01 | 2.01 | 5.36 | - | 12.5 (3.5-14.0) | 3.59 (0.8-4.84) | 3.48 |
| | 7 | 7 | 9 | 12 | 12 | - | 1.86 | 1.86 | 2.40 | 3.19 | 3.19 | - | 12.5 (3.5-14.0) | 3.64 (0.8-4.84) | 3.43 |
| | 7 | 7 | 9 | 12 | 14 | - | 1.79 | 1.79 | 2.30 | 3.06 | 3.56 | - | 12.5 (3.5-14.0) | 3.63 (0.8-4.84) | 3.44 |
| | 7 | 7 | 9 | 12 | 18 | - | 1.65 | 1.65 | 2.12 | 2.83 | 4.25 | - | 12.5 (3.5-14.0) | 3.60 (0.8-4.84) | 3.47 |
| | 7 | 7 | 9 | 12 | 24 | - | 1.48 | 1.48 | 1.91 | 2.54 | 5.09 | - | 12.5 (3.5-14.0) | 3.57 (0.8-4.84) | 3.50 |
| | 7 | 7 | 9 | 14 | 14 | - | 1.72 | 1.72 | 2.20 | 3.43 | 3.43 | - | 12.5 (3.5-14.0) | 3.62 (0.8-4.84) | 3.45 |
| | 7 | 7 | 9 | 14 | 18 | - | 1.59 | 1.59 | 2.05 | 3.18 | 4.09 | - | 12.5 (3.5-14.0) | 3.59 (0.8-4.84) | 3.48 |
| | 7 | 7 | 9 | 14 | 24 | - | 1.43 | 1.43 | 1.84 | 2.87 | 4.93 | - | 12.5 (3.5-14.0) | 3.56 (0.8-4.84) | 3.51 |
| | 7 | 7 | 9 | 18 | 18 | - | 1.48 | 1.48 | 1.92 | 3.81 | 3.81 | - | 12.5 (3.5-14.0) | 3.57 (0.8-4.84) | 3.50 |
| | 7 | 7 | 12 | 12 | 12 | - | 1.75 | 1.75 | 3.00 | 3.00 | 3.00 | - | 12.5 (3.5-14.0) | 3.62 (0.8-4.84) | 3.45 |
| | 7 | 7 | 12 | 12 | 14 | - | 1.68 | 1.68 | 2.88 | 2.88 | 3.38 | - | 12.5 (3.5-14.0) | 3.61 (0.8-4.84) | 3.46 |
| | 7 | 7 | 12 | 12 | 18 | - | 1.56 | 1.56 | 2.68 | 2.68 | 4.02 | - | 12.5 (3.5-14.0) | 3.59 (0.8-4.84) | 3.48 |
| | 7 | 7 | 12 | 12 | 24 | - | 1.41 | 1.41 | 2.42 | 2.42 | 4.84 | - | 12.5 (3.5-14.0) | 3.55 (0.8-4.84) | 3.52 |
| | 7 | 7 | 12 | 14 | 14 | - | 1.62 | 1.62 | 2.78 | 3.24 | 3.24 | - | 12.5 (3.5-14.0) | 3.60 (0.8-4.84) | 3.47 |
| | 7 | 7 | 12 | 14 | 18 | - | 1.51 | 1.51 | 2.59 | 3.02 | 3.87 | - | 12.5 (3.5-14.0) | 3.57 (0.8-4.84) | 3.50 |
| | 7 | 7 | 12 | 14 | 24 | - | 1.41 | 1.41 | 2.42 | 3.63 | 3.63 | - | 12.5 (3.5-14.0) | 3.55 (0.8-4.84) | 3.52 |
| | 7 | 7 | 14 | 14 | 14 | - | 1.56 | 1.56 | 3.13 | 3.13 | 3.13 | - | 12.5 (3.5-14.0) | 3.59 (0.8-4.84) | 3.48 |
| | 7 | 7 | 14 | 14 | 18 | - | 1.46 | 1.46 | 2.92 | 2.92 | 3.74 | - | 12.5 (3.5-14.0) | 3.56 (0.8-4.84) | 3.51 |
| | 7 | 9 | 9 | 9 | 9 | - | 2.00 | 2.50 | 2.50 | 2.50 | 2.50 | - | 12.0 (3.5-13.7) | 3.47 (0.8-4.65) | 3.46 |
| | 7 | 9 | 9 | 9 | 12 | - | 1.90 | 2.45 | 2.45 | 2.45 | 3.25 | - | 12.5 (3.5-14.0) | 3.65 (0.8-4.84) | 3.42 |
| | 7 | 9 | 9 | 9 | 14 | - | 1.82 | 2.34 | 2.34 | 2.34 | 3.66 | - | 12.5 (3.5-14.0) | 3.64 (0.8-4.84) | 3.43 |
| | 7 | 9 | 9 | 9 | 18 | - | 1.68 | 2.16 | 2.16 | 2.16 | 4.34 | - | 12.5 (3.5-14.0) | 3.61 (0.8-4.84) | 3.46 |
| | 7 | 9 | 9 | 9 | 24 | - | 1.51 | 1.94 | 1.94 | 1.94 | 5.17 | - | 12.5 (3.5-14.0) | 3.57 (0.8-4.84) | 3.50 |
| | 7 | 9 | 9 | 12 | 12 | - | 1.78 | 2.30 | 2.30 | 3.06 | 3.06 | - | 12.5 (3.5-14.0) | 3.63 (0.8-4.84) | 3.44 |
| | 7 | 9 | 9 | 12 | 14 | - | 1.72 | 2.21 | 2.21 | 2.94 | 3.42 | - | 12.5 (3.5-14.0) | 3.62 (0.8-4.84) | 3.45 |
| | 7 | 9 | 9 | 12 | 18 | - | 1.59 | 2.05 | 2.05 | 2.73 | 4.08 | - | 12.5 (3.5-14.0) | 3.59 (0.8-4.84) | 3.48 |
| | 7 | 9 | 9 | 12 | 24 | - | 1.43 | 1.84 | 1.84 | 2.46 | 4.93 | - | 12.5 (3.5-14.0) | 3.56 (0.8-4.84) | 3.51 |
| | 7 | 9 | 9 |

REFRIGERANT R410A

# 6 Rooms Multi Combination Table-Cooling/Heating

## 6 Rooms Multi cooling

| AOYG45LBLA6 | Combination of Indoor Unit | | | | | | COOLING OPERATION | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Cooling Capacity | | | | | | | Input Power (min-max) | EER |
| | | | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Room 6 | Total Capacity (min-max) | | |
| | | | | | | | kW | kW | kW | kW | kW | kW | kW | kW | |
| 6 Room | 7 | 7 | 7 | 7 | 7 | 7 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 12.0 (3.5-13.4) | 3.32 (0.8-4.46) | 3.61 |
| | 7 | 7 | 7 | 7 | 7 | 9 | 2.00 | 2.00 | 2.00 | 2.00 | 2.00 | 2.50 | 12.5 (3.5-14.0) | 3.57 (0.8-4.84) | 3.50 |
| | 7 | 7 | 7 | 7 | 7 | 12 | 1.86 | 1.86 | 1.86 | 1.86 | 1.86 | 3.20 | 12.5 (3.5-14.0) | 3.55 (0.8-4.84) | 3.52 |
| | 7 | 7 | 7 | 7 | 7 | 14 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 3.55 | 12.5 (3.5-14.0) | 3.54 (0.8-4.84) | 3.53 |
| | 7 | 7 | 7 | 7 | 7 | 18 | 1.65 | 1.65 | 1.65 | 1.65 | 1.65 | 4.25 | 12.5 (3.5-14.0) | 3.51 (0.8-4.84) | 3.56 |
| | 7 | 7 | 7 | 7 | 7 | 24 | 1.48 | 1.48 | 1.48 | 1.48 | 1.48 | 5.10 | 12.5 (3.5-14.0) | 3.48 (0.8-4.84) | 3.59 |
| | 7 | 7 | 7 | 7 | 9 | 9 | 1.90 | 1.90 | 1.90 | 1.90 | 2.45 | 2.45 | 12.5 (3.5-14.0) | 3.56 (0.8-4.84) | 3.51 |
| | 7 | 7 | 7 | 7 | 9 | 12 | 1.79 | 1.79 | 1.79 | 1.79 | 2.29 | 3.05 | 12.5 (3.5-14.0) | 3.54 (0.8-4.84) | 3.53 |
| | 7 | 7 | 7 | 7 | 9 | 14 | 1.72 | 1.72 | 1.72 | 1.72 | 2.20 | 3.42 | 12.5 (3.5-14.0) | 3.53 (0.8-4.84) | 3.54 |
| | 7 | 7 | 7 | 7 | 9 | 18 | 1.59 | 1.59 | 1.59 | 1.59 | 2.05 | 4.09 | 12.5 (3.5-14.0) | 3.50 (0.8-4.84) | 3.57 |
| | 7 | 7 | 7 | 7 | 9 | 24 | 1.43 | 1.43 | 1.43 | 1.43 | 1.85 | 4.93 | 12.5 (3.5-14.0) | 3.47 (0.8-4.84) | 3.60 |
| | 7 | 7 | 7 | 7 | 12 | 12 | 1.68 | 1.68 | 1.68 | 1.68 | 2.89 | 2.89 | 12.5 (3.5-14.0) | 3.52 (0.8-4.84) | 3.55 |
| | 7 | 7 | 7 | 7 | 12 | 14 | 1.62 | 1.62 | 1.62 | 1.62 | 2.78 | 3.24 | 12.5 (3.5-14.0) | 3.51 (0.8-4.84) | 3.56 |
| | 7 | 7 | 7 | 7 | 12 | 18 | 1.51 | 1.51 | 1.51 | 1.51 | 2.59 | 3.87 | 12.5 (3.5-14.0) | 3.48 (0.8-4.84) | 3.59 |
| | 7 | 7 | 7 | 7 | 14 | 14 | 1.56 | 1.56 | 1.56 | 1.56 | 3.13 | 3.13 | 12.5 (3.5-14.0) | 3.50 (0.8-4.84) | 3.57 |
| | 7 | 7 | 7 | 7 | 14 | 18 | 1.46 | 1.46 | 1.46 | 1.46 | 2.92 | 3.74 | 12.5 (3.5-14.0) | 3.47 (0.8-4.84) | 3.60 |
| | 7 | 7 | 7 | 9 | 9 | 9 | 1.82 | 1.82 | 1.82 | 2.34 | 2.34 | 2.34 | 12.5 (3.5-14.0) | 3.55 (0.8-4.84) | 3.52 |
| | 7 | 7 | 7 | 9 | 9 | 12 | 1.72 | 1.72 | 1.72 | 2.21 | 2.21 | 2.92 | 12.5 (3.5-14.0) | 3.53 (0.8-4.84) | 3.54 |
| | 7 | 7 | 7 | 9 | 9 | 14 | 1.65 | 1.65 | 1.65 | 2.12 | 2.12 | 3.31 | 12.5 (3.5-14.0) | 3.51 (0.8-4.84) | 3.56 |
| | 7 | 7 | 7 | 9 | 9 | 18 | 1.54 | 1.54 | 1.54 | 1.97 | 1.97 | 3.94 | 12.5 (3.5-14.0) | 3.49 (0.8-4.84) | 3.58 |
| | 7 | 7 | 7 | 9 | 12 | 12 | 1.62 | 1.62 | 1.62 | 2.08 | 2.78 | 2.78 | 12.5 (3.5-14.0) | 3.51 (0.8-4.84) | 3.56 |
| | 7 | 7 | 7 | 9 | 12 | 14 | 1.56 | 1.56 | 1.56 | 2.01 | 2.68 | 3.13 | 12.5 (3.5-14.0) | 3.50 (0.8-4.84) | 3.57 |
| | 7 | 7 | 7 | 9 | 12 | 18 | 1.46 | 1.46 | 1.46 | 1.88 | 2.50 | 3.74 | 12.5 (3.5-14.0) | 3.47 (0.8-4.84) | 3.60 |
| | 7 | 7 | 7 | 9 | 14 | 14 | 1.51 | 1.51 | 1.51 | 1.93 | 3.02 | 3.02 | 12.5 (3.5-14.0) | 3.48 (0.8-4.84) | 3.59 |
| | 7 | 7 | 7 | 12 | 12 | 12 | 1.54 | 1.54 | 1.54 | 2.63 | 2.63 | 2.63 | 12.5 (3.5-14.0) | 3.49 (0.8-4.84) | 3.58 |
| | 7 | 7 | 7 | 12 | 12 | 14 | 1.48 | 1.48 | 1.48 | 2.54 | 2.54 | 2.98 | 12.5 (3.5-14.0) | 3.48 (0.8-4.84) | 3.59 |
| | 7 | 7 | 7 | 12 | 14 | 14 | 1.43 | 1.43 | 1.43 | 2.47 | 2.87 | 2.87 | 12.5 (3.5-14.0) | 3.47 (0.8-4.84) | 3.60 |
| | 7 | 7 | 9 | 9 | 9 | 9 | 1.75 | 1.75 | 2.25 | 2.25 | 2.25 | 2.25 | 12.5 (3.5-14.0) | 3.53 (0.8-4.84) | 3.54 |
| | 7 | 7 | 9 | 9 | 9 | 12 | 1.65 | 1.65 | 2.12 | 2.12 | 2.12 | 2.84 | 12.5 (3.5-14.0) | 3.51 (0.8-4.84) | 3.56 |
| | 7 | 7 | 9 | 9 | 9 | 14 | 1.59 | 1.59 | 2.05 | 2.05 | 2.05 | 3.17 | 12.5 (3.5-14.0) | 3.50 (0.8-4.84) | 3.57 |
| | 7 | 7 | 9 | 9 | 9 | 18 | 1.48 | 1.48 | 1.91 | 1.91 | 1.91 | 3.81 | 12.5 (3.5-14.0) | 3.48 (0.8-4.84) | 3.59 |
| | 7 | 7 | 9 | 9 | 12 | 12 | 1.56 | 1.56 | 2.01 | 2.01 | 2.68 | 2.68 | 12.5 (3.5-14.0) | 3.50 (0.8-4.84) | 3.57 |
| | 7 | 7 | 9 | 9 | 12 | 14 | 1.51 | 1.51 | 1.94 | 1.94 | 2.59 | 3.01 | 12.5 (3.5-14.0) | 3.48 (0.8-4.84) | 3.59 |
| | 7 | 7 | 9 | 9 | 12 | 18 | 1.41 | 1.41 | 1.81 | 1.81 | 2.42 | 3.64 | 12.5 (3.5-14.0) | 3.46 (0.8-4.84) | 3.61 |
| | 7 | 7 | 9 | 9 | 14 | 14 | 1.46 | 1.46 | 1.88 | 1.88 | 2.91 | 2.91 | 12.5 (3.5-14.0) | 3.47 (0.8-4.84) | 3.60 |
| | 7 | 7 | 9 | 12 | 12 | 12 | 1.48 | 1.48 | 1.92 | 2.54 | 2.54 | 2.54 | 12.5 (3.5-14.0) | 3.48 (0.8-4.84) | 3.59 |
| | 7 | 7 | 9 | 12 | 12 | 14 | 1.43 | 1.43 | 1.85 | 2.46 | 2.46 | 2.87 | 12.5 (3.5-14.0) | 3.47 (0.8-4.84) | 3.60 |
| | 7 | 7 | 12 | 12 | 12 | 12 | 1.41 | 1.41 | 2.42 | 2.42 | 2.42 | 2.42 | 12.5 (3.5-14.0) | 3.46 (0.8-4.84) | 3.61 |
| | 7 | 9 | 9 | 9 | 9 | 9 | 1.70 | 2.16 | 2.16 | 2.16 | 2.16 | 2.16 | 12.5 (3.5-14.0) | 3.52 (0.8-4.84) | 3.55 |
| | 7 | 9 | 9 | 9 | 9 | 12 | 1.59 | 2.05 | 2.05 | 2.05 | 2.05 | 2.71 | 12.5 (3.5-14.0) | 3.50 (0.8-4.84) | 3.57 |
| | 7 | 9 | 9 | 9 | 9 | 14 | 1.54 | 1.97 | 1.97 | 1.97 | 1.97 | 3.08 | 12.5 (3.5-14.0) | 3.49 (0.8-4.84) | 3.58 |
| | 7 | 9 | 9 | 9 | 12 | 12 | 1.50 | 1.94 | 1.94 | 1.94 | 2.59 | 2.59 | 12.5 (3.5-14.0) | 3.48 (0.8-4.84) | 3.59 |
| | 7 | 9 | 9 | 9 | 12 | 14 | 1.46 | 1.88 | 1.88 | 1.88 | 2.50 | 2.90 | 12.5 (3.5-14.0) | 3.47 (0.8-4.84) | 3.60 |
| | 7 | 9 | 9 | 12 | 12 | 12 | 1.44 | 1.84 | 1.84 | 2.46 | 2.46 | 2.46 | 12.5 (3.5-14.0) | 3.47 (0.8-4.84) | 3.60 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 2.08 | 12.5 (3.5-14.0) | 3.51 (0.8-4.84) | 3.56 |
| | 9 | 9 | 9 | 9 | 9 | 12 | 1.97 | 1.97 | 1.97 | 1.97 | 1.97 | 2.65 | 12.5 (3.5-14.0) | 3.49 (0.8-4.84) | 3.58 |
| | 9 | 9 | 9 | 9 | 12 | 12 | 1.88 | 1.88 | 1.88 | 1.88 | 2.49 | 2.49 | 12.5 (3.5-14.0) | 3.47 (0.8-4.84) | 3.60 |

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected indoor unit is up to 62000Btu from 34000Btu.

## 6 Rooms Multi heating

| AOYG45LBLA6 | Combination of Indoor Unit | | | | | | HEATING OPERATION | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Heating Capacity | | | | | | | Input Power (min-max) | COP |
| | | | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Room 6 | Total Capacity (min-max) | | |
| | | | | | | | kW | kW | kW | kW | kW | kW | kW | kW | |
| 2 Room | 12 | 24 | - | - | - | - | 4.07 | 8.13 | - | - | - | - | 12.2 (3.5-13.1) | 3.41 (0.7-3.54) | 3.58 |
| | 14 | 24 | - | - | - | - | 4.61 | 7.89 | - | - | - | - | 12.5 (3.5-13.8) | 3.56 (0.7-3.76) | 3.51 |
| | 18 | 18 | - | - | - | - | 6.10 | 6.10 | - | - | - | - | 12.2 (3.5-13.1) | 3.41 (0.7-3.54) | 3.58 |
| | 18 | 24 | - | - | - | - | 5.66 | 7.54 | - | - | - | - | 13.2 (3.5-15.3) | 3.78 (0.7-4.20) | 3.49 |
| | 24 | 24 | - | - | - | - | 6.75 | 6.75 | - | - | - | - | 13.5 (3.5-16.0) | 3.89 (0.7-4.41) | 3.47 |
| 3 Room | 7 | 7 | 24 | - | - | - | 2.30 | 2.30 | 7.90 | - | - | - | 12.5 (3.5-13.8) | 3.43 (0.7-3.76) | 3.64 |
| | 7 | 9 | 18 | - | - | - | 2.35 | 3.02 | 6.03 | - | - | - | 11.4 (3.5-12.4) | 2.98 (0.7-3.33) | 3.83 |
| | 7 | 9 | 24 | - | - | - | 2.24 | 2.88 | 7.68 | - | - | - | 12.8 (3.5-14.5) | 3.54 (0.7-3.98) | 3.62 |
| | 7 | 12 | 18 | - | - | - | 2.33 | 3.99 | 5.98 | - | - | - | 12.3 (3.5-13.5) | 3.35 (0.7-3.65) | 3.67 |
| | 7 | 12 | 24 | - | - | - | 2.17 | 3.71 | 7.42 | - | - | - | 13.3 (3.5-15.6) | 3.69 (0.7-4.30) | 3.60 |
| | 7 | 14 | 14 | - | - | - | 2.40 | 4.80 | 4.80 | - | - | - | 12.0 (3.5-12.7) | 3.15 (0.7-3.44) | 3.81 |
| | 7 | 14 | 18 | - | - | - | 2.28 | 4.56 | 5.86 | - | - | - | 12.7 (3.5-14.2) | 3.49 (0.7-3.87) | 3.64 |
| | 7 | 14 | 24 | - | - | - | 2.10 | 4.20 | 7.20 | - | - | - | 13.5 (3.5-16.0) | 3.75 (0.7-4.41) | 3.60 |
| | 7 | 18 | 18 | - | - | - | 2.16 | 5.57 | 5.57 | - | - | - | 13.3 (3.5-15.6) | 3.69 (0.7-4.30) | 3.60 |
| | 7 | 18 | 24 | - | - | - | 1.93 | 4.96 | 6.61 | - | - | - | 13.5 (3.5-16.0) | 3.74 (0.7-4.41) | 3.61 |
| | 7 | 24 | 24 | - | - | - | 1.72 | 5.89 | 5.89 | - | - | - | 13.5 (3.5-16.0) | 3.72 (0.7-4.41) | 3.63 |
| | 9 | 9 | 18 | - | - | - | 3.05 | 3.05 | 6.10 | - | - | - | 12.2 (3.5-13.1) | 3.28 (0.7-3.54) | 3.72 |
| | 9 | 9 | 24 | - | - | - | 2.83 | 2.83 | 7.54 | - | - | - | 13.2 (3.5-15.3) | 3.64 (0.7-4.20) | 3.63 |
| | 9 | 12 | 14 | - | - | - | 3.09 | 4.11 | 4.80 | - | - | - | 12.0 (3.5-12.7) | 3.15 (0.7-3.44) | 3.81 |
| | 9 | 12 | 18 | - | - | - | 2.93 | 3.91 | 5.86 | - | - | - | 12.7 (3.5-14.2) | 3.49 (0.7-3.87) | 3.64 |
| | 9 | 12 | 24 | - | - | - | 2.70 | 3.60 | 7.20 | - | - | - | 13.5 (3.5-16.0) | 3.75 (0.7-4.41) | 3.60 |
| | 9 | 14 | 14 | - | - | - | 3.00 | 4.65 | 4.65 | - | - | - | 12.3 (3.5-13.5) | 3.35 (0.7-3.65) | 3.67 |
| | 9 | 14 | 18 | - | - | - | 2.85 | 4.44 | 5.71 | - | - | - | 13.0 (3.5-14.9) | 3.59 (0.7-4.09) | 3.62 |
| | 9 | 14 | 24 | - | - | - | 2.59 | 4.02 | 6.89 | - | - | - | 13.5 (3.5-16.0) | 3.74 (0.7-4.41) | 3.61 |
| | 9 | 18 | 18 | - | - | - | 2.70 | 5.40 | 5.40 | - | - | - | 13.5 (3.5-16.0) | 3.75 (0.7-4.41) | 3.60 |
| | 9 | 18 | 24 | - | - | - | 2.38 | 4.76 | 6.36 | - | - | - | 13.5 (3.5-16.0) | 3.73 (0.7-4.41) | 3.62 |
| | 9 | 24 | 24 | - | - | - | 2.14 | 5.68 | 5.68 | - | - | - | 13.5 (3.5-16.0) | 3.71 (0.7-4.41) | 3.64 |
| | 12 | 12 | 12 | - | - | - | 4.07 | 4.07 | 4.07 | - | - | - | 12.2 (3.5-13.1) | 3.28 (0.7-3.54) | 3.72 |
| | 12 | 12 | 14 | - | - | - | 3.94 | 3.95 | 4.61 | - | - | - | 12.5 (3.5-13.8) | 3.43 (0.7-3.76) | 3.64 |
| | 12 | 12 | 18 | - | - | - | 3.77 | 3.77 | 5.66 | - | - | - | 13.2 (3.5-15.3) | 3.64 (0.7-4.20) | 3.63 |
| | 12 | 12 | 24 | - | - | - | 3.38 | 3.38 | 6.74 | - | - | - | 13.5 (3.5-16.0) | 3.74 (0.7-4.41) | 3.61 |
| | 12 | 14 | 14 | - | - | - | 3.84 | 4.48 | 4.48 | - | - | - | 12.8 (3.5-14.5) | 3.54 (0.7-3.98) | 3.62 |
| | 12 | 14 | 18 | - | - | - | 3.68 | 4.30 | 5.52 | - | - | - | 13.5 (3.5-16.0) | 3.75 (0.7-4.41) | 3.60 |
| | 12 | 14 | 24 | - | - | - | 3.24 | 3.78 | 6.48 | - | - | - | 13.5 (3.5-16.0) | 3.74 (0.7-4.41) | 3.61 |
| | 12 | 18 | 18 | - | - | - | 3.38 | 5.06 | 5.06 | - | - | - | 13.5 (3.5-16.0) | 3.74 (0.7-4.41) | 3.61 |
| | 12 | 18 | 24 | - | - | - | 3.00 | 4.50 | 6.00 | - | - | - | 13.5 (3.5-16.0) | 3.72 (0.7-4.41) | 3.63 |
| | 12 | 24 | 24 | - | - | - | 2.70 | 5.40 | 5.40 | - | - | - | 13.5 (3.5-16.0) | 3.71 (0.7-4.41) | 3.64 |
| | 14 | 14 | 14 | - | - | - | 4.40 | 4.40 | 4.40 | - | - | - | 13.2 (3.5-15.3) | 3.64 (0.7-4.20) | 3.63 |
| | 14 | 14 | 18 | - | - | - | 4.11 | 4.11 | 5.28 | - | - | - | 13.5 (3.5-16.0) | 3.75 (0.7-4.41) | 3.60 |
| | 14 | 14 | 24 | - | - | - | 3.63 | 3.63 | 6.24 | - | - | - | 13.5 (3.5-16.0) | 3.73 (0.7-4.41) | 3.62 |
| | 14 | 18 | 18 | - | - | - | 3.78 | 4.86 | 4.86 | - | - | - | 13.5 (3.5-16.0) | 3.74 (0.7-4.41) | 3.61 |
| | 14 | 18 | 24 | - | - | - | 3.38 | 4.34 | 5.78 | - | - | - | 13.5 (3.5-16.0) | 3.72 (0.7-4.41) | 3.63 |
| | 14 | 24 | 24 | - | - | - | 3.04 | 5.23 | 5.23 | - | - | - | 13.5 (3.5-16.0) | 3.70 (0.7-4.41) | 3.65 |
| | 18 | 18 | 18 | - | - | - | 4.50 | 4.50 | 4.50 | - | - | - | 13.5 (3.5-16.0) | 3.72 (0.7-4.41) | 3.63 |
| | 18 | 18 | 24 | - | - | - | 4.05 | 4.05 | 5.40 | - | - | - | 13.5 (3.5-16.0) | 3.71 (0.7-4.41) | 3.64 |
| 4 Room | 7 | 7 | 7 | 14 | - | - | 2.40 | 2.40 | 2.40 | 4.80 | - | - | 12.0 (3.5-12.7) | 2.98 (0.7-3.44) | 4.03 |
| | 7 | 7 | 7 | 18 | - | - | 2.28 | 2.28 | 2.28 | 5.86 | - | - | 12.7 (3.5-14.2) | 3.35 (0.7-3.87) | 3.79 |
| | 7 | 7 | 7 | 24 | - | - | 2.10 | 2.10 | 2.10 | 7.20 | - | - | 13.5 (3.5-16.0) | 3.61 (0.7-4.41) | 3.74 |
| | 7 | 7 | 9 | 12 | - | - | 2.40 | 2.40 | 3.09 | 4.11 | - | - | 12.0 (3.5-12.7) | 2.98 (0.7-3.44) | 4.03 |
| | 7 | 7 | 9 | 14 | - | - | 2.33 | 2.33 | 2.99 | 4.65 | - | - | 12.3 (3.5-13.5) | 3.19 (0.7-3.65) | 3.86 |
| | 7 | 7 | 9 | 18 | - | - | 2.22 | 2.22 | 2.85 | 5.71 | - | - | 13.0 (3.5-14.9) | 3.46 (0.7-4.09) | 3.76 |
| | 7 | 7 | 9 | 24 | - | - | 2.01 | 2.01 | 2.59 | 6.89 | - | - | 13.5 (3.5-16.0) | 3.60 (0.7-4.41) | 3.75 |
| | 7 | 7 | 12 | 12 | - | - | 2.30 | 2.30 | 3.95 | 3.95 | - | - | 12.5 (3.5-13.8) | 3.28 (0.7-3.76) | 3.81 |
| | 7 | 7 | 12 | 14 | - | - | 2.24 | 2.24 | 3.84 | 4.48 | - | - | 12.8 (3.5-14.5) | 3.41 (0.7-3.98) | 3.75 |
| | 7 | 7 | 12 | 18 | - | - | 2.15 | 2.15 | 3.68 | 5.52 | - | - | 13.5 (3.5-16.0) | 3.61 (0.7-4.41) | 3.74 |
| | 7 | 7 | 12 | 24 | - | - | 1.89 | 1.89 | 3.24 | 6.48 | - | - | 13.5 (3.5-16.0) | 3.60 (0.7-4.41) | 3.75 |
| | 7 | 7 | 14 | 14 | - | - | 2.20 | 2.20 | 4.40 | 4.40 | - | - | 13.2 (3.5-15.3) | 3.52 (0.7-4.20) | 3.75 |
| | 7 | 7 | 14 | 18 | - | - | 2.05 | 2.05 | 4.11 | 5.29 | - | - | 13.5 (3.5-16.0) | 3.61 (0.7-4.41) | 3.74 |
| | 7 | 7 | 14 | 24 | - | - | 1.82 | 1.82 | 3.63 | 6.23 | - | - | 13.5 (3.5-16.0) | 3.59 (0.7-4.41) | 3.76 |
| | 7 | 7 | 18 | 18 | - | - | 1.89 | 1.89 | 4.86 | 4.86 | - | - | 13.5 (3.5-16.0) | 3.60 (0.7-4.41) | 3.75 |
| | 7 | 7 | 18 | 24 | - | - | 1.69 | 1.69 | 4.34 | 5.78 | - | - | 13.5 (3.5-16.0) | 3.58 (0.7-4.41) | 3.77 |
| | 7 | 7 | 24 | 24 | - | - | 1.52 | 1.52 | 5.23 | 5.23 | - | - | 13.5 (3.5-16.0) | 3.56 (0.7-4.41) | 3.79 |
| | 7 | 9 | 9 | 9 | - | - | 2.34 | 3.02 | 3.02 | 3.02 | - | - | 11.4 (3.5-12.4) | 2.82 (0.7-3.33) | 4.04 |
| | 7 | 9 | 9 | 12 | - | - | 2.33 | 2.99 | 2.99 | 3.99 | - | - | 12.3 (3.5-13.5) | 3.19 (0.7-3.65) | 3.86 |
| | 7 | 9 | 9 | 14 | - | - | 2.28 | 2.93 | 2.93 | 4.56 | - | - | 12.7 (3.5-14.2) | 3.35 (0.7-3.87) | 3.79 |
| | 7 | 9 | 9 | 18 | - | - | 2.17 | 2.78 | 2.78 | 5.57 | - | - | 13.3 (3.5-15.6) | 3.56 (0.7-4.30) | 3.74 |
| | 7 | 9 | 9 | 24 | - | - | 1.93 | 2.48 | 2.48 | 6.61 | - | - | 13.5 (3.5-16.0) | 3.60 (0.7-4.41) | 3.75 |
| | 7 | 9 | 12 | 12 | - | - | 2.24 | 2.88 | 3.84 | 3.84 | - | - | 12.8 (3.5-14.5) | 3.41 (0.7-3.98) | 3.75 |
| | 7 | 9 | 12 | 14 | - | - | 2.20 | 2.83 | 3.77 | 4.40 | - | - | 13.2 (3.5-15.3) | 3.52 (0.7-4.20) | 3.75 |
| | 7 | 9 | 12 | 18 | - | - | 2.05 | 2.64 | 3.52 | 5.29 | - | - | 13.5 (3.5-16.0) | 3.61 (0.7-4.41) | 3.74 |
| | 7 | 9 | 12 | 24 | - | - | 1.82 | 2.34 | 3.12 | 6.22 | - | - | 13.5 (3.5-16.0) | 3.59 (0.7-4.41) | 3.76 |
| | 7 | 9 | 14 | 14 | - | - | 2.15 | 2.75 | 4.30 | 4.30 | - | - | 13.5 (3.5-16.0) | 3.61 (0.7-4.41) | 3.74 |
| | 7 | 9 | 14 | 18 | - | - | 1.97 | 2.53 | 3.94 | 5.06 | - | - | 13.5 (3.5-16.0) | 3.60 (0.7-4.41) | 3.75 |
| | 7 | 9 | 14 | 24 | - | - | 1.75 | 2.25 | 3.50 | 6.00 | - | - | 13.5 (3.5-16.0) | 3.58 (0.7-4.41) | 3.77 |
| | 7 | 9 | 18 | 18 | - | - | 1.82 | 2.34 | 4.67 | 4.67 | - | - | 13.5 (3.5-16.0) | 3.59 (0.7-4.41) | 3.76 |
| | 7 | 9 | 18 | 24 | - | - | 1.63 | 2.09 | 4.19 | 5.59 | - | - | 13.5 (3.5-16.0) | 3.57 (0.7-4.41) | 3.78 |
| | 7 | 12 | 12 | 12 | - | - | 2.17 | 3.71 | 3.71 | 3.71 | - | - | 13.3 (3.5-15.6) | 3.56 (0.7-4.30) | 3.74 |
| | 7 | 12 | 12 | 14 | - | - | 2.10 | 3.60 | 3.60 | 4.20 | - | - | 13.5 (3.5-16.0) | 3.61 (0.7-4.41) | 3.74 |
| | 7 | 12 | 12 | 18 | - | - | 1.93 | 3.31 | 3.31 | 4.95 | - | - | 13.5 (3.5-16.0) | 3.60 (0.7-4.41) | 3.75 |
| | 7 | 12 | 12 | 24 | - | - | 1.72 | 2.95 | 2.95 | 5.88 | - | - | 13.5 (3.5-16.0) | 3.58 (0.7-4.41) | 3.77 |
| | 7 | 12 | 14 | 14 | - | - | 2.01 | 3.45 | 4.02 | 4.02 | - | - | 13.5 (3.5-16.0) | 3.60 (0.7-4.41) | 3.75 |
| | 7 | 12 | 14 | 18 | - | - | 1.85 | 3.18 | 3.71 | 4.76 | - | - | 13.5 (3.5-16.0) | 3.59 (0.7-4.41) | 3.76 |
| | 7 | 12 | 14 | 24 | - | - | 1.66 | 2.84 | 3.32 | 5.68 | - | - | 13.5 (3.5-16.0) | 3.57 (0.7-4.41) | 3.78 |
| | 7 | 12 | 18 | 18 | - | - | 1.72 | 2.94 | 4.42 | 4.42 | - | - | 13.5 (3.5-16.0) | 3.58 (0.7-4.41) | 3.77 |
| | 7 | 12 | 18 | 24 | - | - | 1.55 | 2.66 | 3.98 | 5.31 | - | - | 13.5 (3.5-16.0) | 3.56 (0.7-4.41) | 3.79 |
| | 7 | 14 | 14 | 14 | - | - | 1.92 | 3.86 | 3.86 | 3.86 | - | - | 13.5 (3.5-16.0) | 3.60 (0.7-4.41) | 3.75 |
| | 7 | 14 | 14 | 18 | - | - | 1.78 | 3.57 | 3.57 | 4.58 | - | - | 13.5 (3.5-16.0) | 3.59 (0.7-4.41) | 3.76 |
| | 7 | 14 | 14 | 24 | - | - | 1.60 | 3.20 | 3.20 | 5.50 | - | - | 13.5 (3.5-16.0) | 3.57 (0.7-4.41) | 3.78 |
| | 7 | 14 | 18 | 18 | - | - | 1.66 | 3.32 | 4.26 | 4.26 | - | - | 13.5 (3.5-16.0) | 3.57 (0.7-4.41) | 3.78 |
| | 7 | 18 | 18 | 18 | - | - | 1.56 | 3.98 | 3.98 | 3.98 | - | - | 13.5 (3.5-16.0) | 3.56 (0.7-4.41) | 3.79 |
| | 9 | 9 | 9 | 9 | - | - | 3.05 | 3.05 | 3.05 | 3.05 | - | - | 12.2 (3.5-13.1) | 3.09 (0.7-3.54) | 3.95 |
| | 9 | 9 | 9 | 12 | - | - | 2.93 | 2.93 | 2.93 | 3.91 | - | - | 12.7 (3.5-14.2) | 3.35 (0.7-3.87) | 3.79 |
| | 9 | 9 | 9 | 14 | - | - | 2.85 | 2.85 | 2.85 | 4.45 | - | - | 13.0 (3.5-14.9) | 3.46 (0.7-4.09) | 3.76 |
| | 9 | 9 | 9 | 18 | - | - | 2.70 | 2.70 | 2.70 | 5.40 | - | - | 13.5 (3.5-16.0) | 3.61 (0.7-4.41) | 3.74 |
| | 9 | 9 | 9 | 24 | - | - | 2.38 | 2.38 | 2.38 | 6.36 | - | - | 13.5 (3.5-16.0) | 3.59 (0.7-4.41) | 3.76 |
| | 9 | 9 | 12 | 12 | - | - | 2.83 | 2.83 | 3.77 | 3.77 | - | - | 13.2 (3.5-15.3) | 3.52 (0.7-4.20) | 3.75 |
| | 9 | 9 | 12 | 14 | - | - | 2.76 | 2.76 | 3.68 | 4.30 | - | - | 13.5 (3.5-16.0) | 3.61 (0.7-4.41) | 3.74 |
| | 9 | 9 | 12 | 18 | - | - | 2.53 | 2.53 | 3.38 | 5.06 | - | - | 13.5 (3.5-16.0) | 3.60 (0.7-4.41) | 3.75 |
| | 9 | 9 | 12 | 24 | - | - | 2.25 | 2.25 | 3.00 | 6.00 | - | - | 13.5 (3.5-16.0) | 3.58 (0.7-4.41) | 3.77 |
| | 9 | 9 | 14 | 14 | - | - | 2.64 | 2.64 | 4.11 | 4.11 | - | - | 13.5 (3.5-16.0) | 3.61 (0.7-4.41) | 3.74 |
| | 9 | 9 | 14 | 18 | - | - | 2.43 | 2.43 | 3.78 | 4.86 | - | - | 13.5 (3.5-16.0) | 3.60 (0.7-4.41) | 3.75 |
| | 9 | 9 | 14 | 24 | - | - | 2.17 | 2.17 | 3.38 | 5.78 | - | - | 13.5 (3.5-16.0) | 3.58 (0.7-4.41) | 3.77 |
| | 9 | 9 | 18 | 18 | - | - | 2.25 | 2.25 | 4.50 | 4.50 | - | - | 13.5 (3.5-16.0) | 3.58 (0.7-4.41) | 3.77 |
| | 9 | 9 | 18 | 24 | - | - | 2.03 | 2.03 | 4.05 | 5.39 | - | - | 13.5 (3.5-16.0) | 3.57 (0.7-4.41) | 3.78 |
| | 9 | 12 | 12 | 12 | - | - | 2.70 | 3.60 | 3.60 | 3.60 | - | - | 13.5 (3.5-16.0) | 3.61 (0.7-4.41) | 3.74 |
| | 9 | 12 | 12 | 14 | - | - | 2.59 | 3.45 | 3.45 | 4.01 | - | - | 13.5 (3.5-16.0) | 3.60 (0.7-4.41) | 3.75 |
| | 9 | 12 | 12 | 18 | - | - | 2.38 | 3.18 | 3.18 | 4.76 | - | - | 13.5 (3.5-16.0) | 3.59 (0.7-4.41) | 3.76 |
| | 9 | 12 | 12 | 24 | - | - | 2.13 | 2.84 | 2.84 | 5.69 | - | - | 13.5 (3.5-16.0) | 3.57 (0.7-4.41) | 3.78 |
| | 9 | 12 | 14 | 14 | - | - | 2.48 | 3.30 | 3.86 | 3.86 | - | - | 13.5 (3.5-16.0) | 3.60 (0.7-4.41) | 3.75 |
| | 9 | 12 | 14 | 18 | - | - | 2.29 | 3.06 | 3.57 | 4.58 | - | - | 13.5 (3.5-16.0) | 3.59 (0.7-4.41) | 3.76 |
| | 9 | 12 | 14 | 24 | - | - | 2.06 | 2.75 | 3.20 | 5.49 | - | - | 13.5 (3.5-16.0) | 3.57 (0.7-4.41) | 3.78 |
| | 9 | 12 | 18 | 18 | - | - | 2.13 | 2.85 | 4.26 | 4.26 | - | - | 13.5 (3.5-16.0) | 3.57 (0.7-4.41) | 3.78 |
| | 9 | 14 | 14 | 14 | - | - | 2.37 | 3.71 | 3.71 | 3.71 | - | - | 13.5 (3.5-16.0) | 3.59 (0.7-4.41) | 3.76 |
| | 9 | 14 | 14 | 18 | - | - | 2.21 | 3.44 | 3.44 | 4.41 | - | - | 13.5 (3.5-16.0) | 3.58 (0.7-4.41) | 3.77 |
| | 9 | 14 | 14 | 24 | - | - | 1.99 | 3.10 | 3.10 | 5.31 | - | - | 13.5 (3.5-16.0) | 3.56 (0.7-4.41) | 3.79 |
| | 9 | 14 | 18 | 18 | - | - | 2.06 | 3.20 | 4.12 | 4.12 | - | - | 13.5 (3.5-16.0) | 3.57 (0.7-4.41) | 3.78 |

# 6 Rooms Multi Combination Table–Heating

## 6 Rooms Multi heating

| AOYG45LBLA6 | Combination of Indoor Unit | | | | | | HEATING OPERATION | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Heating Capacity | | | | | | | Input Power (min-max) | COP |
| | | | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Room 6 | Total Capacity (min-max) | | |
| | | | | | | | kW | kW | kW | kW | kW | kW | kW | kW | |
| 4 Room | 12 | 12 | 12 | 12 | - | - | 3.38 | 3.38 | 3.38 | 3.38 | - | - | 13.5 (3.5-16.0) | 3.60 (0.7-4.41) | 3.75 |
| | 12 | 12 | 12 | 14 | - | - | 3.24 | 3.24 | 3.24 | 3.78 | - | - | 13.5 (3.5-16.0) | 3.60 (0.7-4.41) | 3.75 |
| | 12 | 12 | 12 | 18 | - | - | 3.00 | 3.00 | 3.00 | 4.50 | - | - | 13.5 (3.5-16.0) | 3.58 (0.7-4.41) | 3.77 |
| | 12 | 12 | 12 | 24 | - | - | 2.70 | 2.70 | 2.70 | 5.40 | - | - | 13.5 (3.5-16.0) | 3.57 (0.7-4.41) | 3.78 |
| | 12 | 12 | 14 | 14 | - | - | 3.12 | 3.12 | 3.63 | 3.63 | - | - | 13.5 (3.5-16.0) | 3.59 (0.7-4.41) | 3.76 |
| | 12 | 12 | 14 | 18 | - | - | 2.89 | 2.89 | 3.38 | 4.34 | - | - | 13.5 (3.5-16.0) | 3.58 (0.7-4.41) | 3.77 |
| | 12 | 12 | 14 | 24 | - | - | 2.61 | 2.61 | 3.05 | 5.23 | - | - | 13.5 (3.5-16.0) | 3.56 (0.7-4.41) | 3.79 |
| | 12 | 12 | 18 | 18 | - | - | 2.70 | 2.70 | 4.05 | 4.05 | - | - | 13.5 (3.5-16.0) | 3.57 (0.7-4.41) | 3.78 |
| | 12 | 14 | 14 | 14 | - | - | 3.00 | 3.50 | 3.50 | 3.50 | - | - | 13.5 (3.5-16.0) | 3.58 (0.7-4.41) | 3.77 |
| | 12 | 14 | 14 | 18 | - | - | 2.79 | 3.26 | 3.26 | 4.19 | - | - | 13.5 (3.5-16.0) | 3.57 (0.7-4.41) | 3.78 |
| | 12 | 14 | 18 | 18 | - | - | 2.61 | 3.05 | 3.92 | 3.92 | - | - | 13.5 (3.5-16.0) | 3.56 (0.7-4.41) | 3.79 |
| | 7 | 7 | 7 | 7 | 7 | - | 2.40 | 2.40 | 2.40 | 2.40 | 2.40 | - | 12.0 (3.5-12.7) | 2.82 (0.7-3.44) | 4.26 |
| | 7 | 7 | 7 | 7 | 9 | - | 2.33 | 2.33 | 2.33 | 2.33 | 2.98 | - | 12.3 (3.5-13.5) | 3.03 (0.7-3.65) | 4.06 |
| | 7 | 7 | 7 | 7 | 12 | - | 2.24 | 2.24 | 2.24 | 2.24 | 3.84 | - | 12.8 (3.5-14.5) | 3.29 (0.7-3.98) | 3.89 |
| | 7 | 7 | 7 | 7 | 14 | - | 2.20 | 2.20 | 2.20 | 2.20 | 4.40 | - | 13.2 (3.5-15.3) | 3.40 (0.7-4.20) | 3.88 |
| | 7 | 7 | 7 | 7 | 18 | - | 2.05 | 2.05 | 2.05 | 2.05 | 5.30 | - | 13.5 (3.5-16.0) | 3.49 (0.7-4.41) | 3.87 |
| | 7 | 7 | 7 | 7 | 24 | - | 1.82 | 1.82 | 1.82 | 1.82 | 6.22 | - | 13.5 (3.5-16.0) | 3.47 (0.7-4.41) | 3.89 |
| | 7 | 7 | 7 | 9 | 9 | - | 2.28 | 2.28 | 2.28 | 2.93 | 2.93 | - | 12.7 (3.5-14.2) | 3.23 (0.7-3.87) | 3.93 |
| | 7 | 7 | 7 | 9 | 12 | - | 2.20 | 2.20 | 2.20 | 2.83 | 3.77 | - | 13.2 (3.5-15.3) | 3.40 (0.7-4.20) | 3.88 |
| | 7 | 7 | 7 | 9 | 14 | - | 2.15 | 2.15 | 2.15 | 2.76 | 4.29 | - | 13.5 (3.5-16.0) | 3.49 (0.7-4.41) | 3.87 |
| | 7 | 7 | 7 | 9 | 18 | - | 1.97 | 1.97 | 1.97 | 2.53 | 5.06 | - | 13.5 (3.5-16.0) | 3.48 (0.7-4.41) | 3.88 |
| | 7 | 7 | 7 | 9 | 24 | - | 1.75 | 1.75 | 1.75 | 2.25 | 6.00 | - | 13.5 (3.5-16.0) | 3.46 (0.7-4.41) | 3.90 |
| | 7 | 7 | 7 | 12 | 12 | - | 2.10 | 2.10 | 2.10 | 3.60 | 3.60 | - | 13.5 (3.5-16.0) | 3.49 (0.7-4.41) | 3.87 |
| | 7 | 7 | 7 | 12 | 14 | - | 2.01 | 2.01 | 2.01 | 3.45 | 4.02 | - | 13.5 (3.5-16.0) | 3.48 (0.7-4.41) | 3.88 |
| | 7 | 7 | 7 | 12 | 18 | - | 1.85 | 1.85 | 1.85 | 3.18 | 4.77 | - | 13.5 (3.5-16.0) | 3.47 (0.7-4.41) | 3.89 |
| | 7 | 7 | 7 | 12 | 24 | - | 1.66 | 1.66 | 1.66 | 2.84 | 5.68 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 7 | 7 | 7 | 14 | 14 | - | 1.93 | 1.93 | 1.93 | 3.86 | 3.86 | - | 13.5 (3.5-16.0) | 3.48 (0.7-4.41) | 3.88 |
| | 7 | 7 | 7 | 14 | 18 | - | 1.78 | 1.78 | 1.78 | 3.57 | 4.59 | - | 13.5 (3.5-16.0) | 3.47 (0.7-4.41) | 3.89 |
| | 7 | 7 | 7 | 14 | 24 | - | 1.60 | 1.60 | 1.60 | 3.20 | 5.50 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 7 | 7 | 7 | 18 | 18 | - | 1.66 | 1.66 | 1.66 | 4.26 | 4.26 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 7 | 7 | 9 | 9 | 9 | - | 2.22 | 2.22 | 2.85 | 2.85 | 2.85 | - | 13.0 (3.5-14.9) | 3.34 (0.7-4.09) | 3.89 |
| | 7 | 7 | 9 | 9 | 12 | - | 2.15 | 2.15 | 2.76 | 2.76 | 3.68 | - | 13.5 (3.5-16.0) | 3.49 (0.7-4.41) | 3.87 |
| | 7 | 7 | 9 | 9 | 14 | - | 2.05 | 2.05 | 2.64 | 2.64 | 4.12 | - | 13.5 (3.5-16.0) | 3.49 (0.7-4.41) | 3.87 |
| | 7 | 7 | 9 | 9 | 18 | - | 1.89 | 1.89 | 2.43 | 2.43 | 4.86 | - | 13.5 (3.5-16.0) | 3.48 (0.7-4.41) | 3.88 |
| | 7 | 7 | 9 | 9 | 24 | - | 1.69 | 1.69 | 2.17 | 2.17 | 5.78 | - | 13.5 (3.5-16.0) | 3.46 (0.7-4.41) | 3.90 |
| | 7 | 7 | 9 | 12 | 12 | - | 2.01 | 2.01 | 2.58 | 3.45 | 3.45 | - | 13.5 (3.5-16.0) | 3.48 (0.7-4.41) | 3.88 |
| | 7 | 7 | 9 | 12 | 14 | - | 1.93 | 1.93 | 2.48 | 3.31 | 3.85 | - | 13.5 (3.5-16.0) | 3.48 (0.7-4.41) | 3.88 |
| | 7 | 7 | 9 | 12 | 18 | - | 1.78 | 1.78 | 2.29 | 3.06 | 4.59 | - | 13.5 (3.5-16.0) | 3.47 (0.7-4.41) | 3.89 |
| | 7 | 7 | 9 | 12 | 24 | - | 1.60 | 1.60 | 2.06 | 2.75 | 5.49 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 7 | 7 | 9 | 14 | 14 | - | 1.85 | 1.85 | 2.38 | 3.71 | 3.71 | - | 13.5 (3.5-16.0) | 3.47 (0.7-4.41) | 3.89 |
| | 7 | 7 | 9 | 14 | 18 | - | 1.72 | 1.72 | 2.21 | 3.44 | 4.41 | - | 13.5 (3.5-16.0) | 3.46 (0.7-4.41) | 3.90 |
| | 7 | 7 | 9 | 14 | 24 | - | 1.55 | 1.55 | 1.99 | 3.10 | 5.31 | - | 13.5 (3.5-16.0) | 3.44 (0.7-4.41) | 3.92 |
| | 7 | 7 | 9 | 18 | 18 | - | 1.60 | 1.60 | 2.06 | 4.12 | 4.12 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 7 | 7 | 12 | 12 | 12 | - | 1.89 | 1.89 | 3.24 | 3.24 | 3.24 | - | 13.5 (3.5-16.0) | 3.48 (0.7-4.41) | 3.88 |
| | 7 | 7 | 12 | 12 | 14 | - | 1.82 | 1.82 | 3.12 | 3.12 | 3.62 | - | 13.5 (3.5-16.0) | 3.47 (0.7-4.41) | 3.89 |
| | 7 | 7 | 12 | 12 | 18 | - | 1.69 | 1.69 | 2.89 | 2.89 | 4.34 | - | 13.5 (3.5-16.0) | 3.46 (0.7-4.41) | 3.90 |
| | 7 | 7 | 12 | 12 | 24 | - | 1.52 | 1.52 | 2.61 | 2.61 | 5.24 | - | 13.5 (3.5-16.0) | 3.44 (0.7-4.41) | 3.92 |
| | 7 | 7 | 12 | 14 | 14 | - | 1.75 | 1.75 | 3.00 | 3.50 | 3.50 | - | 13.5 (3.5-16.0) | 3.46 (0.7-4.41) | 3.90 |
| | 7 | 7 | 12 | 14 | 18 | - | 1.63 | 1.63 | 2.79 | 3.26 | 4.19 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 7 | 7 | 12 | 18 | 18 | - | 1.52 | 1.52 | 2.62 | 3.92 | 3.92 | - | 13.5 (3.5-16.0) | 3.44 (0.7-4.41) | 3.92 |
| | 7 | 7 | 14 | 14 | 14 | - | 1.68 | 1.68 | 3.38 | 3.38 | 3.38 | - | 13.5 (3.5-16.0) | 3.46 (0.7-4.41) | 3.90 |
| | 7 | 7 | 14 | 14 | 18 | - | 1.58 | 1.58 | 3.15 | 3.15 | 4.04 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| 5 Room | 7 | 9 | 9 | 9 | 9 | - | 2.18 | 2.78 | 2.78 | 2.78 | 2.78 | - | 13.3 (3.5-15.6) | 3.44 (0.7-4.30) | 3.87 |
| | 7 | 9 | 9 | 9 | 12 | - | 2.05 | 2.64 | 2.64 | 2.64 | 3.53 | - | 13.5 (3.5-16.0) | 3.49 (0.7-4.41) | 3.87 |
| | 7 | 9 | 9 | 9 | 14 | - | 1.97 | 2.53 | 2.53 | 2.53 | 3.96 | - | 13.5 (3.5-16.0) | 3.48 (0.7-4.41) | 3.88 |
| | 7 | 9 | 9 | 9 | 18 | - | 1.82 | 2.34 | 2.34 | 2.34 | 4.66 | - | 13.5 (3.5-16.0) | 3.47 (0.7-4.41) | 3.89 |
| | 7 | 9 | 9 | 9 | 24 | - | 1.63 | 2.09 | 2.09 | 2.09 | 5.60 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 7 | 9 | 9 | 12 | 12 | - | 1.92 | 2.48 | 2.48 | 3.31 | 3.31 | - | 13.5 (3.5-16.0) | 3.48 (0.7-4.41) | 3.88 |
| | 7 | 9 | 9 | 12 | 14 | - | 1.85 | 2.38 | 2.38 | 3.18 | 3.71 | - | 13.5 (3.5-16.0) | 3.47 (0.7-4.41) | 3.89 |
| | 7 | 9 | 9 | 12 | 18 | - | 1.72 | 2.21 | 2.21 | 2.95 | 4.41 | - | 13.5 (3.5-16.0) | 3.46 (0.7-4.41) | 3.90 |
| | 7 | 9 | 9 | 12 | 24 | - | 1.55 | 1.99 | 1.99 | 2.66 | 5.31 | - | 13.5 (3.5-16.0) | 3.44 (0.7-4.41) | 3.92 |
| | 7 | 9 | 9 | 14 | 14 | - | 1.78 | 2.29 | 2.29 | 3.57 | 3.57 | - | 13.5 (3.5-16.0) | 3.47 (0.7-4.41) | 3.89 |
| | 7 | 9 | 9 | 14 | 18 | - | 1.66 | 2.13 | 2.13 | 3.32 | 4.26 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 7 | 9 | 9 | 18 | 18 | - | 1.56 | 1.99 | 1.99 | 3.98 | 3.98 | - | 13.5 (3.5-16.0) | 3.44 (0.7-4.41) | 3.92 |
| | 7 | 9 | 12 | 12 | 12 | - | 1.82 | 2.32 | 3.12 | 3.12 | 3.12 | - | 13.5 (3.5-16.0) | 3.47 (0.7-4.41) | 3.89 |
| | 7 | 9 | 12 | 12 | 14 | - | 1.75 | 2.25 | 3.00 | 3.00 | 3.50 | - | 13.5 (3.5-16.0) | 3.46 (0.7-4.41) | 3.90 |
| | 7 | 9 | 12 | 12 | 18 | - | 1.63 | 2.09 | 2.79 | 2.79 | 4.20 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 7 | 9 | 12 | 14 | 14 | - | 1.69 | 2.17 | 2.88 | 3.38 | 3.38 | - | 13.5 (3.5-16.0) | 3.46 (0.7-4.41) | 3.90 |
| | 7 | 9 | 12 | 14 | 18 | - | 1.58 | 2.03 | 2.70 | 3.15 | 4.04 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 7 | 9 | 14 | 14 | 14 | - | 1.63 | 2.09 | 3.26 | 3.26 | 3.26 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 7 | 9 | 14 | 14 | 18 | - | 1.52 | 1.96 | 3.05 | 3.05 | 3.92 | - | 13.5 (3.5-16.0) | 3.44 (0.7-4.41) | 3.92 |
| | 7 | 12 | 12 | 12 | 12 | - | 1.70 | 2.95 | 2.95 | 2.95 | 2.95 | - | 13.5 (3.5-16.0) | 3.46 (0.7-4.41) | 3.90 |
| | 7 | 12 | 12 | 12 | 14 | - | 1.66 | 2.84 | 2.84 | 2.84 | 3.32 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 7 | 12 | 12 | 12 | 18 | - | 1.55 | 2.66 | 2.66 | 2.66 | 3.97 | - | 13.5 (3.5-16.0) | 3.44 (0.7-4.41) | 3.92 |
| | 7 | 12 | 12 | 14 | 14 | - | 1.60 | 2.75 | 2.75 | 3.20 | 3.20 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 7 | 12 | 14 | 14 | 14 | - | 1.55 | 2.65 | 3.10 | 3.10 | 3.10 | - | 13.5 (3.5-16.0) | 3.44 (0.7-4.41) | 3.92 |
| | 9 | 9 | 9 | 9 | 9 | - | 2.70 | 2.70 | 2.70 | 2.70 | 2.70 | - | 13.5 (3.5-16.0) | 3.49 (0.7-4.41) | 3.87 |
| | 9 | 9 | 9 | 9 | 12 | - | 2.53 | 2.53 | 2.53 | 2.53 | 3.38 | - | 13.5 (3.5-16.0) | 3.48 (0.7-4.41) | 3.88 |
| | 9 | 9 | 9 | 9 | 14 | - | 2.43 | 2.43 | 2.43 | 2.43 | 3.78 | - | 13.5 (3.5-16.0) | 3.48 (0.7-4.41) | 3.88 |
| | 9 | 9 | 9 | 9 | 18 | - | 2.25 | 2.25 | 2.25 | 2.25 | 4.50 | - | 13.5 (3.5-16.0) | 3.46 (0.7-4.41) | 3.90 |
| | 9 | 9 | 9 | 9 | 24 | - | 2.03 | 2.03 | 2.03 | 2.03 | 5.38 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 9 | 9 | 9 | 12 | 12 | - | 2.38 | 2.38 | 2.38 | 3.18 | 3.18 | - | 13.5 (3.5-16.0) | 3.47 (0.7-4.41) | 3.89 |
| | 9 | 9 | 9 | 12 | 14 | - | 2.29 | 2.29 | 2.29 | 3.06 | 3.57 | - | 13.5 (3.5-16.0) | 3.47 (0.7-4.41) | 3.89 |
| | 9 | 9 | 9 | 12 | 18 | - | 2.13 | 2.13 | 2.13 | 2.84 | 4.27 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 9 | 9 | 9 | 14 | 14 | - | 2.21 | 2.21 | 2.21 | 3.44 | 3.44 | - | 13.5 (3.5-16.0) | 3.46 (0.7-4.41) | 3.90 |
| | 9 | 9 | 9 | 14 | 18 | - | 2.06 | 2.06 | 2.06 | 3.20 | 4.12 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 9 | 9 | 12 | 12 | 12 | - | 2.25 | 2.25 | 3.00 | 3.00 | 3.00 | - | 13.5 (3.5-16.0) | 3.46 (0.7-4.41) | 3.90 |
| | 9 | 9 | 12 | 12 | 14 | - | 2.17 | 2.17 | 2.89 | 2.89 | 3.38 | - | 13.5 (3.5-16.0) | 3.46 (0.7-4.41) | 3.90 |
| | 9 | 9 | 12 | 12 | 18 | - | 2.03 | 2.03 | 2.70 | 2.70 | 4.04 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 9 | 9 | 12 | 14 | 14 | - | 2.09 | 2.09 | 2.80 | 3.26 | 3.26 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 9 | 9 | 12 | 14 | 18 | - | 1.96 | 1.96 | 2.61 | 3.05 | 3.92 | - | 13.5 (3.5-16.0) | 3.44 (0.7-4.41) | 3.92 |
| | 9 | 9 | 14 | 14 | 14 | - | 2.03 | 2.03 | 3.15 | 3.15 | 3.15 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 9 | 12 | 12 | 12 | 12 | - | 2.14 | 2.84 | 2.84 | 2.84 | 2.84 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 9 | 12 | 12 | 12 | 14 | - | 2.06 | 2.75 | 2.75 | 2.75 | 3.19 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 9 | 12 | 12 | 14 | 14 | - | 1.98 | 2.66 | 2.66 | 3.10 | 3.10 | - | 13.5 (3.5-16.0) | 3.44 (0.7-4.41) | 3.92 |
| | 12 | 12 | 12 | 12 | 12 | - | 2.70 | 2.70 | 2.70 | 2.70 | 2.70 | - | 13.5 (3.5-16.0) | 3.45 (0.7-4.41) | 3.91 |
| | 12 | 12 | 12 | 12 | 14 | - | 2.61 | 2.61 | 2.61 | 2.61 | 3.06 | - | 13.5 (3.5-16.0) | 3.44 (0.7-4.41) | 3.92 |

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected indoor unit is up to 54000Btu from 27000Btu.



## 6 Rooms Multi heating

| AOYG45LBLA6 | Combination of Indoor Unit | | | | | | HEATING OPERATION | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | Heating Capacity | | | | | | | Input Power (min-max) | COP |
| | | | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Room 6 | Total Capacity (min-max) | | |
| | | | | | | | kW | kW | kW | kW | kW | kW | kW | kW | |
| 6 Room | 7 | 7 | 7 | 7 | 7 | 7 | 2.20 | 2.20 | 2.20 | 2.20 | 2.20 | 2.20 | 13.2 (3.5-15.3) | 3.28 (0.7-4.20) | 4.02 |
| | 7 | 7 | 7 | 7 | 7 | 9 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.75 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 7 | 7 | 12 | 2.01 | 2.01 | 2.01 | 2.01 | 2.01 | 3.45 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 7 | 7 | 14 | 1.93 | 1.93 | 1.93 | 1.93 | 1.93 | 3.85 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 7 | 7 | 18 | 1.78 | 1.78 | 1.78 | 1.78 | 1.78 | 4.60 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 7 | 7 | 24 | 1.60 | 1.60 | 1.60 | 1.60 | 1.60 | 5.50 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 7 | 9 | 9 | 2.05 | 2.05 | 2.05 | 2.05 | 2.65 | 2.65 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 7 | 9 | 12 | 1.93 | 1.93 | 1.93 | 1.93 | 2.48 | 3.30 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 7 | 9 | 14 | 1.85 | 1.85 | 1.85 | 1.85 | 2.38 | 3.72 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 7 | 9 | 18 | 1.72 | 1.72 | 1.72 | 1.72 | 2.21 | 4.41 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 7 | 9 | 24 | 1.55 | 1.55 | 1.55 | 1.55 | 1.99 | 5.31 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 7 | 12 | 12 | 1.82 | 1.82 | 1.82 | 1.82 | 3.11 | 3.11 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 7 | 12 | 14 | 1.75 | 1.75 | 1.75 | 1.75 | 3.00 | 3.50 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 7 | 12 | 18 | 1.63 | 1.63 | 1.63 | 1.63 | 2.79 | 4.19 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 7 | 14 | 14 | 1.69 | 1.69 | 1.69 | 1.69 | 3.37 | 3.37 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 7 | 14 | 18 | 1.58 | 1.58 | 1.58 | 1.58 | 3.15 | 4.03 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 9 | 9 | 9 | 1.97 | 1.97 | 1.97 | 2.53 | 2.53 | 2.53 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 9 | 9 | 12 | 1.85 | 1.85 | 1.85 | 2.38 | 2.38 | 3.19 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 9 | 9 | 14 | 1.78 | 1.78 | 1.78 | 2.29 | 2.29 | 3.58 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 9 | 9 | 18 | 1.66 | 1.66 | 1.66 | 2.13 | 2.13 | 4.26 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 9 | 12 | 12 | 1.75 | 1.75 | 1.75 | 2.25 | 3.00 | 3.00 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 9 | 12 | 14 | 1.69 | 1.69 | 1.69 | 2.17 | 2.89 | 3.37 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 9 | 12 | 18 | 1.58 | 1.58 | 1.58 | 2.03 | 2.70 | 4.03 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 9 | 14 | 14 | 1.63 | 1.63 | 1.63 | 2.09 | 3.26 | 3.26 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 12 | 12 | 12 | 1.66 | 1.66 | 1.66 | 2.84 | 2.84 | 2.84 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 12 | 12 | 14 | 1.60 | 1.60 | 1.60 | 2.75 | 2.75 | 3.20 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 7 | 12 | 14 | 14 | 1.55 | 1.55 | 1.55 | 2.65 | 3.10 | 3.10 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 9 | 9 | 9 | 9 | 1.89 | 1.89 | 2.43 | 2.43 | 2.43 | 2.43 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 9 | 9 | 9 | 12 | 1.78 | 1.78 | 2.29 | 2.29 | 2.29 | 3.07 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 9 | 9 | 9 | 14 | 1.72 | 1.72 | 2.21 | 2.21 | 2.21 | 3.43 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 9 | 9 | 9 | 18 | 1.60 | 1.60 | 2.06 | 2.06 | 2.06 | 4.12 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 9 | 9 | 12 | 12 | 1.69 | 1.69 | 2.17 | 2.17 | 2.89 | 2.89 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 9 | 9 | 12 | 14 | 1.63 | 1.63 | 2.09 | 2.09 | 2.79 | 3.27 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 9 | 9 | 12 | 18 | 1.52 | 1.52 | 1.96 | 1.96 | 2.61 | 3.93 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 9 | 9 | 14 | 14 | 1.58 | 1.58 | 2.03 | 2.03 | 3.14 | 3.14 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 9 | 12 | 12 | 12 | 1.60 | 1.60 | 2.05 | 2.75 | 2.75 | 2.75 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 9 | 12 | 12 | 14 | 1.55 | 1.55 | 1.99 | 2.66 | 2.66 | 3.09 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 7 | 12 | 12 | 12 | 12 | 1.53 | 1.53 | 2.61 | 2.61 | 2.61 | 2.61 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 9 | 9 | 9 | 9 | 9 | 1.80 | 2.34 | 2.34 | 2.34 | 2.34 | 2.34 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 9 | 9 | 9 | 9 | 12 | 1.72 | 2.21 | 2.21 | 2.21 | 2.21 | 2.94 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 9 | 9 | 9 | 9 | 14 | 1.66 | 2.13 | 2.13 | 2.13 | 2.13 | 3.32 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 9 | 9 | 9 | 12 | 12 | 1.65 | 2.09 | 2.09 | 2.09 | 2.79 | 2.79 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 9 | 9 | 9 | 12 | 14 | 1.58 | 2.03 | 2.03 | 2.03 | 2.69 | 3.14 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 7 | 9 | 9 | 12 | 12 | 12 | 1.54 | 1.99 | 1.99 | 2.66 | 2.66 | 2.66 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 9 | 9 | 9 | 9 | 9 | 9 | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 9 | 9 | 9 | 9 | 9 | 12 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.85 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |
| | 9 | 9 | 9 | 9 | 12 | 12 | 2.03 | 2.03 | 2.03 | 2.03 | 2.69 | 2.69 | 13.5 (3.5-16.0) | 3.37 (0.7-4.41) | 4.00 |

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected indoor unit is up to 54000Btu from 27000Btu.

REFRIGERANT R410A

# **8 Rooms** Multi Combination Table-Cooling

## 8 Rooms Multi cooling

| AOYG45LBT8 | Combination of Indoor Unit | | | | | | | | COOLING OPERATION | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Cooling Capacity | | | | | | | | | Input power |
| | | | | | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Room 6 | Room 7 | Room 8 | Total | |
| | | | | | | | | | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 2 Room | 24 | 24 | - | - | - | - | - | - | 7.03 | 7.03 | - | - | - | - | - | - | 14.06 | 5.20 |
| | 18 | 24 | - | - | - | - | - | - | 5.27 | 7.03 | - | - | - | - | - | - | 12.30 | 4.24 |
| 3 Room | 18 | 18 | 24 | - | - | - | - | - | 4.63 | 4.63 | 6.18 | - | - | - | - | - | 15.45 | 5.89 |
| | 18 | 18 | 18 | - | - | - | - | - | 5.01 | 5.01 | 5.01 | - | - | - | - | - | 15.03 | 5.90 |
| | 14 | 24 | 24 | - | - | - | - | - | 3.54 | 6.07 | 6.07 | - | - | - | - | - | 15.68 | 5.87 |
| | 14 | 18 | 24 | - | - | - | - | - | 3.84 | 4.94 | 6.59 | - | - | - | - | - | 15.37 | 5.90 |
| | 14 | 18 | 18 | - | - | - | - | - | 4.10 | 5.27 | 5.27 | - | - | - | - | - | 14.64 | 5.50 |
| | 14 | 14 | 24 | - | - | - | - | - | 4.10 | 4.10 | 7.03 | - | - | - | - | - | 15.23 | 5.79 |
| | 14 | 14 | 18 | - | - | - | - | - | 4.10 | 4.10 | 5.27 | - | - | - | - | - | 13.47 | 4.89 |
| | 14*1 | 14*1 | 14*1 | - | - | - | - | - | 4.10 | 4.10 | 4.10 | - | - | - | - | - | 12.30 | 4.24 |
| | 12 | 24 | 24 | - | - | - | - | - | 3.09 | 6.18 | 6.18 | - | - | - | - | - | 15.45 | 5.89 |
| | 12 | 18 | 24 | - | - | - | - | - | 3.35 | 5.01 | 6.68 | - | - | - | - | - | 15.04 | 5.90 |
| | 12 | 18 | 18 | - | - | - | - | - | 3.52 | 5.27 | 5.27 | - | - | - | - | - | 14.06 | 5.20 |
| | 12 | 14 | 24 | - | - | - | - | - | 3.52 | 4.10 | 7.03 | - | - | - | - | - | 14.65 | 5.50 |
| | 12 | 14 | 18 | - | - | - | - | - | 3.52 | 4.10 | 5.27 | - | - | - | - | - | 12.89 | 4.57 |
| | 12*1 | 14*1 | 14*1 | - | - | - | - | - | 3.52 | 4.10 | 4.10 | - | - | - | - | - | 11.72 | 3.91 |
| | 12 | 12 | 24 | - | - | - | - | - | 3.52 | 3.52 | 7.03 | - | - | - | - | - | 14.07 | 5.20 |
| | 12 | 12 | 18 | - | - | - | - | - | 3.52 | 3.52 | 5.27 | - | - | - | - | - | 12.31 | 4.24 |
| | 9 | 24 | 24 | - | - | - | - | - | 2.46 | 6.54 | 6.54 | - | - | - | - | - | 15.54 | 5.90 |
| | 9 | 18 | 24 | - | - | - | - | - | 2.64 | 5.27 | 7.03 | - | - | - | - | - | 14.94 | 5.65 |
| | 9 | 18 | 18 | - | - | - | - | - | 2.64 | 5.27 | 5.27 | - | - | - | - | - | 13.18 | 4.73 |
| | 9 | 14 | 24 | - | - | - | - | - | 2.64 | 4.10 | 7.03 | - | - | - | - | - | 13.77 | 5.05 |
| | 9 | 14 | 18 | - | - | - | - | - | 2.64 | 4.10 | 5.27 | - | - | - | - | - | 12.01 | 4.08 |
| | 9 | 12 | 24 | - | - | - | - | - | 2.64 | 3.52 | 7.03 | - | - | - | - | - | 13.19 | 4.73 |
| | 9 | 12 | 18 | - | - | - | - | - | 2.64 | 3.52 | 5.27 | - | - | - | - | - | 11.43 | 3.74 |
| | 9 | 9 | 24 | - | - | - | - | - | 2.64 | 2.64 | 7.03 | - | - | - | - | - | 12.31 | 4.24 |
| | 7 | 24 | 24 | - | - | - | - | - | 1.93 | 6.64 | 6.64 | - | - | - | - | - | 15.21 | 5.90 |
| | 7 | 18 | 24 | - | - | - | - | - | 2.05 | 5.27 | 7.03 | - | - | - | - | - | 14.35 | 5.35 |
| | 7 | 18 | 18 | - | - | - | - | - | 2.05 | 5.27 | 5.27 | - | - | - | - | - | 12.59 | 4.41 |
| | 7 | 14 | 24 | - | - | - | - | - | 2.05 | 4.10 | 7.03 | - | - | - | - | - | 13.18 | 4.73 |
| | 7 | 14 | 18 | - | - | - | - | - | 2.05 | 4.10 | 5.27 | - | - | - | - | - | 11.42 | 3.74 |
| | 7 | 12 | 24 | - | - | - | - | - | 2.05 | 3.52 | 7.03 | - | - | - | - | - | 12.60 | 4.41 |
| | 7 | 9 | 24 | - | - | - | - | - | 2.05 | 2.64 | 7.03 | - | - | - | - | - | 11.72 | 3.91 |
| 4 Room | 14 | 14 | 14 | 18 | - | - | - | - | 3.60 | 3.60 | 3.60 | 4.63 | - | - | - | - | 15.45 | 5.89 |
| | 14 | 14 | 14 | 14 | - | - | - | - | 3.84 | 3.84 | 3.84 | 3.84 | - | - | - | - | 15.37 | 5.90 |
| | 12 | 14 | 18 | 18 | - | - | - | - | 3.04 | 3.54 | 4.55 | 4.55 | - | - | - | - | 15.68 | 5.87 |
| | 12 | 14 | 14 | 18 | - | - | - | - | 3.15 | 3.67 | 3.67 | 4.72 | - | - | - | - | 15.21 | 5.90 |
| | 12 | 14 | 14 | 14 | - | - | - | - | 3.35 | 3.90 | 3.90 | 3.90 | - | - | - | - | 15.04 | 5.90 |
| | 12 | 12 | 18 | 18 | - | - | - | - | 3.09 | 3.09 | 4.63 | 4.63 | - | - | - | - | 15.45 | 5.89 |
| | 12 | 12 | 14 | 24 | - | - | - | - | 3.04 | 3.04 | 3.54 | 6.07 | - | - | - | - | 15.69 | 5.87 |
| | 12 | 12 | 14 | 18 | - | - | - | - | 3.30 | 3.30 | 3.84 | 4.94 | - | - | - | - | 15.38 | 5.90 |
| | 12 | 12 | 14 | 14 | - | - | - | - | 3.52 | 3.52 | 4.10 | 4.10 | - | - | - | - | 15.24 | 5.79 |
| | 12 | 12 | 12 | 24 | - | - | - | - | 3.09 | 3.09 | 6.18 | 6.18 | - | - | - | - | 15.45 | 5.89 |
| | 12 | 12 | 12 | 18 | - | - | - | - | 3.35 | 3.35 | 5.01 | 5.01 | - | - | - | - | 15.05 | 5.90 |
| | 12 | 12 | 12 | 14 | - | - | - | - | 3.52 | 3.52 | 3.52 | 4.10 | - | - | - | - | 14.66 | 5.50 |
| | 12 | 12 | 12 | 12 | - | - | - | - | 3.52 | 3.52 | 3.52 | 3.52 | - | - | - | - | 14.08 | 5.20 |
| | 9 | 14 | 18 | 18 | - | - | - | - | 2.34 | 3.64 | 4.67 | 4.67 | - | - | - | - | 15.33 | 5.89 |
| | 9 | 14 | 14 | 24 | - | - | - | - | 2.30 | 3.57 | 3.57 | 6.12 | - | - | - | - | 15.57 | 5.88 |
| | 9 | 14 | 14 | 18 | - | - | - | - | 2.49 | 3.87 | 3.87 | 4.97 | - | - | - | - | 15.21 | 5.90 |
| | 9 | 14 | 14 | 14 | - | - | - | - | 2.64 | 4.10 | 4.10 | 4.10 | - | - | - | - | 14.94 | 5.65 |
| | 9 | 12 | 18 | 18 | - | - | - | - | 2.46 | 3.28 | 4.90 | 4.90 | - | - | - | - | 15.54 | 5.90 |
| | 9 | 12 | 14 | 24 | - | - | - | - | 2.34 | 3.12 | 3.64 | 6.23 | - | - | - | - | 15.33 | 5.89 |
| | 9 | 12 | 14 | 18 | - | - | - | - | 2.53 | 3.37 | 3.93 | 5.05 | - | - | - | - | 14.87 | 5.90 |
| | 9 | 12 | 14 | 14 | - | - | - | - | 2.64 | 3.52 | 4.10 | 4.10 | - | - | - | - | 14.36 | 5.35 |
| | 9 | 12 | 12 | 24 | - | - | - | - | 2.46 | 3.28 | 3.28 | 6.56 | - | - | - | - | 15.55 | 5.90 |
| | 9 | 12 | 12 | 18 | - | - | - | - | 2.64 | 3.52 | 3.52 | 5.27 | - | - | - | - | 14.95 | 5.65 |
| | 9 | 12 | 12 | 14 | - | - | - | - | 2.64 | 3.52 | 3.52 | 4.10 | - | - | - | - | 13.78 | 5.05 |
| | 9 | 12 | 12 | 12 | - | - | - | - | 2.64 | 3.52 | 3.52 | 3.52 | - | - | - | - | 13.20 | 4.73 |
| | 9 | 9 | 18 | 24 | - | - | - | - | 2.32 | 2.32 | 4.63 | 6.18 | - | - | - | - | 15.45 | 5.89 |
| | 9 | 9 | 18 | 18 | - | - | - | - | 2.51 | 2.51 | 5.01 | 5.01 | - | - | - | - | 15.04 | 5.90 |
| | 9 | 9 | 14 | 24 | - | - | - | - | 2.47 | 2.47 | 3.84 | 6.59 | - | - | - | - | 15.38 | 5.90 |
| | 9 | 9 | 14 | 18 | - | - | - | - | 2.64 | 2.64 | 4.10 | 5.27 | - | - | - | - | 14.65 | 5.50 |
| | 9 | 9 | 14 | 14 | - | - | - | - | 2.64 | 2.64 | 4.10 | 4.10 | - | - | - | - | 13.48 | 4.89 |
| | 9 | 9 | 12 | 24 | - | - | - | - | 2.51 | 2.51 | 3.35 | 6.68 | - | - | - | - | 15.05 | 5.90 |
| | 9 | 9 | 12 | 18 | - | - | - | - | 2.64 | 2.64 | 3.52 | 5.27 | - | - | - | - | 14.07 | 5.20 |
| | 9 | 9 | 12 | 14 | - | - | - | - | 2.64 | 2.64 | 3.52 | 4.10 | - | - | - | - | 12.90 | 4.57 |
| | 9 | 9 | 12 | 12 | - | - | - | - | 2.64 | 2.64 | 3.52 | 3.52 | - | - | - | - | 12.32 | 4.24 |
| | 9 | 9 | 9 | 24 | - | - | - | - | 2.64 | 2.64 | 2.64 | 7.03 | - | - | - | - | 14.95 | 5.65 |
| | 9 | 9 | 9 | 18 | - | - | - | - | 2.64 | 2.64 | 2.64 | 5.27 | - | - | - | - | 13.19 | 4.73 |
| | 9 | 9 | 9 | 14 | - | - | - | - | 2.64 | 2.64 | 2.64 | 4.10 | - | - | - | - | 12.02 | 4.08 |
| | 9 | 9 | 9 | 12 | - | - | - | - | 2.64 | 2.64 | 2.64 | 3.52 | - | - | - | - | 11.44 | 3.74 |
| | 7 | 18 | 18 | 18 | - | - | - | - | 1.79 | 4.59 | 4.59 | 4.59 | - | - | - | - | 15.56 | 5.88 |
| | 7 | 14 | 18 | 18 | - | - | - | - | 1.91 | 3.82 | 4.91 | 4.91 | - | - | - | - | 15.54 | 5.90 |
| | 7 | 14 | 14 | 24 | - | - | - | - | 1.82 | 3.64 | 3.64 | 6.24 | - | - | - | - | 15.33 | 5.89 |
| | 7 | 14 | 14 | 18 | - | - | - | - | 1.96 | 3.93 | 3.93 | 5.05 | - | - | - | - | 14.87 | 5.90 |
| | 7 | 14 | 14 | 14 | - | - | - | - | 2.05 | 4.10 | 4.10 | 4.10 | - | - | - | - | 14.35 | 5.35 |
| | 7 | 12 | 18 | 24 | - | - | - | - | 1.79 | 3.07 | 4.59 | 6.12 | - | - | - | - | 15.57 | 5.88 |
| | 7 | 12 | 18 | 18 | - | - | - | - | 1.93 | 3.32 | 4.97 | 4.97 | - | - | - | - | 15.21 | 5.90 |
| | 7 | 12 | 14 | 24 | - | - | - | - | 1.91 | 3.28 | 3.82 | 6.54 | - | - | - | - | 15.54 | 5.90 |
| | 7 | 12 | 14 | 18 | - | - | - | - | 2.05 | 3.52 | 4.10 | 5.27 | - | - | - | - | 14.94 | 5.65 |
| | 7 | 12 | 14 | 14 | - | - | - | - | 2.05 | 3.52 | 4.10 | 4.10 | - | - | - | - | 13.77 | 5.05 |
| | 7 | 12 | 12 | 24 | - | - | - | - | 1.93 | 3.32 | 3.32 | 6.63 | - | - | - | - | 15.21 | 5.90 |
| | 7 | 12 | 12 | 18 | - | - | - | - | 2.05 | 3.52 | 3.52 | 5.27 | - | - | - | - | 14.36 | 5.35 |
| | 7 | 12 | 12 | 14 | - | - | - | - | 2.05 | 3.52 | 3.52 | 4.10 | - | - | - | - | 13.19 | 4.73 |
| | 7 | 12 | 12 | 12 | - | - | - | - | 2.05 | 3.52 | 3.52 | 3.52 | - | - | - | - | 12.61 | 4.41 |
| | 7 | 9 | 18 | 24 | - | - | - | - | 1.84 | 2.36 | 4.72 | 6.29 | - | - | - | - | 15.21 | 5.90 |
| | 7 | 9 | 18 | 18 | - | - | - | - | 2.05 | 2.64 | 5.27 | 5.27 | - | - | - | - | 15.23 | 5.79 |
| | 7 | 9 | 14 | 24 | - | - | - | - | 1.95 | 2.51 | 3.90 | 6.68 | - | - | - | - | 15.04 | 5.90 |
| | 7 | 9 | 14 | 18 | - | - | - | - | 2.05 | 2.64 | 4.10 | 5.27 | - | - | - | - | 14.06 | 5.20 |
| | 7 | 9 | 12 | 24 | - | - | - | - | 2.05 | 2.64 | 3.52 | 7.03 | - | - | - | - | 15.24 | 5.79 |
| | 7 | 9 | 12 | 18 | - | - | - | - | 2.05 | 2.64 | 3.52 | 5.27 | - | - | - | - | 13.48 | 4.89 |
| | 7 | 9 | 12 | 14 | - | - | - | - | 2.05 | 2.64 | 3.52 | 4.10 | - | - | - | - | 12.31 | 4.24 |
| | 7 | 9 | 12 | 12 | - | - | - | - | 2.05 | 2.64 | 3.52 | 3.52 | - | - | - | - | 11.73 | 3.91 |
| | 7 | 9 | 9 | 24 | - | - | - | - | 2.05 | 2.64 | 2.64 | 7.03 | - | - | - | - | 14.36 | 5.35 |
| | 7 | 9 | 9 | 18 | - | - | - | - | 2.05 | 2.64 | 2.64 | 5.27 | - | - | - | - | 12.60 | 4.41 |
| | 7 | 9 | 9 | 14 | - | - | - | - | 2.05 | 2.64 | 2.64 | 4.10 | - | - | - | - | 11.43 | 3.74 |
| | 7 | 7 | 24 | 24 | - | - | - | - | 1.77 | 1.77 | 6.07 | 6.07 | - | - | - | - | 15.68 | 5.87 |
| | 7 | 7 | 18 | 24 | - | - | - | - | 1.92 | 1.92 | 4.94 | 6.59 | - | - | - | - | 15.37 | 5.90 |
| | 7 | 7 | 18 | 18 | - | - | - | - | 2.05 | 2.05 | 5.27 | 5.27 | - | - | - | - | 14.64 | 5.50 |
| | 7 | 7 | 14 | 24 | - | - | - | - | 2.05 | 2.05 | 4.10 | 7.03 | - | - | - | - | 15.23 | 5.79 |

Note: •Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature)
•Pipe Length: 5 m (Outdoor unit to Branch box), 3 m (Branch box to Indoor unit)
•Height difference: 0 m (Outdoor unit to Indoor unit)
•The values in this table should be used only as a guide. These values are calculated at standard conditions.
To fix your selection of models, select them according to "Model Selection" in the D&T manual.
*1: LMC type is not available for this combination.

## 8 Rooms Multi cooling

| AOYG45LBT8 | Combination of Indoor Unit | | | | | | | | COOLING OPERATION | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Cooling Capacity | | | | | | | | | Input power |
| | | | | | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Room 6 | Room 7 | Room 8 | Total | |
| | | | | | | | | | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 4 Room | 7 | 7 | 14 | 18 | - | - | - | - | 2.05 | 2.05 | 4.10 | 5.27 | - | - | - | - | 13.47 | 4.89 |
| | 7 | 7 | 14 | 14 | - | - | - | - | 2.05 | 2.05 | 4.10 | 4.10 | - | - | - | - | 12.30 | 4.24 |
| | 7 | 7 | 12 | 24 | - | - | - | - | 2.05 | 2.05 | 3.52 | 7.03 | - | - | - | - | 14.65 | 5.50 |
| | 7 | 7 | 12 | 18 | - | - | - | - | 2.05 | 2.05 | 3.52 | 5.27 | - | - | - | - | 12.89 | 4.57 |
| | 7 | 7 | 12 | 14 | - | - | - | - | 2.05 | 2.05 | 3.52 | 4.10 | - | - | - | - | 11.72 | 3.91 |
| | 7 | 7 | 9 | 24 | - | - | - | - | 2.05 | 2.05 | 2.64 | 7.03 | - | - | - | - | 13.77 | 5.05 |
| | 7 | 7 | 9 | 18 | - | - | - | - | 2.05 | 2.05 | 2.64 | 5.27 | - | - | - | - | 12.01 | 4.08 |
| | 7 | 7 | 7 | 24 | - | - | - | - | 2.05 | 2.05 | 2.05 | 7.03 | - | - | - | - | 13.18 | 4.73 |
| | 7 | 7 | 7 | 18 | - | - | - | - | 2.05 | 2.05 | 2.05 | 5.27 | - | - | - | - | 11.42 | 3.74 |
| 5 Room | 12 | 12 | 12 | 12 | 14 | - | - | - | 3.04 | 3.04 | 3.04 | 3.04 | 3.54 | - | - | - | 15.69 | 5.87 |
| | 12 | 12 | 12 | 12 | 12 | - | - | - | 3.09 | 3.09 | 3.09 | 3.09 | 3.09 | - | - | - | 15.46 | 5.89 |
| | 9 | 12 | 12 | 14 | 14 | - | - | - | 2.30 | 3.07 | 3.07 | 3.57 | 3.57 | - | - | - | 15.57 | 5.88 |
| | 9 | 12 | 12 | 12 | 14 | - | - | - | 2.34 | 3.12 | 3.12 | 3.12 | 3.63 | - | - | - | 15.34 | 5.89 |
| | 9 | 12 | 12 | 12 | 12 | - | - | - | 2.46 | 3.27 | 3.27 | 3.27 | 3.27 | - | - | - | 15.55 | 5.90 |
| | 9 | 9 | 14 | 14 | 14 | - | - | - | 2.32 | 2.32 | 3.60 | 3.60 | 3.60 | - | - | - | 15.45 | 5.89 |
| | 9 | 9 | 12 | 14 | 18 | - | - | - | 2.28 | 2.28 | 3.04 | 3.54 | 4.55 | - | - | - | 15.69 | 5.87 |
| | 9 | 9 | 12 | 14 | 14 | - | - | - | 2.36 | 2.36 | 3.15 | 3.67 | 3.67 | - | - | - | 15.21 | 5.90 |
| | 9 | 9 | 12 | 12 | 18 | - | - | - | 2.32 | 2.32 | 3.09 | 3.09 | 4.63 | - | - | - | 15.45 | 5.89 |
| | 9 | 9 | 12 | 12 | 14 | - | - | - | 2.47 | 2.47 | 3.30 | 3.30 | 3.84 | - | - | - | 15.38 | 5.90 |
| | 9 | 9 | 12 | 12 | 12 | - | - | - | 2.51 | 2.51 | 3.34 | 3.34 | 3.34 | - | - | - | 15.05 | 5.90 |
| | 9 | 9 | 9 | 14 | 18 | - | - | - | 2.34 | 2.34 | 2.34 | 3.64 | 4.67 | - | - | - | 15.33 | 5.89 |
| | 9 | 9 | 9 | 14 | 14 | - | - | - | 2.49 | 2.49 | 2.49 | 3.87 | 3.87 | - | - | - | 15.21 | 5.90 |
| | 9 | 9 | 9 | 12 | 18 | - | - | - | 2.46 | 2.46 | 2.46 | 3.28 | 4.90 | - | - | - | 15.55 | 5.90 |
| | 9 | 9 | 9 | 12 | 14 | - | - | - | 2.53 | 2.53 | 2.53 | 3.37 | 3.93 | - | - | - | 14.88 | 5.90 |
| | 9 | 9 | 9 | 12 | 12 | - | - | - | 2.64 | 2.64 | 2.64 | 3.52 | 3.52 | - | - | - | 14.96 | 5.65 |
| | 9 | 9 | 9 | 9 | 24 | - | - | - | 2.32 | 2.32 | 2.32 | 2.32 | 6.18 | - | - | - | 15.45 | 5.89 |
| | 9 | 9 | 9 | 9 | 18 | - | - | - | 2.51 | 2.51 | 2.51 | 2.51 | 5.01 | - | - | - | 15.05 | 5.90 |
| | 9 | 9 | 9 | 9 | 14 | - | - | - | 2.64 | 2.64 | 2.64 | 2.64 | 4.10 | - | - | - | 14.66 | 5.50 |
| | 9 | 9 | 9 | 9 | 12 | - | - | - | 2.64 | 2.64 | 2.64 | 2.64 | 3.52 | - | - | - | 14.08 | 5.20 |
| | 9 | 9 | 9 | 9 | 9 | - | - | - | 2.64 | 2.64 | 2.64 | 2.64 | 2.64 | - | - | - | 13.20 | 4.73 |
| | 7 | 12 | 14 | 14 | 14 | - | - | - | 1.79 | 3.07 | 3.57 | 3.57 | 3.57 | - | - | - | 15.57 | 5.88 |
| | 7 | 12 | 12 | 14 | 14 | - | - | - | 1.82 | 3.12 | 3.12 | 3.64 | 3.64 | - | - | - | 15.33 | 5.89 |
| | 7 | 12 | 12 | 12 | 18 | - | - | - | 1.79 | 3.07 | 3.07 | 3.07 | 4.59 | - | - | - | 15.57 | 5.88 |
| | 7 | 12 | 12 | 12 | 14 | - | - | - | 1.91 | 3.28 | 3.28 | 3.28 | 3.82 | - | - | - | 15.55 | 5.90 |
| | 7 | 12 | 12 | 12 | 12 | - | - | - | 1.93 | 3.32 | 3.32 | 3.32 | 3.32 | - | - | - | 15.22 | 5.90 |
| | 7 | 9 | 14 | 14 | 18 | - | - | - | 1.77 | 2.28 | 3.54 | 3.54 | 4.55 | - | - | - | 15.68 | 5.87 |
| | 7 | 9 | 14 | 14 | 14 | - | - | - | 1.84 | 2.36 | 3.67 | 3.67 | 3.67 | - | - | - | 15.21 | 5.90 |
| | 7 | 9 | 12 | 14 | 18 | - | - | - | 1.80 | 2.32 | 3.09 | 3.60 | 4.63 | - | - | - | 15.45 | 5.89 |
| | 7 | 9 | 12 | 14 | 14 | - | - | - | 1.92 | 2.47 | 3.30 | 3.84 | 3.84 | - | - | - | 15.38 | 5.90 |
| | 7 | 9 | 12 | 12 | 18 | - | - | - | 1.83 | 2.36 | 3.15 | 3.15 | 4.72 | - | - | - | 15.21 | 5.90 |
| | 7 | 9 | 12 | 12 | 14 | - | - | - | 1.95 | 2.51 | 3.35 | 3.35 | 3.90 | - | - | - | 15.05 | 5.90 |
| | 7 | 9 | 12 | 12 | 12 | - | - | - | 2.05 | 2.64 | 3.52 | 3.52 | 3.52 | - | - | - | 15.25 | 5.79 |
| | 7 | 9 | 9 | 18 | 18 | - | - | - | 1.79 | 2.30 | 2.30 | 4.59 | 4.59 | - | - | - | 15.57 | 5.88 |
| | 7 | 9 | 9 | 14 | 18 | - | - | - | 1.91 | 2.46 | 2.46 | 3.82 | 4.90 | - | - | - | 15.54 | 5.90 |
| | 7 | 9 | 9 | 14 | 14 | - | - | - | 1.96 | 2.53 | 2.53 | 3.93 | 3.93 | - | - | - | 14.87 | 5.90 |
| | 7 | 9 | 9 | 12 | 24 | - | - | - | 1.79 | 2.30 | 2.30 | 3.07 | 6.12 | - | - | - | 15.57 | 5.88 |
| | 7 | 9 | 9 | 12 | 18 | - | - | - | 1.93 | 2.49 | 2.49 | 3.32 | 4.97 | - | - | - | 15.21 | 5.90 |
| | 7 | 9 | 9 | 12 | 14 | - | - | - | 2.05 | 2.64 | 2.64 | 3.52 | 4.10 | - | - | - | 14.95 | 5.65 |
| | 7 | 9 | 9 | 12 | 12 | - | - | - | 2.05 | 2.64 | 2.64 | 3.52 | 3.52 | - | - | - | 14.37 | 5.35 |
| | 7 | 9 | 9 | 9 | 24 | - | - | - | 1.83 | 2.36 | 2.36 | 2.36 | 6.29 | - | - | - | 15.21 | 5.90 |
| | 7 | 9 | 9 | 9 | 18 | - | - | - | 2.05 | 2.64 | 2.64 | 2.64 | 5.27 | - | - | - | 15.24 | 5.79 |
| | 7 | 9 | 9 | 9 | 14 | - | - | - | 2.05 | 2.64 | 2.64 | 2.64 | 4.10 | - | - | - | 14.07 | 5.20 |
| | 7 | 9 | 9 | 9 | 12 | - | - | - | 2.05 | 2.64 | 2.64 | 2.64 | 3.52 | - | - | - | 13.49 | 4.89 |
| | 7 | 9 | 9 | 9 | 9 | - | - | - | 2.05 | 2.64 | 2.64 | 2.64 | 2.64 | - | - | - | 12.61 | 4.41 |
| | 7 | 7 | 14 | 14 | 18 | - | - | - | 1.80 | 1.80 | 3.60 | 3.60 | 4.63 | - | - | - | 15.45 | 5.89 |
| | 7 | 7 | 14 | 14 | 14 | - | - | - | 1.92 | 1.92 | 3.84 | 3.84 | 3.84 | - | - | - | 15.37 | 5.90 |
| | 7 | 7 | 12 | 18 | 18 | - | - | - | 1.77 | 1.77 | 3.04 | 4.55 | 4.55 | - | - | - | 15.68 | 5.87 |
| | 7 | 7 | 12 | 14 | 18 | - | - | - | 1.84 | 1.84 | 3.15 | 3.67 | 4.72 | - | - | - | 15.21 | 5.90 |
| | 7 | 7 | 12 | 14 | 14 | - | - | - | 1.95 | 1.95 | 3.35 | 3.90 | 3.90 | - | - | - | 15.04 | 5.90 |
| | 7 | 7 | 12 | 12 | 24 | - | - | - | 1.77 | 1.77 | 3.04 | 3.04 | 6.07 | - | - | - | 15.69 | 5.87 |
| | 7 | 7 | 12 | 12 | 14 | - | - | - | 2.05 | 2.05 | 3.52 | 3.52 | 4.10 | - | - | - | 15.24 | 5.79 |
| | 7 | 7 | 12 | 12 | 12 | - | - | - | 2.05 | 2.05 | 3.52 | 3.52 | 3.52 | - | - | - | 14.66 | 5.50 |
| | 7 | 7 | 9 | 18 | 18 | - | - | - | 1.82 | 1.82 | 2.34 | 4.67 | 4.67 | - | - | - | 15.33 | 5.89 |
| | 7 | 7 | 9 | 14 | 24 | - | - | - | 1.79 | 1.79 | 2.30 | 3.57 | 6.12 | - | - | - | 15.57 | 5.88 |
| | 7 | 7 | 9 | 14 | 18 | - | - | - | 1.93 | 1.93 | 2.49 | 3.87 | 4.97 | - | - | - | 15.21 | 5.90 |
| | 7 | 7 | 9 | 14 | 14 | - | - | - | 2.05 | 2.05 | 2.64 | 4.10 | 4.10 | - | - | - | 14.94 | 5.65 |
| | 7 | 7 | 9 | 12 | 24 | - | - | - | 1.82 | 1.82 | 2.34 | 3.12 | 6.23 | - | - | - | 15.33 | 5.89 |
| | 7 | 7 | 9 | 12 | 18 | - | - | - | 1.96 | 1.96 | 2.53 | 3.37 | 5.05 | - | - | - | 14.87 | 5.90 |
| | 7 | 7 | 9 | 12 | 14 | - | - | - | 2.05 | 2.05 | 2.64 | 3.52 | 4.10 | - | - | - | 14.36 | 5.35 |
| | 7 | 7 | 9 | 12 | 12 | - | - | - | 2.05 | 2.05 | 2.64 | 3.52 | 3.52 | - | - | - | 13.78 | 5.05 |
| | 7 | 7 | 9 | 9 | 24 | - | - | - | 1.92 | 1.92 | 2.47 | 2.47 | 6.59 | - | - | - | 15.38 | 5.90 |
| | 7 | 7 | 9 | 9 | 18 | - | - | - | 2.05 | 2.05 | 2.64 | 2.64 | 5.27 | - | - | - | 14.65 | 5.50 |
| | 7 | 7 | 9 | 9 | 14 | - | - | - | 2.05 | 2.05 | 2.64 | 2.64 | 4.10 | - | - | - | 13.48 | 4.89 |
| | 7 | 7 | 9 | 9 | 12 | - | - | - | 2.05 | 2.05 | 2.64 | 2.64 | 3.52 | - | - | - | 12.90 | 4.57 |
| | 7 | 7 | 9 | 9 | 9 | - | - | - | 2.05 | 2.05 | 2.64 | 2.64 | 2.64 | - | - | - | 12.02 | 4.08 |
| | 7 | 7 | 7 | 18 | 18 | - | - | - | 1.91 | 1.91 | 1.91 | 4.91 | 4.91 | - | - | - | 15.54 | 5.90 |
| | 7 | 7 | 7 | 14 | 24 | - | - | - | 1.82 | 1.82 | 1.82 | 3.64 | 6.24 | - | - | - | 15.33 | 5.89 |
| | 7 | 7 | 7 | 14 | 18 | - | - | - | 1.96 | 1.96 | 1.96 | 3.93 | 5.05 | - | - | - | 14.87 | 5.90 |
| | 7 | 7 | 7 | 14 | 14 | - | - | - | 2.05 | 2.05 | 2.05 | 4.10 | 4.10 | - | - | - | 14.35 | 5.35 |
| | 7 | 7 | 7 | 12 | 24 | - | - | - | 1.91 | 1.91 | 1.91 | 3.28 | 6.54 | - | - | - | 15.54 | 5.90 |
| | 7 | 7 | 7 | 12 | 18 | - | - | - | 2.05 | 2.05 | 2.05 | 3.52 | 5.27 | - | - | - | 14.94 | 5.65 |
| | 7 | 7 | 7 | 12 | 14 | - | - | - | 2.05 | 2.05 | 2.05 | 3.52 | 4.10 | - | - | - | 13.77 | 5.05 |
| | 7 | 7 | 7 | 12 | 12 | - | - | - | 2.05 | 2.05 | 2.05 | 3.52 | 3.52 | - | - | - | 13.19 | 4.73 |
| | 7 | 7 | 7 | 9 | 24 | - | - | - | 1.95 | 1.95 | 1.95 | 2.51 | 6.68 | - | - | - | 15.04 | 5.90 |
| | 7 | 7 | 7 | 9 | 18 | - | - | - | 2.05 | 2.05 | 2.05 | 2.64 | 5.27 | - | - | - | 14.06 | 5.20 |
| | 7 | 7 | 7 | 9 | 14 | - | - | - | 2.05 | 2.05 | 2.05 | 2.64 | 4.10 | - | - | - | 12.89 | 4.57 |
| | 7 | 7 | 7 | 9 | 12 | - | - | - | 2.05 | 2.05 | 2.05 | 2.64 | 3.52 | - | - | - | 12.31 | 4.24 |
| | 7 | 7 | 7 | 9 | 9 | - | - | - | 2.05 | 2.05 | 2.05 | 2.64 | 2.64 | - | - | - | 11.43 | 3.74 |
| | 7 | 7 | 7 | 7 | 24 | - | - | - | 2.05 | 2.05 | 2.05 | 2.05 | 7.03 | - | - | - | 15.23 | 5.79 |
| | 7 | 7 | 7 | 7 | 18 | - | - | - | 2.05 | 2.05 | 2.05 | 2.05 | 5.27 | - | - | - | 13.47 | 4.89 |
| | 7 | 7 | 7 | 7 | 14 | - | - | - | 2.05 | 2.05 | 2.05 | 2.05 | 4.10 | - | - | - | 12.30 | 4.24 |
| | 7 | 7 | 7 | 7 | 12 | - | - | - | 2.05 | 2.05 | 2.05 | 2.05 | 3.52 | - | - | - | 11.72 | 3.91 |
| 6 Room | 9 | 9 | 9 | 9 | 12 | 14 | - | - | 2.28 | 2.28 | 2.28 | 2.28 | 3.04 | 3.54 | - | - | 15.69 | 5.87 |
| | 9 | 9 | 9 | 9 | 12 | 12 | - | - | 2.32 | 2.32 | 2.32 | 2.32 | 3.09 | 3.09 | - | - | 15.46 | 5.89 |
| | 9 | 9 | 9 | 9 | 9 | 14 | - | - | 2.34 | 2.34 | 2.34 | 2.34 | 3.63 | - | - | - | 15.34 | 5.89 |
| | 9 | 9 | 9 | 9 | 9 | 12 | - | - | 2.46 | 2.46 | 2.46 | 2.46 | 3.27 | - | - | - | 15.55 | 5.90 |
| | 9 | 9 | 9 | 9 | 9 | 9 | - | - | 2.51 | 2.51 | 2.51 | 2.51 | 2.51 | - | - | - | 15.05 | 5.90 |
| | 7 | 9 | 9 | 12 | 12 | 12 | - | - | 1.78 | 2.30 | 2.30 | 3.06 | 3.06 | 3.06 | - | - | 15.57 | 5.88 |
| | 7 | 9 | 9 | 9 | 12 | 14 | - | - | 1.80 | 2.32 | 2.32 | 2.32 | 3.09 | 3.60 | - | - | 15.65 | 5.89 |
| | 7 | 9 | 9 | 9 | 12 | 12 | - | - | 1.83 | 2.36 | 2.36 | 2.36 | 3.15 | 3.15 | - | - | 15.22 | 5.90 |

Note: •Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature)
•Pipe Length: 5 m (Outdoor unit to Branch box), 3 m (Branch box to Indoor unit)
•Height difference: 0 m (Outdoor unit to Indoor unit)
•The values in this table should be used only as a guide. These values are calculated at standard conditions.
To fix your selection of models, select them according to "Model Selection" in the D&T manual.

REFRIGERANT R410A

# **8 Rooms** Multi Combination Table-Cooling/Heating

## 8 Rooms Multi cooling

| AOYG45LBT8 | Combination of Indoor Unit | | | | | | | | COOLING OPERATION | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Cooling Capacity | | | | | | | | | Input power |
| | | | | | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Room 6 | Room 7 | Room 8 | Total | |
| | | | | | | | | | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 6 Room | 7 | 9 | 9 | 9 | 9 | 18 | - | - | 1.79 | 2.30 | 2.30 | 2.30 | 2.30 | 4.59 | - | - | 15.57 | 5.88 |
| | 7 | 9 | 9 | 9 | 9 | 12 | - | - | 1.93 | 2.49 | 2.49 | 2.49 | 2.49 | 3.32 | - | - | 15.22 | 5.90 |
| | 7 | 9 | 9 | 9 | 9 | 9 | - | - | 2.05 | 2.64 | 2.64 | 2.64 | 2.64 | 2.64 | - | - | 15.25 | 5.79 |
| | 7 | 7 | 12 | 12 | 12 | 12 | - | - | 1.77 | 1.77 | 3.04 | 3.04 | 3.04 | 3.04 | - | - | 15.69 | 5.87 |
| | 7 | 7 | 9 | 12 | 12 | 14 | - | - | 1.79 | 1.79 | 2.30 | 3.07 | 3.07 | 3.57 | - | - | 15.57 | 5.88 |
| | 7 | 7 | 9 | 12 | 12 | 12 | - | - | 1.82 | 1.82 | 2.34 | 3.12 | 3.12 | 3.12 | - | - | 15.34 | 5.89 |
| | 7 | 7 | 9 | 9 | 14 | 14 | - | - | 1.80 | 1.80 | 2.32 | 2.32 | 3.60 | 3.60 | - | - | 15.45 | 5.89 |
| | 7 | 7 | 9 | 9 | 12 | 18 | - | - | 1.77 | 1.77 | 2.28 | 2.28 | 3.04 | 4.55 | - | - | 15.69 | 5.87 |
| | 7 | 7 | 9 | 9 | 12 | 14 | - | - | 1.83 | 1.83 | 2.36 | 2.36 | 3.15 | 3.67 | - | - | 15.21 | 5.90 |
| | 7 | 7 | 9 | 9 | 12 | 12 | - | - | 1.92 | 1.92 | 2.47 | 2.47 | 3.30 | 3.30 | - | - | 15.38 | 5.90 |
| | 7 | 7 | 9 | 9 | 9 | 18 | - | - | 1.82 | 1.82 | 2.34 | 2.34 | 2.34 | 4.67 | - | - | 15.33 | 5.89 |
| | 7 | 7 | 9 | 9 | 9 | 14 | - | - | 1.93 | 1.93 | 2.49 | 2.49 | 2.49 | 3.87 | - | - | 15.21 | 5.90 |
| | 7 | 7 | 9 | 9 | 9 | 12 | - | - | 1.96 | 1.96 | 2.53 | 2.53 | 2.53 | 3.37 | - | - | 14.88 | 5.90 |
| | 7 | 7 | 9 | 9 | 9 | 9 | - | - | 2.05 | 2.05 | 2.64 | 2.64 | 2.64 | 2.64 | - | - | 14.66 | 5.50 |
| | 7 | 7 | 7 | 12 | 14 | 14 | - | - | 1.79 | 1.79 | 1.79 | 3.07 | 3.57 | 3.57 | - | - | 15.57 | 5.88 |
| | 7 | 7 | 7 | 12 | 12 | 14 | - | - | 1.82 | 1.82 | 1.82 | 3.12 | 3.12 | 3.64 | - | - | 15.33 | 5.89 |
| | 7 | 7 | 7 | 12 | 12 | 12 | - | - | 1.91 | 1.91 | 1.91 | 3.28 | 3.28 | 3.28 | - | - | 15.55 | 5.90 |
| | 7 | 7 | 7 | 9 | 14 | 18 | - | - | 1.77 | 1.77 | 1.77 | 2.28 | 3.54 | 4.55 | - | - | 15.68 | 5.87 |
| | 7 | 7 | 7 | 9 | 14 | 14 | - | - | 1.84 | 1.84 | 1.84 | 2.36 | 3.67 | 3.67 | - | - | 15.21 | 5.90 |
| | 7 | 7 | 7 | 9 | 12 | 18 | - | - | 1.80 | 1.80 | 1.80 | 2.32 | 3.09 | 4.63 | - | - | 15.45 | 5.89 |
| | 7 | 7 | 7 | 9 | 12 | 14 | - | - | 1.92 | 1.92 | 1.92 | 2.47 | 3.30 | 3.84 | - | - | 15.38 | 5.90 |
| | 7 | 7 | 7 | 9 | 12 | 12 | - | - | 1.95 | 1.95 | 1.95 | 2.51 | 3.35 | 3.35 | - | - | 15.05 | 5.90 |
| | 7 | 7 | 7 | 9 | 9 | 18 | - | - | 1.91 | 1.91 | 1.91 | 2.46 | 2.46 | 4.90 | - | - | 15.54 | 5.90 |
| | 7 | 7 | 7 | 9 | 9 | 14 | - | - | 1.96 | 1.96 | 1.96 | 2.53 | 2.53 | 3.93 | - | - | 14.87 | 5.90 |
| | 7 | 7 | 7 | 9 | 9 | 12 | - | - | 2.05 | 2.05 | 2.05 | 2.64 | 2.64 | 3.52 | - | - | 14.95 | 5.65 |
| | 7 | 7 | 7 | 9 | 9 | 9 | - | - | 2.05 | 2.05 | 2.05 | 2.64 | 2.64 | 2.64 | - | - | 14.07 | 5.20 |
| | 7 | 7 | 7 | 7 | 14 | 18 | - | - | 1.80 | 1.80 | 1.80 | 1.80 | 3.60 | 4.63 | - | - | 15.45 | 5.89 |
| | 7 | 7 | 7 | 7 | 14 | 14 | - | - | 1.92 | 1.92 | 1.92 | 1.92 | 3.84 | 3.84 | - | - | 15.37 | 5.90 |
| | 7 | 7 | 7 | 7 | 12 | 18 | - | - | 1.84 | 1.84 | 1.84 | 1.84 | 3.15 | 4.72 | - | - | 15.21 | 5.90 |
| | 7 | 7 | 7 | 7 | 12 | 14 | - | - | 1.95 | 1.95 | 1.95 | 1.95 | 3.35 | 3.90 | - | - | 15.04 | 5.90 |
| | 7 | 7 | 7 | 7 | 12 | 12 | - | - | 2.05 | 2.05 | 2.05 | 2.05 | 3.52 | 3.52 | - | - | 15.24 | 5.79 |
| | 7 | 7 | 7 | 7 | 9 | 24 | - | - | 1.79 | 1.79 | 1.79 | 1.79 | 2.30 | 6.12 | - | - | 15.57 | 5.88 |
| | 7 | 7 | 7 | 7 | 9 | 18 | - | - | 1.93 | 1.93 | 1.93 | 1.93 | 2.49 | 4.97 | - | - | 15.21 | 5.90 |
| | 7 | 7 | 7 | 7 | 9 | 14 | - | - | 2.05 | 2.05 | 2.05 | 2.05 | 2.64 | 4.10 | - | - | 14.94 | 5.65 |
| | 7 | 7 | 7 | 7 | 9 | 12 | - | - | 2.05 | 2.05 | 2.05 | 2.05 | 2.64 | 3.52 | - | - | 14.36 | 5.35 |
| | 7 | 7 | 7 | 7 | 9 | 9 | - | - | 2.05 | 2.05 | 2.05 | 2.05 | 2.64 | 2.64 | - | - | 13.48 | 4.89 |
| | 7 | 7 | 7 | 7 | 7 | 24 | - | - | 1.82 | 1.82 | 1.82 | 1.82 | 1.82 | 6.24 | - | - | 15.33 | 5.89 |
| | 7 | 7 | 7 | 7 | 7 | 18 | - | - | 1.96 | 1.96 | 1.96 | 1.96 | 1.96 | 5.05 | - | - | 14.87 | 5.90 |
| | 7 | 7 | 7 | 7 | 7 | 14 | - | - | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 4.10 | - | - | 14.35 | 5.35 |
| | 7 | 7 | 7 | 7 | 7 | 12 | - | - | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 3.52 | - | - | 13.77 | 5.05 |
| | 7 | 7 | 7 | 7 | 7 | 9 | - | - | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.64 | - | - | 12.89 | 4.57 |
| | 7 | 7 | 7 | 7 | 7 | 7 | - | - | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | - | - | 12.30 | 4.24 |
| 7 Room | 7 | 9 | 9 | 9 | 9 | 9 | 9 | - | 1.78 | 2.30 | 2.30 | 2.30 | 2.30 | 2.30 | 2.30 | - | 15.57 | 5.88 |
| | 7 | 7 | 9 | 9 | 9 | 9 | 12 | - | 1.77 | 1.77 | 2.28 | 2.28 | 2.28 | 2.28 | 3.04 | - | 15.69 | 5.87 |
| | 7 | 7 | 9 | 9 | 9 | 9 | 9 | - | 1.82 | 1.82 | 2.34 | 2.34 | 2.34 | 2.34 | 2.34 | - | 15.34 | 5.89 |
| | 7 | 7 | 7 | 9 | 9 | 9 | 14 | - | 1.77 | 1.77 | 1.77 | 2.28 | 2.28 | 2.28 | 3.54 | - | 15.69 | 5.87 |
| | 7 | 7 | 7 | 9 | 9 | 9 | 12 | - | 1.80 | 1.80 | 1.80 | 2.32 | 2.32 | 2.32 | 3.09 | - | 15.45 | 5.89 |
| | 7 | 7 | 7 | 9 | 9 | 9 | 9 | - | 1.91 | 1.91 | 1.91 | 2.46 | 2.46 | 2.46 | 2.46 | - | 15.55 | 5.90 |
| | 7 | 7 | 7 | 7 | 9 | 12 | 12 | - | 1.79 | 1.79 | 1.79 | 1.79 | 2.30 | 3.07 | 3.07 | - | 15.57 | 5.88 |
| | 7 | 7 | 7 | 7 | 9 | 9 | 14 | - | 1.80 | 1.80 | 1.80 | 1.80 | 2.32 | 2.32 | 3.60 | - | 15.45 | 5.89 |
| | 7 | 7 | 7 | 7 | 9 | 9 | 12 | - | 1.83 | 1.83 | 1.83 | 1.83 | 2.36 | 2.36 | 3.15 | - | 15.21 | 5.90 |
| | 7 | 7 | 7 | 7 | 9 | 9 | 9 | - | 1.93 | 1.93 | 1.93 | 1.93 | 2.49 | 2.49 | 2.49 | - | 15.21 | 5.90 |
| | 7 | 7 | 7 | 7 | 7 | 12 | 14 | - | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 3.07 | 3.57 | - | 15.57 | 5.88 |
| | 7 | 7 | 7 | 7 | 7 | 12 | 12 | - | 1.82 | 1.82 | 1.82 | 1.82 | 1.82 | 3.12 | 3.12 | - | 15.33 | 5.89 |
| | 7 | 7 | 7 | 7 | 7 | 9 | 18 | - | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 2.28 | 4.55 | - | 15.68 | 5.87 |
| | 7 | 7 | 7 | 7 | 7 | 9 | 14 | - | 1.84 | 1.84 | 1.84 | 1.84 | 1.84 | 2.36 | 3.67 | - | 15.21 | 5.90 |
| | 7 | 7 | 7 | 7 | 7 | 9 | 12 | - | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 2.47 | 3.30 | - | 15.38 | 5.90 |
| | 7 | 7 | 7 | 7 | 7 | 9 | 9 | - | 1.96 | 1.96 | 1.96 | 1.96 | 1.96 | 2.53 | 2.53 | - | 14.87 | 5.90 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 18 | - | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 4.63 | - | 15.45 | 5.89 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 14 | - | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 3.84 | - | 15.37 | 5.90 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 12 | - | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 1.95 | 3.35 | - | 15.04 | 5.90 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 9 | - | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.64 | - | 14.94 | 5.65 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | - | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | - | 14.35 | 5.35 |
| 8 Room | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 1.77 | 1.77 | 1.77 | 1.77 | 1.77 | 2.28 | 2.28 | 2.28 | 15.69 | 5.87 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 1.80 | 2.32 | 2.32 | 15.45 | 5.89 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 12 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 1.79 | 3.07 | 15.57 | 5.88 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 1.84 | 1.84 | 1.84 | 1.84 | 1.84 | 1.84 | 1.84 | 2.36 | 15.21 | 5.90 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 1.92 | 15.37 | 5.90 |

Note: •Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature)
•Pipe Length: 5 m (Outdoor unit to Branch box), 3 m (Branch box to Indoor unit)
•Height difference: 0 m (Outdoor unit to Indoor unit)
•The values in this table should be used only as a guide. These values are calculated at standard conditions.
To fix your selection of models, select them according to "Model Selection" in the D&T manual.

## 8 Rooms Multi heating

| AOYG45LBT8 | Combination of Indoor Unit | | | | | | | | HEATING OPERATION | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Heating Capacity | | | | | | | | | Input power |
| | | | | | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Room 6 | Room 7 | Room 8 | Total | |
| | | | | | | | | | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 2 Room | 24 | 24 | - | - | - | - | - | - | 7.91 | 7.91 | - | - | - | - | - | - | 15.82 | 5.07 |
| | 18 | 24 | - | - | - | - | - | - | 5.86 | 7.91 | - | - | - | - | - | - | 13.77 | 4.21 |
| 3 Room | 18 | 18 | 24 | - | - | - | - | - | 5.32 | 5.32 | 7.18 | - | - | - | - | - | 17.82 | 5.98 |
| | 18 | 18 | 18 | - | - | - | - | - | 5.79 | 5.79 | 5.79 | - | - | - | - | - | 17.38 | 5.43 |
| | 14 | 24 | 24 | - | - | - | - | - | 4.26 | 7.02 | 7.02 | - | - | - | - | - | 18.31 | 5.98 |
| | 14 | 18 | 24 | - | - | - | - | - | 4.59 | 5.61 | 7.57 | - | - | - | - | - | 17.77 | 5.70 |
| | 14 | 18 | 18 | - | - | - | - | - | 4.78 | 5.84 | 5.84 | - | - | - | - | - | 16.46 | 5.11 |
| | 14 | 14 | 24 | - | - | - | - | - | 4.75 | 4.75 | 7.82 | - | - | - | - | - | 17.32 | 5.23 |
| | 14 | 14 | 18 | - | - | - | - | - | 4.80 | 4.80 | 5.86 | - | - | - | - | - | 15.46 | 4.75 |
| | 14*1 | 14*1 | 14*1 | - | - | - | - | - | 4.80 | 4.80 | 4.80 | - | - | - | - | - | 14.40 | 4.21 |
| | 12 | 24 | 24 | - | - | - | - | - | 3.58 | 7.15 | 7.15 | - | - | - | - | - | 17.89 | 5.98 |
| | 12 | 18 | 24 | - | - | - | - | - | 3.84 | 5.68 | 7.67 | - | - | - | - | - | 17.19 | 5.43 |
| | 12 | 18 | 18 | - | - | - | - | - | 3.96 | 5.86 | 5.86 | - | - | - | - | - | 15.68 | 5.07 |
| | 12 | 14 | 24 | - | - | - | - | - | 3.94 | 4.78 | 7.87 | - | - | - | - | - | 16.59 | 5.11 |
| | 12 | 14 | 18 | - | - | - | - | - | 3.96 | 4.80 | 5.86 | - | - | - | - | - | 14.62 | 4.46 |
| | 12*1 | 14*1 | 14*1 | - | - | - | - | - | 3.96 | 4.80 | 4.80 | - | - | - | - | - | 13.56 | 4.00 |
| | 12 | 12 | 24 | - | - | - | - | - | 3.96 | 3.96 | 7.91 | - | - | - | - | - | 15.83 | 5.07 |
| | 12 | 12 | 18 | - | - | - | - | - | 3.96 | 3.96 | 5.86 | - | - | - | - | - | 13.78 | 4.21 |
| | 9 | 24 | 24 | - | - | - | - | - | 2.85 | 7.54 | 7.54 | - | - | - | - | - | 17.93 | 5.87 |
| | 9 | 18 | 24 | - | - | - | - | - | 2.97 | 5.83 | 7.87 | - | - | - | - | - | 16.67 | 5.16 |
| | 9 | 18 | 18 | - | - | - | - | - | 2.99 | 5.86 | 5.86 | - | - | - | - | - | 14.71 | 4.60 |
| | 9 | 14 | 24 | - | - | - | - | - | 2.99 | 4.80 | 7.91 | - | - | - | - | - | 15.70 | 4.91 |
| | 9 | 14 | 18 | - | - | - | - | - | 2.99 | 4.80 | 5.86 | - | - | - | - | - | 13.65 | 4.10 |
| | 9 | 12 | 24 | - | - | - | - | - | 2.99 | 3.96 | 7.91 | - | - | - | - | - | 14.86 | 4.60 |
| | 9 | 12 | 18 | - | - | - | - | - | 2.99 | 3.96 | 5.86 | - | - | - | - | - | 12.81 | 3.90 |
| | 9 | 9 | 24 | - | - | - | - | - | 2.99 | 2.99 | 7.91 | - | - | - | - | - | 13.89 | 4.21 |
| | 7 | 24 | 24 | - | - | - | - | - | 2.28 | 7.61 | 7.61 | - | - | - | - | - | 17.51 | 5.56 |
| | 7 | 18 | 24 | - | - | - | - | - | 2.37 | 5.85 | 7.90 | - | - | - | - | - | 16.12 | 5.08 |
| | 7 | 18 | 18 | - | - | - | - | - | 2.37 | 5.86 | 5.86 | - | - | - | - | - | 14.09 | 4.33 |
| | 7 | 14 | 24 | - | - | - | - | - | 2.37 | 4.80 | 7.91 | - | - | - | - | - | 15.08 | 4.60 |
| | 7 | 14 | 18 | - | - | - | - | - | 2.37 | 4.80 | 5.86 | - | - | - | - | - | 13.03 | 3.90 |
| | 7 | 12 | 24 | - | - | - | - | - | 2.37 | 3.96 | 7.91 | - | - | - | - | - | 14.24 | 4.33 |
| | 7 | 9 | 24 | - | - | - | - | - | 2.37 | 2.99 | 7.91 | - | - | - | - | - | 13.27 | 4.00 |
| 4 Room | 14 | 14 | 14 | 18 | - | - | - | - | 4.30 | 4.30 | 4.30 | 5.24 | - | - | - | - | 18.13 | 5.98 |
| | 14 | 14 | 14 | 14 | - | - | - | - | 4.55 | 4.55 | 4.55 | 4.55 | - | - | - | - | 18.20 | 5.70 |
| | 12 | 14 | 18 | 18 | - | - | - | - | 3.53 | 4.28 | 5.22 | 5.22 | - | - | - | - | 18.24 | 5.98 |
| | 12 | 14 | 14 | 18 | - | - | - | - | 3.61 | 4.38 | 4.38 | 5.34 | - | - | - | - | 17.71 | 5.98 |
| | 12 | 14 | 14 | 14 | - | - | - | - | 3.80 | 4.61 | 4.61 | 4.61 | - | - | - | - | 17.62 | 5.43 |
| | 12 | 12 | 18 | 18 | - | - | - | - | 3.59 | 3.59 | 5.32 | 5.32 | - | - | - | - | 17.82 | 5.98 |
| | 12 | 12 | 14 | 24 | - | - | - | - | 3.52 | 3.52 | 4.26 | 7.02 | - | - | - | - | 18.32 | 5.98 |
| | 12 | 12 | 14 | 18 | - | - | - | - | 3.79 | 3.79 | 4.59 | 5.61 | - | - | - | - | 17.77 | 5.70 |
| | 12 | 12 | 14 | 14 | - | - | - | - | 3.92 | 3.92 | 4.75 | 4.75 | - | - | - | - | 17.33 | 5.23 |
| | 12 | 12 | 12 | 24 | - | - | - | - | 3.58 | 3.58 | 3.58 | 7.15 | - | - | - | - | 17.90 | 5.98 |
| | 12 | 12 | 12 | 18 | - | - | - | - | 3.84 | 3.84 | 3.84 | 5.68 | - | - | - | - | 17.20 | 5.43 |
| | 12 | 12 | 12 | 14 | - | - | - | - | 3.94 | 3.94 | 3.94 | 4.78 | - | - | - | - | 16.60 | 5.11 |
| | 12 | 12 | 12 | 12 | - | - | - | - | 3.96 | 3.96 | 3.96 | 3.96 | - | - | - | - | 15.84 | 5.07 |
| | 9 | 14 | 18 | 18 | - | - | - | - | 2.72 | 4.37 | 5.33 | 5.33 | - | - | - | - | 17.76 | 5.98 |
| | 9 | 14 | 14 | 24 | - | - | - | - | 2.66 | 4.27 | 4.27 | 7.04 | - | - | - | - | 18.25 | 5.98 |
| | 9 | 14 | 14 | 18 | - | - | - | - | 2.87 | 4.60 | 4.60 | 5.62 | - | - | - | - | 17.68 | 5.56 |
| | 9 | 14 | 14 | 14 | - | - | - | - | 2.96 | 4.75 | 4.75 | 4.75 | - | - | - | - | 17.22 | 5.16 |
| | 9 | 12 | 18 | 18 | - | - | - | - | 2.86 | 3.78 | 5.60 | 5.60 | - | - | - | - | 17.84 | 5.87 |
| | 9 | 12 | 14 | 24 | - | - | - | - | 2.71 | 3.59 | 4.35 | 7.17 | - | - | - | - | 17.83 | 5.98 |
| | 9 | 12 | 14 | 18 | - | - | - | - | 2.90 | 3.85 | 4.66 | 5.69 | - | - | - | - | 17.11 | 5.32 |
| | 9 | 12 | 14 | 14 | - | - | - | - | 2.98 | 3.94 | 4.78 | 4.78 | - | - | - | - | 16.48 | 5.08 |
| | 9 | 12 | 12 | 24 | - | - | - | - | 2.85 | 3.77 | 3.77 | 7.54 | - | - | - | - | 17.94 | 5.87 |
| | 9 | 12 | 12 | 18 | - | - | - | - | 2.97 | 3.94 | 3.94 | 5.83 | - | - | - | - | 16.67 | 5.16 |
| | 9 | 12 | 12 | 14 | - | - | - | - | 2.99 | 3.96 | 3.96 | 4.80 | - | - | - | - | 15.71 | 4.91 |
| | 9 | 12 | 12 | 12 | - | - | - | - | 2.99 | 3.96 | 3.96 | 3.96 | - | - | - | - | 14.87 | 4.60 |
| | 9 | 9 | 18 | 24 | - | - | - | - | 2.71 | 2.71 | 5.30 | 7.16 | - | - | - | - | 17.88 | 5.98 |
| | 9 | 9 | 18 | 18 | - | - | - | - | 2.90 | 2.90 | 5.68 | 5.68 | - | - | - | - | 17.17 | 5.43 |
| | 9 | 9 | 14 | 24 | - | - | - | - | 2.86 | 2.86 | 4.58 | 7.55 | - | - | - | - | 17.85 | 5.70 |
| | 9 | 9 | 14 | 18 | - | - | - | - | 2.98 | 2.98 | 4.78 | 5.83 | - | - | - | - | 16.56 | 5.11 |
| | 9 | 9 | 14 | 14 | - | - | - | - | 2.99 | 2.99 | 4.80 | 4.80 | - | - | - | - | 15.58 | 4.75 |
| | 9 | 9 | 12 | 24 | - | - | - | - | 2.89 | 2.89 | 3.83 | 7.65 | - | - | - | - | 17.27 | 5.43 |
| | 9 | 9 | 12 | 18 | - | - | - | - | 2.99 | 2.99 | 3.96 | 5.86 | - | - | - | - | 15.80 | 5.07 |
| | 9 | 9 | 12 | 14 | - | - | - | - | 2.99 | 2.99 | 3.96 | 4.80 | - | - | - | - | 14.74 | 4.46 |
| | 9 | 9 | 12 | 12 | - | - | - | - | 2.99 | 2.99 | 3.96 | 3.96 | - | - | - | - | 13.90 | 4.21 |
| | 9 | 9 | 9 | 24 | - | - | - | - | 2.97 | 2.97 | 2.97 | 7.86 | - | - | - | - | 16.77 | 5.16 |
| | 9 | 9 | 9 | 18 | - | - | - | - | 2.99 | 2.99 | 2.99 | 5.86 | - | - | - | - | 14.83 | 4.60 |
| | 9 | 9 | 9 | 14 | - | - | - | - | 2.99 | 2.99 | 2.99 | 4.80 | - | - | - | - | 13.77 | 4.10 |
| | 9 | 9 | 9 | 12 | - | - | - | - | 2.99 | 2.99 | 2.99 | 3.96 | - | - | - | - | 12.93 | 3.90 |
| | 7 | 18 | 18 | 18 | - | - | - | - | 2.14 | 5.28 | 5.28 | 5.28 | - | - | - | - | 17.98 | 5.98 |
| | 7 | 14 | 18 | 18 | - | - | - | - | 2.26 | 4.57 | 5.58 | 5.58 | - | - | - | - | 17.99 | 5.87 |
| | 7 | 14 | 14 | 24 | - | - | - | - | 2.14 | 4.33 | 4.33 | 7.14 | - | - | - | - | 17.94 | 5.98 |
| | 7 | 14 | 14 | 18 | - | - | - | - | 2.29 | 4.65 | 4.65 | 5.67 | - | - | - | - | 17.26 | 5.32 |
| | 7 | 14 | 14 | 14 | - | - | - | - | 2.36 | 4.77 | 4.77 | 4.77 | - | - | - | - | 16.67 | 5.08 |
| | 7 | 12 | 18 | 24 | - | - | - | - | 2.13 | 3.56 | 5.26 | 7.10 | - | - | - | - | 18.05 | 5.98 |
| | 7 | 12 | 18 | 18 | - | - | - | - | 2.29 | 3.82 | 5.65 | 5.65 | - | - | - | - | 17.41 | 5.56 |
| | 7 | 12 | 14 | 24 | - | - | - | - | 2.25 | 3.76 | 4.56 | 7.52 | - | - | - | - | 18.09 | 5.87 |
| | 7 | 12 | 14 | 18 | - | - | - | - | 2.35 | 3.93 | 4.77 | 5.82 | - | - | - | - | 16.87 | 5.16 |
| | 7 | 12 | 14 | 14 | - | - | - | - | 2.37 | 3.96 | 4.80 | 4.80 | - | - | - | - | 15.93 | 4.91 |
| | 7 | 12 | 12 | 24 | - | - | - | - | 2.28 | 3.81 | 3.81 | 7.61 | - | - | - | - | 17.51 | 5.56 |
| | 7 | 12 | 12 | 18 | - | - | - | - | 2.37 | 3.96 | 3.96 | 5.85 | - | - | - | - | 16.13 | 5.08 |
| | 7 | 12 | 12 | 14 | - | - | - | - | 2.37 | 3.96 | 3.96 | 4.80 | - | - | - | - | 15.09 | 4.60 |
| | 7 | 12 | 12 | 12 | - | - | - | - | 2.37 | 3.96 | 3.96 | 3.96 | - | - | - | - | 14.25 | 4.33 |
| | 7 | 9 | 18 | 24 | - | - | - | - | 2.25 | 2.84 | 5.56 | 7.51 | - | - | - | - | 18.15 | 5.98 |
| | 7 | 9 | 18 | 18 | - | - | - | - | 2.35 | 2.97 | 5.81 | 5.81 | - | - | - | - | 16.95 | 5.23 |
| | 7 | 9 | 14 | 24 | - | - | - | - | 2.29 | 2.88 | 4.63 | 7.63 | - | - | - | - | 17.42 | 5.43 |
| | 7 | 9 | 14 | 18 | - | - | - | - | 2.37 | 2.99 | 4.80 | 5.86 | - | - | - | - | 16.02 | 5.07 |
| | 7 | 9 | 12 | 24 | - | - | - | - | 2.35 | 2.96 | 3.92 | 7.84 | - | - | - | - | 17.08 | 5.23 |
| | 7 | 9 | 12 | 18 | - | - | - | - | 2.37 | 2.99 | 3.96 | 5.86 | - | - | - | - | 15.18 | 4.75 |
| | 7 | 9 | 12 | 14 | - | - | - | - | 2.37 | 2.99 | 3.96 | 4.80 | - | - | - | - | 14.12 | 4.21 |
| | 7 | 9 | 12 | 12 | - | - | - | - | 2.37 | 2.99 | 3.96 | 3.96 | - | - | - | - | 13.28 | 4.00 |
| | 7 | 9 | 9 | 24 | - | - | - | - | 2.37 | 2.98 | 2.98 | 7.89 | - | - | - | - | 16.23 | 5.08 |
| | 7 | 9 | 9 | 18 | - | - | - | - | 2.37 | 2.99 | 2.99 | 5.86 | - | - | - | - | 14.21 | 4.33 |
| | 7 | 9 | 9 | 14 | - | - | - | - | 2.37 | 2.99 | 2.99 | 4.80 | - | - | - | - | 13.15 | 3.90 |
| | 7 | 7 | 24 | 24 | - | - | - | - | 2.11 | 2.11 | 7.03 | 7.03 | - | - | - | - | 18.28 | 5.98 |
| | 7 | 7 | 18 | 24 | - | - | - | - | 2.27 | 2.27 | 5.61 | 7.57 | - | - | - | - | 17.73 | 5.70 |
| | 7 | 7 | 18 | 18 | - | - | - | - | 2.36 | 2.36 | 5.84 | 5.84 | - | - | - | - | 16.40 | 5.11 |
| | 7 | 7 | 14 | 24 | - | - | - | - | 2.35 | 2.35 | 4.75 | 7.83 | - | - | - | - | 17.27 | 5.23 |

Note: •Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature)
•Pipe Length: 5 m (Outdoor unit to Branch box), 3 m (Branch box to Indoor unit)
•Height difference: 0 m (Outdoor unit to Indoor unit)
•The values in this table should be used only as a guide. These values are calculated at standard conditions.
To fix your selection of models, select them according to "Model Selection" in the D&T manual.
*1: LMC type is not available for this combination.

REFRIGERANT R410A

# **8 Rooms** Multi Combination Table–Heating

## 8 Rooms Multi heating

| AOYG45LBT8 | Combination of Indoor Unit | | | | | | | | HEATING OPERATION | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Heating Capacity | | | | | | | | | Input power |
| | | | | | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Room 6 | Room 7 | Room 8 | Total | |
| | | | | | | | | | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 4 Room | 7 | 7 | 14 | 18 | - | - | - | - | 2.37 | 2.37 | 4.80 | 5.86 | - | - | - | - | 15.40 | 4.75 |
| | 7 | 7 | 14 | 14 | - | - | - | - | 2.37 | 2.37 | 4.80 | 4.80 | - | - | - | - | 14.34 | 4.21 |
| | 7 | 7 | 12 | 24 | - | - | - | - | 2.36 | 2.36 | 3.94 | 7.87 | - | - | - | - | 16.53 | 5.11 |
| | 7 | 7 | 12 | 18 | - | - | - | - | 2.37 | 2.37 | 3.96 | 5.86 | - | - | - | - | 14.56 | 4.46 |
| | 7 | 7 | 12 | 14 | - | - | - | - | 2.37 | 2.37 | 3.96 | 4.80 | - | - | - | - | 13.50 | 4.00 |
| | 7 | 7 | 9 | 24 | - | - | - | - | 2.37 | 2.37 | 2.99 | 7.91 | - | - | - | - | 15.64 | 4.91 |
| | 7 | 7 | 9 | 18 | - | - | - | - | 2.37 | 2.37 | 2.99 | 5.86 | - | - | - | - | 13.59 | 4.10 |
| | 7 | 7 | 7 | 24 | - | - | - | - | 2.37 | 2.37 | 2.37 | 7.91 | - | - | - | - | 15.02 | 4.60 |
| | 7 | 7 | 7 | 18 | - | - | - | - | 2.37 | 2.37 | 2.37 | 5.86 | - | - | - | - | 12.97 | 3.90 |
| 5 Room | 12 | 12 | 12 | 12 | 14 | - | - | - | 3.51 | 3.51 | 3.51 | 3.51 | 4.26 | - | - | - | 18.32 | 5.98 |
| | 12 | 12 | 12 | 12 | 12 | - | - | - | 3.58 | 3.58 | 3.58 | 3.58 | 3.58 | - | - | - | 17.90 | 5.98 |
| | 9 | 12 | 12 | 14 | 14 | - | - | - | 2.66 | 3.52 | 3.52 | 4.27 | 4.27 | - | - | - | 18.26 | 5.98 |
| | 9 | 12 | 12 | 12 | 14 | - | - | - | 2.71 | 3.59 | 3.59 | 3.59 | 4.35 | - | - | - | 17.84 | 5.98 |
| | 9 | 12 | 12 | 12 | 12 | - | - | - | 2.85 | 3.77 | 3.77 | 3.77 | 3.77 | - | - | - | 17.95 | 5.87 |
| | 9 | 9 | 14 | 14 | 14 | - | - | - | 2.67 | 2.67 | 4.28 | 4.28 | 4.28 | - | - | - | 18.19 | 5.98 |
| | 9 | 9 | 12 | 14 | 18 | - | - | - | 2.66 | 2.66 | 3.52 | 4.26 | 5.21 | - | - | - | 18.30 | 5.98 |
| | 9 | 9 | 12 | 14 | 14 | - | - | - | 2.72 | 2.72 | 3.60 | 4.37 | 4.37 | - | - | - | 17.77 | 5.98 |
| | 9 | 9 | 12 | 12 | 18 | - | - | - | 2.71 | 2.71 | 3.58 | 3.58 | 5.30 | - | - | - | 17.88 | 5.98 |
| | 9 | 9 | 12 | 12 | 14 | - | - | - | 2.86 | 2.86 | 3.78 | 3.78 | 4.58 | - | - | - | 17.86 | 5.70 |
| | 9 | 9 | 12 | 12 | 12 | - | - | - | 2.89 | 2.89 | 3.83 | 3.83 | 3.83 | - | - | - | 17.28 | 5.43 |
| | 9 | 9 | 9 | 14 | 18 | - | - | - | 2.71 | 2.71 | 2.71 | 4.36 | 5.32 | - | - | - | 17.82 | 5.98 |
| | 9 | 9 | 9 | 14 | 14 | - | - | - | 2.86 | 2.86 | 2.86 | 4.59 | 4.59 | - | - | - | 17.77 | 5.56 |
| | 9 | 9 | 9 | 12 | 18 | - | - | - | 2.85 | 2.85 | 2.85 | 3.78 | 5.59 | - | - | - | 17.92 | 5.87 |
| | 9 | 9 | 9 | 12 | 14 | - | - | - | 2.90 | 2.90 | 2.90 | 3.84 | 4.65 | - | - | - | 17.19 | 5.32 |
| | 9 | 9 | 9 | 12 | 12 | - | - | - | 2.97 | 2.97 | 2.97 | 3.93 | 3.93 | - | - | - | 16.78 | 5.16 |
| | 9 | 9 | 9 | 9 | 24 | - | - | - | 2.70 | 2.70 | 2.70 | 2.70 | 7.14 | - | - | - | 17.94 | 5.98 |
| | 9 | 9 | 9 | 9 | 18 | - | - | - | 2.89 | 2.89 | 2.89 | 2.89 | 5.67 | - | - | - | 17.25 | 5.43 |
| | 9 | 9 | 9 | 9 | 14 | - | - | - | 2.97 | 2.97 | 2.97 | 2.97 | 4.77 | - | - | - | 16.67 | 5.11 |
| | 9 | 9 | 9 | 9 | 12 | - | - | - | 2.99 | 2.99 | 2.99 | 2.99 | 3.96 | - | - | - | 15.92 | 5.07 |
| | 9 | 9 | 9 | 9 | 9 | - | - | - | 2.99 | 2.99 | 2.99 | 2.99 | 2.99 | - | - | - | 14.95 | 4.60 |
| | 7 | 12 | 14 | 14 | 14 | - | - | - | 2.10 | 3.51 | 4.25 | 4.25 | 4.25 | - | - | - | 18.37 | 5.98 |
| | 7 | 12 | 12 | 14 | 14 | - | - | - | 2.14 | 3.57 | 3.57 | 4.33 | 4.33 | - | - | - | 17.95 | 5.98 |
| | 7 | 12 | 12 | 12 | 18 | - | - | - | 2.13 | 3.56 | 3.56 | 3.56 | 5.26 | - | - | - | 18.06 | 5.98 |
| | 7 | 12 | 12 | 12 | 14 | - | - | - | 2.25 | 3.76 | 3.76 | 3.76 | 4.56 | - | - | - | 18.10 | 5.87 |
| | 7 | 12 | 12 | 12 | 12 | - | - | - | 2.28 | 3.81 | 3.81 | 3.81 | 3.81 | - | - | - | 17.52 | 5.56 |
| | 7 | 9 | 14 | 14 | 18 | - | - | - | 2.09 | 2.64 | 4.24 | 4.24 | 5.18 | - | - | - | 18.40 | 5.98 |
| | 7 | 9 | 14 | 14 | 14 | - | - | - | 2.14 | 2.71 | 4.34 | 4.34 | 4.34 | - | - | - | 17.88 | 5.98 |
| | 7 | 9 | 12 | 14 | 18 | - | - | - | 2.13 | 2.69 | 3.57 | 4.32 | 5.28 | - | - | - | 17.99 | 5.98 |
| | 7 | 9 | 12 | 14 | 14 | - | - | - | 2.26 | 2.85 | 3.77 | 4.57 | 4.57 | - | - | - | 18.01 | 5.70 |
| | 7 | 9 | 12 | 12 | 18 | - | - | - | 2.25 | 2.84 | 3.76 | 3.76 | 5.56 | - | - | - | 18.16 | 5.98 |
| | 7 | 9 | 12 | 12 | 14 | - | - | - | 2.28 | 2.88 | 3.82 | 3.82 | 4.63 | - | - | - | 17.43 | 5.43 |
| | 7 | 9 | 12 | 12 | 12 | - | - | - | 2.35 | 2.96 | 3.92 | 3.92 | 3.92 | - | - | - | 17.09 | 5.23 |
| | 7 | 9 | 9 | 18 | 18 | - | - | - | 2.13 | 2.69 | 2.69 | 5.27 | 5.27 | - | - | - | 18.04 | 5.98 |
| | 7 | 9 | 9 | 14 | 18 | - | - | - | 2.25 | 2.84 | 2.84 | 4.56 | 5.57 | - | - | - | 18.07 | 5.87 |
| | 7 | 9 | 9 | 14 | 14 | - | - | - | 2.29 | 2.89 | 2.89 | 4.64 | 4.64 | - | - | - | 17.34 | 5.32 |
| | 7 | 9 | 9 | 12 | 24 | - | - | - | 2.12 | 2.68 | 2.68 | 3.55 | 7.08 | - | - | - | 18.11 | 5.98 |
| | 7 | 9 | 9 | 12 | 18 | - | - | - | 2.28 | 2.88 | 2.88 | 3.81 | 5.64 | - | - | - | 17.49 | 5.56 |
| | 7 | 9 | 9 | 12 | 14 | - | - | - | 2.35 | 2.97 | 2.97 | 3.93 | 4.76 | - | - | - | 16.97 | 5.16 |
| | 7 | 9 | 9 | 12 | 12 | - | - | - | 2.37 | 2.98 | 2.98 | 3.95 | 3.95 | - | - | - | 16.24 | 5.08 |
| | 7 | 9 | 9 | 9 | 24 | - | - | - | 2.17 | 2.74 | 2.74 | 2.74 | 7.24 | - | - | - | 17.63 | 5.98 |
| | 7 | 9 | 9 | 9 | 18 | - | - | - | 2.35 | 2.96 | 2.96 | 2.96 | 5.81 | - | - | - | 17.05 | 5.23 |
| | 7 | 9 | 9 | 9 | 14 | - | - | - | 2.37 | 2.99 | 2.99 | 2.99 | 4.79 | - | - | - | 16.12 | 5.07 |
| | 7 | 9 | 9 | 9 | 12 | - | - | - | 2.37 | 2.99 | 2.99 | 2.99 | 3.96 | - | - | - | 15.30 | 4.75 |
| | 7 | 9 | 9 | 9 | 9 | - | - | - | 2.37 | 2.99 | 2.99 | 2.99 | 2.99 | - | - | - | 14.33 | 4.33 |
| | 7 | 7 | 14 | 14 | 18 | - | - | - | 2.12 | 2.12 | 4.30 | 4.30 | 5.25 | - | - | - | 18.10 | 5.98 |
| | 7 | 7 | 14 | 14 | 14 | - | - | - | 2.25 | 2.25 | 4.55 | 4.55 | 4.55 | - | - | - | 18.16 | 5.70 |
| | 7 | 7 | 12 | 18 | 18 | - | - | - | 2.11 | 2.11 | 3.53 | 5.23 | 5.23 | - | - | - | 18.21 | 5.98 |
| | 7 | 7 | 12 | 14 | 18 | - | - | - | 2.16 | 2.16 | 3.62 | 4.38 | 5.35 | - | - | - | 17.68 | 5.98 |
| | 7 | 7 | 12 | 14 | 14 | - | - | - | 2.28 | 2.28 | 3.80 | 4.61 | 4.61 | - | - | - | 17.58 | 5.43 |
| | 7 | 7 | 12 | 12 | 24 | - | - | - | 2.11 | 2.11 | 3.52 | 3.52 | 7.03 | - | - | - | 18.29 | 5.98 |
| | 7 | 7 | 12 | 12 | 14 | - | - | - | 2.35 | 2.35 | 3.92 | 3.92 | 4.75 | - | - | - | 17.28 | 5.23 |
| | 7 | 7 | 12 | 12 | 12 | - | - | - | 2.36 | 2.36 | 3.94 | 3.94 | 3.94 | - | - | - | 16.54 | 5.11 |
| | 7 | 7 | 9 | 18 | 18 | - | - | - | 2.16 | 2.16 | 2.72 | 5.34 | 5.34 | - | - | - | 17.73 | 5.98 |
| | 7 | 7 | 9 | 14 | 24 | - | - | - | 2.11 | 2.11 | 2.67 | 4.28 | 7.05 | - | - | - | 18.22 | 5.98 |
| | 7 | 7 | 9 | 14 | 18 | - | - | - | 2.27 | 2.27 | 2.87 | 4.61 | 5.62 | - | - | - | 17.64 | 5.56 |
| | 7 | 7 | 9 | 14 | 14 | - | - | - | 2.35 | 2.35 | 2.96 | 4.75 | 4.75 | - | - | - | 17.16 | 5.16 |
| | 7 | 7 | 9 | 12 | 24 | - | - | - | 2.15 | 2.15 | 2.72 | 3.60 | 7.18 | - | - | - | 17.80 | 5.98 |
| | 7 | 7 | 9 | 12 | 18 | - | - | - | 2.34 | 2.34 | 2.96 | 3.92 | 5.80 | - | - | - | 17.36 | 5.32 |
| | 7 | 7 | 9 | 12 | 14 | - | - | - | 2.36 | 2.36 | 2.98 | 3.95 | 4.78 | - | - | - | 16.43 | 5.08 |
| | 7 | 7 | 9 | 12 | 12 | - | - | - | 2.37 | 2.37 | 2.99 | 3.96 | 3.96 | - | - | - | 15.65 | 4.91 |
| | 7 | 7 | 9 | 9 | 24 | - | - | - | 2.27 | 2.27 | 2.86 | 2.86 | 7.56 | - | - | - | 17.81 | 5.70 |
| | 7 | 7 | 9 | 9 | 18 | - | - | - | 2.36 | 2.36 | 2.98 | 2.98 | 5.83 | - | - | - | 16.51 | 5.11 |
| | 7 | 7 | 9 | 9 | 14 | - | - | - | 2.37 | 2.37 | 2.99 | 2.99 | 4.80 | - | - | - | 15.52 | 4.75 |
| | 7 | 7 | 9 | 9 | 12 | - | - | - | 2.37 | 2.37 | 2.99 | 2.99 | 3.96 | - | - | - | 14.68 | 4.46 |
| | 7 | 7 | 9 | 9 | 9 | - | - | - | 2.37 | 2.37 | 2.99 | 2.99 | 2.99 | - | - | - | 13.71 | 4.10 |
| | 7 | 7 | 7 | 18 | 18 | - | - | - | 2.26 | 2.26 | 2.26 | 5.58 | 5.58 | - | - | - | 17.95 | 5.87 |
| | 7 | 7 | 7 | 14 | 24 | - | - | - | 2.14 | 2.14 | 2.14 | 4.34 | 7.15 | - | - | - | 17.91 | 5.98 |
| | 7 | 7 | 7 | 14 | 18 | - | - | - | 2.30 | 2.30 | 2.30 | 4.65 | 5.68 | - | - | - | 17.22 | 5.32 |
| | 7 | 7 | 7 | 14 | 14 | - | - | - | 2.36 | 2.36 | 2.36 | 4.77 | 4.77 | - | - | - | 16.62 | 5.08 |
| | 7 | 7 | 7 | 12 | 24 | - | - | - | 2.25 | 2.25 | 2.25 | 3.77 | 7.52 | - | - | - | 18.05 | 5.87 |
| | 7 | 7 | 7 | 12 | 18 | - | - | - | 2.35 | 2.35 | 2.35 | 3.93 | 5.82 | - | - | - | 16.81 | 5.16 |
| | 7 | 7 | 7 | 12 | 14 | - | - | - | 2.37 | 2.37 | 2.37 | 3.96 | 4.80 | - | - | - | 15.87 | 4.91 |
| | 7 | 7 | 7 | 12 | 12 | - | - | - | 2.37 | 2.37 | 2.37 | 3.96 | 3.96 | - | - | - | 15.03 | 4.60 |
| | 7 | 7 | 7 | 9 | 24 | - | - | - | 2.29 | 2.29 | 2.29 | 2.89 | 7.63 | - | - | - | 17.38 | 5.43 |
| | 7 | 7 | 7 | 9 | 18 | - | - | - | 2.37 | 2.37 | 2.37 | 2.99 | 5.86 | - | - | - | 15.96 | 5.07 |
| | 7 | 7 | 7 | 9 | 14 | - | - | - | 2.37 | 2.37 | 2.37 | 2.99 | 4.80 | - | - | - | 14.90 | 4.46 |
| | 7 | 7 | 7 | 9 | 12 | - | - | - | 2.37 | 2.37 | 2.37 | 2.99 | 3.96 | - | - | - | 14.06 | 4.21 |
| | 7 | 7 | 7 | 9 | 9 | - | - | - | 2.37 | 2.37 | 2.37 | 2.99 | 2.99 | - | - | - | 13.09 | 3.90 |
| | 7 | 7 | 7 | 7 | 24 | - | - | - | 2.35 | 2.35 | 2.35 | 2.35 | 7.83 | - | - | - | 17.22 | 5.23 |
| | 7 | 7 | 7 | 7 | 18 | - | - | - | 2.37 | 2.37 | 2.37 | 2.37 | 5.86 | - | - | - | 15.34 | 4.75 |
| | 7 | 7 | 7 | 7 | 14 | - | - | - | 2.37 | 2.37 | 2.37 | 2.37 | 4.80 | - | - | - | 14.28 | 4.21 |
| | 7 | 7 | 7 | 7 | 12 | - | - | - | 2.37 | 2.37 | 2.37 | 2.37 | 3.96 | - | - | - | 13.44 | 4.00 |
| 6 Room | 9 | 9 | 9 | 9 | 12 | 14 | - | - | 2.65 | 2.65 | 2.65 | 2.65 | 3.51 | 4.25 | - | - | 18.36 | 5.98 |
| | 9 | 9 | 9 | 9 | 12 | 12 | - | - | 2.70 | 2.70 | 2.70 | 2.70 | 3.57 | 3.57 | - | - | 17.94 | 5.98 |
| | 9 | 9 | 9 | 9 | 9 | 14 | - | - | 2.71 | 2.71 | 2.71 | 2.71 | 2.71 | 4.34 | - | - | 17.88 | 5.98 |
| | 9 | 9 | 9 | 9 | 9 | 12 | - | - | 2.85 | 2.85 | 2.85 | 2.85 | 2.85 | 3.77 | - | - | 18.00 | 5.87 |
| | 9 | 9 | 9 | 9 | 9 | 9 | - | - | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | 2.89 | - | - | 17.33 | 5.43 |
| | 7 | 9 | 9 | 12 | 12 | 12 | - | - | 2.12 | 2.68 | 2.68 | 3.55 | 3.55 | 3.55 | - | - | 18.12 | 5.98 |
| | 7 | 9 | 9 | 9 | 12 | 14 | - | - | 2.13 | 2.69 | 2.69 | 2.69 | 3.56 | 4.31 | - | - | 18.05 | 5.98 |
| | 7 | 9 | 9 | 9 | 12 | 12 | - | - | 2.17 | 2.74 | 2.74 | 2.74 | 3.62 | 3.62 | - | - | 17.63 | 5.98 |

Note: •Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature)
•Pipe Length: 5 m (Outdoor unit to Branch box), 3 m (Branch box to Indoor unit)
•Height difference: 0 m (Outdoor unit to Indoor unit)
•The values in this table should be used only as a guide. These values are calculated at standard conditions.
To fix your selection of models, select them according to "Model Selection" in the D&T manual.

## 8 Rooms Multi heating

| AOYG45LBT8 | Combination of Indoor Unit | | | | | | | | HEATING OPERATION | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Heating Capacity | | | | | | | | | Input power |
| | | | | | | | | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Room 6 | Room 7 | Room 8 | Total | |
| | | | | | | | | | kW | kW | kW | kW | kW | kW | kW | kW | kW | kW |
| 6 Room | 7 | 9 | 9 | 9 | 9 | 18 | - | - | 2.12 | 2.68 | 2.68 | 2.68 | 2.68 | 5.25 | - | - | 18.10 | 5.98 |
| | 7 | 9 | 9 | 9 | 9 | 12 | - | - | 2.28 | 2.87 | 2.87 | 2.87 | 2.87 | 3.81 | - | - | 17.57 | 5.56 |
| | 7 | 9 | 9 | 9 | 9 | 9 | - | - | 2.35 | 2.96 | 2.96 | 2.96 | 2.96 | 2.96 | - | - | 17.16 | 5.23 |
| | 7 | 7 | 12 | 12 | 12 | 12 | - | - | 2.11 | 2.11 | 3.52 | 3.52 | 3.52 | 3.52 | - | - | 18.29 | 5.98 |
| | 7 | 7 | 9 | 12 | 12 | 14 | - | - | 2.11 | 2.11 | 2.66 | 3.53 | 3.53 | 4.28 | - | - | 18.23 | 5.98 |
| | 7 | 7 | 9 | 12 | 12 | 12 | - | - | 2.15 | 2.15 | 2.71 | 3.60 | 3.60 | 3.60 | - | - | 17.81 | 5.98 |
| | 7 | 7 | 9 | 9 | 14 | 14 | - | - | 2.12 | 2.12 | 2.67 | 2.67 | 4.29 | 4.29 | - | - | 18.16 | 5.98 |
| | 7 | 7 | 9 | 9 | 12 | 18 | - | - | 2.11 | 2.11 | 2.66 | 2.66 | 3.52 | 5.21 | - | - | 18.27 | 5.98 |
| | 7 | 7 | 9 | 9 | 12 | 14 | - | - | 2.16 | 2.16 | 2.72 | 2.72 | 3.61 | 4.37 | - | - | 17.74 | 5.98 |
| | 7 | 7 | 9 | 9 | 12 | 12 | - | - | 2.27 | 2.27 | 2.86 | 2.86 | 3.78 | 3.78 | - | - | 17.82 | 5.70 |
| | 7 | 7 | 9 | 9 | 9 | 18 | - | - | 2.15 | 2.15 | 2.72 | 2.72 | 2.72 | 5.33 | - | - | 17.79 | 5.98 |
| | 7 | 7 | 9 | 9 | 9 | 14 | - | - | 2.27 | 2.27 | 2.86 | 2.86 | 2.86 | 4.60 | - | - | 17.73 | 5.56 |
| | 7 | 7 | 9 | 9 | 9 | 12 | - | - | 2.30 | 2.30 | 2.90 | 2.90 | 2.90 | 3.84 | - | - | 17.15 | 5.32 |
| | 7 | 7 | 9 | 9 | 9 | 9 | - | - | 2.36 | 2.36 | 2.97 | 2.97 | 2.97 | 2.97 | - | - | 16.61 | 5.11 |
| | 7 | 7 | 7 | 12 | 14 | 14 | - | - | 2.10 | 2.10 | 2.10 | 3.51 | 4.26 | 4.26 | - | - | 18.34 | 5.98 |
| | 7 | 7 | 7 | 12 | 12 | 14 | - | - | 2.14 | 2.14 | 2.14 | 3.58 | 3.58 | 4.34 | - | - | 17.92 | 5.98 |
| | 7 | 7 | 7 | 12 | 12 | 12 | - | - | 2.25 | 2.25 | 2.25 | 3.77 | 3.77 | 3.77 | - | - | 18.06 | 5.87 |
| | 7 | 7 | 7 | 9 | 14 | 18 | - | - | 2.10 | 2.10 | 2.10 | 2.65 | 4.25 | 5.19 | - | - | 18.38 | 5.98 |
| | 7 | 7 | 7 | 9 | 14 | 14 | - | - | 2.15 | 2.15 | 2.15 | 2.71 | 4.35 | 4.35 | - | - | 17.85 | 5.98 |
| | 7 | 7 | 7 | 9 | 12 | 18 | - | - | 2.14 | 2.14 | 2.14 | 2.70 | 3.57 | 5.28 | - | - | 17.96 | 5.98 |
| | 7 | 7 | 7 | 9 | 12 | 14 | - | - | 2.26 | 2.26 | 2.26 | 2.85 | 3.77 | 4.57 | - | - | 17.97 | 5.70 |
| | 7 | 7 | 7 | 9 | 12 | 12 | - | - | 2.29 | 2.29 | 2.29 | 2.89 | 3.82 | 3.82 | - | - | 17.39 | 5.43 |
| | 7 | 7 | 7 | 9 | 9 | 18 | - | - | 2.25 | 2.25 | 2.25 | 2.84 | 2.84 | 5.57 | - | - | 18.03 | 5.87 |
| | 7 | 7 | 7 | 9 | 9 | 14 | - | - | 2.29 | 2.29 | 2.29 | 2.89 | 2.89 | 4.64 | - | - | 17.30 | 5.32 |
| | 7 | 7 | 7 | 9 | 9 | 12 | - | - | 2.35 | 2.35 | 2.35 | 2.97 | 2.97 | 3.93 | - | - | 16.92 | 5.16 |
| | 7 | 7 | 7 | 9 | 9 | 9 | - | - | 2.37 | 2.37 | 2.37 | 2.99 | 2.99 | 2.99 | - | - | 16.07 | 5.07 |
| | 7 | 7 | 7 | 7 | 14 | 18 | - | - | 2.13 | 2.13 | 2.13 | 2.13 | 4.31 | 5.26 | - | - | 18.07 | 5.98 |
| | 7 | 7 | 7 | 7 | 14 | 14 | - | - | 2.25 | 2.25 | 2.25 | 2.25 | 4.56 | 4.56 | - | - | 18.12 | 5.70 |
| | 7 | 7 | 7 | 7 | 12 | 18 | - | - | 2.17 | 2.17 | 2.17 | 2.17 | 3.62 | 5.36 | - | - | 17.65 | 5.98 |
| | 7 | 7 | 7 | 7 | 12 | 14 | - | - | 2.28 | 2.28 | 2.28 | 2.28 | 3.81 | 4.62 | - | - | 17.54 | 5.43 |
| | 7 | 7 | 7 | 7 | 12 | 12 | - | - | 2.35 | 2.35 | 2.35 | 2.35 | 3.92 | 3.92 | - | - | 17.23 | 5.23 |
| | 7 | 7 | 7 | 7 | 9 | 24 | - | - | 2.12 | 2.12 | 2.12 | 2.12 | 2.67 | 7.06 | - | - | 18.19 | 5.98 |
| | 7 | 7 | 7 | 7 | 9 | 18 | - | - | 2.28 | 2.28 | 2.28 | 2.28 | 2.87 | 5.63 | - | - | 17.60 | 5.56 |
| | 7 | 7 | 7 | 7 | 9 | 14 | - | - | 2.35 | 2.35 | 2.35 | 2.35 | 2.96 | 4.76 | - | - | 17.11 | 5.16 |
| | 7 | 7 | 7 | 7 | 9 | 12 | - | - | 2.36 | 2.36 | 2.36 | 2.36 | 2.98 | 3.95 | - | - | 16.38 | 5.08 |
| | 7 | 7 | 7 | 7 | 9 | 9 | - | - | 2.37 | 2.37 | 2.37 | 2.37 | 2.99 | 2.99 | - | - | 15.46 | 4.75 |
| | 7 | 7 | 7 | 7 | 7 | 24 | - | - | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 7.16 | - | - | 17.88 | 5.98 |
| | 7 | 7 | 7 | 7 | 7 | 18 | - | - | 2.30 | 2.30 | 2.30 | 2.30 | 2.30 | 5.68 | - | - | 17.18 | 5.32 |
| | 7 | 7 | 7 | 7 | 7 | 14 | - | - | 2.36 | 2.36 | 2.36 | 2.36 | 2.36 | 4.78 | - | - | 16.57 | 5.08 |
| | 7 | 7 | 7 | 7 | 7 | 12 | - | - | 2.37 | 2.37 | 2.37 | 2.37 | 2.37 | 3.96 | - | - | 15.81 | 4.91 |
| | 7 | 7 | 7 | 7 | 7 | 9 | - | - | 2.37 | 2.37 | 2.37 | 2.37 | 2.37 | 2.99 | - | - | 14.84 | 4.46 |
| | 7 | 7 | 7 | 7 | 7 | 7 | - | - | 2.37 | 2.37 | 2.37 | 2.37 | 2.37 | 2.37 | - | - | 14.22 | 4.21 |
| 7 Room | 7 | 9 | 9 | 9 | 9 | 9 | - | - | 2.12 | 2.67 | 2.67 | 2.67 | 2.67 | 2.67 | 2.67 | - | 18.16 | 5.98 |
| | 7 | 7 | 9 | 9 | 9 | 9 | 12 | - | 2.10 | 2.10 | 2.65 | 2.65 | 2.65 | 2.65 | 3.51 | - | 18.33 | 5.98 |
| | 7 | 7 | 9 | 9 | 9 | 9 | 9 | - | 2.15 | 2.15 | 2.71 | 2.71 | 2.71 | 2.71 | 2.71 | - | 17.85 | 5.98 |
| | 7 | 7 | 7 | 9 | 9 | 9 | 14 | - | 2.09 | 2.09 | 2.09 | 2.63 | 2.63 | 2.63 | 4.23 | - | 18.40 | 5.98 |
| | 7 | 7 | 7 | 9 | 9 | 9 | 12 | - | 2.13 | 2.13 | 2.13 | 2.69 | 2.69 | 2.69 | 3.56 | - | 18.02 | 5.98 |
| | 7 | 7 | 7 | 9 | 9 | 9 | 9 | - | 2.25 | 2.25 | 2.25 | 2.84 | 2.84 | 2.84 | 2.84 | - | 18.11 | 5.87 |
| | 7 | 7 | 7 | 7 | 9 | 12 | 12 | - | 2.11 | 2.11 | 2.11 | 2.11 | 2.67 | 3.53 | 3.53 | - | 18.20 | 5.98 |
| | 7 | 7 | 7 | 7 | 9 | 9 | 14 | - | 2.12 | 2.12 | 2.12 | 2.12 | 2.68 | 2.68 | 4.30 | - | 18.13 | 5.98 |
| | 7 | 7 | 7 | 7 | 9 | 9 | 12 | - | 2.16 | 2.16 | 2.16 | 2.16 | 2.73 | 2.73 | 3.61 | - | 17.71 | 5.98 |
| | 7 | 7 | 7 | 7 | 9 | 9 | 9 | - | 2.27 | 2.27 | 2.27 | 2.27 | 2.87 | 2.87 | 2.87 | - | 17.68 | 5.56 |
| | 7 | 7 | 7 | 7 | 7 | 12 | 14 | - | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 3.52 | 4.26 | - | 18.31 | 5.98 |
| | 7 | 7 | 7 | 7 | 7 | 12 | 12 | - | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 3.58 | 3.58 | - | 17.89 | 5.98 |
| | 7 | 7 | 7 | 7 | 7 | 9 | 18 | - | 2.10 | 2.10 | 2.10 | 2.10 | 2.10 | 2.65 | 5.19 | - | 18.35 | 5.98 |
| | 7 | 7 | 7 | 7 | 7 | 9 | 14 | - | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.71 | 4.36 | - | 17.82 | 5.98 |
| | 7 | 7 | 7 | 7 | 7 | 9 | 12 | - | 2.26 | 2.26 | 2.26 | 2.26 | 2.26 | 2.85 | 3.78 | - | 17.93 | 5.70 |
| | 7 | 7 | 7 | 7 | 7 | 9 | 9 | - | 2.29 | 2.29 | 2.29 | 2.29 | 2.29 | 2.89 | 2.89 | - | 17.26 | 5.32 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 18 | - | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 5.26 | - | 18.04 | 5.98 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 14 | - | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 | 4.56 | - | 18.08 | 5.70 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 12 | - | 2.28 | 2.28 | 2.28 | 2.28 | 2.28 | 2.28 | 3.81 | - | 17.50 | 5.43 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 9 | - | 2.35 | 2.35 | 2.35 | 2.35 | 2.35 | 2.35 | 2.96 | - | 17.06 | 5.16 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | - | 2.36 | 2.36 | 2.36 | 2.36 | 2.36 | 2.36 | 2.36 | - | 16.52 | 5.08 |
| 8 Room | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 9 | 2.09 | 2.09 | 2.09 | 2.09 | 2.09 | 2.64 | 2.64 | 2.64 | 18.40 | 5.98 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.12 | 2.68 | 2.68 | 18.10 | 5.98 |
| | 7 | 7 | 7 | 7 | 7 | 9 | 9 | 12 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 2.11 | 3.52 | 18.28 | 5.98 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 9 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.72 | 17.79 | 5.98 |
| | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 7 | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 | 18.04 | 5.70 |

Note: •Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature)
•Pipe Length: 5 m (Outdoor unit to Branch box), 3 m (Branch box to Indoor unit)
•Height difference: 0 m (Outdoor unit to Indoor unit)
•The values in this table should be used only as a guide. These values are calculated at standard conditions.
To fix your selection of models, select them according to "Model Selection" in the D&T manual.

# Feature Explanation & Summary

| Type | | | Wall Mounted | | | Wall Mounted | | Cassette | | | Duct | | | | | | Floor | Floor/ Ceiling | Ceiling |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Series | | | Designer Range | Standard Range | Designer Range | Standard Range | | Compact 4-way Flow Grid type | Compact 4-way Flow | 4-way Flow | Mini (With drain pump) | | Slim (With drain pump) | | Medium Static Pressure | | | | |
| Model No. | | | ASYG 07/09/12/14 KGTB | ASYG 07/09/12/14 KMTB | ASYG 07/09/12/14 LUCA | ASYG 07/09/12/14 LMCE | ASYG 18LFCA, ASYG 24LFCC | AUXG 07/09/12/ 14/18/22/24 KVLA | AUYG 07/09/ 12/14/18 LVLB, AUYG 22/24LVLA | AUYG 30/36LRLE, AUYG 36/45LRLA | ARXG 07/09/12/14 KSLAP | ARYG 07/09/ 12/14/18 LSLAP | ARXG 07/09/ 12/14/18 KLLAP | ARYG 07/09/ 12/14/18 LLTB | ARXG 22/24KMLA | ARYG 22/24/36/45 LMLA, ARYG 30/36LMLE | AGYG 09/12/14 LVCA | ABYG 14/18LVTB, ABYG 22/24LVTA | ABYG 30/36LRTE, ABYG 36/45LRTA |
| Refrigerant | | | R32 | R32 | R410A | R410A | | R32 | R410A | | R32 | R410A | R32 | R410A | R32 | R410A | | R410A | |
| Energy Saving Function | Save human sensor | Human sensor detects the movement of people in the room and judges whether the energy saving operation. | ● | | | | | | | | | | | | | | | | |
| | Economy mode | Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating. | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Room temperature set point limitation | The minimum and maximum temperature range can be set giving further energy saving while considering the comfort of the occupants. | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Set temperature auto return | The setting temperature automatically returns to the previously set temperature. | ○ | ○ | ○ | ○ | ○ | ● | ○ | ○ | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Comfortable Function | Power diffuser | An additional louver that opens based on monitoring sensors to quickly enhance immediate comfort needs | | | | ● | ● | | | | | | | | | | | | |
| | Powerful mode | Operation at maximum air flow and compressor speed, and quickly makes the room comfortable. | ● | ● | ● | ● | | | | | | | | | | | | | |
| | 10°C HEAT operation | The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied. | ● | ● | ● | ● | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ● | ● |
| | Low noise mode | Sound noise level of outdoor unit can be selected. | ● | ● | ● | ● | | | | | | | | | | ○ (45)(36LMLA) | | | ○ (45/54) (36LRTA) |
| | Auto-changeover | The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature. | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Up/down swing flaps | The up/down flaps automatically swing up and down. | ● | ● | ● | ● | | ● | ● | ● | ○ | ○ | ○ | ○ | | | ● | | |
| | Double swing automatic | Complex swing action of flaps enables automatically to swing both horizontal and vertical directions. | | | | | ● | | | | | | | | | | | ● | ● |
| | Automatic fan speed | The micro-computer automatically adjusts the airflow effectively to follow the changes of room temperature. | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Auto restart | In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once power supply is restored. | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Connectable fresh air duct | Outside air can be introduced by attaching Locally purchased duct to fresh air knockout and optional part. | | | | | | | ○ | ● | | | | | ● | ● | | | ● |
| | Fresh air intake | Fresh air can be taken in by a fan which can be connected using external control unit. | | | | | | | ○ | ○ | | | ○ | ○ | ○ | ○ | | | ○ |
| | Connectable distributing duct | Systems are capable of attaching Locally purchased branch ducts distributing the airflow. | | | | | | | | | | | | | ● | ● | | | |
| Convenient Function | Auto off timer | Automatically stops operation when a fixed time has elapsed from the start of operation. | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Sleep timer | The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep. | ● | ● | ● | ● | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ● | ● |
| | Program timer | This digital timer allows selection of one of four options: ON, OFF, ON » OFF or OFF » ON. | ● | ● | ● | ● | ● | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ● | ● |
| | Weekly timer | Different ON-OFF times can be set for each day. | ● | ○ | ● | | | | | | ● | ● | | | | | | | |
| | Weekly + setback timer | Weekly + Setback timer can set temperature for two times spans and for each day of the week. | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | | | ● | ● | ● | ● | ○ | ○ | ○ |
| | Filter sign | Indicates the filter cleaning period by lamp. | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | External error output | | ○ | ○ | ○ | ○ | ○ | | | | ○ | ○ | | | | | | | |
| | External ON/OFF input | | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ● | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | Wireless LAN control | The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside. | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| Clean Function | Ion deodorization filter | The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic. | ○ | ○ | ● | ● | ● | | | | | | | | | | ● | | |
| | Apple-catechin filter | The Apple-catechin filter uses static electricity to clean fine particles and dust in the air. | ○ | ○ | ● | ● | ● | | | | | | | | | | ● | | |
| | Long life filter | | | | | | | | | | | | | | ○ | ○ | ● | | |
| | Washable panel | Since the front panel is easy to remove, maintenance is also easy. | | | | ● | ● | | | | | | | | | | | | |
| Installation | Drain pump as standard | | | | | | | ● | ● | ● | ● | ● | ● | ● | ○ | ○ | | | ○ |
| | Blue fin | | | | | | ● (30) | | | ● (45/54) | | | | | | ● (45) | | | ● (45) |

○ : Optional function

## Light Commercial & Commercial, Residential

# VRF

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AIRSTAGE™

## VRF Outdoor Units

**AIRSTAGE™ J-Series**
**Heat Pump for Small Capacity Type**

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188 AIRSTAGE™ J-III
190 AIRSTAGE™ J-IIS

**AIRSTAGE™ V-Series**
**Heat Recovery Modular Type**

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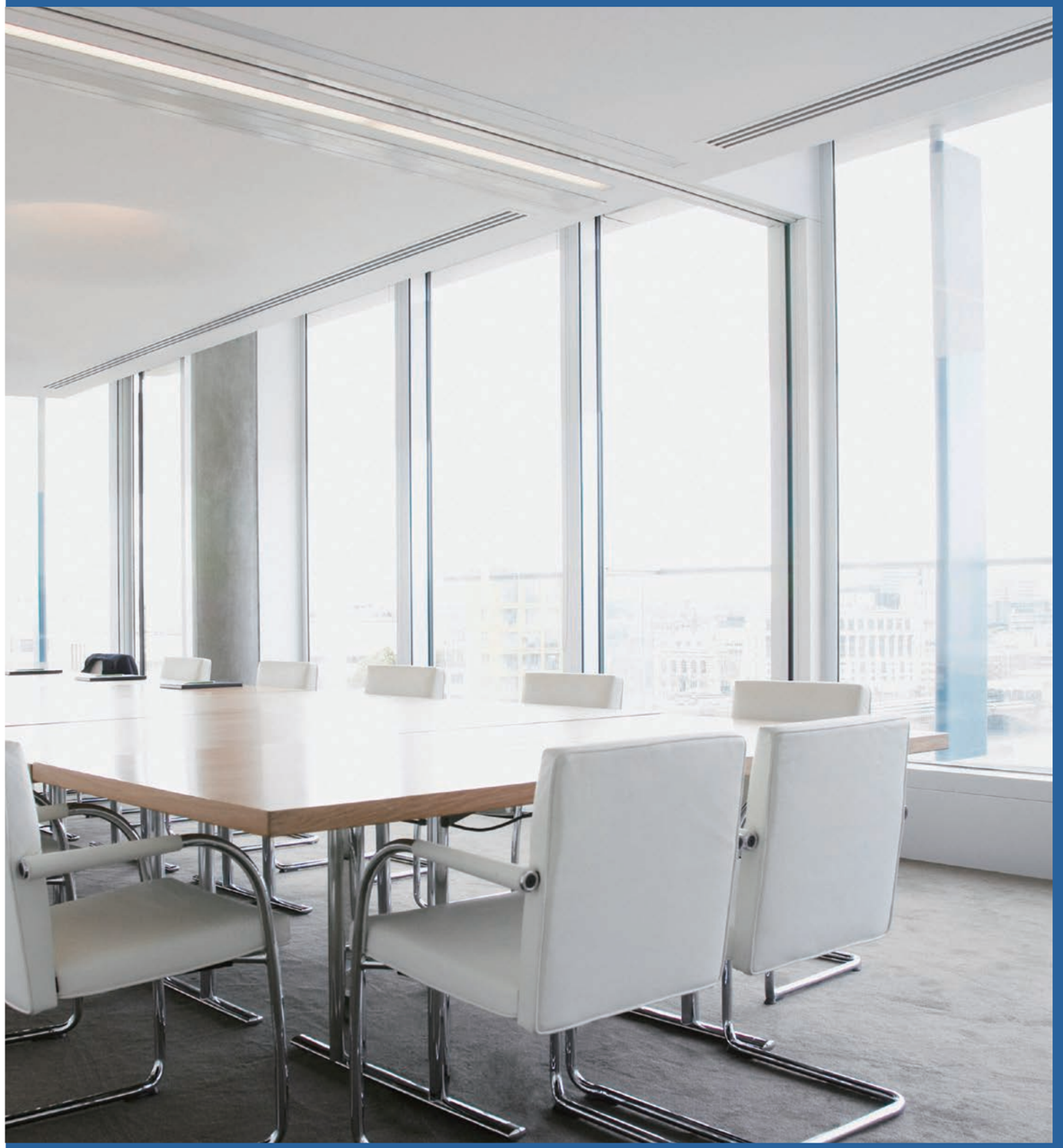
FUJITSU GENERAL (Euro) GmbH participates in the ECP programme for AIR CONDITIONERS. Check ongoing validity of certificate: www.eurovent-certification.com
* Models so marked are not ECC certified.



### AIRSTAGE™ VRF Systems can be designed to create an air conditioning solution to suit most buildings requirements.

AIRSTAGE™ VRF Systems can be designed to effectively provide an air conditioning solution from a large domestic residence through to a large scale commercial building.





# AIRSTAGE™ J-Series Overview

Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and hotels to large stores, houses.






## Max. 18 HP Heat Pump

### AIRSTAGE™ J-IIIL

J-IIIL is an outdoor unit with a slim design offering a high degree of freedom of installation that is recommended for mid-size office buildings and hotels. Furthermore, you can connect up to 42* indoor units with newly added 14/16/18 HP model. 14/16/18 HP model is also ideal for hospitals and educational facilities with many rooms.

*: 18 HP model

#### Slim Outdoor Unit

Although this is a 14/16/18 HP model that can handle slightly larger properties, it has a slim depth of 480 mm. This model can be introduced and installed even in limited spaces.

#### Small room application

Up to 30-42 indoor units can be connected by the optimum heat exchanger structure. Available to various small rooms.

#### Top Class Low Operating Sound

Top class low operating sound is realized. Highly suited to densely populated areas thanks to their low operating sound.



8-12 HP models



**New** 18 HP model & 14/16 models

## Max. 6 HP Heat Pump

### AIRSTAGE™ J-III

J-III improves the system with up to 13 indoor units. This model is suitable for small buildings that bring together small stores.

#### High Energy Efficiency

Heat pump inverter control is used to achieve an efficient cooling and heating operation in any indoor unit combination.

#### Flexible systems for small- and medium-size buildings air conditioning

Space saving design and long piping design allow flexible installations on the roofs or balconies of small and medium-size buildings. Multiple indoor units of various capacities and types can be connected.



## Max. 6 HP Heat Pump, Compact Design

### AIRSTAGE™ J-IIS

J-IIS has a compact design with a height of 998 mm that does not obstruct visibility even when installed near waist-high windows. This model is also ideal for large houses, retail stores and other properties.

#### Space saving and low sound level design

Economical individual air conditioning is realized by ALL-DC technology, large capacity DC twin rotary compressor, and 3-row heat exchanger though the size is compact.

#### Flexible systems for homes, shops, small-size buildings air conditioning

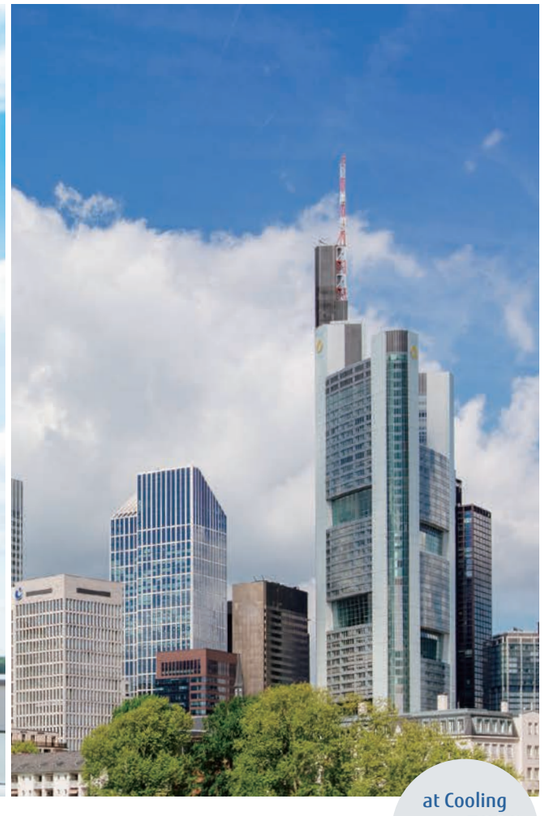
Due to compact size design and flexible piping design, J-IIS series can be installed easily at the place where the installation space is limited such as homes, shops, and small offices. Multiple indoor units of various capacities and types can be connected.



# AIRSTAGE™ V-Series Overview

AIRSTAGE™ V-Series Systems can be designed to effectively provide an air conditioning solution from a large domestic residence through to a large scale commercial building.



at Cooling
Up to 52°C
outdoor temperature

## Max. 48 HP Heat Recovery
AIRSTAGE™ VR-II

Smart and cutting-edge design.
Extensive lineup from 8 HP to 48 HP in 2 HP increment.
Connectable indoor unit capacity ratio up to 150%

### Simultaneous cooling and heating operation using 1 refrigerant system

Cooling and heating can be freely selected for each indoor unit to provide simultaneous cooling and heating in rooms with large temperature differences.

### Annual cooling operation

Use annual cooling operation for the rooms and other spaces that require constant temperature control throughout the year.

### Handles changes in the temperature difference

The operation mode can be freely changed when there are large temperature differences during the day, such as between seasons.

## Max. 54 HP Heat Pump
AIRSTAGE™ V-III

Smart and cutting-edge design.
Extensive lineup from 8 HP to 54 HP in 2 HP increment.
Connectable indoor unit capacity ratio up to 150%

### Excellent energy saving

Heat pump inverter type realizes the highly energy saving air conditioning for individual cooling and heating operation by all inverter technology for seasonal efficiency.

### High design flexibility for various building air conditioning

High design flexibly meets the various needs of high-rise building air conditioning such as outdoor unit roof top concentrated installation and each floor installation by large capacity combination, sufficient connection capacity, and high static pressure design.

### Easy installation and maintenance

The flexible communication method and piping connections make installation and maintenance easy even for large systems.

## Max. 54 HP Heat Pump
AIRSTAGE™ V-III

Fujitsu General tropical VRF is designed for tropical weather. Extensive lineup from 8 HP to 54 HP in 2 HP increment. Connectable indoor unit capacity ratio up to 130%

### High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature

### Powerful cooling capacity design

Keeping high cooling power at even high ambient temperature

### Anti-corrosion treatment design

All metallic and PCB components are protected against corrosion

TROPICAL SPEC

## Energy saving technology that boosted operation efficiency




**1 Powerful large propeller fan**
By using CFD*1 technology, a newly designed fan achieves high performance and low noise operation.
*1. CFD = Computational Fluid Dynamics



**2 3 phase DC fan motor**
Efficiency is substantially improved by high efficient motor with sophisticated driver control. In addition, low noise is realized by DC fan motor.



**3 Sine-wave DC inverter control**
High efficiency is realized by adoption of reduced switching loss IPM.



**4 4-face heat exchanger**
Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.



**5 Subcool heat exchanger**
High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.



**6 High efficient and large capacity DC inverter compressor**
Large capacity high efficient DC twin rotary compressor with excellent intermediate capability.



**7 Front intake port (Corner cut air inlet structure)**
In multiple outdoor unit installations, the unique front intake design improves airflow into the Heat Exchanger.

# VRF Outdoor Units Lineup

| Capacity (kW) | | 12.1 | 14.0 | 15.1-15.5 | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.4 | 55.9 | 61.5 | 67.0 | 73.5 | 78.5 | 85.0 | 90.0 | 95.0 | 100.5 | 107.0 | 112.0 | 118.5 | 123.5 | 130.0 | 135.0 | 140.0 | 145.0 | 150.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| HP | | 4 | 5 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 |
| J-IIIL Series | | | | | AJY072 LELAH | AJY090 LELAH | AJY108 LELAH | AJY126 LELAH | AJY144 LELAH | NEW AJY162 LELAH | | | | | | | | | | | | | | | | | | |
| J-III Series | | AJY040 LBLAH, AJY040 LELAH | AJY040 LBLAH, AJY040 LELAH | AJY054 LBLAH, AJY054 LELAH | | | | | | | | | | | | | | | | | | | | | | | | |
| J-IIS Series | | AJY040 LCLAH | AJY045 LCLAH | AJY054 LCLAH | | | | | | | | | | | | | | | | | | | | | | | | |
| VR-II Series Heat Recovery | Space Saving Set Model | | | | AJYA72 GALH | AJYA90 GALH | AJY108 GALH | AJY126 GALH | AJY144 GALH | AJY162 GALH | AJY180 GALH | AJY198 GALH | AJY216 GALH | AJY234 GALH | AJY252 GALH | AJY270 GALH | AJY288 GALH | AJY306 GALH | AJY324 GALH | AJY342 GALH | AJY360 GALH | AJY378 GALH | AJY396 GALH | AJY414 GALH | AJY432 GALH | | | |
| | Energy Efficiency Set Model | | | | | | | | AJY144 GALHH | | | AJY198 GALHH | AJY216 GALHH | AJY234 GALHH | AJY252 GALHH | AJY270 GALHH | AJY288 GALHH | AJY306 GALHH | AJY324 GALHH | AJY342 GALHH | AJY360 GALHH | AJY378 GALHH | AJY396 GALHH | | | | | |
| V-III Series Heat Pump | Space Saving Set Model | | | | AJY072 LALBH | AJY090 LALBH | AJY108 LALBH | AJY126 LALBH | AJY144 LALBH | AJY162 LALBH | AJY180 LALBH | AJY198 LALBH | AJY216 LALBH | AJY234 LALBH | AJY252 LALBH | AJY270 LALBH | AJY288 LALBH | AJY306 LALBH | AJY324 LALBH | AJY342 LALBH | AJY360 LALBH | AJY378 LALBH | AJY396 LALBH | AJY414 LALBH | AJY432 LALBH | AJY450 LALBH | AJY468 LALBH | AJY486 LALBH |
| | Energy Efficiency Set Model | | | | | | | | AJY144 LALBHH | AJY162 LALBHH | AJY180 LALBHH | | AJY216 LALBHH | AJY234 LALBHH | AJY252 LALBHH | AJY270 LALBHH | AJY288 LALBHH | AJY306 LALBHH | AJY324 LALBHH | AJY342 LALBHH | AJY360 LALBHH | AJY378 LALBHH | AJY396 LALBHH | AJY414 LALBHH | | | | |
| V-III Tropical Series Heat Pump | Space Saving Set Model | | | | AJY072 LNLBH | AJY090 LNLBH | AJY108 LNLBH | AJY126 LNLBH | AJY144 LNLBH | AJY162 LNLBH | AJY180 LNLBH | AJY198 LNLBH | AJY216 LNLBH | AJY234 LNLBH | AJY252 LNLBH | AJY270 LNLBH | AJY288 LNLBH | AJY306 LNLBH | AJY324 LNLBH | AJY342 LNLBH | AJY360 LNLBH | AJY378 LNLBH | AJY396 LNLBH | AJY414 LNLBH | AJY432 LNLBH | AJY450 LNLBH | AJY468 LNLBH | AJY486 LNLBH |
| | Energy Efficiency Set Model | | | | | | | | AJY144 LNLBHH | AJY162 LNLBHH | AJY180 LNLBHH | | AJY216 LNLBHH | AJY234 LNLBHH | AJY252 LNLBLHH | AJY270 LNLBHH | AJY288 LNLBHH | AJY306 LNLBHH | AJY324 LNLBHH | AJY342 LNLBHH | AJY360 LNLBHH | AJY378 LNLBHH | AJY396 LNLBHH | AJY414 LNLBHH | | | | |

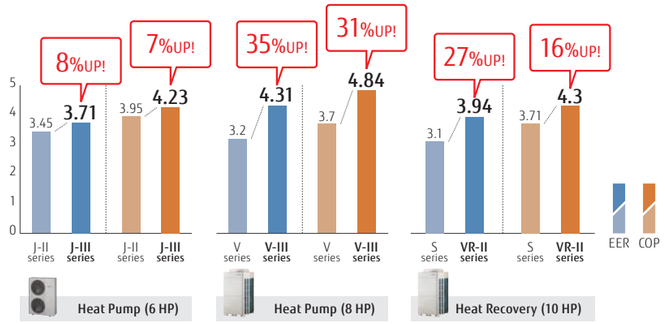
# Feature

## **High** Efficiency

Efficiency is improved significantly by using DC twin rotary compressor, inverter technology, and large heat exchanger



DC twin rotary compressor




**High efficiency design with top class SEER/SCOP**

All VRF series including J-IIIL series have DC technology to realize the high efficiency operation. This enhances the durability and reliability of VRF series.



J-IIIL series



J-III series



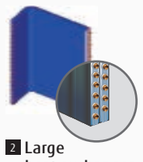
J-IIS series



1 DC fan motor



3 DC invertor control



2 Large heat exchanger



4 Subcool heat exchanger



V-Series



1 3 phase DC fan motor



3 Sine-wave DC invertor control



2 Large heat exchanger



4 Subcool heat exchanger

## **Energy** Saving Function

### Economy operation

Economy operation can be set by remote controller. The temperature setting is offset automatically over a certain period of time.

### Room temperature set point limitation

The minimum and maximum temperature ranges can be limited, which provide further energy saving while maintaining the comfort of the occupants.

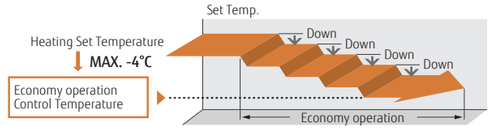
### Auto-off timer

- The indoor unit automatically is turned off when it reaches to the preset operating time frame.
- The time frame of the "Auto off timer" can be flexibly scheduled.

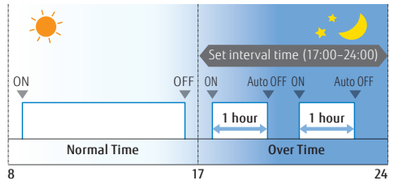
### Capacity save operation

Operation capacity can be set in 5 steps for rated capability. The power consumption at peak is cut down and the maximum load is suppressed.

Room temperature set point limitation




Auto-off timer




## **More** Comfort

### Precision refrigerant flow control

Precise and smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows high precision comfortable temperature control of ±0.5°C.

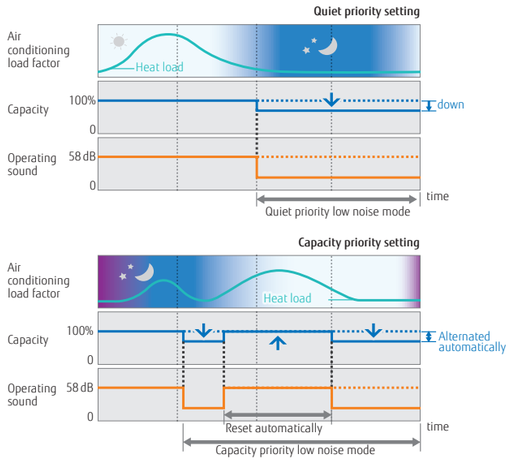
### Auto changeover function

At Auto setting, the cooling/heating mode is automatically switched according to the set temperature and room temperature.

### Quiet operation

Two low noise modes can be selected automatically by quiet priority setting and capacity priority setting depending on the indoor environment and outside temperature load. This feature can be controlled via outdoor unit external input and/or system controller.

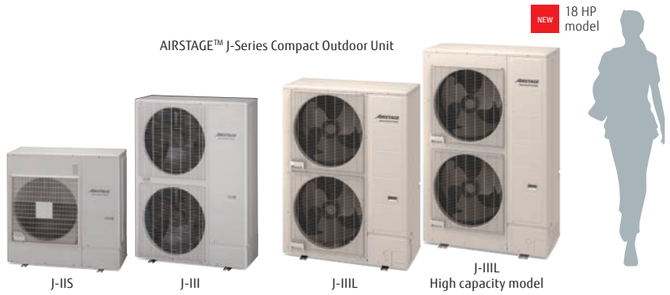
Quiet operation



# **Design** Flexibility

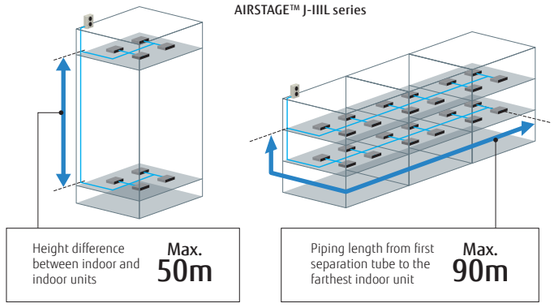
## Top class Compact design

Compact outdoor unit can be attained at the top class in the industry by optimal airflow structure design. (Up to 18 HP)



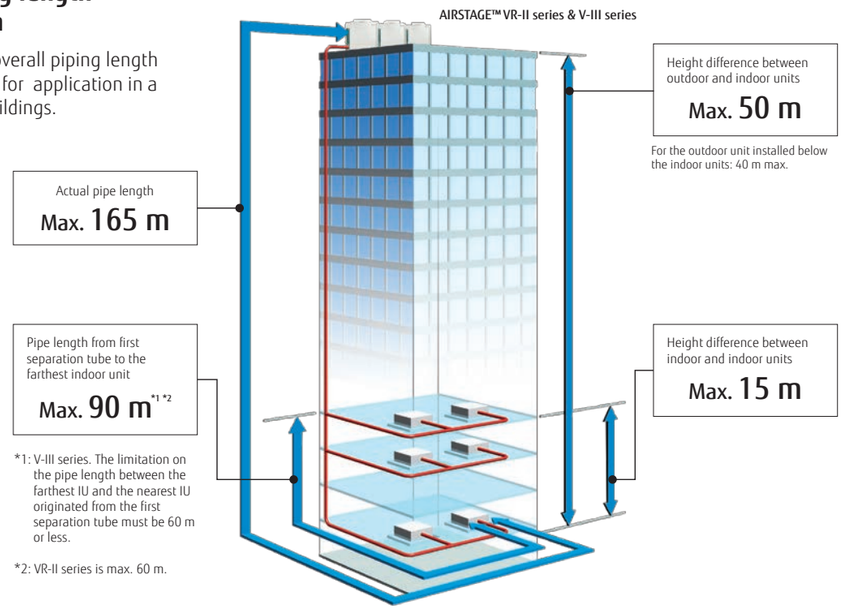

## Long piping design

Piping design suitable for long, narrow office buildings with a difference in height and low-rise shops with depth
(AIRSTAGE™ J-IIIL series)




## Overall piping length Max. 1,000 m

World's top class overall piping length of 1,000 m allows for application in a wide variety of buildings.




*1: V-III series. The limitation on the pipe length between the farthest IU and the nearest IU originated from the first separation tube must be 60 m or less.

*2: VR-II series is max. 60 m.

## High capacity connection

| Series | | Connectable indoor unit capacity range | Connectable indoor unit number |
|---|---|---|---|
| NEW | AIRSTAGE™ J-IIIL series 14/16/18 HP Heat Pump type | 50% to 150%*3 | up to 42*5 |
| | AIRSTAGE™ J-IIIL series 8/10/12 HP Heat Pump type | 50% to 150%*3 | up to 30*6 |
| | AIRSTAGE™ J-III series Heat Pump type | 50% to 150%*3 | up to 13*7 |
| | AIRSTAGE™ J-IIS series Heat Pump type | 50% to 130%*3 | up to 8 |
| | AIRSTAGE™ VR-II series Heat Recovery Modular type | 50% to 150%*3 | up to 64 |
| | AIRSTAGE™ V-III series Heat Pump Modular type | 50% to 150%*4 | up to 64 |

*3: Conditions of maximum connectable indoor unit capacity ratio is as the chart.

*4: Max. capacities in the combinations including the 18 HP outdoor unit fall below 150%.

*5: J-IIIL series 18 HP model only.

*6: J-IIIL series 12 HP model only.

*7: J-III series 6 HP model only.

## Designed for low refrigerant charge

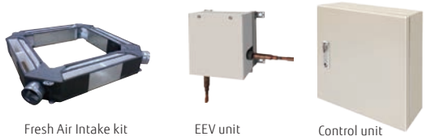
Optimal design of indoor unit and outdoor unit reduces the refrigerant volume and special support is not required even when installing in a small room of about 15 m².




## Various optional parts

- Intake fresh air with our Fresh Air Intake kit
- Comfortable temperature control with a remote sensor
- Operation by linking up to ventilation equipment and air handling unit with the DX-Kit





Fresh Air Intake kit | EEV unit | Control unit

## Low ambient operation

Refrigeration cycle technology allows cooling operation even at -15°C.

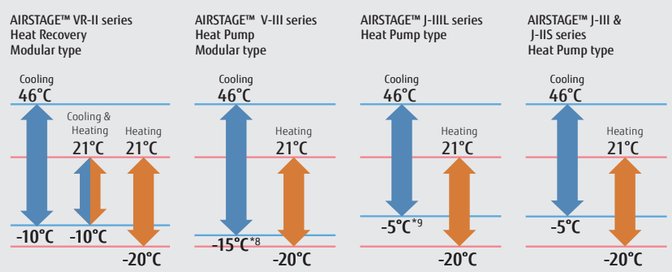


## Wide operating range

Installation in extreme temperature conditions is possible due to an increase in operational range.

*8: Note: When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.

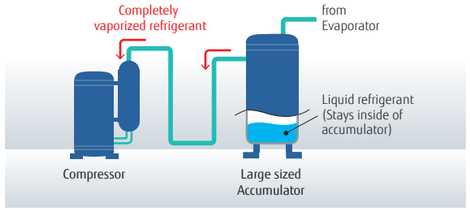
*9: Only when all indoor units are 5.6 kW or more in the system, the operation range is -15°C to 46°C.



# **High** Reliability

## Liquid flow back protection

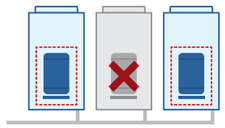
By adopting a large sized accumulator, not completely vaporised refrigerant stays inside of the accumulator to ensure no liquid refrigerant is being fed into the compressor.





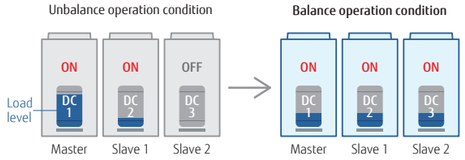

## Backup operation

If one compressor fails, backup operation will be performed by the remaining compressors.*1



## Advanced refrigerant control

Innovative compressor control logic has been introduced in order to balance the refrigerant mass flow rate of each outdoor unit by controlling the inverter speed.

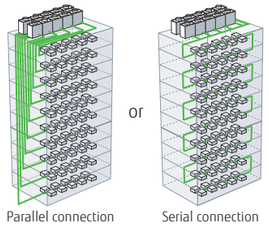



*1: Note: Backup operation may not be possible depending on the trouble state.

# **Easy** Installation

## Simple wiring work

Installation of the wiring systems is made easier as the communication wiring can be installed continuously between the indoor, outdoor and RB units.

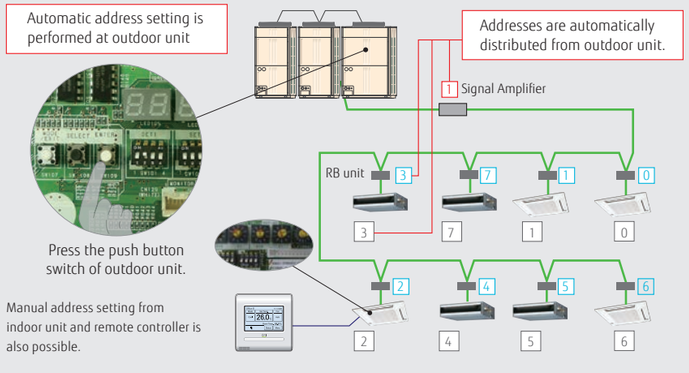



Up to maximum length
3,600 m

Note: Serial connection can't use the automatic address setting in a multiple refrigerant system.

## Automatic address setting

The address of the indoor unit, RB unit and signal amplifier through the automatic function setting on the outdoor unit PCB.






# **Easy** Service & Maintenance

## Design for easy maintenance

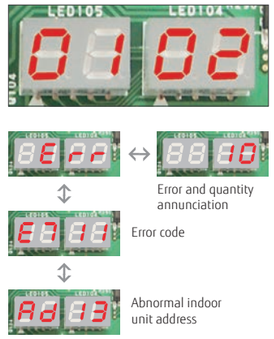
### Easy to read 7-segment LED

Confirm detailed operational and error status without using any specific equipment.
- Operation mode status
- Discharge temperature/Pressure status
- Compressor operation indication
- Address/type/number of outdoor unit

### Movable PCB panel

Easier for maintenance work behind the PCB

7-segment LED



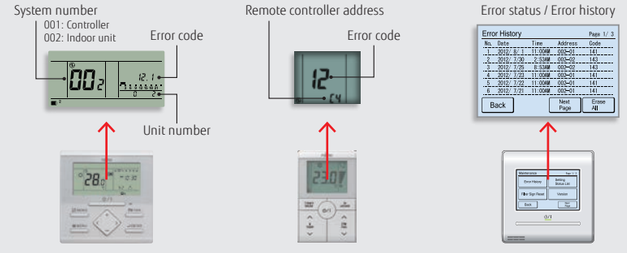

- Error status can be checked easily by outdoor unit display



### Error status can be checked easily via the indoor unit wired controller

An error code is displayed on a liquid crystal screen.

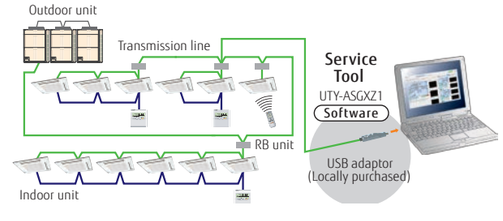
| Wired Remote Controller | Simple Remote Controller | Wired Remote Controller (Touch panel) |
|---|---|---|
| System number<br>001: Controller<br>002: Indoor unit<br>Error code<br>Unit number | Remote controller address<br>Error code | Error status / Error history |



## Error diagnosis by Service Tool

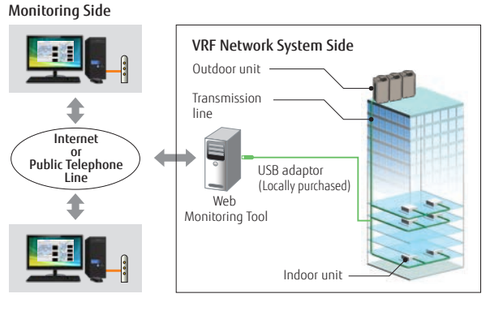
### Connection to Service Tool

- Detail operation status and recent error history can be checked and analyzed by using the Service Tool.
- Last 5 min. operation memory can be also be recorded.




## Remote monitoring

The Web Monitoring system allows you to view system operation anytime over the internet, ensuring issue free operation.
The operating VRF network system in the building can be monitored real time over the Internet.





Fujitsu General provides perfect total air conditioning systems that take into account energy saving, low noise, comfortable airflow, small room application and centralized control for small-sized office buildings with many small rooms.

AIRSTAGE™ J-IIIL

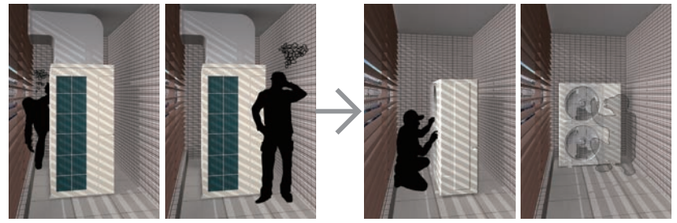
Image: 8/10/12 HP models

## Slim & Compact Design




# **Various** Installation





AIRSTAGE™ V-Series outdoor unit

AIRSTAGE™ J-Series outdoor unit

### In house installation

## Low noise in consideration for the nearby residents

This model is front blow type and about 1000 mm wide, so flexible installation is possible even at narrow in house space.





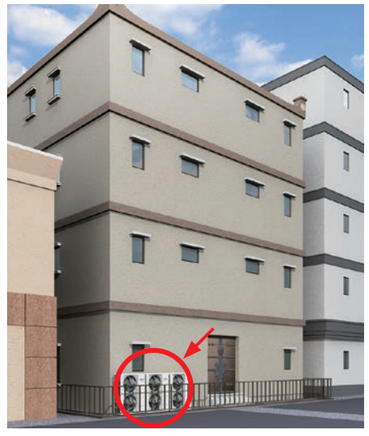
AIRSTAGE™ V-Series outdoor unit

AIRSTAGE™ J-Series outdoor unit

### Narrow space behind building

## Space saving

Due to compact and thin model, direct ground installation or wall mounted installation is possible even at narrow off-street.





AIRSTAGE™ V-Series outdoor unit

AIRSTAGE™ J-Series outdoor unit

### Installation at back street of building

## Flexible installation

This model is front blow type and slim & low body, so installation space is compact. Building windows are not blocked and space saving multiple units installation is possible.

NEW

# Heat Pump

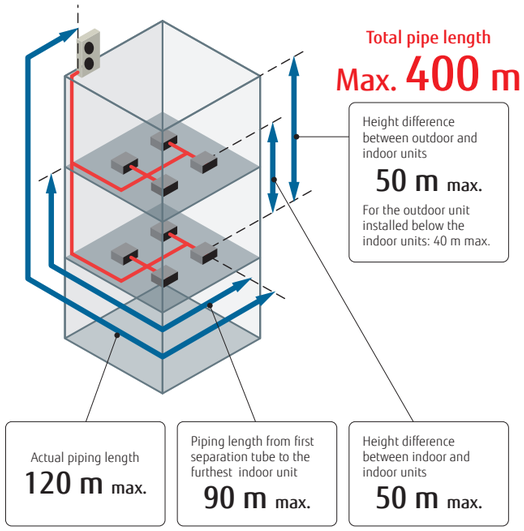
## for Small Capacity Type



AIRSTAGE™ J-IIIL

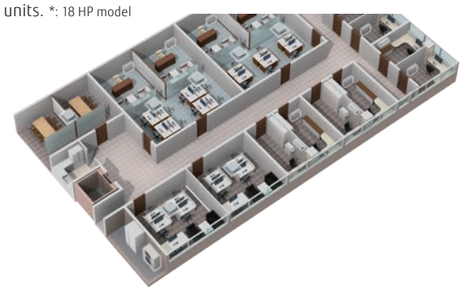
## Long piping length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 400 m. This opens up new possibilities in system design.




## Up to 42 units* can be connected

The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 42 units. *: 18 HP model



## High Static Pressure

External static pressure is available up to 60Pa for 14/16/18HP. (20Pa for 8HP, 30Pa for 10/12HP)




## Top Class Low Operating Sound

Top class low operating sound is realized. Highly suited to densely populated areas thanks to their low operating sound.

**Sound Power Level**

66 dB(A)



J-IIIL (8 HP)

77 dB(A)

−11 dB(A)



Current model (8 HP)



AIRSTAGE™ J-IIIL

**8,10,12 HP: AJY072LELAH / AJY090LELAH / AJY108LELAH**
**14,16,18 HP: AJY126LELAH / AJY144LELAH / AJY162LELAH**



8, 10, 12 HP



14, 16, 18 HP

NEW

18 HP model

### Specifications

NEW

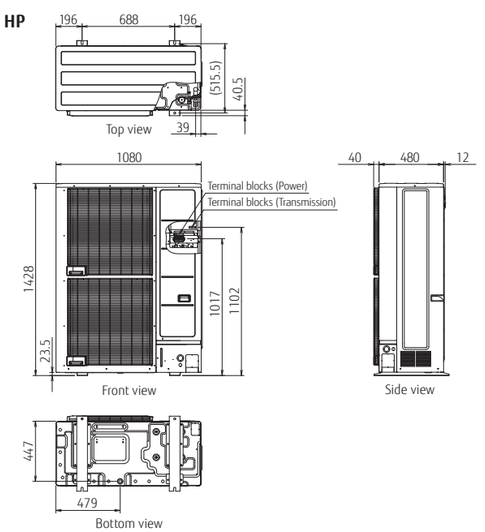
| Rating Capacity range | | HP | 8 | 10 | 12 | 14 | 16 | 18 |
|---|---|---|---|---|---|---|---|---|
| Model name | | | AJY072LELAH | AJY090LELAH | AJY108LELAH | AJY126LELAH | AJY144LELAH | AJY162LELAH |
| Maximum Connectable Indoor Unit | | | 1-20 | 1-25 | 1-30 | 1-36 | 1-40 | 1-42 |
| Power source | | | 3 phase, ~400V, 50Hz | | | | | |
| Capacity | Cooling | kW | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.0 |
| | Nominal Heating | | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.0 |
| | Max Heating | | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 55.0 |
| Input power | Cooling | kW | 6.30 | 8.59 | 10.42 | 12.12 | 14.96 | 18.52 |
| | Nominal Heating | | 4.65 | 6.61 | 8.18 | 9.71 | 11.81 | 13.66 |
| | Max Heating | | 5.45 | 8.29 | 10.25 | 11.80 | 14.29 | 16.66 |
| EER | Cooling | W/W | 3.56 | 3.26 | 3.22 | 3.30 | 3.01 | 2.70 |
| COP | Nominal Heating | | 4.82 | 4.24 | 4.10 | 4.12 | 3.81 | 3.66 |
| | Max Heating | | 4.56 | 3.80 | 3.66 | 3.81 | 3.50 | 3.30 |
| Airflow rate | | $m^3/h$ | 8,400 | 9,000 | 11,000 | 13,000 | 14,000 | 14,800/15,300 |
| Sound pressure level / Power level | Cooling | dB(A) | 52/66 | 54/69 | 59/73 | 62/75 | 64/77 | 65/79 |
| | Heating | | 54/— | 57/— | 61/— | 63/— | 65/— | 68/— |
| Net Dimensions | Height | mm | 1,428 | 1,428 | 1,428 | 1,638 | 1,638 | 1,638 |
| | Width | | 1,080 | 1,080 | 1,080 | 1,080 | 1,080 | 1,080 |
| | Depth | | 480 | 480 | 480 | 480 | 480 | 480 |
| Weight | | kg | 170 | 177 | 178 | 213 | 213 | 217 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg(CO2eq-T) | 7.0 (14.6) | 7.5 (15.7) | 7.5 (15.7) | 11.0 (22.9) | 11.0 (22.9) | 11.8 (24.6) |
| Connection pipe diameter | Liquid | mm | 9.52 | 9.52 | 12.70 | 12.70 | 12.70 | 12.70 |
| | Gas | | 19.05 | 22.20 | 28.58 | 28.58 | 28.58 | 28.58 |
| Total pipe length | | m | 400 | 400 | 400 | 400 | 400 | 400 |
| Max. height difference | | | 50/40 (Outdoor unit: Upper/Lower) | | | | | |
| Operation range | Cooling | °C | -15 to 46 | -15 to 46 | -15 to 46 | -5 to 46* | -5 to 46* | -5 to 46* |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.
* The cooling operation range of -15 to 46°C is allowed only when all of the indoor units connected to the system are higher than capacity of 5.6kW.

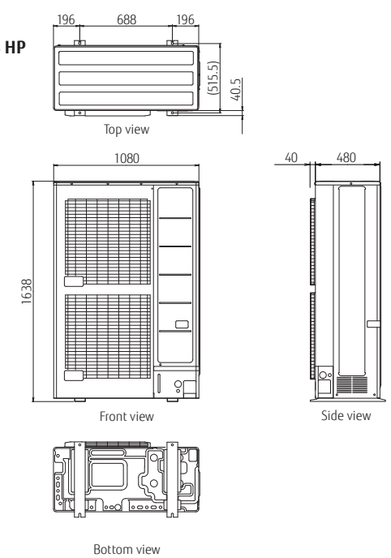
### Dimensions

(Unit : mm)

**8, 10, 12 HP**




**14, 16, 18 HP**



# Heat Pump

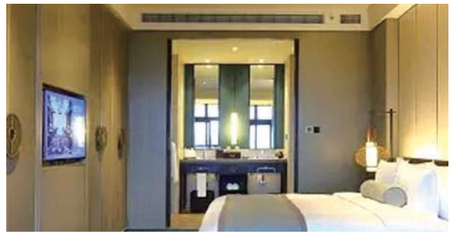
## for Small Capacity Type

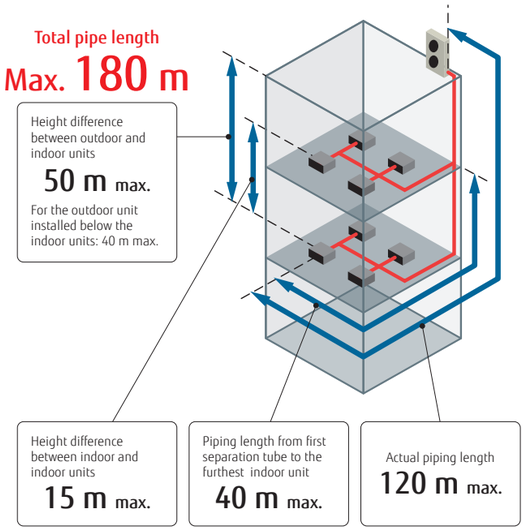


AIRSTAGE™ J-III

## Long piping length

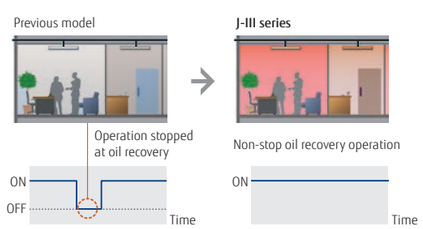
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 180 m. This opens up new possibilities in system design.





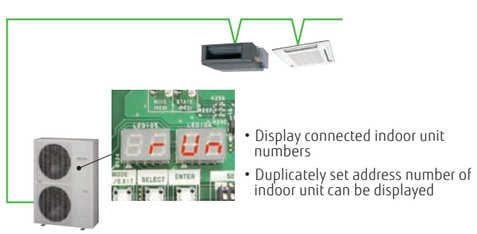

## Non-stop oil recovery operation

A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.




## Easier Installation

**Connection check function** : Possible to confirm whether wiring connection and address setting are correct by a quick check run function.






AIRSTAGE™ J-III

**4,5,6HP : AJY040LBLAH / AJY045LBLAH / AJY054LBLAH**
**AJY040LELAH [3phase] / AJY045LELAH [3phase] / AJY054LELAH [3phase]**



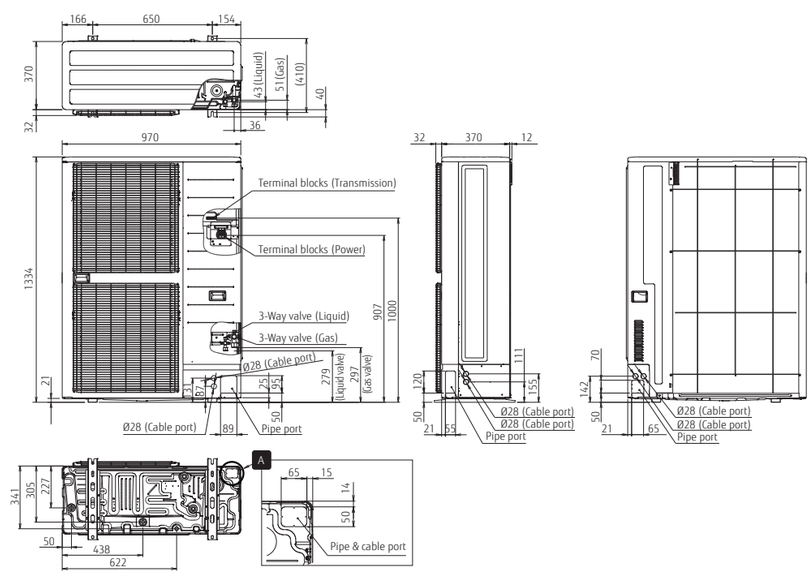
## Specifications

| Rating Capacity range | | HP | 4 | 5 | 6 | 4 | 5 | 6 |
|---|---|---|---|---|---|---|---|---|
| Model name | | | AJY040LBLAH | AJY045LBLAH | AJY054LBLAH | AJY040LELAH | AJY045LELAH | AJY054LELAH |
| Maximum Connectable Indoor Unit | | | 1-9 | 1-10 | 1-13 | 1-9 | 1-10 | 1-13 |
| Power source | | | Single-phase, ~230V, 50Hz | | | 3-phase, ~400V, 50Hz | | |
| Capacity | Cooling | kW | 12.1 | 14.0 | 15.5 | 12.1 | 14.0 | 15.5 |
| | Nominal Heating | | 12.1 | 14.0 | 15.5 | 12.1 | 14.0 | 15.5 |
| | Max Heating | | 13.6 | 16.0 | 18.0 | 13.6 | 16.0 | 18.0 |
| Input power | Cooling | kW | 2.90 | 3.57 | 4.18 | 2.79 | 3.46 | 3.99 |
| | Nominal Heating | | 2.30 | 2.83 | 3.28 | 2.23 | 2.71 | 3.14 |
| | Max Heating | | 2.80 | 3.55 | 4.26 | 2.71 | 3.40 | 4.08 |
| EER | Cooling | W/W | 4.17 | 3.92 | 3.71 | 4.33 | 4.05 | 3.88 |
| COP | Nominal Heating | | 5.27 | 4.96 | 4.74 | 5.44 | 5.17 | 4.94 |
| | Max Heating | | 4.86 | 4.51 | 4.23 | 5.01 | 4.70 | 4.41 |
| Airflow rate | | $m^3/h$ | 6,200 | 6,400 | 6,900 | 6,200 | 6,400 | 6,900 |
| Sound pressure level / Power level | Cooling | dB(A) | 50 / 66 | 51 / 67 | 53 / 69 | 50 / 66 | 51 / 67 | 53 / 69 |
| | Heating | | 52 / 68 | 53 / 69 | 55 / 71 | 52 / 68 | 53 / 69 | 55 / 71 |
| Heat exchanger fin | | | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| Net Dimensions | Height | mm | 1,334 | 1,334 | 1,334 | 1,334 | 1,334 | 1,334 |
| | Width | | 970 | 970 | 970 | 970 | 970 | 970 |
| | Depth | | 370 | 370 | 370 | 370 | 370 | 370 |
| Weight | | kg | 117 | 117 | 119 | 119 | 119 | 119 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg(CO2eq-T) | 4.8 (10.0) | 5.3 (11.1) | 5.3 (11.1) | 4.8 (10.0) | 5.3 (11.1) | 5.3 (11.1) |
| Connection pipe diameter | Liquid | mm | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 | 9.52 |
| | Gas | | 15.88 | 15.88 | 19.05 | 15.88 | 15.88 | 19.05 |
| Total pipe length | | m | 180 | 180 | 180 | 180 | 180 | 180 |
| Max. height difference | | | 50/40 (Outdoor unit: Upper/Lower) | | | 50/40 (Outdoor unit: Upper/Lower) | | |
| Operation range | Cooling | ˚C | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
Heating: Indoor temperature of 20°CDB/(15°CWB), and outdoor temperature of 7°CDB/6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.
The protective function may work when using it outside the operation range.

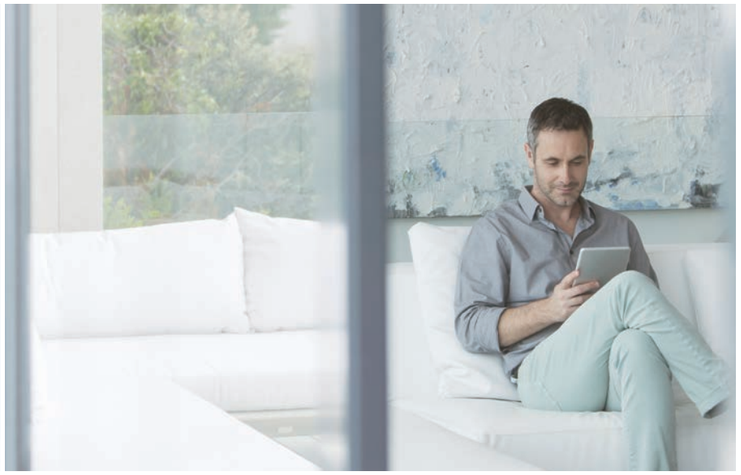
## Dimensions

(Unit : mm)



# Heat Pump

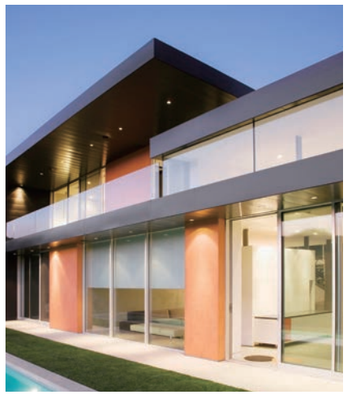
## for Small Capacity Type



AIRSTAGE™ J-IIS

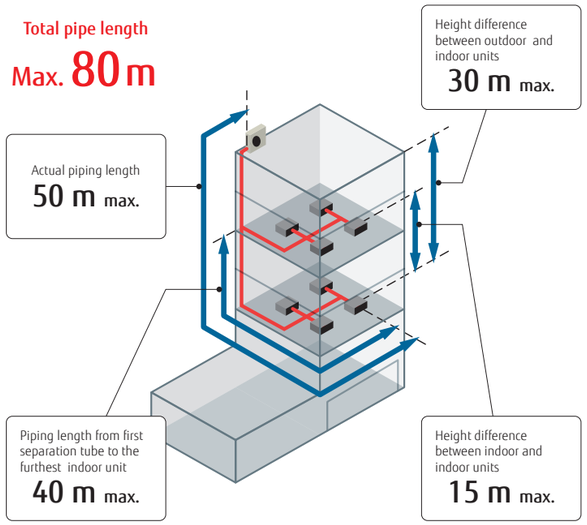
## Long piping length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 80 m. This opens up possibilities in system design.



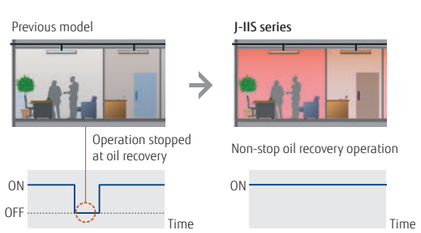
Total pipe length

Max. 80 m



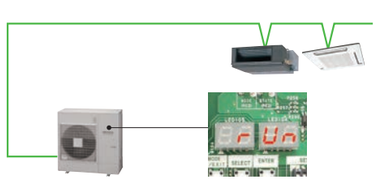

## Non-stop oil recovery operation

A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.




## Easier Installation

**Connection check function** : Possible to confirm whether wiring connection and address setting are correct by a quick check run function.



- Display connected indoor unit numbers
- Duplicately set address number of indoor unit can be displayed



AIRSTAGE™ J-IIS

**4,5,6HP : AJY040LCLAH / AJY045LCLAH / AJY054LCLAH**



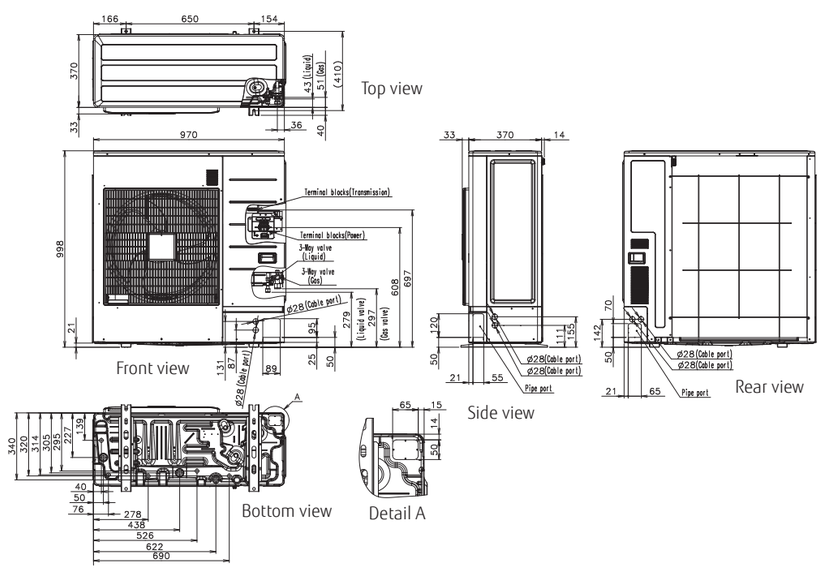
### Specifications

| Rating Capacity range | | HP | 4 | 5 | 6 |
|---|---|---|---|---|---|
| Model name | | | AJY040LCLAH | AJY045LCLAH | AJY054LCLAH |
| Maximum Connectable Indoor Unit | | | 7 | 8 | 8 |
| Power source | | | Single-phase, ~230V, 50Hz | | |
| Capacity | Cooling | kW | 12.1 | 14.0 | 15.1 |
| | Nominal Heating | | 12.1 | 14.0 | 15.1 |
| | Max Heating | | 13.6 | 16.0 | 16.5 |
| Input power | Cooling | kW | 3.44 | 4.43 | 5.03 |
| | Nominal Heating | | 2.51 | 3.11 | 3.52 |
| | Max Heating | | 3.09 | 3.93 | 4.11 |
| EER | Cooling | W/W | 3.52 | 3.16 | 3.00 |
| COP | Nominal Heating | | 4.83 | 4.51 | 4.30 |
| | Max Heating | | 4.40 | 4.07 | 4.01 |
| Airflow rate | | $m^3/h$ | 4,040 | 4,200 | 4,200 |
| Sound pressure level / Power level | Cooling | dB(A) | 51 / 67 | 53 / 69 | 54 / 70 |
| | Heating | | 54 / 68 | 55 / 69 | 56 / 70 |
| Heat exchanger fin | | | Blue fin | Blue fin | Blue fin |
| Net Dimensions | Height | mm | 998 | 998 | 998 |
| | Width | | 970 | 970 | 970 |
| | Depth | | 370 | 370 | 370 |
| Weight | | kg | 86 | 86 | 87 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg(CO2eq-T) | 4.0 (8.4) | 4.0 (8.4) | 4.0 (8.4) |
| Connection pipe diameter | Liquid | mm | 9.52 | 9.52 | 9.52 |
| | Gas | | 15.88 | 15.88 | 15.88 |
| Total pipe length | | m | 80 | 80 | 80 |
| Max. height difference | | | 30 | 30 | 30 |
| Operation range | Cooling | ˚C | -5 to 46 | -5 to 46 | -5 to 46 |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 |

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
The protective function may work when using it outside the operation range.

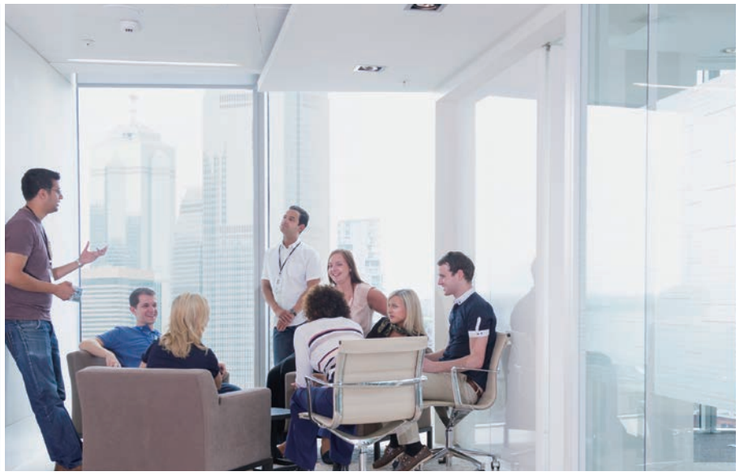
### Dimensions

(Unit : mm)



# Heat Recovery

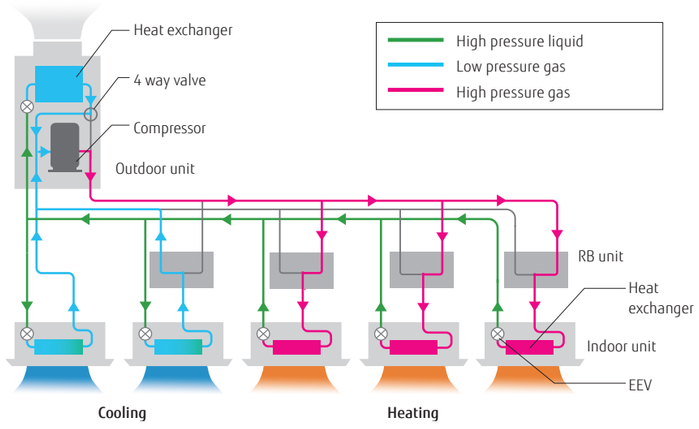
## Modular Type



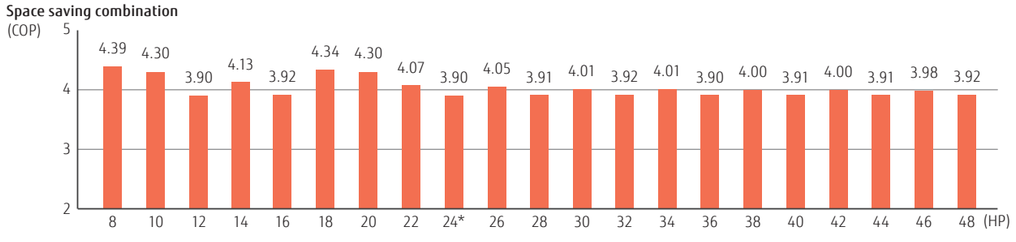
AIRSTAGE™ VR-II

## High Operating Energy Efficiency

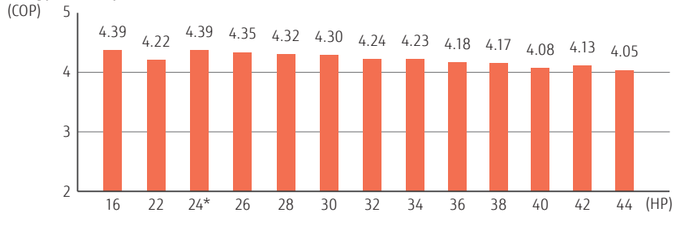
Our Heat recovery systems achieve high operating energy efficiency by drawing heat from the room to be cooled and transferring it as energy for rooms that are to be heated.



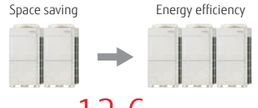

**Space saving combination**




**Energy efficiency combination**




**For 24HP Combination**




COP 12.6% UP





**8,10,12HP : AJYA72GALH / AJYA90GALH / AJY108GALH**
**14,16HP : AJY126GALH / AJY144GALH**

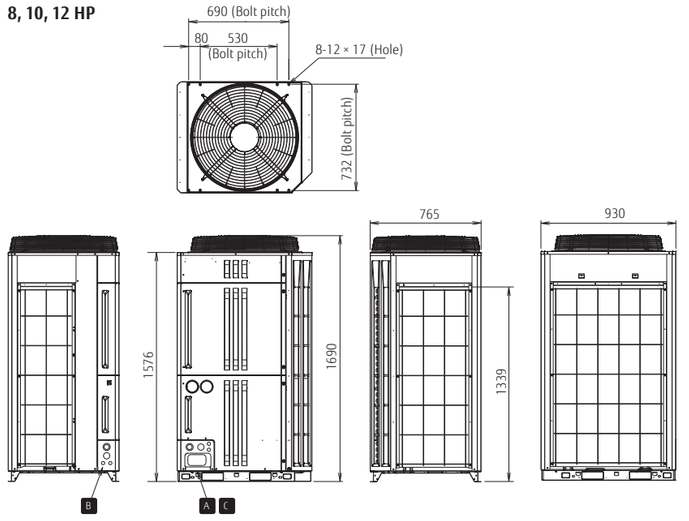


8, 10, 12 HP　　14, 16 HP

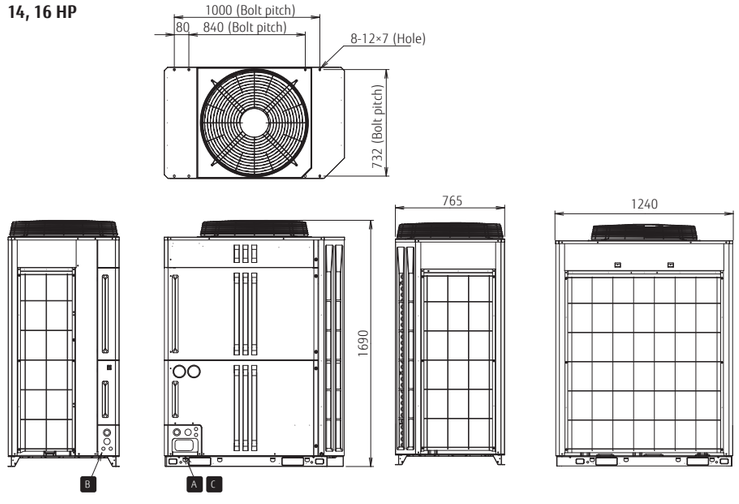
## Dimensions

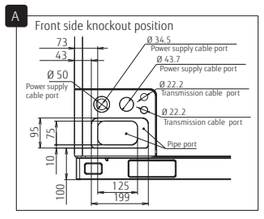
(Unit : mm)

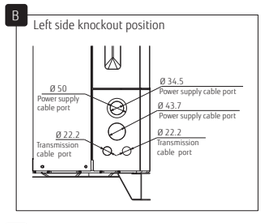
**8, 10, 12 HP**

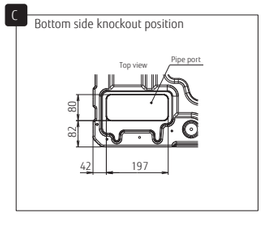



**14, 16 HP**



## Outdoor units specifications

### Space Saving Combination

| Rating Capacity range | | HP | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Set Model name | | | AJYA72GALH | AJYA90GALH | AJY108GALH | AJY126GALH | AJY144GALH | AJY162GALH | AJY180GALH | AJY198GALH | AJY216GALH | AJY234GALH | AJY252GALH | AJY270GALH | AJY288GALH | AJY306GALH | AJY324GALH | AJY342GALH | AJY360GALH | AJY378GALH | AJY396GALH | AJY414GALH | AJY432GALH |
| Unit 1 | | | AJYA72GALH | AJYA90GALH | AJY108GALH | AJY126GALH | AJY144GALH | AJYA90GALH<br>AJYA72GALH | AJYA90GALH<br>AJYA90GALH | AJY108GALH<br>AJYA90GALH | AJY108GALH<br>AJY108GALH | AJY144GALH<br>AJYA90GALH | AJY144GALH<br>AJY108GALH | AJY144GALH<br>AJY126GALH | AJY144GALH<br>AJY144GALH | AJY108GALH<br>AJY108GALH<br>AJYA90GALH | AJY108GALH<br>AJY108GALH<br>AJY108GALH | AJY144GALH<br>AJY108GALH<br>AJYA90GALH | AJY144GALH<br>AJY108GALH<br>AJY108GALH | AJY144GALH<br>AJY144GALH<br>AJYA90GALH | AJY144GALH<br>AJY144GALH<br>AJY108GALH | AJY144GALH<br>AJY144GALH<br>AJY126GALH | AJY144GALH<br>AJY144GALH<br>AJY144GALH |
| Unit 2 | | | | | | | | AJYA72GALH | AJYA90GALH | AJYA90GALH | AJY108GALH | AJYA90GALH | AJY108GALH | AJY144GALH | AJY144GALH | AJYA90GALH | AJY108GALH | AJY108GALH | AJY108GALH | AJYA90GALH | AJY108GALH | | |
| Unit 3 | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum Connectable Indoor Unit*1 | | | 15 | 16 | 17 | 21 | 24 | 27 | 30 | 32 | 35 | 39 | 42 | 45 | 48 | 50 | 53 | 57 | 60 | 63 | 64 | 64 | 64 |
| Indoor unit connectable capacity | | kW | 11.2-33.6 | 14.0-42.0 | 16.8-50.2 | 20.0-60.0 | 22.5-67.5 | 25.2-75.6 | 28.0-84.0 | 30.8-92.2 | 33.5-100.5 | 36.5-109.5 | 39.3-117.7 | 42.5-127.5 | 45.0-135.0 | 47.5-142.5 | 50.3-150.7 | 53.3-159.7 | 56.0-168.0 | 59.0-177.0 | 61.8-185.2 | 65.0-195.0 | 67.5-202.5 |
| Power source | | | 3-phase 4 wire , 400 V, 50Hz | | | | | | | | | 3-phase 4 wire , 400 V, 50Hz | | | | | | | | | | | |
| Capacity | Cooling | kW | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.4 | 56.0 | 61.5 | 67.0 | 73.0 | 78.5 | 85.0 | 90.0 | 95.0 | 100.5 | 106.5 | 112.0 | 118.0 | 123.5 | 130.0 | 135.0 |
| | Nominal Heating | | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Max Heating | | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 56.5 | 63.0 | 69.0 | 75.0 | 81.5 | 87.5 | 95.0 | 100.0 | 106.5 | 112.5 | 119.0 | 125.0 | 131.5 | 137.5 | 145.0 | 150.0 |
| Input power | Cooling | kW | 5.45 | 7.11 | 9.75 | 11.34 | 13.61 | 12.56 | 14.22 | 16.86 | 19.50 | 20.72 | 23.36 | 24.95 | 27.22 | 26.61 | 29.25 | 30.47 | 33.11 | 34.33 | 36.97 | 38.56 | 40.83 |
| | Nominal Heating | | 4.73 | 6.00 | 7.89 | 8.85 | 10.54 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Max Heating | | 5.70 | 7.33 | 9.62 | 10.90 | 12.77 | 13.03 | 14.66 | 16.95 | 19.24 | 20.10 | 22.39 | 23.67 | 25.54 | 26.57 | 28.86 | 29.72 | 32.01 | 32.87 | 35.16 | 36.44 | 38.31 |
| EER | Cooling | W/W | 4.11 | 3.94 | 3.44 | 3.53 | 3.31 | 4.01 | 3.94 | 3.65 | 3.44 | 3.52 | 3.36 | 3.41 | 3.31 | 3.57 | 3.44 | 3.50 | 3.38 | 3.44 | 3.34 | 3.37 | 3.31 |
| COP | Nominal Heating | | 4.74 | 4.67 | 4.25 | 4.52 | 4.27 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Max Heating | | 4.39 | 4.30 | 3.90 | 4.13 | 3.92 | 4.34 | 4.30 | 4.07 | 3.90 | 4.05 | 3.91 | 4.01 | 3.92 | 4.01 | 3.90 | 4.00 | 3.91 | 4.00 | 3.91 | 3.98 | 3.92 |
| Airflow rate | | $m^3/h$ | 11,100 | 11,100 | 11,100 | 13,000 | 13,000 | 11,100×2 | 11,100×2 | 11,100×2 | 11,100×2 | 13,000+11,100 | 13,000+11,100 | 13,000×2 | 13,000×2 | 11,100×3 | 11,100×3 | 13,000+11,100×2 | 13,000+11,100×2 | 13,000×2+11,100 | 13,000×2+11,100 | 13,000×3 | 13,000×3 |
| Sound pressure level*2/ Power level | Cooling | dB(A) | 56 / 77 | 58 / 79 | 59 / 80 | 60 / 81 | 61 / 82 | 60 / 81 | 61 / 82 | 62 / 83 | 62 / 83 | 63 / 84 | 63 / 84 | 64 / 84.5 | 64 / 85 | 63 / 85 | 64 / 85 | 64 / 85 | 65 / 85.5 | 65 / 86 | 65 / 86 | 65 / 86 | 66 / 87 |
| | Heating | | 58 / 80 | 59 / 81 | 61 / 83 | 61 / 83 | 61 / 83 | 62 / 84 | 62 / 84 | 63 / 85 | 64 / 86 | 63 / 85 | 64 / 86 | 64 / 86 | 64 / 86 | 65 / 87.2 | 66 / 87 | 65 / 87 | 66 / 87.7 | 65 / 87 | 66 / 88 | 66 / 88 | 66 / 88 |
| Maximum external static pressure | | Pa | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Compressor motor output | | kW | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 7.5×2 | 7.5×2 | 7.5×2 | 7.5×2 | 11.0+7.5 | 11.0+7.5 | 11.0×2 | 11.0×2 | 7.5×3 | 7.5×3 | 11.0+7.5×2 | 11.0+7.5×2 | 11.0×2+7.5 | 11.0×2+7.5 | 11.0×3 | 11.0×3 |
| Heat exchanger fin | | | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| Net Dimensions | Height | mm | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| | Width | | 930 | 930 | 930 | 1,240 | 1,240 | 930×2 | 930×2 | 930×2 | 930×2 | 1,240+930 | 1,240+930 | 1,240×2 | 1,240×2 | 930×3 | 930×3 | 1,240+930×2 | 1,240+930×2 | 1,240×2+930 | 1,240×2+930 | 1,240×3 | 1,240×3 |
| | Depth | | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | | kg | 262 | 262 | 262 | 286 | 286 | 262×2 | 262×2 | 262×2 | 262×2 | 286+262 | 286+262 | 286×2 | 286×2 | 262×3 | 262×3 | 286+262×2 | 286+262×2 | 286×2+262 | 286×2+262 | 286×3 | 286×3 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg(CO2eq-T) | 11.8 (24.6) | 11.8 (24.6) | 11.8 (24.6) | 11.8 (24.6) | 11.8 (24.6) | 11.8×2 (24.6×2) | 11.8×2 (24.6×2) | 11.8×2 (24.6×2) | 11.8×2 (24.6×2) | 11.8×2 (24.6×2) | 11.8×2 (24.6×2) | 11.8×2 (24.6×2) | 11.8×2 (24.6×2) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) |
| Connection pipe diameter | Liquid | mm | 12.70 | 12.70 | 12.70 | 12.70 | 12.70 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 |
| | Discharge Gas | | 15.88 | 19.05 | 19.05 | 22.22 | 22.22 | 22.22 | 22.22 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 |
| | Suction Gas | | 22.22 | 22.22 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 |
| Operation range | Cooling | °CDB | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |
| | Cooling/Heating | | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 |

### Energy Efficiency Combination

| Rating Capacity range | | HP | 16 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Set Model name | | | AJY144GALHH | AJY198GALHH | AJY216GALHH | AJY234GALHH | AJY252GALHH | AJY270GALHH | AJY288GALHH | AJY306GALHH | AJY324GALHH | AJY342GALHH | AJY360GALHH | AJY378GALHH | AJY396GALHH |
| Unit 1 | | | AJYA72GALH<br>AJYA72GALH | AJY126GALH<br>AJYA72GALH | AJYA72GALH<br>AJYA72GALH<br>AJYA72GALH | AJYA90GALH<br>AJYA72GALH<br>AJYA72GALH | AJYA90GALH<br>AJYA90GALH<br>AJYA72GALH | AJYA90GALH<br>AJYA90GALH<br>AJYA90GALH | AJY126GALH<br>AJYA90GALH<br>AJYA72GALH | AJY126GALH<br>AJY126GALH<br>AJYA90GALH | AJY126GALH<br>AJY126GALH<br>AJYA72GALH | AJY126GALH<br>AJY126GALH<br>AJYA90GALH | AJY144GALH<br>AJY126GALH<br>AJYA90GALH | AJY126GALH<br>AJY126GALH<br>AJY126GALH | AJY144GALH<br>AJY126GALH<br>AJY126GALH |
| Maximum Connectable Indoor Unit*1 | | | 24 | 33 | 36 | 39 | 42 | 45 | 48 | 51 | 54 | 57 | 60 | 64 | 64 |
| Indoor unit connectable capacity | | kW | 22.4-67.2 | 31.2-93.6 | 33.6-100.8 | 36.4-109.2 | 39.2-117.6 | 42.0-126.0 | 45.2-135.6 | 48.0-144.0 | 51.2-153.6 | 54.0-162.0 | 56.5-169.5 | 60.0-180.0 | 62.5-187.5 |
| Power source | | | 3-phase 4 wire , 400 V, 50Hz | | | | | | 3-phase 4 wire , 400 V, 50Hz | | | | | | |
| Capacity | Cooling | kW | 44.8 | 62.4 | 67.2 | 72.8 | 78.4 | 84.0 | 90.4 | 96.0 | 102.4 | 108.0 | 113.0 | 120.0 | 125.0 |
| | Nominal Heating | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Max Heating | | 50.0 | 70.0 | 75.0 | 81.5 | 88.0 | 94.5 | 101.5 | 108.0 | 115.0 | 121.5 | 126.5 | 135.0 | 140.0 |
| Input power | Cooling | kW | 10.90 | 16.79 | 16.35 | 18.01 | 19.67 | 21.33 | 23.90 | 25.56 | 28.13 | 29.79 | 32.06 | 34.02 | 36.29 |
| | Nominal Heating | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Max Heating | | 11.40 | 16.60 | 17.10 | 18.73 | 20.36 | 21.99 | 23.93 | 25.56 | 27.50 | 29.13 | 31.00 | 32.70 | 34.57 |
| EER | Cooling | W/W | 4.11 | 3.72 | 4.11 | 4.04 | 3.99 | 3.94 | 3.78 | 3.76 | 3.64 | 3.63 | 3.52 | 3.53 | 3.44 |
| COP | Nominal Heating | | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Max Heating | | 4.39 | 4.22 | 4.39 | 4.35 | 4.32 | 4.30 | 4.24 | 4.23 | 4.18 | 4.17 | 4.08 | 4.13 | 4.05 |
| Airflow rate | | $m^3/h$ | 11,100×2 | 13,000+11,100 | 11,100×3 | 11,100×3 | 11,100×3 | 11,100×3 | 13,000+11,100×2 | 13,000+11,100×2 | 13,000×2+11,100 | 13,000×2+11,100 | 13,000×2+11,100 | 13,000×3 | 13,000×3 |
| Sound pressure level*2/ Power level | Cooling | dB(A) | 59 / 80 | 61 / 82 | 61 / 82 | 62 / 83 | 62 / 83 | 63 / 84 | 63 / 84 | 64 / 85 | 64 / 85 | 64 / 86 | 65 / 86 | 65 / 86 | 65 / 86 |
| | Heating | | 61 / 83 | 63 / 85 | 63 / 85 | 63 / 85 | 63 / 85 | 64 / 86 | 64 / 86 | 65 / 87 | 65 / 87 | 65 / 87 | 65 / 87 | 66 / 88 | 66 / 88 |
| Maximum external static pressure | | Pa | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Compressor motor output | | kW | 7.5×2 | 11.0+7.5 | 7.5×3 | 7.5×3 | 7.5×3 | 7.5×3 | 11.0+7.5×2 | 11.0+7.5×2 | 11.0×2+7.5 | 11.0×2+7.5 | 11.0×2+7.5 | 11.0×3 | 11.0×3 |
| Heat exchanger fin | | | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| Net Dimensions | Height | mm | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| | Width | | 930×2 | 1,240+930 | 930×3 | 930×3 | 930×3 | 930×3 | 1,240+930×2 | 1,240+930×2 | 1,240×2+930 | 1,240×2+930 | 1,240×2+930 | 1,240×3 | 1,240×3 |
| | Depth | | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | | kg | 262×2 | 286+262 | 262×3 | 262×3 | 262×3 | 262×3 | 286+262×2 | 286+262×2 | 286×2+262 | 286×2+262 | 286×2+262 | 286×3 | 286×3 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg(CO2eq-T) | 11.8×2 (24.6×2) | 11.8×2 (24.6×2) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) |
| Connection pipe diameter | Liquid | mm | 12.70 | 15.88 | 15.88 | 15.88 | 15.88 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 |
| | Discharge Gas | | 22.22 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 |
| | Suction Gas | | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 |
| Operation range | Cooling | °CDB | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |
| | Cooling/Heating | | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 |

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
When cooling operation will be conducted at outdoor air temperature below -5°C, the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

*1: Minimum connectable indoor unit number is 2.
*2: The noise value is the value when measured in an anechoic room. When measured in the actual installed state, surrounding noise and reflections are received and the measured value is usually larger than the indicated value.

# Heat Pump

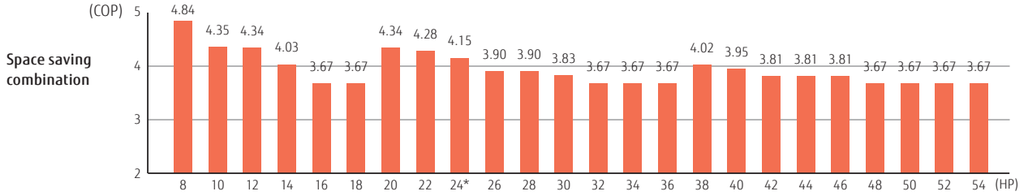
## Modular Type



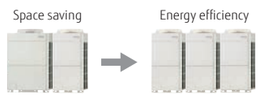
AIRSTAGE™ V-III

## Efficiency in actual operation

Top class high COP is achieved for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and our own technologies.



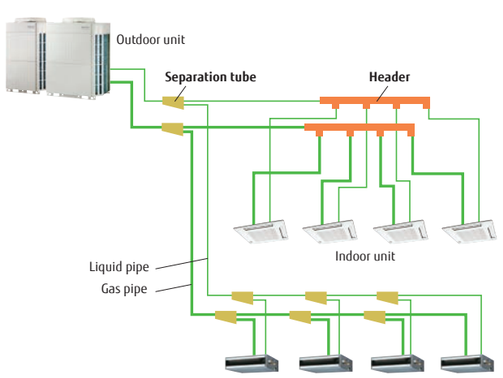

**For 24 HP Combination**




COP 17% UP

## System configuration example

- This system is used for medium-sized and large buildings. Connecting each outdoor unit makes it possible to create a high capacity system.
- Connection of multiple indoor units using separation tubes and headers.






AIRSTAGE™ V-III

**8,10HP: AJY072LALBH / AJY090LALBH**
**12,14,16,18HP: AJY108LALBH / AJY126LALBH / AJY144LALBH / AJY162LALBH**

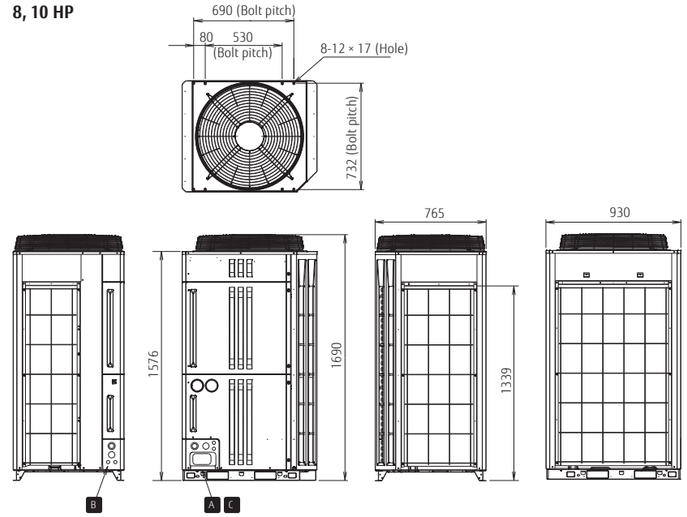


8, 10 HP 12, 14, 16, 18 HP

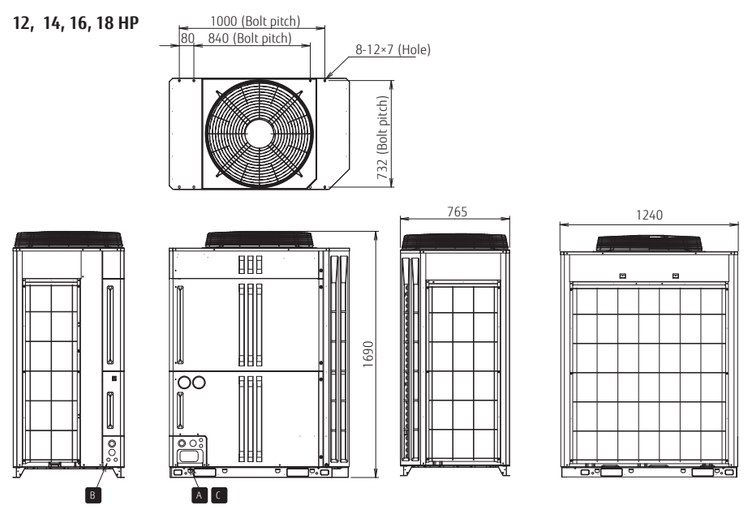
## Dimensions

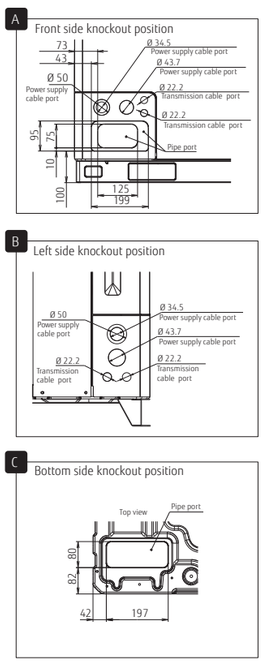
(Unit : mm)

**8, 10 HP**




**12, 14, 16, 18 HP**



## Outdoor units specifications

### Space Saving Combination

| Rating Capacity range | | HP | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Set Model name | | | AJY072LALBH | AJY090LALBH | AJY108LALBH | AJY126LALBH | AJY144LALBH | AJY162LALBH | AJY180LALBH | AJY198LALBH | AJY216LALBH | AJY234LALBH | AJY252LALBH | AJY270LALBH | AJY288LALBH | AJY306LALBH | AJY324LALBH | AJY342LALBH | AJY360LALBH | AJY378LALBH | AJY396LALBH | AJY414LALBH | AJY432LALBH | AJY450LALBH | AJY468LALBH | AJY486LALBH |
| Unit 1<br>Unit 2<br>Unit 3 | | | AJY072LALBH | AJY090LALBH | AJY108LALBH | AJY126LALBH | AJY144LALBH | AJY162LALBH | AJY090LALBH<br>AJY090LALBH | AJY126LALBH<br>AJY072LALBH | AJY126LALBH<br>AJY090LALBH | AJY144LALBH<br>AJY090LALBH | AJY162LALBH<br>AJY090LALBH | AJY144LALBH<br>AJY126LALBH | AJY144LALBH<br>AJY144LALBH | AJY162LALBH<br>AJY144LALBH | AJY162LALBH<br>AJY162LALBH | AJY162LALBH<br>AJY090LALBH<br>AJY090LALBH | AJY144LALBH<br>AJY126LALBH<br>AJY090LALBH | AJY144LALBH<br>AJY144LALBH<br>AJY090LALBH | AJY162LALBH<br>AJY144LALBH<br>AJY090LALBH | AJY162LALBH<br>AJY162LALBH<br>AJY090LALBH | AJY144LALBH<br>AJY144LALBH<br>AJY144LALBH | AJY162LALBH<br>AJY144LALBH<br>AJY144LALBH | AJY162LALBH<br>AJY162LALBH<br>AJY144LALBH | AJY162LALBH<br>AJY162LALBH<br>AJY162LALBH |
| Maximum Connectable Indoor Unit*1 | | | 17 | 21 | 26 | 30 | 34 | 39 | 43 | 47 | 52 | 56 | 60 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 |
| Indoor unit connectable capacity | | kW | 11.2-33.6 | 14.0-42.0 | 16.8-50.2 | 20.0-60.0 | 22.5-67.5 | 25.0-67.5 | 28.0-84.0 | 31.2-93.6 | 34.0-102.0 | 36.5-109.5 | 39.0-109.5 | 42.5-127.5 | 45.0-135.0 | 47.5-135.0 | 50.0-135.0 | 53.0-151.5 | 56.5-169.5 | 59.0-177.0 | 61.5-177.0 | 64.0-177.0 | 67.5-202.5 | 70.0-202.5 | 72.5-202.5 | 75.0-202.5 |
| Power source | | | 3-phase 4 wire, 400 V, 50Hz | | | | | | | | | | | 3-phase 4 wire, 400 V, 50Hz | | | | | | | | | | | | |
| Capacity | Cooling | kW | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.0 | 56.0 | 62.4 | 68.0 | 73.0 | 78.0 | 85.0 | 90.0 | 95.0 | 100.0 | 106.0 | 113.0 | 118.0 | 123.0 | 128.0 | 135.0 | 140.0 | 145.0 | 150.0 |
| | Nominal Heating | | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Max Heating | | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 50.0 | 63.0 | 70.0 | 76.5 | 81.5 | 81.5 | 95.0 | 100.0 | 100.0 | 100.0 | 113.0 | 126.5 | 131.5 | 131.5 | 131.5 | 150.0 | 150.0 | 150.0 | 150.0 |
| Input power | Cooling | kW | 5.20 | 7.28 | 8.96 | 10.96 | 13.01 | 16.56 | 14.56 | 16.16 | 18.24 | 20.29 | 23.84 | 23.97 | 26.02 | 29.57 | 33.12 | 31.12 | 31.25 | 33.30 | 36.85 | 40.40 | 39.03 | 42.58 | 46.13 | 49.68 |
| | Nominal Heating | | 4.31 | 5.98 | 7.10 | 8.97 | 11.09 | 13.63 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Max Heating | | 5.17 | 7.25 | 8.65 | 11.17 | 13.63 | 13.63 | 14.50 | 16.34 | 18.42 | 20.88 | 20.88 | 24.80 | 27.26 | 27.26 | 27.26 | 28.13 | 32.05 | 34.51 | 34.51 | 34.51 | 40.89 | 40.89 | 40.89 | 40.89 |
| EER | Cooling | W/W | 4.31 | 3.85 | 3.74 | 3.65 | 3.46 | 3.02 | 3.85 | 3.86 | 3.73 | 3.60 | 3.27 | 3.55 | 3.46 | 3.21 | 3.02 | 3.41 | 3.62 | 3.54 | 3.34 | 3.17 | 3.46 | 3.29 | 3.14 | 3.02 |
| COP | Nominal Heating | | 5.20 | 4.69 | 4.72 | 4.46 | 4.06 | 3.67 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Max Heating | | 4.84 | 4.35 | 4.34 | 4.03 | 3.67 | 3.67 | 4.34 | 4.28 | 4.15 | 3.90 | 3.90 | 3.83 | 3.67 | 3.67 | 3.67 | 4.02 | 3.95 | 3.81 | 3.81 | 3.81 | 3.67 | 3.67 | 3.67 | 3.67 |
| Airflow rate | High | $m^3/h$ | 11,100 | 11,100 | 13,000 | 13,000 | 13,700 | 13,700 | 11,100×2 | 13,000+11,100 | 13,000+11,100 | 13,700+11,100 | 13,700+11,100 | 13,700+13,000 | 13,700×2 | 13,700×2 | 13,700×2 | 13,700+11,100×2 | 13,700+13,000+11,100 | 13,700×2+11,100 | 13,700×2+11,100 | 13,700×2+11,100 | 13,700×3 | 13,700×3 | 13,700×3 | 13,700×3 |
| Sound pressure level*2/ Power level | Cooling | dB(A) | 56 / 77 | 58 / 79 | 57 / 78 | 60 / 81 | 62 / 83 | 63 / 84 | 61 / 82 | 61 / 82 | 62 / 83 | 63 / 84 | 64 / 85 | 64 / 85 | 65 / 88 | 66 / 87 | 66 / 87 | 65 / 86 | 65 / 86 | 66 / 87 | 66 / 87 | 67 / 87 | 67 / 88 | 67 / 88 | 67 / 88 | 68 / 89 |
| | Heating | | 58 / 80 | 59 / 81 | 60 / 83 | 62 / 84 | 64 / 86 | 64 / 86 | 62 / 84 | 63 / 85 | 64 / 86 | 65 / 87 | 65 / 87 | 66 / 88 | 67 / 89 | 67 / 89 | 67 / 89 | 66 / 88 | 67 / 89 | 68 / 90 | 68 / 90 | 68 / 90 | 69 / 91 | 69 / 91 | 69 / 91 | 69 / 91 |
| Maximum external static pressure | | Pa | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 |
| Compressor motor output | | kW | 7.5 | 7.5 | 11.0 | 11.0 | 11.0 | 11.0 | 7.5×2 | 11.0+7.5 | 11.0+7.5 | 11.0+7.5 | 11.0+7.5 | 11.0×2 | 11.0×2 | 11.0×2 | 11.0×2 | 11.0+7.5×2 | 11.0×2+7.5 | 11.0×2+7.5 | 11.0×2+7.5 | 11.0×2+7.5 | 11.0×3 | 11.0×3 | 11.0×3 | 11.0×3 |
| Heat exchanger fin | | | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| Net Dimensions | Height | mm | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| | Width | | 930 | 930 | 1,240 | 1,240 | 1,240 | 1,240 | 930×2 | 1,240+930 | 1,240+930 | 1,240+930 | 1,240+930 | 1,240×2 | 1,240×2 | 1,240×2 | 1,240×2 | 1,240+930×2 | 1,240×2+930 | 1,240×2+930 | 1,240×2+930 | 1,240×2+930 | 1,240×3 | 1,240×3 | 1,240×3 | 1,240×3 |
| | Depth | | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | | kg | 252 | 252 | 275 | 275 | 275 | 275 | 252×2 | 275+252 | 275+252 | 275+252 | 275+252 | 275×2 | 275×2 | 275×2 | 275×2 | 275+252×2 | 275×2+252 | 275×2+252 | 275×2+252 | 275×2+252 | 275×3 | 275×3 | 275×3 | 275×3 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg(CO2eq-T) | 11.7 (24.4) | 11.7 (24.4) | 11.8 (24.6) | 11.8 (24.6) | 11.8 (24.6) | 11.8 (24.6) | 11.7×2 (24.4×2) | 11.8+11.7 (24.6+24.4) | 11.8+11.7 (24.6+24.4) | 11.8+11.7 (24.6+24.4) | 11.8+11.7 (24.6+24.4) | 11.8×2 (24.6×2) | 11.8×2 (24.6×2) | 11.8×2 (24.6×2) | 11.8×2 (24.6×2) | 11.8+11.7×2 (24.6+24.4×2) | 11.8×2+11.7 (24.6×2+24.4) | 11.8×2+11.7 (24.6×2+24.4) | 11.8×2+11.7 (24.6×2+24.4) | 11.8×2+11.7 (24.6×2+24.4) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) |
| Connection pipe diameter | Liquid | mm | 12.70 | 12.70 | 12.70 | 12.70 | 12.70 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 |
| | Gas | | 22.22 | 22.22 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 |
| Operation range | Cooling | ˚CDB | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |

### Energy Efficiency Combination

| Rating Capacity range | | HP | 16 | 18 | 20 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Set Model name | | | AJY144LALBHH | AJY162LALBHH | AJY180LALBHH | AJY216LALBHH | AJY234LALBHH | AJY252LALBHH | AJY270LALBHH | AJY288LALBHH | AJY306LALBHH | AJY324LALBHH | AJY342LALBHH | AJY360LALBHH | AJY378LALBHH | AJY396LALBHH | AJY414LALBHH |
| Unit 1<br>Unit 2<br>Unit 3 | | | AJY072LALBH<br>AJY072LALBH | AJY090LALBH<br>AJY072LALBH | AJY108LALBH<br>AJY072LALBH | AJY072LALBH<br>AJY072LALBH<br>AJY072LALBH | AJY090LALBH<br>AJY072LALBH<br>AJY072LALBH | AJY108LALBH<br>AJY072LALBH<br>AJY072LALBH | AJY126LALBH<br>AJY072LALBH<br>AJY072LALBH | AJY108LALBH<br>AJY108LALBH<br>AJY072LALBH | AJY126LALBH<br>AJY108LALBH<br>AJY072LALBH | AJY108LALBH<br>AJY108LALBH<br>AJY108LALBH | AJY126LALBH<br>AJY108LALBH<br>AJY108LALBH | AJY126LALBH<br>AJY126LALBH<br>AJY108LALBH | AJY126LALBH<br>AJY126LALBH<br>AJY126LALBH | AJY144LALBH<br>AJY126LALBH<br>AJY126LALBH | AJY144LALBH<br>AJY144LALBH<br>AJY126LALBH |
| Maximum Connectable Indoor Unit*1 | | | 34 | 39 | 43 | 52 | 56 | 60 | 64 | 64 | 64 | | | 64 | 64 | 64 | 64 |
| Indoor unit connectable capacity | | kW | 22.4-67.2 | 25.2-75.6 | 28.0-83.8 | 33.6-100.8 | 36.4-109.2 | 39.2-117.4 | 42.4-127.2 | 44.7-134.1 | 48.0-143.8 | 50.3-150.7 | 53.5-160.5 | 56.8-170.2 | 60.0-180.0 | 62.5-187.5 | 65.0-195.0 |
| Power source | | | 3-phase 4 wire, 400 V, 50Hz | | | | | | | | | | 3-phase 4 wire, 400 V, 50Hz | | | | |
| Capacity | Cooling | kW | 44.8 | 50.4 | 55.9 | 67.2 | 72.8 | 78.3 | 84.8 | 89.4 | 95.9 | 100.5 | 107.0 | 113.5 | 120.0 | 125.0 | 130.0 |
| | Nominal Heating | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Max Heating | | 50.0 | 56.5 | 62.5 | 75.0 | 81.5 | 87.5 | 95.0 | 100.0 | 107.5 | 112.5 | 120.0 | 127.5 | 135.0 | 140.0 | 145.0 |
| Input power | Cooling | kW | 10.40 | 12.48 | 14.16 | 15.60 | 17.68 | 19.36 | 21.36 | 23.12 | 25.12 | 26.88 | 28.88 | 30.88 | 32.88 | 34.93 | 36.98 |
| | Nominal Heating | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Max Heating | | 10.34 | 12.42 | 13.82 | 15.51 | 17.59 | 18.99 | 21.51 | 22.47 | 24.99 | 25.95 | 28.47 | 30.99 | 33.51 | 35.97 | 38.43 |
| EER | Cooling | W/W | 4.31 | 4.04 | 3.95 | 4.31 | 4.12 | 4.04 | 3.97 | 3.87 | 3.82 | 3.74 | 3.70 | 3.68 | 3.65 | 3.58 | 3.52 |
| COP | Nominal Heating | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | Max Heating | | 4.84 | 4.55 | 4.52 | 4.84 | 4.63 | 4.61 | 4.42 | 4.45 | 4.30 | 4.34 | 4.21 | 4.11 | 4.03 | 3.89 | 3.77 |
| Airflow rate | High | $m^3/h$ | 11,100×2 | 11,100×2 | 13,000+11,100 | 11,100×3 | 11,000×3 | 13,000+11,100×2 | 13,000+11,100×2 | 13,000×2+11,100 | 13,000×2+11,100 | 13,000×3 | 13,000×3 | 13,000×3 | 13,000×3 | 13,700+13,000×2 | 13,700×2+13,000 |
| Sound pressure level*2/ Power level | Cooling | dB(A) | 59 / 80 | 60 / 81 | 60 / 81 | 61 / 82 | 62 / 83 | 61 / 82 | 63 / 84 | 61 / 82 | 63 / 84 | 63 / 83 | 64 / 84 | 64 / 85 | 65 / 88 | 66 / 87 | 66 / 87 |
| | Heating | | 61 / 83 | 62 / 84 | 62 / 85 | 63 / 85 | 63 / 85 | 64 / 86 | 65 / 87 | 64 / 87 | 65 / 88 | 65 / 88 | 65 / 88 | 66 / 88 | 67 / 89 | 68 / 90 | 68 / 90 |
| Maximum external static pressure | | Pa | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 |
| Compressor motor output | | kW | 7.5×2 | 7.5×2 | 11.0+7.5 | 7.5×3 | 7.5×3 | 11.0+7.5×2 | 11.0+7.5×2 | 11.0×2+7.5 | 11.0×2+7.5 | 11.0×3 | 11.0×3 | 11.0×3 | 11.0×3 | 11.0×3 | 11.0×3 |
| Heat exchanger fin | | | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| Net Dimensions | Height | mm | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| | Width | | 930×2 | 930×2 | 1,240+930 | 930×3 | 930×3 | 1,240+930×2 | 1,240+930×2 | 1,240×2+930 | 1,240×2+930 | 1,240×3 | 1,240×3 | 1,240×3 | 1,240×3 | 1,240×3 | 1,240×3 |
| | Depth | | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | | kg | 252×2 | 252×2 | 275+252 | 252×3 | 252×3 | 275+252×2 | 275+252×2 | 275×2+252 | 275×2+252 | 275×3 | 275×3 | 275×3 | 275×3 | 275×3 | 275×3 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg(CO2eq-T) | 11.7×2 (24.4×2) | 11.7×2 (24.4×2) | 11.8+11.7 (24.6+24.4) | 11.7×3 (24.4×3) | 11.7×3 (24.4×3) | 11.8+11.7×2 (24.6+24.4×2) | 11.8+11.7×2 (24.6+24.4×2) | 11.8×2+11.7 (24.6×2+24.4) | 11.8×2+11.7 (24.6×2+24.4) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) |
| Connection pipe diameter | Liquid | mm | 12.70 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 |
| | Gas | | 28.58 | 28.58 | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 |
| Operation range | Cooling | ˚CDB | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
When cooling operation will be conducted at outdoor air temperature below -5°C,
the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

*1 Minimum connectable indoor unit number is 2.
However ARXC72 and ARXC90 can be used signal connection.
*2 The noise value is the value when measured in an anechoic room.
When measured in the actual installed state, surrounding noise and reflections are received and the measured value is usually larger than the indicated value.

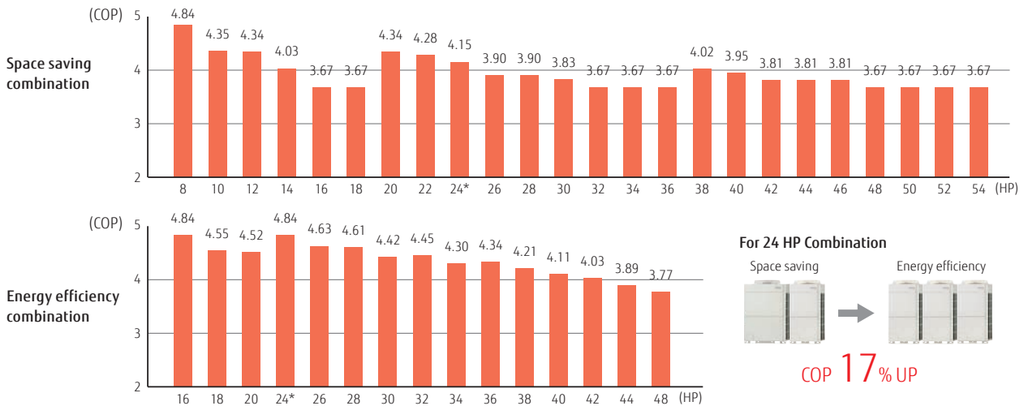
# Heat Pump
## Modular Type



AIRSTAGE™ V-III TROPICAL SPEC

## Efficiency in actual operation

Top class high COP is achieved for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and our own technologies.




**For 24 HP Combination**




COP 17% UP

## Heavy anti-corrosion treatment design

**Anti-corrosion coated casing parts**
Satisfied the JRA* heavy anti-corrosion regulation(4002)
*JRA: Japan Refrigeration Association

**PCB and Electronic components**
High ambient temperature compatible electric components. Added silicon coating on all PCB circuits for anti-corrosion.

**Blue fin heat exchanger**
Hydrophilic coating
Cobalt Blue protection
Aluminium base material
Cobalt Blue protection
Hydrophilic coating

**High ambient & corrosion compatible**
PCB components
Refrigerant cycle component

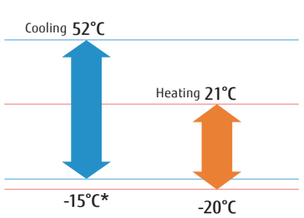
**All screws and hinges**
Added zinc chrome acid film treatment.



## High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature by adopting DC fan motor, large propeller fan and large heat exchanger.

Cooling operation up to 52°C ambient




*: When a multiple outdoor unit connection is used, operating range is from -5°C to 52°C in cooling.





**8,10HP : AJY072LNLBH / AJY090LNLBH**
**12,14,16,18HP : AJY108LNLBH / AJY126LNLBH / AJY144LNLBH / AJY162LNLBH**

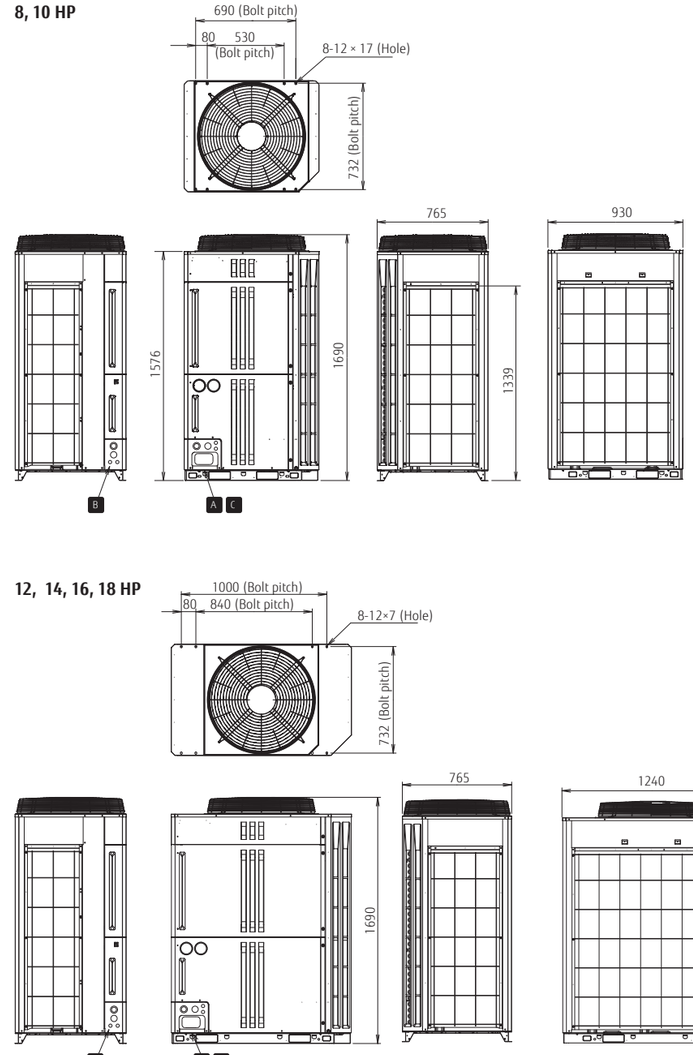


8, 10 HP　　12, 14, 16, 18 HP

## Dimensions

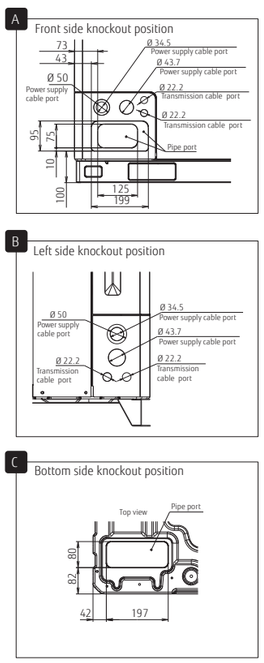
(Unit : mm)

**8, 10 HP**




**12, 14, 16, 18 HP**




For more information, please contact Fujitsu General Limited. (www.fujitsu-general.com)

# Outdoor units specifications

## Space Saving Combination

| Rating Capacity range | | HP | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 | 50 | 52 | 54 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Set Model name | | | AJY072LNLBH | AJY090LNLBH | AJY108LNLBH | AJY126LNLBH | AJY144LNLBH | AJY162LNLBH | AJY180LNLBH | AJY198LNLBH | AJY216LNLBH | AJY234LNLBH | AJY252LNLBH | AJY270LNLBH | AJY288LNLBH | AJY306LNLBH | AJY324LNLBH | AJY342LNLBH | AJY360LNLBH | AJY378LNLBH | AJY396LNLBH | AJY414LNLBH | AJY432LNLBH | AJY450LNLBH | AJY468LNLBH | AJY486LNLBH |
| Unit 1 | | | AJY072LNLBH | AJY090LNLBH | AJY108LNLBH | AJY126LNLBH | AJY144LNLBH | AJY162LNLBH | AJY090LNLBH AJY090LNLBH | AJY126LNLBH AJY072LNLBH | AJY216LNLBH AJY090LNLBH | AJY144LNLBH AJY090LNLBH | AJY162LNLBH AJY090LNLBH | AJY144LNLBH AJY126LNLBH | AJY144LNLBH AJY144LNLBH | AJY162LNLBH AJY144LNLBH | AJY162LNLBH AJY162LNLBH | AJY162LNLBH AJY090LNLBH AJY090LNLBH | AJY144LNLBH AJY126LNLBH AJY090LNLBH | AJY144LNLBH AJY144LNLBH AJY090LNLBH | AJY162LNLBH AJY144LNLBH AJY090LNLBH | AJY162LNLBH AJY162LNLBH AJY090LNLBH | AJY144LNLBH AJY144LNLBH AJY144LNLBH | AJY162LNLBH AJY144LNLBH AJY144LNLBH | AJY162LNLBH AJY162LNLBH AJY144LNLBH | AJY162LNLBH AJY162LNLBH AJY162LNLBH |
| Unit 2 | | | | | | | | | | AJY072LNLBH | AJY090LNLBH | | | AJY144LNLBH | | | | | | | | | | | | |
| Unit 3 | | | | | | | | | | | | | | AJY126LNLBH | | | | | | | | | | | | |
| Maximum Connectable Indoor Unit | | | 13 | 16 | 19 | 23 | 26 | 29 | 33 | 36 | 40 | 43 | 46 | 50 | 53 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
| Indoor unit connectable capacity | Cooling | kW | 11.2-29.1 | 14-36.4 | 16.8-43.5 | 20-52 | 22.5-58.5 | 25-65 | 28-72.8 | 31.2-81.1 | 34-88.4 | 36.5-94.9 | 39-101.4 | 42.5-110.5 | 45-117 | 47.5-123.5 | 50-130 | 53-137.8 | 56.5-146.9 | 59-153.4 | 61.5-159.9 | 64-166.4 | 67.5-175.5 | 70-182 | 72.5-188.5 | 75-195 |
| Power source | | | 3-phase 4 wire, 400 V, 50Hz | | | | | | | | | | | 3N ~ 400V, 50/60Hz | | | | | | | | | | | | |
| T1 condition | Capacity | Cooling | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.0 | 56.0 | 62.4 | 68.0 | 73.0 | 78.0 | 85.0 | 90.0 | 95.0 | 100.0 | 106.0 | 113.0 | 118.0 | 123.0 | 128.0 | 135.0 | 140.0 | 145.0 | 150.0 |
| | | Nominal Heating | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | Max Heating | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 50.0 | 63.0 | 70.0 | 76.5 | 81.5 | 81.5 | 95.0 | 100.0 | 100.0 | 100.0 | 113.0 | 126.5 | 131.5 | 131.5 | 131.5 | 150.0 | 150.0 | 150.0 | 150.0 |
| | | Cooling | 76400 | 95500 | 114300 | 136500 | 153500 | 170600 | 191000 | 212900 | 232000 | 249000 | 266100 | 290000 | 307000 | 324100 | 341200 | 361600 | 385500 | 402500 | 419600 | 436700 | 460500 | 477600 | 494700 | 511800 |
| | | Heating | 85300 | 107500 | 128000 | 153500 | 170600 | 170600 | 215000 | 238800 | 261000 | 278100 | 278100 | 324100 | 341200 | 341200 | 341200 | 385600 | 431600 | 448700 | 448700 | 448700 | 511800 | 511800 | 511800 | 511800 |
| | Input power | Cooling | 5.20 | 7.28 | 8.96 | 10.96 | 13.01 | 16.56 | 14.56 | 16.16 | 18.24 | 20.29 | 23.84 | 23.97 | 26.02 | 29.57 | 33.12 | 31.12 | 31.25 | 33.30 | 36.85 | 40.40 | 39.03 | 42.58 | 46.13 | 49.68 |
| | | Nominal Heating | 4.31 | 5.98 | 7.10 | 8.97 | 11.09 | 13.63 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | Max Heating | 5.17 | 7.25 | 8.65 | 11.17 | 13.63 | 13.63 | 14.50 | 16.34 | 18.42 | 20.88 | 20.88 | 24.80 | 27.26 | 27.26 | 27.26 | 28.13 | 32.05 | 34.51 | 34.51 | 34.51 | 40.89 | 40.89 | 40.89 | 40.89 |
| | Current | Cooling | 9.2 | 12.0 | 15.0 | 17.7 | 20.7 | 26.1 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | Heating | 9.2 | 12.2 | 14.6 | 18.2 | 21.5 | 21.5 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | EER | Cooling | 4.31 | 3.85 | 3.74 | 3.65 | 3.46 | 3.02 | 3.85 | 3.86 | 3.73 | 3.60 | 3.27 | 3.55 | 3.46 | 3.21 | 3.02 | 3.41 | 3.62 | 3.54 | 3.34 | 3.17 | 3.46 | 3.29 | 3.14 | 3.02 |
| | COP | Nominal Heating | 5.20 | 4.69 | 4.72 | 4.46 | 4.06 | 3.67 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | Max Heating | 4.84 | 4.35 | 4.34 | 4.03 | 3.67 | 3.67 | 4.34 | 4.28 | 4.15 | 3.90 | 3.90 | 3.83 | 3.67 | 3.67 | 3.67 | 4.02 | 3.95 | 3.81 | 3.81 | 3.81 | 3.67 | 3.67 | 3.67 | 3.67 |
| | EER | Cooling | 14.7 | 13.1 | 12.8 | 12.5 | 11.8 | 10.3 | 13.1 | 13.2 | 12.7 | 12.3 | 11.2 | 12.1 | 11.8 | 11.0 | 10.3 | 11.6 | 12.3 | 12.1 | 11.4 | 10.8 | 11.8 | 11.2 | 10.7 | 10.3 |
| | COP | Heating | 16.5 | 14.8 | 14.8 | 13.7 | 12.5 | 12.5 | 14.8 | 14.6 | 14.2 | 13.3 | 13.3 | 13.1 | 12.5 | 12.5 | 12.5 | 13.7 | 13.5 | 13.0 | 13.0 | 13.0 | 12.5 | 12.5 | 12.5 | 12.5 |
| T3 condition | Capacity | Cooling | 20.2 | 25.2 | 28.5 | 32 | 35.1 | 35.2 | 50.4 | 52.2 | 57.2 | 60.3 | 60.4 | 67.1 | 70.2 | 70.3 | 70.4 | 85.6 | 92.3 | 95.4 | 95.5 | 95.6 | 105.3 | 105.4 | 105.5 | 105.6 |
| | | Cooling | 68900 | 86000 | 97200 | 109200 | 119800 | 120100 | 172000 | 178100 | 195200 | 205800 | 206100 | 229000 | 239600 | 239900 | 240200 | 292100 | 315000 | 325600 | 325900 | 326200 | 359400 | 359700 | 360000 | 360300 |
| | Input power | Cooling | 6.73 | 9.20 | 9.34 | 10.70 | 11.82 | 12.35 | 18.39 | 17.44 | 19.90 | 21.02 | 21.55 | 22.52 | 23.64 | 24.17 | 24.70 | 30.75 | 31.72 | 32.83 | 33.37 | 33.90 | 35.45 | 35.99 | 36.52 | 37.05 |
| | Current | Cooling | 10.8 | 14.5 | 14.7 | 16.9 | 18.6 | 19.2 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | EER | Cooling | 3.00 | 2.74 | 3.05 | 2.99 | 2.97 | 2.85 | 2.74 | 2.99 | 2.87 | 2.87 | 2.80 | 2.98 | 2.97 | 2.91 | 2.85 | 2.78 | 2.91 | 2.91 | 2.86 | 2.82 | 2.97 | 2.93 | 2.89 | 2.85 |
| | | Cooling | 10.23 | 9.35 | 10.40 | 10.20 | 10.14 | 9.72 | 9.35 | 10.21 | 9.81 | 9.79 | 9.56 | 10.17 | 10.14 | 9.93 | 9.72 | 9.50 | 9.93 | 9.92 | 9.77 | 9.62 | 10.14 | 10.00 | 9.86 | 9.72 |
| Power factor | | | 90 | 92 | 92 | 92 | 92 | 93 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Airflow rate | High | $m^3/h$ | 11100 | 11100 | 13000 | 13000 | 13700 | 13700 | 11100×2 | 13000+11100 | 13000+11100 | 13700+11100 | 13700+11100 | 13700+13000 | 13700×2 | 13700×2 | 13700×2 | 13700+11100×2 | 13700+13000+11100 | 13700×2+11100 | 13700×2+11100 | 13700×2+11100 | 13700×3 | 13700×3 | 13700×3 | 13700×3 |
| Sound pressure level / Power level | Cooling | dB(A) | 56 / 77 | 58 / 79 | 57 / 78 | 60 / 81 | 62 / 83 | 63 / 84 | 61 / 82 | 61 / 82 | 62 / 83 | 63 / 84 | 64 / 85 | 64 / 85 | 65 / 88 | 66 / 87 | 66 / 87 | 65 / 86 | 65 / 86 | 66 / 87 | 66 / 87 | 67 / 87 | 67 / 88 | 67 / 88 | 67 / 88 | 68 / 89 |
| | Heating | | 58 / 80 | 59 / 81 | 60 / 83 | 62 / 84 | 64 / 86 | 64 / 86 | 62 / 84 | 63 / 85 | 64 / 86 | 65 / 87 | 65 / 87 | 66 / 88 | 67 / 89 | 67 / 89 | 67 / 89 | 66 / 88 | 67 / 89 | 68 / 90 | 68 / 90 | 68 / 90 | 69 / 91 | 69 / 91 | 69 / 91 | 69 / 91 |
| External static pressure (Max) | | Pa | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 |
| Compressor motor output | | kW | 7.5 | 7.5 | 11 | 11 | 11 | 11 | 7.5×2 | 11.0×7.5 | 11.0×7.5 | 11.0×7.5 | 11.0×7.5 | 11.0×2 | 11.0×2 | 11.0×2 | 11.0×2 | 11.0×7.5×2 | 11.0×2×7.5 | 11.0×2×7.5 | 11.0×2×7.5 | 11.0×2×7.5 | 11.0×3 | 11.0×3 | 11.0×3 | 11.0×3 |
| Heat exchanger fin | | | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| Net Dimensions | Height | mm | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 |
| | Width | | 930 | 930 | 1240 | 1240 | 1240 | 1240 | 930×2 | 1240+930 | 1240+930 | 1240+930 | 1240+930 | 1240×2 | 1240×2 | 1240×2 | 1240×2 | 1240+930×2 | 1240×2+930 | 1240×2+930 | 1240×2+930 | 1240×2+930 | 1240×3 | 1240×3 | 1240×3 | 1240×3 |
| | Depth | | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | | kg | 255 | 255 | 279 | 279 | 279 | 279 | 255×2 | 279+255 | 279+255 | 279+255 | 279+255 | 279×2 | 279×2 | 279×2 | 279×2 | 279+255×2 | 279×2+255 | 279×2+255 | 279×2+255 | 279×2+255 | 279×3 | 279×3 | 279×3 | 279×3 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg(CO2eq-T) | 11.7 (24.4) | 11.7 (24.4) | 11.8 (24.6) | 11.8 (24.6) | 11.8 (24.6) | 11.8 (24.6) | 11.7×2 (24.4×2) | 11.8+11.7 (24.6+24.4) | 11.8+11.7 (24.6+24.4) | 11.8+11.7 (24.6+24.4) | 11.8+11.7 (24.6+24.4) | 11.8×2 (24.6×2) | 11.8×2 (24.6×2) | 11.8×2 (24.6×2) | 11.8×2 (24.6×2) | 11.8+11.7×2 (24.6+24.4×2) | 11.8×2+11.7 (24.6×2+24.4) | 11.8×2+11.7 (24.6×2+24.4) | 11.8×2+11.7 (24.6×2+24.4) | 11.8×2+11.7 (24.6×2+24.4) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) |
| Connection pipe diameter | Liquid | mm | 12.70 | 12.70 | 12.70 | 12.70 | 12.70 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 |
| | Gas | | 22.22 | 22.22 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 |
| Operation range | Cooling | °CDB | -15 to 52 | -15 to 52 | -15 to 52 | -15 to 52 | -15 to 52 | -15 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |

## Energy Efficiency Combination

| Rating Capacity range | | HP | 16 | 18 | 20 | 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Set Model name | | | AJY144LNLBHH | AJY162LNLBHH | AJY180LNLBHH | AJY216LNLBHH | AJY234LNLBHH | AJY252LNLBHH | AJY270LNLBHH | AJY288LNLBHH | AJY306LNLBHH | AJY324LNLBHH | AJY342LNLBHH | AJY360LNLBHH | AJY378LNLBHH | AJY396LNLBHH | AJY414LNLBHH |
| Unit 1 | | | AJY072LNLBH AJY072LNLBH | AJY090LNLBH AJY072LNLBH | AJY108LNLBH AJY072LNLBH | AJY072LNLBH AJY072LNLBH AJY072LNLBH | AJY090LNLBH AJY072LNLBH AJY072LNLBH | AJY108LNLBH AJY072LNLBH AJY072LNLBH | AJY126LNLBH AJY072LNLBH AJY072LNLBH | AJY108LNLBH AJY108LNLBH AJY072LNLBH | AJY126LNLBH AJY108LNLBH AJY072LNLBH | AJY108LNLBH AJY108LNLBH AJY108LNLBH | AJY126LNLBH AJY108LNLBH AJY108LNLBH | AJY126LNLBH AJY108LNLBH AJY108LNLBH | AJY126LNLBH AJY126LNLBH AJY126LNLBH | AJY126LNLBH AJY126LNLBH AJY126LNLBH | AJY144LNLBH AJY126LNLBH AJY126LNLBH | AJY144LNLBH AJY144LNLBH AJY126LNLBH |
| Maximum Connectable Indoor Unit | | | 26 | 29 | 33 | 39 | 43 | 46 | 50 | 52 | 55 | 55 | 55 | 55 | 55 | 55 | 55 |
| Indoor unit connectable capacity | Cooling | kW | 22.4-58.2 | 25.2-65.5 | 28-72.6 | 33.6-87.3 | 36.4-94.6 | 39.2-101.7 | 42.4-110.2 | 44.7-116.2 | 48-124.6 | 50.3-130.6 | 53.5-139.1 | 56.8-147.5 | 60-156 | 62.5-162.5 | 65-169 |
| Power source | | | 3N ~ 400V, 50/60Hz | | | | | | | 3-phase 4 wire, 400 V, 50Hz | | | | | | | |
| T1 condition | Capacity | Cooling | 44.8 | 50.4 | 55.9 | 67.2 | 72.8 | 78.3 | 84.8 | 89.4 | 95.9 | 100.5 | 107.0 | 113.5 | 120.0 | 125.0 | 130.0 |
| | | Nominal Heating | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | Max Heating | 50.0 | 56.5 | 62.5 | 75.0 | 81.5 | 87.5 | 95.0 | 100.0 | 107.5 | 112.5 | 120.0 | 127.5 | 135.0 | 140.0 | 145.0 |
| | | Cooling | 152800 | 171900 | 190700 | 229200 | 248300 | 267100 | 289300 | 305000 | 327200 | 342900 | 365100 | 387300 | 409500 | 426500 | 443500 |
| | | Heating | 170600 | 192800 | 213300 | 255900 | 278100 | 298600 | 324100 | 341300 | 366800 | 384000 | 409500 | 435000 | 460500 | 477600 | 494700 |
| | Input power | Cooling | 10.40 | 12.48 | 14.16 | 15.60 | 17.68 | 19.36 | 21.36 | 23.12 | 25.12 | 26.88 | 28.88 | 30.88 | 32.88 | 34.93 | 36.98 |
| | | Nominal Heating | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | Max Heating | 10.34 | 12.42 | 13.82 | 15.51 | 17.59 | 18.99 | 21.51 | 22.47 | 24.99 | 25.95 | 28.47 | 30.99 | 33.51 | 35.97 | 38.43 |
| | Current | Cooling | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | Heating | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | EER | Cooling | 4.31 | 4.04 | 3.95 | 4.31 | 4.12 | 4.04 | 3.97 | 3.87 | 3.82 | 3.74 | 3.70 | 3.68 | 3.65 | 3.58 | 3.52 |
| | COP | Nominal Heating | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | | Max Heating | 4.84 | 4.55 | 4.52 | 4.84 | 4.63 | 4.61 | 4.42 | 4.45 | 4.30 | 4.34 | 4.21 | 4.11 | 4.03 | 3.89 | 3.77 |
| | EER | Cooling | 14.7 | 13.8 | 13.5 | 14.7 | 14.0 | 13.8 | 13.5 | 13.2 | 13.0 | 12.8 | 12.6 | 12.5 | 12.5 | 12.2 | 12.0 |
| | COP | Heating | 16.5 | 15.5 | 15.4 | 16.5 | 15.8 | 15.7 | 15.1 | 15.2 | 14.7 | 14.8 | 14.4 | 14.0 | 13.7 | 13.3 | 12.9 |
| T3 condition | Capacity | Cooling | 40.4 | 45.4 | 48.7 | 60.6 | 65.6 | 68.9 | 72.4 | 77.2 | 80.7 | 85.5 | 89.0 | 92.5 | 96.0 | 99.1 | 102.2 |
| | | Cooling | 137800 | 154900 | 166100 | 206700 | 223800 | 235000 | 247000 | 263300 | 275300 | 291600 | 303600 | 315600 | 327600 | 338200 | 348800 |
| | Input power | Cooling | 13.47 | 15.93 | 16.08 | 20.20 | 22.66 | 22.81 | 24.17 | 25.42 | 26.78 | 28.03 | 29.39 | 30.75 | 32.11 | 33.22 | 34.34 |
| | Current | Cooling | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| | EER | Cooling | 3.00 | 2.85 | 3.03 | 3.00 | 2.89 | 3.02 | 3.00 | 3.04 | 3.01 | 3.05 | 3.03 | 3.01 | 2.99 | 2.98 | 2.98 |
| | | Cooling | 10.23 | 9.72 | 10.33 | 10.23 | 9.87 | 10.30 | 10.22 | 10.36 | 10.28 | 10.40 | 10.33 | 10.26 | 10.20 | 10.18 | 10.16 |
| Power factor | | | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |
| Airflow rate | High | $m^3/h$ | 11100×2 | 11100×2 | 13000+11100 | 11100×3 | 11100×3 | 13000+11100×2 | 13000+11100×2 | 13000×2+11100 | 13000×2+11100 | 13000×3 | 13000×3 | 13000×3 | 13000×3 | 13700+13000×2 | 13700×2+13000 |
| Sound pressure level / Power level | Cooling | dB(A) | 59 / 80 | 60 / 81 | 60 / 81 | 61 / 82 | 62 / 83 | 63 / 84 | 63 / 84 | 61 / 82 | 63 / 84 | 62 / 83 | 63 / 84 | 64 / 85 | 65 / 88 | 66 / 87 | 66 / 87 |
| | Heating | | 61 / 83 | 62 / 84 | 62 / 85 | 63 / 85 | 63 / 85 | 64 / 86 | 65 / 87 | 64 / 87 | 65 / 88 | 65 / 88 | 66 / 88 | 66 / 88 | 67 / 89 | 68 / 90 | 68 / 90 |
| External static pressure (Max) | | Pa | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 82 |
| Compressor motor output | | kW | 7.5×2 | 7.5×2 | 11.0+7.5 | 7.5×3 | 7.5×3 | 11.0+7.5×2 | 11.0+7.5×2 | 11.0×2+7.5 | 11.0×2+7.5 | 11.0×3 | 11.0×3 | 11.0×3 | 11.0×3 | 11.0×3 | 11.0×3 |
| Heat exchanger fin | | | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| Net Dimensions | Height | mm | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 | 1690 |
| | Width | | 930×2 | 930×2 | 1240+930 | 930×3 | 930×3 | 1240+930×2 | 1240+930×2 | 1240×2+930 | 1240×2+930 | 1240×3 | 1240×3 | 1240×3 | 1240×3 | 1240×3 | 1240×3 |
| | Depth | | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | | kg | 255×2 | 255×2 | 279+255 | 255×3 | 255×3 | 279+255×2 | 279+255×2 | 279×2+255 | 279×2+255 | 279×3 | 279×3 | 279×3 | 279×3 | 279×3 | 279×3 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg(CO2eq-T) | 11.7×2 (24.4×2) | 11.7×2 (24.4×2) | 11.8+11.7 (24.6+24.4) | 11.7×3 (24.4×3) | 11.7×3 (24.4×3) | 11.8+11.7×2 (24.6+24.4×2) | 11.8+11.7×2 (24.6+24.4×2) | 11.8×2+11.7 (24.6×2+24.4) | 11.8×2+11.7 (24.6×2+24.4) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) | 11.8×3 (24.6×3) |
| Connection pipe diameter | Liquid | mm | 12.70 | 15.88 | 15.88 | 15.88 | 15.88 | 15.88 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 |
| | Gas | | 28.58 | 28.58 | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 |
| Operation range | Cooling | °CDB | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 | -5 to 52 |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |

Note: Specifications are based on the following conditions.
Cooling(T1): Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB
Cooling(T3): Indoor temperature of 29°CDB / 19°CWB, and outdoor temperature of 46°CDB / 24°CWB
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5m. Height difference between outdoor and indoor unit: 0m.

# VRF Indoor Unit Lineup

| Capacity range (kW) | | | 1.1 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 9.0 | 10.0 | 11.2 | 12.5 | 14.0 | 18.0 | 22.4 | 25.0 | 28.0 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Class | | | 4 | 7 | 9 | 12 | 14 | 18 | 24 | 30 | 34 | 36 | 45 | 54 | 60 | 72 | 90 | 96 |
| Cassette | Compact<br>Grid type / Standard type |  | AUXB 004 GLEH | AUXB 007 GLEH | AUXB 009 GLEH | AUXB 012 GLEH | AUXB 014 GLEH | AUXB 018 GLEH | AUXB 024 GLEH | | | | | | | | | |
| | Circular Flow<br>Slim type |  | | | AUXN 009 GLAH*4 | AUXN 012 GLAH*4 | AUXN 014 GLAH*4 | AUXM 018 GLEH | AUXM 024 GLEH | AUXM 030 GLEH | | | | | | | | |
| | Circular Flow<br>Large type |  | | | | | | AUXK 018 GLEH | AUXK 024 GLEH | AUXK 030 GLEH | AUXK 034 GLEH | AUXK 036 GLEH | AUXK 045 GLEH | AUXK 054 GLEH | | | | |
| | 3D Flow |  NEW | | | | | | AUXS 018 GLEH | AUXS 024 GLEH | | | | | | | | | |
| Duct | Mini Duct<br>(With drain pump) |  004/007/009/012/014 018 024 | ARXK 004 GLEH | ARXK 007 GLEH | ARXK 009 GLEH | ARXK 012 GLEH | ARXK 014 GLEH | ARXK 018 GLEH | ARXK 024 GLEH | | | | | | | | | |
| | Slim Duct<br>(With drain pump) |  04/007/009/012/014 018 024 | ARXD 04 GALH*3 | ARXD 007 GLEH | ARXD 009 GLEH | ARXD 012 GLEH | ARXD 014 GLEH | ARXD 018 GLEH | ARXD 024 GLEH | | | | | | | | | |
| | Medium<br>Static Pressure Duct |  | | | | | | | ARXA 024 GLEH | ARXA 030 GLEH | | ARXA 036 GLEH | ARXA 045 GLEH | | | | | |
| | High<br>Static Pressure Duct |  036/45/60 072/090 096 | | | | | | | | | | ARXC 036 GTEH | ARXC 45 GATH | | ARXC 60 GATH*1 | ARXC 072 GTEH*1 | ARXC 090 GTEH*1 | ARXC 096 GTEH*1 |
| | Large Airflow Duct<br>(Compact type) |  009/012/014 018 024/030 | | | ARXN 009 GLBH*4 | ARXN 012 GLBH*4 | ARXN 014 GLBH*4 | ARXN 018 GLBH | ARXN 024 GTBH | ARXN 030 GTBH | | | | | | | | |
| | Large Airflow Duct<br>(Large type) |  | | | | | | ARXN 18 GATH*2 | ARXN 24 GATH*2 | ARXN 30 GATH*2 | ARXN 34 GATH*2 | ARXN 36 GATH*2 | ARXN 45 GATH*2 | | | | | |
| Floor | Floor<br>(*Same as Ceiling models) |  | | | | ABYA 012 GTEH | ABYA 014 GTEH | ABYA 018 GTEH | ABYA 024 GTEH | | | | | | | | | |
| | Slim Concealed Floor<br>(*Same as Slim Duct models) |  04/007/009/012/014 018 024 | ARXD 04 GALH*3 | ARXD 007 GLEH | ARXD 009 GLEH | ARXD 012 GLEH | ARXD 014 GLEH | ARXD 018 GLEH | ARXD 024 GLEH | | | | | | | | | |
| | Compact Floor |  | AGYA 004 GCEH | AGYA 007 GCEH | AGYA 009 GCEH | AGYA 012 GCEH | AGYA 014 GCEH | | | | | | | | | | | |
| | Compact Floor<br>(EEV external) |  | AGYE 004 GCEH | AGYE 007 GCEH | AGYE 009 GCEH | AGYE 012 GCEH | AGYE 014 GCEH | | | | | | | | | | | |
| | | | With this model, connection of EV kit is necessary. | | | | | | | | | | | | | | | |
| Ceiling | |  012/014/018/024 030/036/045/054 | | | | ABYA 012 GTEH | ABYA 014 GTEH | ABYA 018 GTEH | ABYA 024 GTEH | ABYA 030 GTEH | | ABYA 036 GTEH | ABYA 045 GTEH | ABYA 054 GTEH | | | | |
| Wall Mounted | Wall Mounted |  004/007/009 012/014 18/24 030/034 | ASYA 004 GTEH | ASYA 007 GTEH | ASYA 009 GTEH | ASYA 012 GCEH | ASYA 014 GCEH | ASYA 18 GBCH | ASYA 24 GBCH | ASYA 030 GTEH | ASYA 034 GTEH | | | | | | | |
| | Wall Mounted<br>(EEV external) |  004/007/009 012/014 | ASYE 004 GTEH | ASYE 007 GTEH | ASYE 009 GTEH | ASYE 012 GCEH | ASYE 014 GCEH | | | | | | | | | | | |
| | | | With this model, connection of EV kit is necessary. | | | | | | | | | | | | | | | |

*1: ARXC60/072/090/096G cannot be connected to J-IIS series and J-III series.
*2: Large airflow duct (Large type ARXN**GATH) type can be connected to VR-II / V-III series only.
*3: ARXD04GALH cannot be connected to J-IIIL series.
*4: AUXN009/012/014GLAH and ARXN009/012/014GLBH can be connected to J-IIS series and J-III series only.
Specifications and design are subject to change without notice.

NEW

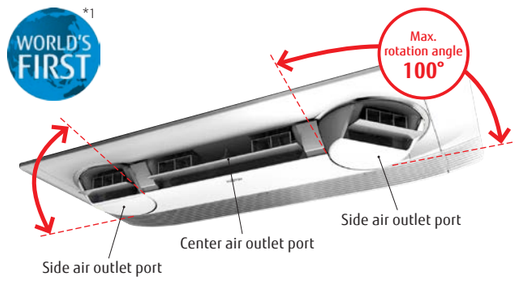
# 3D Flow Cassette



**Model:**
**AUXS018GLEH / AUXS024GLEH**

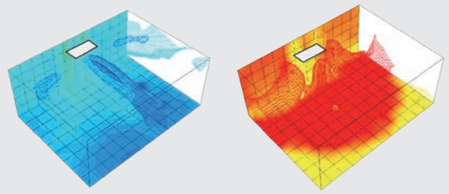
## 3 Air Outlet Ports can be controlled individually

Using the "Comfortable airflow setting" function allows the left and right air outlet ports and the wide center air outlet ports to automatically create a comfortable space for improved comfort.




*1: Announced 2018. In room air conditioner for the home (our company's investigation)

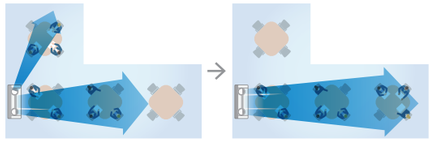
**Temperature distribution during cooling and heating**
(when set to comfortable airflow)



**Cooling**
When cooling operation is stable with an outside air temperature of 35°C, a set temperature of 18°C and an air volume set to "Hi" in a 40 m² environmental our test room for the AUXS024GLEH

**Heating**
When heating operation is stable with an outside air temperature of 7°C, a set temperature of 30°C and an air volume set to "Hi" in a 40 m² environmental our test room for the AUXS024GLEH

**Equipped with an "Individual airflow setting" function that optimizes the airflow setting in accordance with the installation location.**



Suitably setting the side air outlet ports to match how the space is used achieves air conditioning with no waste.



Optimum airflow control for improved comfort is achieved even for long rooms.



Wired Remote Controller (Touch Panel ) UTY-RNRYZ3

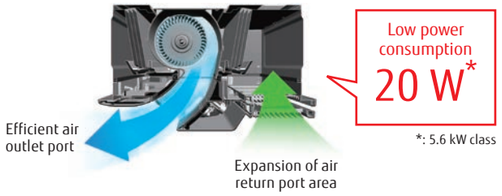
**Individual air outlet port control**

"Individual airflow setting" is possible using the Wired Remote Controller (Touch Panel)*. The airflow of the respective air outlet ports can be individually set.

*Wired Remote Controller (Touch Panel) UTY-RNRYZ3 only

## High energy saving

The "New structural design" featuring large intake and smooth output reduces air blowing loss to achieve top class energy saving.




*: 5.6 kW class



# VRF Indoor Units Specifications



# VRF Indoor Units Specifications

## Compact Cassette



| Model name | | | AUXB004GLEH | AUXB007GLEH | AUXB009GLEH | AUXB012GLEH | AUXB014GLEH | AUXB018GLEH | AUXB024GLEH |
|---|---|---|---|---|---|---|---|---|---|
| Power source | | | Single-phase, ~230V, 50Hz | | | | | | |
| Capacity | Cooling | kW | 1.1 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| | Heating | | 1.3 | 2.8 | 3.2 | 4.1 | 5.0 | 6.3 | 8.0 |
| Input power | | W | 23 | 25 | 25 | 29 | 35 | 36 | 84 |
| Airflow rate | High | $m^3/h$ | 530/530 | 540 | 550 | 600 | 680 | 710 | 1,030 |
| | Med-H | | 490/480 | 500 | 520 | 560 | 620 | 660 | 910 |
| | Med | | 450/430 | 460 | 480 | 520 | 560 | 590 | 790 |
| | Med-L | | 420/380 | 420 | 440 | 480 | 500 | 520 | 680 |
| | Low | | 390/340 | 390 | 400 | 430 | 440 | 460 | 560 |
| | Quiet | | 350/300 | 350 | 350 | 390 | 390 | 400 | 450 |
| Sound pressure level | High | dB(A) | 34/34 | 34 | 35 | 37 | 38 | 41 | 50 |
| | Med-H | | 32/31 | 32 | 33 | 34 | 37 | 39 | 46 |
| | Med | | 30/29 | 30 | 31 | 33 | 34 | 36 | 43 |
| | Med-L | | 28/26 | 28 | 29 | 31 | 32 | 33 | 39 |
| | Low | | 27/24 | 27 | 27 | 29 | 30 | 30 | 35 |
| | Quiet | | 25/21 | 25 | 25 | 27 | 27 | 27 | 30 |
| Net Dimensions (H × W × D) | | mm | 245 × 570 × 570 | | | | | | |
| Weight | | kg(lbs) | 15 (33) | | | | | 17 (37) | |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | | | | | | 9.52 |
| | Gas (Flare) | | 9.52 | | | 12.70 | | | 15.88 |
| Drain hose diameter (I.D./O.D.) | | | 25/32 | | | | | | |
| Cassette Grille | Model name | | UTG-UFYE-W / UTG-UFYC-W | | | | | | |
| | Net Dimensions (H×W×D) | mm | 49 × 620 × 620 / 49 × 700 × 700 | | | | | | |
| | Weight | kg(lbs) | 2.3(5.1) / 2.6(6) | | | | | | |

Note : Specifications are based on the following conditions.
*1: This value is under cooling operation.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

## Circular Flow Cassette



Slim type Large type

### Slim type

| Model name | | | AUXN009GLAH | AUXN012GLAH | AUXN014GLAH | AUXM018GLEH | AUXM024GLEH | AUXM030GLEH |
|---|---|---|---|---|---|---|---|---|
| Power source | | | Single-phase, ~230V, 50Hz | | | | | |
| Capacity | Cooling | kW | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 9.0 |
| | Heating | | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 10.0 |
| Input power | | W | 20 | 20 | 20 | 20 | 25 | 49 |
| Airflow rate | High | $m^3/h$ | 1,050 | 1,050 | 1,050 | 1,050 | 1,120 | 1,470 |
| | Med-H | | 930 | 930 | 930 | 930 | 1,050 | 1,160 |
| | Med | | 900 | 900 | 900 | 900 | 930 | 1,070 |
| | Med-L | | 870 | 870 | 870 | 870 | 900 | 930 |
| | Low | | 810 | 810 | 810 | 810 | 870 | 900 |
| | Quiet | | 780 | 780 | 780 | 780 | 780 | 780 |
| Sound pressure level | High | dB(A) | 33 | 33 | 33 | 33 | 35 | 40 |
| | Med-H | | 32 | 32 | 32 | 32 | 33 | 36 |
| | Med | | 31 | 31 | 31 | 31 | 32 | 34 |
| | Med-L | | 30 | 30 | 30 | 30 | 31 | 32 |
| | Low | | 29 | 29 | 29 | 29 | 30 | 31 |
| | Quiet | | 28 | 28 | 28 | 28 | 28 | 28 |
| Net Dimensions (H × W × D) | | mm | 246 × 840 × 840 | | | | | |
| Weight | | kg(lbs) | 24.5 (54) | | | 24.0 (53) | 24.5 (54) | |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | | | | 9.52 | |
| | Gas (Flare) | | 12.70 | | | | 15.88 | |
| Drain hose diameter (I.D./O.D.) | | | 25/32 | | | | | |
| Cassette Grille | Model name | | UTG-UKYC-W / UTG-UKYA-B | | | | | |
| | Net Dimensions (H×W×D) | mm | 53 × 950 × 950 | | | | | |
| | Weight | kg(lbs) | 6.0 (13) | | | | | |

### Large type

| Model name | | | AUXK018GLEH | AUXK024GLEH | AUXK030GLEH | AUXK034GLEH | AUXK036GLEH | AUXK045GLEH | AUXK054GLEH |
|---|---|---|---|---|---|---|---|---|---|
| Power source | | | Single-phase, ~230V, 50Hz | | | | | | |
| Capacity | Cooling | kW | 5.6 | 7.1 | 9.0 | 10.0 | 11.2 | 12.5 | 14.0 |
| | Heating | | 6.3 | 8.0 | 10.0 | 11.2 | 12.5 | 14.0 | 16.0 |
| Input power | | W | 40 | 40 | 47 | 47 | 61 | 89 | 116 |
| Airflow rate | High | $m^3/h$ | 1,420 | 1,420 | 1,440 | 1,440 | 1,620 | 1,820 | 2,040 |
| | Med-H | | 1,360 | 1,360 | 1,440 | 1,440 | 1,500 | 1,590 | 1,800 |
| | Med | | 1,300 | 1,300 | 1,340 | 1,340 | 1,400 | 1,500 | 1,590 |
| | Med-L | | 1,270 | 1,270 | 1,300 | 1,300 | 1,340 | 1,400 | 1,440 |
| | Low | | 1,200 | 1,200 | 1,280 | 1,280 | 1,280 | 1,300 | 1,300 |
| | Quiet | | 1,150 | 1,150 | 1,150 | 1,150 | 1,150 | 1,150 | 1,150 |
| Sound pressure level | High | dB(A) | 38 | 38 | 39 | 39 | 41 | 44 | 47 |
| | Med-H | | 37 | 37 | 38 | 38 | 40 | 42 | 45 |
| | Med | | 36 | 36 | 37 | 37 | 38 | 40 | 42 |
| | Med-L | | 35 | 35 | 36 | 36 | 37 | 38 | 39 |
| | Low | | 34 | 34 | 35 | 35 | 36 | 36 | 36 |
| | Quiet | | 33 | 33 | 33 | 33 | 33 | 33 | 33 |
| Net Dimensions (H × W × D) | | mm | 288 × 840 × 840 | | | | | | |
| Weight | | kg(lbs) | 26.5 (58) | | 29.5 (65) | 29.5 (65) | 29.5 (65) | 29.5 (65) | 29.5 (65) |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 9.52 | | | | | |
| | Gas (Flare) | | 12.70 | 15.88 | | | | | |
| Drain hose diameter (I.D./O.D.) | | | 25/32 | | | | | | |
| Cassette Grille | Model name | | UTG-UKYC-W / UTG-UKYA-B | | | | | | |
| | Net Dimensions (H×W×D) | mm | 53 × 950 × 950 | | | | | | |
| | Weight | kg(lbs) | 6.0 (13) | | | | | | |

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When AUX*018GLEH is connected to the outdoor unit other than J-IIIL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas)
When AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH are connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø19.05.



## 3D Flow Cassette



NEW

TENTATIVE

| Model name | | | AUXS018GLEH | AUXS024GLEH |
|---|---|---|---|---|
| Power source | | | Single-phase, ~230V, 50Hz | |
| Capacity | Cooling | kW | 5.60 | 7.10 |
| | Heating | | 6.30 | 8.00 |
| Input power | | W | 20/28 | 34/43 |
| Airflow rate* | High | $m^3/h$ | 750/870 | 950/1,040 |
| | Med-H | | 710/830 | 890/990 |
| | Med | | 690/780 | 860/930 |
| | Med-L | | 660/740 | 810/880 |
| | Low | | 630/700 | 770/840 |
| | Quiet | | 540/540 | 540/540 |
| Sound pressure level* | High | dB(A) | 38/41 | 43/46 |
| | Med-H | | 36/40 | 42/45 |
| | Med | | 35/39 | 41/43 |
| | Med-L | | 35/37 | 40/42 |
| | Low | | 33/36 | 38/40 |
| | Quiet | | 29/29 | 29/29 |
| Net Dimensions (H × W × D) | | mm | 200 × 1,240 × 500 | |
| Weight | | kg(lbs) | 25 (55) | |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 9.52 |
| | Gas (Flare) | | 12.70 | 15.88 |
| Drain hose diameter (I.D./O.D.) | | | 25/32 | |
| Cassette Grille | Model name | | UTG-USYA-W | |
| | Net Dimensions (H×W×D) | mm | 85 × 1,350 × 580 | |
| | Weight | kg(lbs) | 11.5 (25) | |

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*: This value is "cooling operation / heating operation".



## Mini Duct



| Model name | | | ARXK004GLEH | ARXK007GLEH | ARXK009GLEH | ARXK012GLEH | ARXK014GLEH | ARXK018GLEH | ARXK024GLEH |
|---|---|---|---|---|---|---|---|---|---|
| Power source | | | Single-phase, ~230V, 50Hz | | | | | | |
| Capacity | Cooling | kW | 1.1 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| | Heating | | 1.3 | 2.8 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 |
| Input power | | W | 26 | 28 | 28 | 35 | 66 | 73 | 80 |
| Airflow rate | High | $m^3/h$ | 460 | 460 | 460 | 550 | 760 | 930 | 1,160 |
| | Med-H | | 440 | 440 | 440 | 520 | 660 | 840 | 1,060 |
| | Med | | 420 | 420 | 420 | 480 | 560 | 740 | 960 |
| | Med-L | | 400 | 400 | 400 | 450 | 490 | 640 | 860 |
| | Low | | 370 | 370 | 370 | 410 | 410 | 540 | 750 |
| | Quiet | | 340 | 340 | 340 | 340 | 340 | 470 | 610 |
| Static pressure range | | Pa | 0 to 30 | | | | 0 to 50 | | |
| Standard static pressure | | | 10 | | | | 15 | | |
| Sound pressure level | High | dB(A) | 25 | 26 | 26 | 29 | 34 | 33 | 32 |
| | Med-H | | 24 | 25 | 25 | 27 | 31 | 30 | 30 |
| | Med | | 23 | 24 | 24 | 26 | 28 | 28 | 28 |
| | Med-L | | 22 | 23 | 23 | 25 | 26 | 26 | 27 |
| | Low | | 21 | 22 | 22 | 24 | 24 | 24 | 25 |
| | Quiet | | 20 | 21 | 21 | 22 | 22 | 22 | 22 |
| Net Dimensions (H × W × D) | | mm | 198 × 700 × 450 | | | | | 198 × 900 × 450 | 198 × 1,100 × 450 |
| Weight | | kg(lbs) | 14.5 (32) | 15.5 (34) | | 16 (35) | | 19 (42) | 22.5 (50) |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | | | | | | 9.52 |
| | Gas (Flare) | | 9.52 | | | 12.70 | | | 15.88 |
| Drain hose diameter (I.D./O.D.) | | | 25/32 | | | | | | |

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

## Slim Duct / Slim Concealed Floor



| Model name | | | ARXD04GALH | ARXD07GLEH | ARXD09GLEH | ARXD12GLEH | ARXD14GLEH | ARXD18GLEH | ARXD24GLEH |
|---|---|---|---|---|---|---|---|---|---|
| Power source | | | Single-phase, ~230V, 50Hz | | | | | | |
| Capacity | Cooling | kW | 1.1 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 |
| | Heating | | 1.3 | 2.8 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 |
| Input power | | W | 40 | 44 | 50 | 54 | 92 | 83 | 122 |
| Airflow rate | High | $m^3/h$ | 510 | 550 | 600 | 600 | 800 | 940 | 1,330 |
| | Med-High | | - | 480 | 510 | 530 | 680 | 820 | 1,140 |
| | Med | | 400/470*1 | 440 | 460 | 490 | 600 | 730 | 1,020 |
| | Med-Low | | - | 410 | 420 | 450 | 520 | 630 | 900 |
| | Low | | 320/440*1 | 370 | 370 | 410 | 440 | 540 | 780 |
| | Quiet | | - | 320 | 320 | 340 | 340 | 470 | 610 |
| Static pressure range | | Pa | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 50 |
| Standard static pressure | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 |
| Sound pressure level | High | dB(A) | 26 | 28 | 29 | 30 | 34 | 34 | 35 |
| | Med-High | | - | 26 | 27 | 28 | 32 | 31 | 31 |
| | Med | | 21/25*1 | 25 | 25 | 27 | 30 | 29 | 29 |
| | Med-Low | | - | 24 | 24 | 26 | 28 | 27 | 27 |
| | Low | | 20/22*1 | 22 | 22 | 24 | 25 | 25 | 24 |
| | Quiet | | - | 21 | 21 | 22 | 22 | 23 | 21 |
| Net Dimensions (H × W × D) | | mm | 198 × 700 × 620 | | | | | 198 × 900 × 620 | 198 × 1,100 × 620 |
| Weight | | kg(lbs) | 17 (37) | | | 18 (40) | | 22 (48) | 26 (57) |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | | | | | | 9.52 |
| | Gas (Flare) | | 12.70 | 9.52 | | 12.70 | | | 15.88 |
| Drain hose diameter (I.D./O.D.) | | | 25/32 | | | | | | |

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*1: This value is under cooling operation.

## Medium Static Pressure Duct



| Model name | | | ARXA024GLEH | ARXA030GLEH | ARXA036GLEH | ARXA045GLEH |
|---|---|---|---|---|---|---|
| Power source | | | Single-phase, ~230V, 50Hz | | | |
| Capacity | Cooling | kW | 7.1 | 9.0 | 11.2 | 12.5 |
| | Heating | | 8.0 | 10.0 | 12.5 | 14.0 |
| Input power | | W | 94 | 108 | 194 | 240 |
| Airflow rate | High | $m^3/h$ | 1,280 | 1,410 | 1,840 | 1,970 |
| | Med-High | | 1,180 | 1,350 | 1,750 | 1,910 |
| | Med | | 1,090 | 1,280 | 1,660 | 1,860 |
| | Med-Low | | 1,000 | 1,240 | 1,600 | 1,780 |
| | Low | | 920 | 1,190 | 1,530 | 1,710 |
| | Quiet | | 840 | 1,150 | 1,470 | 1,640 |
| Static pressure range | | Pa | 0 to 150 | 0 to 150 | 0 to 150 | 0 to 150 |
| Standard static pressure | | | 40 | 50 | 50 | 60 |
| Sound pressure level | High | dB(A) | 31 | 34 | 37 | 41 |
| | Med-High | | 29 | 33 | 36 | 40 |
| | Med | | 27 | 32 | 35 | 38 |
| | Med-Low | | 26 | 31 | 35 | 38 |
| | Low | | 24 | 30 | 34 | 37 |
| | Quiet | | 23 | 29 | 33 | 36 |
| Net Dimensions (H × W × D) | | mm | 270 × 1,135 × 700 | | | |
| Weight | | kg(lbs) | 36 (79) | 40 (88) | | |
| Connection pipe diameter | Liquid (Flare) | mm | 9.52 | | | |
| | Gas (Flare) | | 15.88 | | | |
| Drain hose diameter (I.D./O.D.) | | | 25/32 | | | |

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].



## High Static Pressure Duct



| Model name | | | ARXC036GTEH | ARXC45GATH | ARXC60GATH | ARXC072GTEH | ARXC090GTEH | ARXC096GTEH |
|---|---|---|---|---|---|---|---|---|
| Power source | | | Single-phase, ~230V, 50Hz | | | | | |
| Capacity | Cooling | kW | 11.2 | 12.5 | 18.0 | 22.4 | 25.0 | 28.0 |
| | Heating | | 12.5 | 14.0 | 20.0 | 25.0 | 28.0 | 31.5 |
| Input power | | W | 207 | 715 | 730 | 681 | 819 | 838 |
| Airflow rate | High | $m^3/h$ | 1,990 | 3,000 | 3,350 | 3,900 | 4,300 | 4,850 |
| | Med-High | | 1,810 | - | - | 3,600 | 4,150 | 4,550 |
| | Med | | 1,680 | 2,700 | 2,850 | 3,300 | 4,000 | 4,250 |
| | Med-Low | | 1,500 | - | - | 3,150 | 3,750 | 3,920 |
| | Low | | 1,330 | 2,300 | 2,550 | 3,000 | 3,500 | 3,600 |
| | Quiet | | 1,160 | - | - | 2,850 | 3,250 | 3,280 |
| Static pressure range | | Pa | 0 to 200 | 100 to 250 | 100 to 250 | 0 to 300 | 0 to 300 | 0 to 300 |
| Standard static pressure | | | 100 | 100 | 100 | 150 | 150 | 150 |
| Sound pressure level | High | dB(A) | 42 | 47 | 48 | 47 | 48 | 48 |
| | Med-High | | 39 | - | - | 45 | 47 | 46 |
| | Med | | 36 | 43 | 44 | 43 | 46 | 45 |
| | Med-Low | | 34 | - | - | 41 | 45 | 43 |
| | Low | | 32 | 40 | 41 | 40 | 44 | 42 |
| | Quiet | | 30 | - | - | 38 | 42 | 40 |
| Net Dimensions (H × W × D) | | mm | 400 × 1,050 × 500 | | | 450 × 1,587 × 700 | | 550 × 1,587 × 700 |
| Weight | | kg(lbs) | 40 (88) | 46 (101) | | 84 (185) | | 105 (231) |
| Connection pipe diameter | Liquid | mm | 9.52 (Flare) | | | | | 9.52 (Brazing) |
| | Gas | | 15.88 (Flare) | 19.05 (Flare) | | | | 22.22 (Brazing) |
| Drain hose diameter (I.D./O.D.) | | | 25/32 | | | | | |

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

## Large Airflow Duct (Large type)



| Model name | | | ARXN18GATH | ARXN24GATH | ARXN30GATH | ARXN34GATH | ARXN36GATH | ARXN45GATH |
|---|---|---|---|---|---|---|---|---|
| Power source | | | Single-phase, ~230V, 50Hz | | | | | |
| Capacity | Cooling | kW | 5.6 | 7.1 | 9.0 | 10.0 | 11.2 | 12.5 |
| | Heating | | 6.3 | 8.0 | 10.0 | 11.2 | 12.5 | 14.0 |
| Input power | | W | 154 | 205 | 306 | 432 | 572 | 572 |
| Airflow rate | High | $m^3/h$ | 2,280 | 2,640 | 3,200 | 3,720 | 4,120 | 4,120 |
| | Med | | – | – | – | – | – | – |
| | Low | | – | – | – | – | – | – |
| Static pressure range | | Pa | 50 to 100 | 50 to 150 | 50 to 250 | 50 to 250 | 50 to 300 | 50 to 300 |
| Standard static pressure | | | 50 | 50 | 50 | 50 | 60 | 60 |
| Sound pressure level | High | dB(A) | 35 | 37 | 40 | 43 | 45 | 45 |
| | Med | | – | – | – | – | – | – |
| | Low | | – | – | – | – | – | – |
| Net Dimensions (H × W × D) | | mm | 450 × 1,587 × 700 | | | | | |
| Weight | | kg(lbs) | 84 (185) | | | | | |
| Connection pipe diameter | Liquid | mm | 9.52 (Flare) | | | | | |
| | Gas | | 15.88 (Flare) | | | | 19.05 (Flare) | |
| Drain hose diameter (I.D./O.D.) | | | 25/32 | | | | | |

Note : Specifications are based on the following conditions.
Large Airflow Duct can be connected to V-III series and VR-II series.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

## Large Airflow Duct (Compact type)



| Model name | | | ARXN009GLBH | ARXN012GLBH | ARXN014GLBH | ARXN018GLBH | ARXN024GTBH | ARXN030GTBH |
|---|---|---|---|---|---|---|---|---|
| Power source | | | Single - phase, ~230V, 50Hz | | | | | |
| Capacity | Cooling | kW | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | 9.0 |
| | Heating | | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | 10.0 |
| Input power | | W | 88 | 122 | 122 | 173 | 180 | 273 |
| Airflow rate | High | $m^3/h$ | 1,100 | 1,330 | 1,330 | 1,720 | 2,100 | 2,700 |
| | Me-Hi | | - | - | - | - | 2,050 | 2,390 |
| | Med | | 1,010 | 1,240 | 1,240 | 1,470 | 1,860 | 2,080 |
| | Me-Lo | | - | - | - | - | 1,660 | 1,770 |
| | Low | | 880 | 1,100 | 1,100 | 1,360 | 1,470 | 1,470 |
| | Quiet | | - | - | - | - | 1,260 | 1,260 |
| Static pressure range | | Pa | 0 to 50 | 0 to 50 | 0 to 50 | 0 to 80 | 0 to 100 | 0 to 100 |
| Standard static pressure | | | 25 | 25 | 25 | 50 | 50 | 50 |
| Sound pressure level | High | dB(A) | 32 | 35 | 35 | 36 | 37 | 41 |
| | Me-Hi | | - | - | - | - | 35 | 38 |
| | Med | | 30 | 32 | 32 | 33 | 33 | 34 |
| | Me-Lo | | - | - | - | - | 31 | 31 |
| | Low | | 28 | 29 | 29 | 30 | 28 | 28 |
| | Quiet | | - | - | - | - | 26 | 26 |
| Net Dimensions (H × W × D) | | mm | 198 x 1,100 x 620 | | | 270 × 1,135 × 700 | 300 × 1,400 × 700 | |
| Weight | | kg(lbs) | 26 | | | 40 (88) | 48 (106) | |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | | | | 9.52 | |
| | Gas (Flare) | | 12.70 | | | | 15.88 | |
| Drain hose diameter (I.D./O.D.) | | | 25/32 | | | | | |

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

## Compact Floor



| Model name | | | AGYA004GCEH | AGYA007GCEH | AGYA009GCEH | AGYA012GCEH | AGYA014GCEH | AGYE004GCEH | AGYE007GCEH | AGYE009GCEH | AGYE012GCEH | AGYE014GCEH |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Power source | | | Single-phase, ~230V, 50Hz | | | | | Single-phase, ~230V, 50Hz | | | | |
| Capacity | Cooling | kW | 1.1 | 2.2 | 2.8 | 3.6 | 4.0 | 1.1 | 2.2 | 2.8 | 3.6 | 4.0 |
| | Heating | | 1.3 | 2.8 | 3.2 | 4.0 | 4.5 | 1.3 | 2.8 | 3.2 | 4.0 | 4.5 |
| Input power | | W | 12 / 14 | 16 | 17 | 22 | 29 | 12 / 14 | 16 | 17 | 22 | 29 |
| Airflow rate | High | $m^3/h$ | 380 / 430 | 470 | 500 | 590 | 670 | 380 / 430 | 470 | 500 | 590 | 670 |
| | Med-H | | 350 | 420 | 450 | 520 | 590 | 350 | 420 | 450 | 520 | 590 |
| | Med | | 320 | 390 | 400 | 470 | 520 | 320 | 390 | 400 | 470 | 520 |
| | Med-L | | 310 | 360 | 360 | 420 | 450 | 310 | 360 | 360 | 420 | 450 |
| | Low | | 280 | 330 | 330 | 390 | 390 | 280 | 330 | 330 | 390 | 390 |
| | Quiet | | 210 | 270 | 270 | 340 | 340 | 210 | 270 | 270 | 340 | 340 |
| Sound pressure level | High | dB(A) | 35 / 36 | 37 | 38 | 42 | 46 | 35 / 36 | 37 | 38 | 42 | 46 |
| | Med-H | | 33 | 35 | 36 | 39 | 42 | 33 | 35 | 36 | 39 | 42 |
| | Med | | 31 | 33 | 34 | 37 | 39 | 31 | 33 | 34 | 37 | 39 |
| | Med-L | | 30 | 31 | 31 | 35 | 36 | 30 | 31 | 31 | 35 | 36 |
| | Low | | 28 | 29 | 29 | 33 | 33 | 28 | 29 | 29 | 33 | 33 |
| | Quiet | | 22 | 22 | 22 | 30 | 30 | 22 | 22 | 22 | 30 | 30 |
| Net Dimensions (H × W × D) | | mm | 600 x 740 x 200 | | | | | 600 x 740 x 200 | | | | |
| Weight | | kg(lbs) | 15 (33) | 15 (33) | 15 (33) | 15 (33) | 15 (33) | 14.5 (32) | 14.5 (32) | 14.5 (32) | 14.5 (32) | 14.5 (32) |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | | | 6.35 | | 6.35 | | | 6.35 | |
| | Gas (Flare) | | 9.52 | | | 12.70 | | 9.52 | | | 12.70 | |
| Drain hose diameter (I.D./O.D.) | | | 13.8/15.8to16.7 | | | | | 13.8/15.8to16.7 | | | | |
| EV Kit (option) | | | - | | | | | UTR-EV09XB | | | UTR-EV14XB | |

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When AGY*004GCEH, AGY*007GCEH, and AGY*009GCEH are connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø12.70.

## Floor/Ceiling



| Model name | | | ABYA012GTEH | ABYA014GTEH | ABYA018GTEH | ABYA024GTEH |
|---|---|---|---|---|---|---|
| Power source | | | Single-phase, ~230V, 50Hz | | | |
| Capacity | Cooling | kW | 3.6 | 4.5 | 5.6 | 7.1 |
| | Heating | | 4.0 | 5.0 | 6.3 | 8.0 |
| Input power | | W | 30 | 42 | 74 | 99 |
| Airflow rate | High | $m^3/h$ | 660 | 780 | 1,000 | 1,000 |
| | Med-High | | 620 | 740 | 910 | 930 |
| | Med | | 580 | 690 | 830 | 870 |
| | Med-Low | | 550 | 640 | 750 | 800 |
| | Low | | 520 | 600 | 660 | 740 |
| | Quiet | | 490 | 550 | 580 | 680 |
| Sound pressure level | High | dB(A) | 36 | 40 | 46 | 47 |
| | Med-High | | 34 | 39 | 44 | 45 |
| | Med | | 33 | 38 | 42 | 43 |
| | Med-Low | | 31 | 36 | 40 | 41 |
| | Low | | 29 | 35 | 37 | 39 |
| | Quiet | | 28 | 34 | 35 | 37 |
| Net Dimensions (H × W × D) | | mm | 199 × 990 × 655 | | | |
| Weight | | kg(lbs) | 25 (55) | 26 (57) | 26 (57) | 27 (59) |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | | | 9.52 |
| | Gas (Flare) | | 12.70 | | | 15.88 |
| Drain hose diameter (I.D./O.D.) | | | 25/32 | | | |

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

## Ceiling



| Model name | | | ABYA030GTEH | ABYA036GTEH | ABYA045GTEH | ABYA054GTEH |
|---|---|---|---|---|---|---|
| Power source | | | Single-phase, ~230V, 50Hz | | | |
| Capacity | Cooling | kW | 9.0 | 11.2 | 12.5 | 14.0 |
| | Heating | | 10.0 | 12.5 | 14.0 | 16.0 |
| Input power | | W | 66 | 85 | 131 | 180 |
| Airflow rate | High | $m^3/h$ | 1,630 | 1,690 | 2,010 | 2,270 |
| | Med-High | | 1,520 | 1,560 | 1,840 | 2,070 |
| | Med | | 1,420 | 1,450 | 1,690 | 1,860 |
| | Med-Low | | 1,320 | 1,360 | 1,530 | 1,660 |
| | Low | | 1,220 | 1,270 | 1,380 | 1,470 |
| | Quiet | | 1,140 | 1,170 | 1,230 | 1,280 |
| Sound pressure level | High | dB(A) | 42 | 45 | 48 | 51 |
| | Med-High | | 40 | 41 | 46 | 49 |
| | Med | | 39 | 39 | 45 | 46 |
| | Med-Low | | 37 | 38 | 41 | 43 |
| | Low | | 35 | 36 | 38 | 40 |
| | Quiet | | 33 | 34 | 35 | 36 |
| Net Dimensions (H × W × D) | | mm | 240 × 1,660 × 700 | | | |
| Weight | | kg(lbs) | 46 (101) | 48 (106) | | |
| Connection pipe diameter | Liquid (Flare) | mm | 9.52 | | | |
| | Gas (Flare) | | 15.88 | | | |
| Drain hose diameter (I.D./O.D.) | | | 25/32 | | | |

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].



## Wall Mounted



| Model name | | | ASYA004GTEH | ASYA007GTEH | ASYA009GTEH | ASYE004GTEH | ASYE007GTEH | ASYE009GTEH |
|---|---|---|---|---|---|---|---|---|
| Power source | | | Single-phase, ~230V, 50Hz | | | Single-phase, ~230V, 50Hz | | |
| Capacity | Cooling | kW | 1.1 | 2.2 | 2.8 | 1.1 | 2.2 | 2.8 |
| | Heating | | 1.3 | 2.8 | 3.2 | 1.3 | 2.8 | 3.2 |
| Input power | | W | 13 | 19 | 34 | 13 | 19 | 34 |
| Airflow rate | High | $m^3/h$ | 430 | 550 | 720 | 430 | 550 | 720 |
| | Med-H | | 420 | 460 | 570 | 420 | 460 | 570 |
| | Med | | 390 | 420 | 500 | 390 | 420 | 500 |
| | Med-L | | 380 | 390 | 410 | 380 | 390 | 410 |
| | Low | | 360 | 360 | 360 | 360 | 360 | 360 |
| | Quiet | | 330 | 330 | 330 | 330 | 330 | 330 |
| Sound pressure level | High | dB(A) | 31 | 35 | 43 | 31 | 35 | 43 |
| | Med-H | | 30 | 32 | 38 | 30 | 32 | 38 |
| | Med | | 28 | 30 | 34 | 28 | 30 | 34 |
| | Med-L | | 26 | 27 | 29 | 26 | 27 | 29 |
| | Low | | 24 | 24 | 24 | 24 | 24 | 24 |
| | Quiet | | 22 | 22 | 22 | 22 | 22 | 22 |
| Net Dimensions (H × W × D) | | mm | 262 x 820 x 206 | | | 262 x 820 x 206 | | |
| Weight | | kg(lbs) | 7.5 (17) | 7.5 (17) | 7.5 (17) | 7.0 (15) | 7.0 (15) | 7.0 (15) |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | | | 6.35 | | |
| | Gas (Flare) | | 9.52 | | | 9.52 | | |
| Drain hose diameter (I.D./O.D.) | | | 13.8/15.8 to16.7 | | | 13.8/15.8 to16.7 | | |
| EV Kit (option) | | | – | | | UTR-EV09XB | | |

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When ASY*004GTEH, ASY*007GTEH, ASY*009GTEH are connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø12.70.

## Wall Mounted



| Model name | | | ASYA012GCEH | ASYA014GCEH | ASYE012GCEH | ASYE014GCEH |
|---|---|---|---|---|---|---|
| Power source | | | Single-phase, ~230V, 50Hz | | Single-phase, ~230V, 50Hz | |
| Capacity | Cooling | kW | 3.6 | 4.0 | 3.6 | 4.0 |
| | Heating | | 4.0 | 4.5 | 4.0 | 4.5 |
| Input power | | W | 25 | 36 | 25 | 36 |
| Airflow rate | High | $m^3/h$ | 690 | 800 | 690 | 800 |
| | Med-H | | 610 | 740 | 610 | 740 |
| | Med | | 560 | 680 | 560 | 680 |
| | Med-L | | 530 | 610 | 530 | 610 |
| | Low | | 470 | 550 | 470 | 550 |
| | Quiet | | 330 | 330 | 330 | 330 |
| Sound pressure level | High | dB(A) | 40 | 44 | 40 | 44 |
| | Med-H | | 37 | 42 | 37 | 42 |
| | Med | | 35 | 40 | 35 | 40 |
| | Med-L | | 33 | 37 | 33 | 37 |
| | Low | | 30 | 34 | 30 | 34 |
| | Quiet | | 24 | 24 | 24 | 24 |
| Net Dimensions (H × W × D) | | mm | 268 x 840 x 203 | | 268 x 840 x 203 | |
| Weight | | kg(lbs) | 8.5 (19) | 8.5 (19) | 8.5 (19) | 8.5 (19) |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | | 6.35 | |
| | Gas (Flare) | | 12.70 | | 12.70 | |
| Drain hose diameter (I.D./O.D.) | | | 13.8/15.8 to16.7 | | 13.8/15.8 to16.7 | |
| EV Kit (option) | | | – | | UTR-EV14XB | |

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

## Wall Mounted



| Model name | | | ASYA18GBCH | ASYA24GBCH | ASYA030GTEH | ASYA034GTEH |
|---|---|---|---|---|---|---|
| Power source | | | Single-phase, ~230V, 50Hz | | Single-phase, ~230V, 50Hz | |
| Capacity | Cooling | kW | 5.6 | 7.1 | 9.0 | 10.0 |
| | Heating | | 6.3 | 8.0 | 10.0 | 11.2 |
| Input power | | W | 32 | 60 | 74 | 103 |
| Airflow rate | High | $m^3/h$ | 840 | 1,100 | 1,440 | 1,620 / 1,520 |
| | Med-H | | - | - | 1,200 | 1,300 |
| | Med | | 770 | 910 | 1,050 | 1,120 |
| | Med-L | | - | - | 940 | 980 |
| | Low | | 690 | 730 | 890 | 890 |
| | Quiet | | - | - | 700 | 700 |
| Sound pressure level | High | dB(A) | 41 | 48 | 53 | 55 / 54 |
| | Med-H | | - | - | 49 | 51 |
| | Med | | 39 | 43 | 45 | 47 |
| | Med-L | | - | - | 42 | 43 |
| | Low | | 35 | 35 | 39 | 39 |
| | Quiet | | - | - | 33 | 33 |
| Net Dimensions (H × W × D) | | mm | 320 x 998 x 238 | | 340 x 1,150 x 280 | |
| Weight | | kg(lbs) | 15 (33) | 15 (33) | 18 (40) | 18 (40) |
| Connection pipe diameter | Liquid (Flare) | mm | 6.35 | 9.52 | 9.52 | |
| | Gas (Flare) | | 12.70 | 15.88 | 15.88 | |
| Drain hose diameter (I.D./O.D.) | | | 12/16 | | 13.8/15.8 to16.7 | |

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When ASYA18GBCH is connected to the outdoor unit other than J-IIIL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas).

## Residential, Commercial & Light Commercial

# VENTILATION

214 VENTILATION Lineup
216 Energy Recovery Ventilator
218 DX-Kit for Air Handling Application
• for VRF Outdoor Unit
220 **New** DX-Kit for Air Handling Application
• for Single Split Outdoor Unit



## Lineup

| Airflow rate ($m^3$/h) | 250 | 350 | 500 | 800 | 1000 |
|---|---|---|---|---|---|
| **Energy Recovery Ventilator** |  UTZ-BD025C |  UTZ-BD035C |  UTZ-BD050C |  UTZ-BD080C |  UTZ-BD100C |

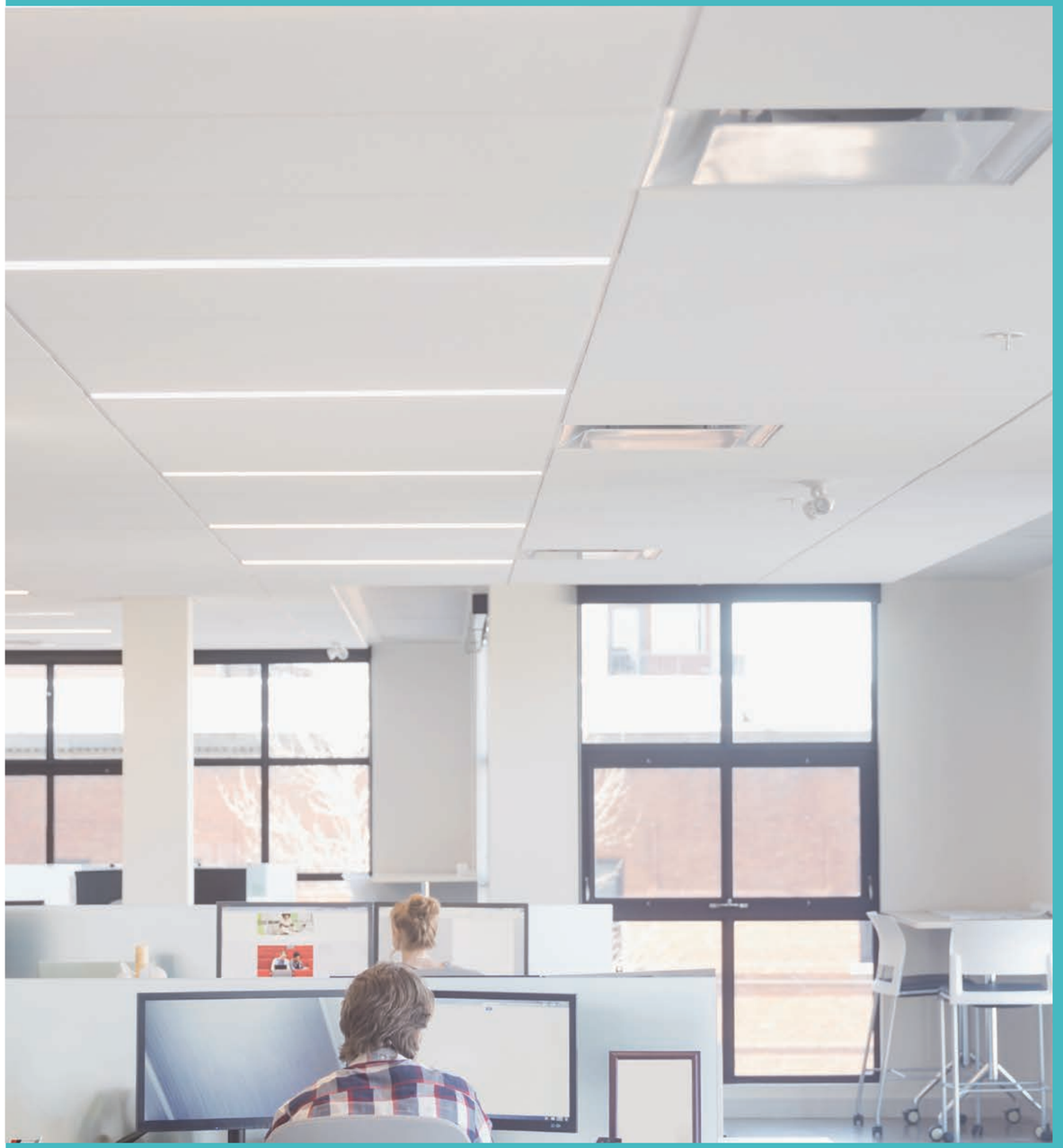
| Connectable capacity class (kW) | 5.0 | 6.3 | 8.0 | 10.0 | 12.5 | 14.0 | 20.0 | 25.0 | 40.0 | 50.0 |
|---|---|---|---|---|---|---|---|---|---|---|
| **DX-Kit for Air Handling Applications for VRF Outdoor Unit** |  EEV unit UTP-VX30A |  Control unit UTY-VDGX | |  EEV unit UTP-VX60A |  Control unit UTY-VDGX | |  EEV unit UTP-VX90A |  Control unit UTY-VDGX |  EEV unit UTP-VX90A×2 |  Control unit UTY-VDGX |

| Connectable capacity class (kW) | 3.5 - 22.0 |
|---|---|
| **DX-Kit for Air Handling Applications for Single Split Outdoor Unit** NEW |  UTY-XDZX |

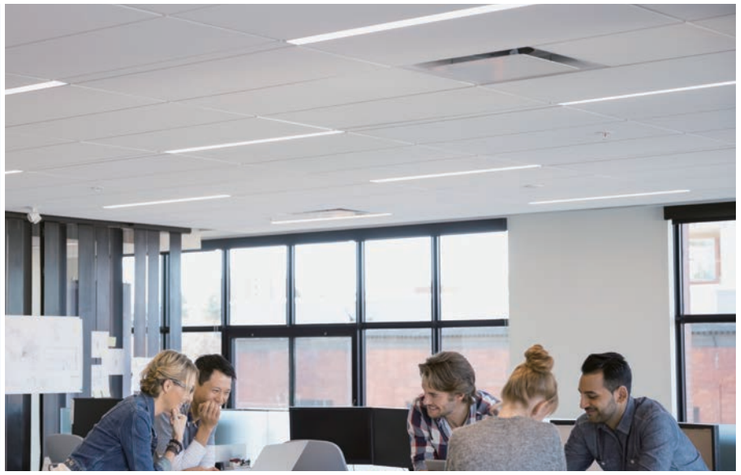


## Effective heat exchange and simultaneous fresh air ventilation

High Efficiency and low noise levels are achieved by using a highly efficient heat exchange process. A comfortable air conditioned space is achieved by conveniently selecting whether to use heat exchange or normal ventilation setting, according to the requirements of the conditioned space.



# Energy Recovery Ventilator

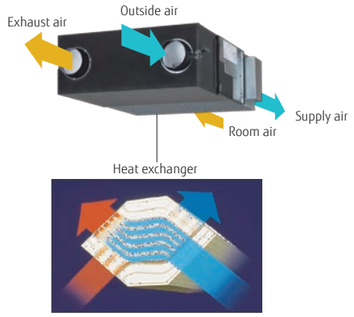


Energy recovery ventilator unit offers maximum comfort and greater energy savings.

## Heat exchange ventilation and normal ventilation

**Heat exchange ventilation**
When a room is cooled or heated, the exhausted cooling / heating energy is recovered by heat-exchange ventilation.

**Normal ventilation**
The operation is used during periods when the room space requires no cooling or heating effect, i.e. when there is minimal temperature difference between the indoor and outdoor environments.



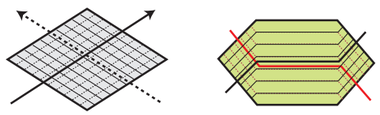

**Adopts a highly efficient counter-flow heat exchange element**

## Energy efficiency and ecology

Energy consumption is dramatically reduced by using a counter-flow heat-exchange element. Air conditioning load is reduced by approximately 20%, resulting in significant energy savings. Recovers up to 77% of the heat in the outgoing air.

## Features of heat exchange element

With the cross-flow element, air moves in a straight line across the element. With the counter-flow element, air flows through the element for a longer time (longer distance), so the heat-exchange effect improved.



Other element (Cross-flow element)



Fujitsu element (Counter-flow element)

## Quiet operation

Significantly reducing low pressure loss and noise allows low-noise operation.

**25.5dB**
(UTZ-BD035C)

## Extended range of an external static pressure

An external static pressure is improved by adopting a powerful fan motor. This allows for application in a wide variety building.

## Slim shape and easier installation

Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.

Height **270 mm**
UTZ-BD025C



Height **388 mm**
UTZ-BD080C/BD100C

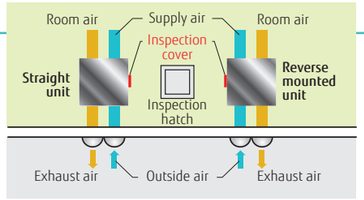


Height **317 mm**
UTZ-BD035C/BD050C



## Reverse mountable direct air supply / exhaust system

Adoption of straight air supply / exhaust system: Duct design is simplified because the air supply / exhaust ducts are straight.
Since each unit can be mounted in reverse position, only one inspection hole is needed for two units: Two units can share one inspection hole so duct work is easier and more flexible.



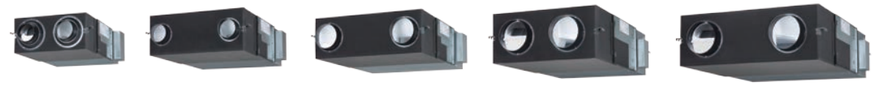

## Simple remote operation

Easy operation by connecting a liquid crystal switch

- POWER ON/OFF
- ON/OFF Timer
- Air volume High/Low
- Clean filter display
- Heat exchange/Normal Ventilation



**Model : UTZ-BD025C / UTZ-BD035C / UTZ-BD050C / UTZ-BD080C / UTZ-BD100C**



UTZ-BD025C UTZ-BD035C UTZ-BD050C UTZ-BD080C UTZ-BD100C

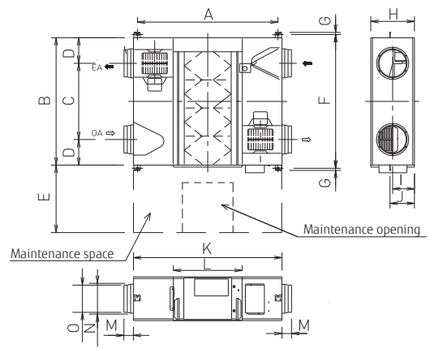
### Specifications

| Rated flow rate | | | | 250 m³/h | 350 m³/h | 500 m³/h | 800 m³/h | 1000 m³/h |
|---|---|---|---|---|---|---|---|---|
| Model No. | | | | UTZ-BD025C | UTZ-BD035C | UTZ-BD050C | UTZ-BD080C | UTZ-BD100C |
| Power source | | | | 220 - 240 V, 50Hz | | | | |
| Heat Exchange Ventilation | Input power | (Extra high)/High/Low | W | 128 / 123 / 96 | 190 / 185 / 168 | 289 / 225 / 185 | 418 / 378 / 295 | 464 / 432 / 311 |
| | Air flow rate | (Extra high)/High/Low | m³/h | 250 / 250 / 190 | 350 / 350 / 240 | 500 / 500 / 440 | 800 / 800 / 630 | 1,000 / 1,000 / 700 |
| | External static pressure | (Extra high)/High/Low | Pa | 105 / 95 / 45 | 140 / 60 / 45 | 120 / 60 / 35 | 140 / 110 / 55 | 105 / 80 / 75 |
| | Temperature Exchange Efficiency | (Extra high)/High/Low | % | 75 / 75 / 77 | 75 / 75 / 78 | 75 / 75 / 76 | 75 / 75 / 76 | 75 / 75 / 79 |
| | Energy Exchange Efficiency Cooling | (Extra high)/High/Low | % | 63 / 63 / 65 | 66 / 66 / 71 | 62 / 62 / 64 | 65 / 65 / 68 | 65 / 65 / 70 |
| | Energy Exchange Efficiency Heat pump | (Extra high)/High/Low | % | 70 / 70 / 72 | 69 / 69 / 73 | 67 / 67 / 69 | 71 / 71 / 74 | 71 / 71 / 76 |
| | Sound pressure level | (Extra high)/High/Low | dB* | 31.5 / 30.5 / 26.5 | 33.0/31.0 / 25.5 | 37.5 / 35.5 / 32.5 | 37.5 / 37.0 / 34.5 | 38.5 / 37.5 / 34.5 |
| Normal Ventilation | Input power | (Extra high)/High/Low | W | 128 / 123 / 96 | 190 / 185 / 168 | 289 / 225 / 185 | 418 / 378 / 295 | 464 / 432 / 311 |
| | Air flow rate | (Extra high)/High/Low | m³/h | 250 / 250 / 190 | 350 / 350 / 240 | 500 / 500 / 440 | 800 / 800 / 630 | 1,000 / 1,000 / 700 |
| | External static pressure | (Extra high)/High/Low | Pa | 105 / 95 / 45 | 140 / 60 / 45 | 120 / 60 / 35 | 140 / 110 / 55 | 105 / 80 / 75 |
| | Sound pressure level | (Extra high)/High/Low | dB* | 31.5 / 30.5 / 26.5 | 33.0 / 31.0 / 25.5 | 38.5 / 38.0 / 32.5 | 37.5 / 37.0 / 34.5 | 40.5 / 39.5 / 36.5 |
| Dimensions | | W×D×H | mm | 882 × 599 × 270 | 1,050 × 804 × 317 | 1,090 × 904 × 317 | 1,322 × 884 × 388 | 1,322 × 1,134 × 388 |
| Weight | | | kg | 29 | 49 | 57 | 71 | 83 |
| Outlet duct diameter | | | mm | 150 | 150 | 200 | 250 | 250 |
| Operation range | | | ℃ | -10 to 40 | -10 to 40 | -10 to 40 | -10 to 40 | -10 to 40 |
| Maximum humidity | | | % | 85 | 85 | 85 | 85 | 85 |

* The noise level must be measured 1.5 m below the center of the unit.

### Dimensions

(Unit : mm)



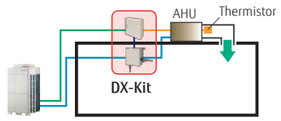

| | UTZ-BD025C | UTZ-BD035C | UTZ-BD050C | UTZ-BD080C | UTZ-BD100B |
|---|---|---|---|---|---|
| A | 810 | 978 | 1,018 | 1,250 | 1,250 |
| B | 599 | 804 | 904 | 884 | 1,134 |
| C | 315 | 580 | 640 | 428 | 678 |
| D | 142 | 112 | 132 | 228 | 228 |
| E | 600 | 600 | 600 | 600 | 600 |
| F | 655 | 860 | 960 | 940 | 1,190 |
| G | 19 | 19 | 19 | 19 | 19 |
| H | 270 | 317 | 317 | 388 | 388 |
| I | 135 | 159 | 159 | 194 | 194 |
| J | 159 | 182 | 182 | 218 | 218 |
| K | 882 | 1,050 | 1,090 | 1,322 | 1,322 |
| L | 414 | 470 | 470 | 612 | 612 |
| M | 95 | 70 | 70 | 85 | 85 |
| N | Ø164 | Ø164 | Ø210 | Ø258 | Ø258 |
| O | Ø144 | Ø144 | Ø194 | Ø242 | Ø242 |

# DX-Kit
## for Air Handling Application
### for VRF Outdoor Unit

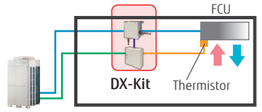


These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or, be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).

## Multiple temperature sensors optimally control the air handling unit and fan coil unit.

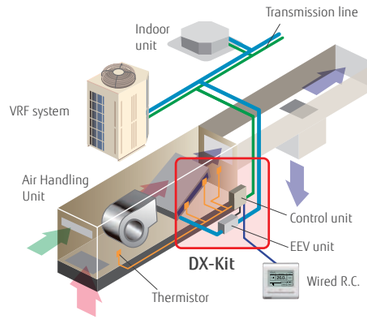



When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.



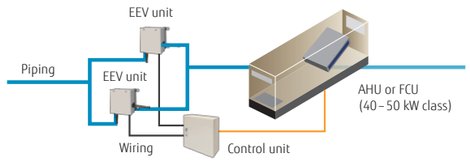

When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

**Arrangement as part of a VRF system**



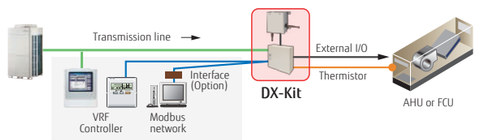

## Supports a wide range of capacity classes

- 2 EEV units can be connected in parallel and up to 20 HP (50 kW) large capacity units. (Separation Tube of UTP-LX180A is required.)
- Connectable capacity range: 5 kW to 50 kW

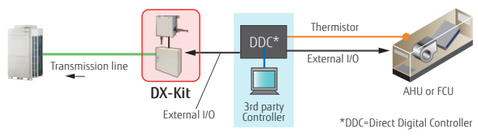



## A variety of controls to match the application

Central control using our VRF controllers or central management controllers




Central control from external controllers




## Functions Summary

### Inputs
- ON/OFF
- Setting temperature
- Capacity demand
- Heating / Cooling operation mode
- Fault information

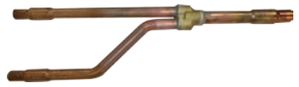
### Outputs
- ON/OFF indication
- Fan ON/OFF indication
- Thermo ON/OFF indication
- Defrost indication
- Fault indication

### MODBUS® Control
Possible to control via a MODBUS enabled BMS by using optional interface.

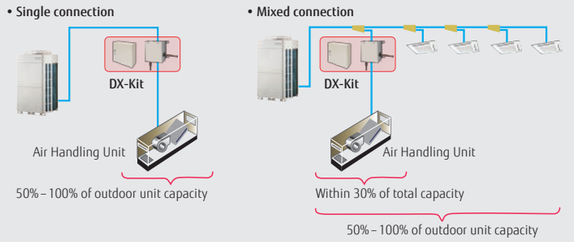
## Installation Limitation

- Connectable VRF series: All VRF series
- Connectable DX-Kit system capacity range: 50 to 100% of the outdoor unit capacity
- Connectable DX-Kit system capacity range with indoor units: 30% or less of the outdoor unit capacity
- Max. wiring length from control unit: 10 m
- Max. piping length between EEV unit and indoor unit: 5 m
- Outdoor installation: Control unit (IP54 class) and EEV unit can be installed at an outdoor space.

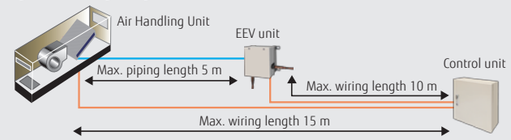
**For 2 EEV units connection (option)**
**Separation Tube: UTP-LX180A**



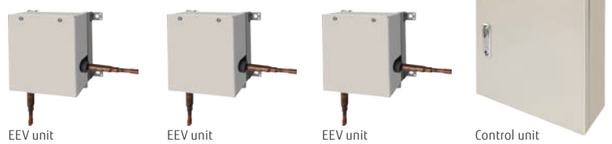
**Connectable capacity**




**Piping and wiring length**




**Control unit: UTY-VDGX**
**EEV unit: UTP-VX30A / UTP-VX60A / UTP-VX90A**



EEV unit UTP-VX30A | EEV unit UTP-VX60A | EEV unit UTP-VX90A | Control unit UTY-VDGX

### Specifications

| Connectable Capacity class | | | 5.0 kW | 6.3 kW | 8.0 kW | 10.0 kW | 12.5 kW | 14.0 kW | 20.0 kW | 25.0 kW | 40.0 kW | 50.0 kW |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity | Cooling | kW | 5.6 | 6.3 | 8.0 | 10.0 | 12.5 | 14.0 | 22.4 | 25.0 | 40.0 | 50.4 |
| | Heating | | 6.3 | 7.1 | 9.0 | 11.2 | 14.0 | 16.0 | 25.0 | 28.0 | 45.0 | 56.5 |

| Control unit | | UTY-VDGX |
|---|---|---|
| Power source | V/Ø/Hz | 230/1/50 |
| Dimensions (H × W × D) | mm | 400 × 400 × 120 |

| EEV unit | | UTP-VX30A | UTP-VX60A | UTP-VX90A | UTP-VX90A×2 |
|---|---|---|---|---|---|
| Connection pipe diameter (Liquid) | mm | Ø9.53 | Ø12.70 | Ø12.70 | Ø12.70 |
| Dimensions (H × W × D) | | 160 × 220 × 90 | | | |

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5 m Voltage : 230 [V].

NEW

# DX-Kit

## for Air Handling Application

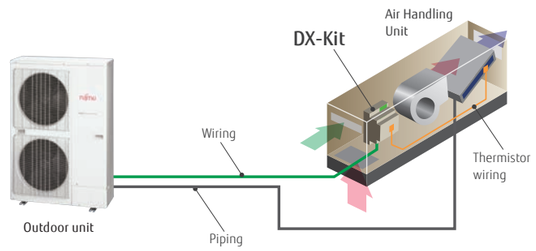
### for Single Split Outdoor Unit



This kit enables other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu General Split outdoor unit.

## Flexible connectivity

This kit is a control unit to allow connection to third party manufacturer equipment. Fujitsu General single split outdoor units can be used with this control unit, creating an ideal solution when a unique air handling unit is required.



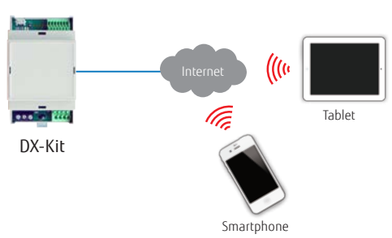

## Supports a wide range of capacity class

Connectable large capacity range: 3.5 kW ~ 22.0 kW (Nominal)




## Operation from anywhere on your mobile device

Available to use operation and management from remote control such as Smartphones and Tablets




## Functions Summary

### Inputs

- ON/OFF
- Heating/Cooling operation mode
- Capacity demand (analogue 0-10 V)
- Heat exchanger temperature

### Outputs

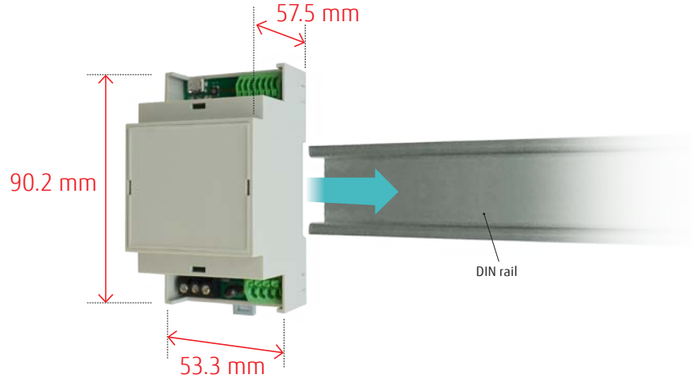
- Status of Compressor, Defrost, Error (Potential free relays)
- LED status indication

### Wireless LAN Control

Wireless LAN control with cloud connectivity enables safe remote monitoring and control from anywhere.

## Easy installation

- Simple installation through compact DIN rail mountable enclosure
- No need for expansion devise
- No separate external power required




**model: UTY-XDZX**



### Specifications

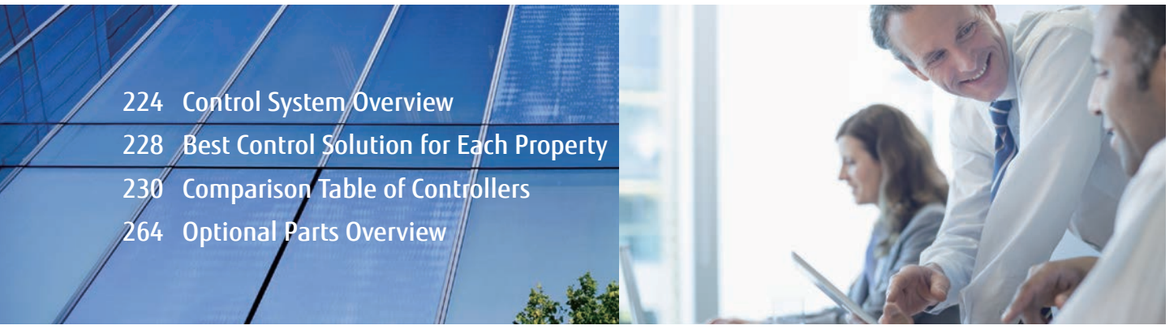
| BTU | | | 12 | 14 | 18 | 24 | 30 | 36 | 45 | 54 | 60 | 72 | 90 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Capacity (Nominal) | Cooling | kW | 3.5 | 4.3 | 5.2 | 6.8 | 8.5 | 9.4 | 12.1 | 13.3 | 15.0 | 19.0 | 22.0 |
| | Heating | | 4.1 | 5.0 | 6.0 | 7.8 | 10.0 | 10.8 | 13.3 | 15.8 | 18.0 | 22.4 | 27.0 |

| Model No. | | UTY-XDZX |
|---|---|---|
| Power source | V/Ø/Hz | 230/1/50 |
| Dimensions (H × W × D) | mm | 90.2 × 53.3 × 57.5 |
| Weight | g | 110 |

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 5.0 m Voltage : 230 [V].

## Light Commercial & Commercial, Residential

# CONTROL SYSTEM
# & OPTIONAL PARTS



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264 Optional Parts Overview



### CONTROL SYSTEM

**INDIVIDUAL CONTROL**
232 Wired Remote Controller (Touch Panel)
233 Wired Remote Controller
234 Simple Remote Controller

**CONVERTOR/ADAPTOR**
235 MODBUS® Convertor
KNX® Convertor
236 **New** Wireless LAN Interface
237 External Switch Controller
238 Network Convertor for Single Split

**INDIVIDUAL CONTROL**
239 Wired Remote Controller
240 Wireless Remote Controller
241 IR Receiver Unit

**CENTRALIZED CONTROL**
242 Central Remote Controller

**CONVERTOR/ADAPTOR**
243 MODBUS® Interface
KNX® Interface
244 Wireless LAN Interface

**INDIVIDUAL CONTROL**
245 Wireless Remote Controller
IR Receiver Unit
* For 3D Flow Cassette **New**

**CENTRALIZED CONTROL**
246 Group Remote Controller/ Network Convertor
247 **New** Central Remote Controller
248 Touch Panel Controller
252 System Controller Software
System Controller Lite Software

**CONVERTOR/ADAPTOR**
256 BACnet® Gateway Software
257 BACnet® Gateway Hardware
Network Convertor for LONWORKS®
258 MODBUS® Convertor
KNX® Convertor
259 Signal Amplifier

260 Control System List

### OPTIONAL PARTS

266 Auto Louver Grille Kit
267 **New** External Power Supply Unit

268 Optional Parts List
272 Function List
276 Separation Tube etc.

SPLIT
MULTI SPLIT
VRF J-Series
VRF V-Series



## Wide product lineup to meet a variety of needs

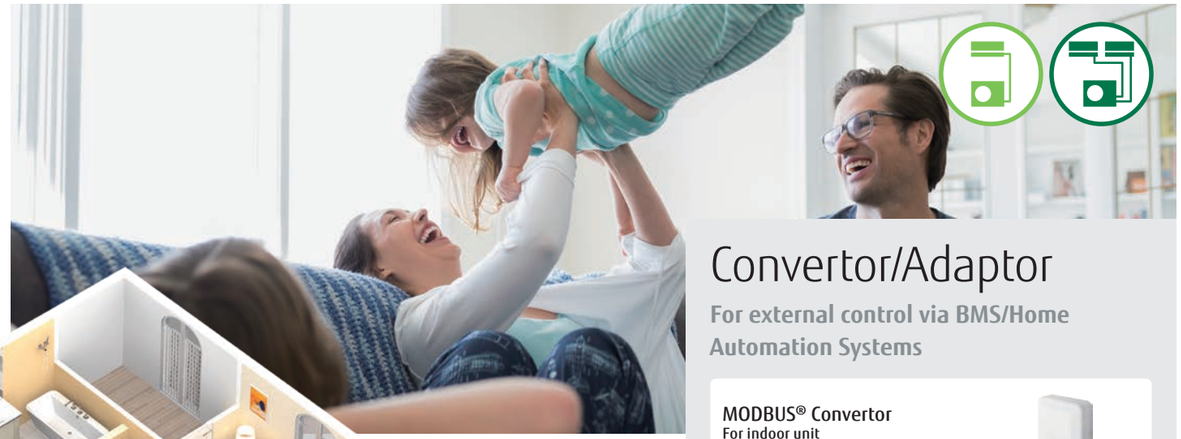
We can flexibly meet customer needs through a variety of offerings including wired and wireless individual remote controllers, central remote controllers that simultaneously control multiple indoor units, and a variety of convertors that link with other systems.



# Control System Overview

## For Split & Multi Split

All indoor units are provided with wireless or wired remote controllers as standard equipment. Other options, such as individual and central remote controllers, are also available. The easy-to-operate central remote controller makes it simple to control the operation mode, temperature, airflow volume, timer, and other functions of each indoor unit from a single location.





### Air Conditioning
## Individual Control



**Wired Remote Controller**
The room temperature can be controlled by detecting the temperature accurately from the built-in sensor

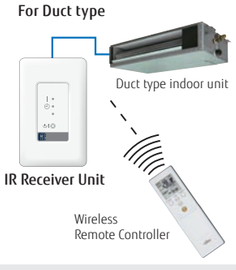


**Wireless Remote Controller**
Simple and sophisticated operations with a choice of 4 daily timers



**Simple Remote Controller**
Compact remote controller provides access to basic functions

For Duct type




For Cassette type



**IR Receiver Unit**
Necessary to control for all duct type by Wireless Remote Controller

### Air Conditioning
## Centralized Control



**Central Remote Controller For 5-6 & 8 Rooms Multi**
Central Remote Controller allows individual and central control

## Convertor/Adaptor

### For external control via BMS/Home Automation Systems

**MODBUS® Convertor**
For indoor unit
UTY-VMSX



**MODBUS® Interface**
For indoor unit
FJ-RC-MBS-1



**KNX® Convertor**
For indoor unit
UTY-VKSX



**KNX® Interface**
For indoor unit
FJ-RC-KNX-1i



**Wireless LAN Interface**
FJ-RC-WIFI-1



**Network Convertor**

(DC power supply)
UTY-VTGX



(AC power supply)
UTY-VTGXV



## Online Control (Wireless Control via Smart Phone/Tablet)

By using our Wireless LAN Interface and FGLair app, you can control your home's cooling and heating anytime and anywhere.

**Wireless LAN Interface**
The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.

NEW



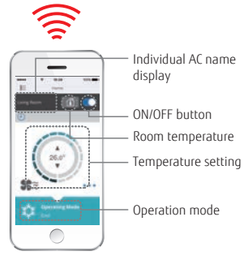
Wireless LAN Interface (USB)



+

FGLair™ Download Free
Download on the App Store
Google play

**User friendly app**
User friendly screen display facilitates easy operation.



# Control System Overview

For VRF

User's needs are supported by offering a variety of controls, such as individual control, central control and building management control options.

## Air Conditioning
## Individual Control



**Wired Remote Controller**
**(Touch panel)**
UTY-RNRYZ3



**Wired Remote Controller**
UTY-RLRY



**Simple Remote Controller**
UTY-RSRY
UTY-RHRY
Without operation mode



**Wireless Remote Controller**
UTY-LNHY



For Duct



**New**
For 3D Flow Cassette/ Duct



For Cassette



For Circular Flow Cassette

**IR Receiver Unit**

UTB-YWC For Duct

NEW

UTY-TRHX
For 3D Flow Cassette/Duct

UTY-LRHYB1 For Cassette
UTY-LBHXD
For Circular Flow Cassette

## Air Conditioning
## Centralized Control




**System Controller** Software
UTY-APGXZ1/UTY-ALGXZ1 (Lite edition)

Max. Controllable 1600*2 indoor units

*1: USB Adaptor: Echelon® U10 USB Network Interface
*2: Lite edition is max. controllable 400 indoor units




**Touch Panel Controller**
UTY-DTGYZ1

Max. Controllable 400 indoor units



NEW

**Central Remote Controller**
UTY-DCGYZ1

Max. Controllable 100 indoor units



**Group Remote Controller**
UTY-CGGY

**Network Convertor**
**(For Group Remote Controller)**
UTY-VGGXZ1

Max. Controllable 8 Remote Controller Groups





## Convertor/Adaptor

**For external control via BMS/Home Automation Systems**

**BACnet® Gateway**
UTY-ABGXZ1 Software



**BACnet® Gateway**
UTY-VBGX Hardware



**Network Convertor**
**(For LONWORKS®)**
UTY-VLGX



**MODBUS® Convertor** For indoor unit
UTY-VMSX



**MODBUS® Convertor**
UTY-VMGX



**KNX® Convertor** For indoor unit
UTY-VKSX



**KNX® Convertor** For VRF
UTY-VKGX



**Wireless LAN Interface**
UTY-TFSXZ1



**External Switch Controller**
UTY-TERX



**Card-key**
(Locally purchased)



**Internet device**

**BMS/BAS**[*3]



**BMS**[*3]**, Home automation system**



or



*3: BMS/BAS: Building Management System/Building Automation System

## Convertor/Adaptor

**For system expansion**

**Network Convertor**
**(DC power supply)**
UTY-VTGX




**Network Convertor**
**(AC power supply)**
UTY-VTGXV




**Signal Amplifier**
UTY-VSGXZ1



# Best Control Solution for Each Property

Fujitsu General provides the best control solutions suitable for the various properties.

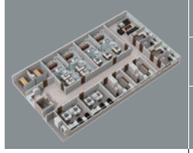
## SHOP

| Type | Individual Control | Centralized Control | | | | Integrating Control (Interface) | | |
|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |  |
| | Wired Remote Controller | Group Remote Controller | Central Remote Controller | Touch Panel Controller | System Controller | Network Convertor for LonWorks® | MODBUS® Convertor | KNX® Convertor |
| | UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM | UTY-CGGY | UTY-DCGYZ1 | UTY-DTGYZ1 | UTY-APGXZ1, UTY-ALGXZ1 | UTY-VLGX | UTY-VMGX | UTY-VKGX |
| Automatic control of A/C (Schedule timer, Weekly timer etc.) | ● | ● | ● | ● | ● | | | |
| Limited control for staff (RC Prohibition, Room temp set point limitation etc.) | | | ● | ● | ● | ● | ● | ● |
| Group Control | | ● | ● | ● | ● | | | |
| Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.) | | | | | ● | | | |
| Remote Management | | | ● | ● | ● | | | |
| Manage multiple sites | | | ● | ● | ● | | | |
| Monitor energy consumption | | | | | ● | | | |
| Control third party products | | | | | ● | | | |
| Integrate FGL A/C into BMS | | | | | | ● | ● | ● |

## HOTEL

| Type | Individual Control | | | Centralized Control | | | | Integrating Control (Interface) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| | Wired Remote Controller | Simple Remote Controller | Wireless Remote Controller | Group Remote Controller | Central Remote Controller | Touch Panel Controller | System Controller | BACnet® Gateway | Network Convertor for LonWorks® | MODBUS® Convertor | KNX® Convertor | External Switch Controller |
| | UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM | UTY-RSRY, UTY-RHRY, UTY-RSNYM | UTY-LNHY, UTY-LNTY, UTY-LNTX | UTY-CGGY | UTY-DCGYZ1 | UTY-DTGYZ1 | UTY-APGXZ1, UTY-ALGXZ1 | UTY-ABGXZ1, UTY-VBGX | UTY-VLGX | UTY-VMGX | UTY-VKGX | UTY-TERX |
| Local control for hotel guest | ● | ● | ● | | | | | | | | | |
| Centralized A/C control for common space | | | | ● | ● | ● | ● | ● | ● | ● | ● | |
| Limited control for hotel guests | | | | | ● | ● | ● | ● | ● | ● | ● | |
| Remote Management | | | | | ● | ● | ● | | | | | |
| Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.) | | | | | | | ● | ● | | | | |
| Monitor energy consumption | | | | | | | ● | | | | | |
| Control third party products | | | | | | | ● | | | | | |
| Integrate FGL A/C into BMS | | | | | | | | ● | ● | ● | ● | |
| Interlock with window contact | | | | | | | | | | | | ● |
| Interlock with key-card | | | | | | | | | | | | ● |

## OFFICE

| Type | Individual Control | | | Centralized Control | | | | Integrating Control (Interface) | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
|  |  |  |  |  |  |  |  |  |  |  |  |  |
| | Wired Remote Controller | Simple Remote Controller | Wireless Remote Controller | Group Remote Controller | Central Remote Controller | Touch Panel Controller | System Controller | BACnet® Gateway | Network Convertor for LonWorks® | MODBUS® Convertor | KNX® Convertor | External Switch Controller |
| | UTY-RNRYZ3, UTY-RLRY | UTY-RSRY, UTY-RHRY, UTY-RSNYM | UTY-LNHY, UTY-LNTY, UTY-LNTX | UTY-CGGY | UTY-DCGYZ1 | UTY-DTGYZ1 | UTY-APGXZ1, UTY-ALGXZ1 | UTY-ABGXZ1, UTY-VBGX | UTY-VLGX | UTY-VMGX | UTY-VKGX | UTY-TERX |
| Local control for office staff | ● | ● | ● | ● | ● | | | | | | | |
| Automatic control of A/C (Schedule timer, Weekly timer etc.) | ● | | ● | ● | ● | ● | ● | ● | | | | |
| Centralized A/C control for management | | | | | ● | ● | ● | ● | ● | ● | ● | |
| Limited control for office staff (RC Prohibition, Room temp set point limitation etc.) | | | | | ● | ● | ● | ● | ● | ● | ● | |
| Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.) | | | | | | | ● | ● | | | | |
| Remote Management | | | | | ● | ● | ● | | | | | |
| Energy Charge Apportionment | | | | | | ● | ● | ● | | | | |
| Monitor energy consumption | | | | | | | ● | | | | | |
| Control third party products | | | | | | | ● | | | | | |
| Integrate FGL A/C into BMS | | | | | | | | ● | ● | ● | ● | |
| Interlock with door contact | | | | | | | | | | | | ● |
| Interlock with human sensor for meeting room | | | | | | | | | | | | ● |

# Comparison Table of Controllers

| Item | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Wired Remote Controller (Touch panel) | Wired Remote Controller | Wired Remote Controller | Simple Remote Controller | Simple Remote Controller | Simple Remote Controller*1 | Wireless Remote Controller | Wireless Remote Controller | Central Remote Controller (For 8 rooms Multi) | Group Remote Controller | Central Remote Controller | Touch Panel Controller | System Controller Lite Software | System Controller Software |
| Model name | | | UTY-RNRYZ3 | UTY-RLRY | UTY-RVNYM | UTY-RSNYM | UTY-RSRY | UTY-RHRY | UTY-LNHY | UTY-LNTY, UTY-LNTX | UTY-DMMYM | UTY-CGGY | UTY-DCGYZ1 | UTY-DTGYZ1 | UTY-ALGXZ1 | UTY-APGXZ1 |
| Max. controllable remote controller groups | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8 | 100 | 400 | 400 | 1600 |
| Max. controllable indoor units | | | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 8 | 128 | 100 | 400 | 400 | 1600 |
| Max. controllable groups | | | – | – | – | – | – | – | – | – | – | – | 50 | 400 | 400 | 1600 |
| Air conditioning control function | On / Off | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Operation mode setting | | ● | ● | ● | ● | ● | – | ● | ● | ● | ● | ● | ● | ● | ● |
| | Fan speed setting | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Room temp. setting | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Room temp. set point limitation | | ● | ● | ● | – | ● | ● | – | – | – | – | ● | ● | ● | ● |
| | Test operation | | ● | ● | ● | ● | ● | ● | ● | ● | – | – | ● | ● | – | – |
| | Up/down air direction flap setting | | ● | ● | ● | – | ● | ● | ● | ● | – | – | ● | ● | ● | ● |
| | Right/left air direction flap setting | | ● | ● | ● | – | – | – | ● | – | – | – | ● | ● | ● | ● |
| | Individual louver control | | ● | – | – | – | – | – | – | – | – | – | ●*3 | ● | – | – |
| | Group setting | | – | – | – | – | – | – | – | – | – | – | ● | ● | ● | ● |
| | RC prohibition | | – | – | – | – | – | – | – | – | ● | – | ● | ● | ● | ● |
| | Anti freeze setting | | ● | – | – | – | – | – | – | – | – | – | ● | ● | ● | ● |
| | Set temp. auto return | | ● | ● | ● | – | – | – | – | – | – | – | – | ● | – | – |
| | Economy mode setting | | ● | ● | ● | – | – | – | ● | ● | ● | – | ● | ● | ● | ● |
| | Human sensor control | | ● | – | – | – | – | – | – | – | ● | – | – | ● | ● | ● |
| Display | Error | | ● | ● | ● | ● | ● | ● | – | – | ● | ● | ● | ● | ● | ● |
| | Defrosting | | ● | ● | ● | ● | ● | ● | – | – | – | – | ● | ● | ● | ● |
| | Current time | | ● | ● | ● | – | – | – | ● | ● | ● | ● | ● | ● | ● | ● |
| | Day of week | | ● | ● | ● | – | – | – | – | – | – | ● | ● | ● | ● | ● |
| | R.C. prohibition | | ● | ● | ● | ● | ● | ● | – | – | ● | ● | ● | ● | ● | ● |
| | Cooling/heating priority | | ● | ● | – | ● | ● | ● | – | – | – | ● | ● | ● | ● | ● |
| | Address display | | ● | ● | ● | ● | ● | ● | – | – | – | ● | ● | ● | ● | ● |
| | Room temp | | ● | – | ● | – | ● | ● | – | – | – | – | – | ● | – | – |
| | Multi language | | ● | – | ● | – | – | – | – | – | ● | – | ● | ● | ● | ● |
| | Summer time | | ● | – | ● | – | – | – | – | – | ● | – | ● | ● | ● | ● |
| | Name registration | | ● | – | – | – | – | – | – | – | – | – | ● | ● | ● | ● |
| | Backlight | | ● | – | ● | ● | ● | ● | – | – | ● | – | ● | ● | – | – |
| | 2D floor layout / 3D building display | | – | – | – | – | – | – | – | – | – | – | – | – | – | ● |
| | Refrigerant leakage detection function | | – | – | – | – | – | – | – | – | – | – | ● | ● | ● | ● |
| Timer | Schedule timer | Period | Week | Week | Week | – | – | – | – | – | Week | Week | Week | Year | Year | Year |
| | | On/off, Temp, Mode, Times per day | 8 | 4 | 8 | – | – | – | – | – | 4 | 4 | 20 | 20 | 144 | 144 |
| | On/off timer | | ● | ● | ● | – | – | – | ● | ● | – | – | – | – | – | – |
| | Sleep timer | | – | – | – | – | – | – | ● | ● | – | – | – | – | – | – |
| | Program timer | | – | – | – | – | – | – | ● | ● | – | – | – | – | – | – |
| | Auto off timer | | ● | ● | ● | – | – | – | – | – | – | – | ● | ● | – | – |
| | Day off | | ● | ● | ● | – | – | – | – | – | ● | – | ● | ● | ● | ● |
| | Min. unit of timer setting (Minutes) | | 10 • 30 | 30 | 30 | – | – | – | 5 | 5 | 5 | 10 | 10 | 10 | 10 | 10 |
| Control | Status monitoring system | | – | – | – | – | – | – | – | – | – | – | ● | ● | ● | ● |
| | Electricity charge apportionment | | – | – | – | – | – | – | – | – | – | – | – | ○ | ○ | ● |
| | Error history | | ● | ● | ● | – | – | – | – | – | – | ● | ● | ● | ● | ● |
| | Emergency stop | | – | – | – | – | – | – | – | – | – | – | ●*2 | ●*2 | – | – |
| | Remote management | | – | – | – | – | – | – | – | – | – | – | ● | ● | ○ | ● |
| | Energy saving management | | – | – | – | – | – | – | – | – | – | – | – | – | ○ | ○ |
| | E-mail notification for malfunction | | – | – | – | – | – | – | – | – | – | – | ● | ● | ● | ● |
| | Key lock | | ● Child lock | ● Child lock | ● Child lock | – | – | – | – | – | ● Child lock | ● Child lock | ● Password setting | ● Password setting | ● Password setting | ● Password setting |
| | Low noise mode | | – | – | – | – | – | – | – | – | ● | – | – | ● | – | – |

*1 "Operation mode" setting is not available for this model. *2 This function is available only through external input control. *3 Only individual airflow batch reset is mounted.
●: Supported ○: Optional function –: Not supported yet

# Wired Remote Controller (Touch Panel)

**UTY-RNRYZ3**



Max. Controllable
16 indoor units

Max. Controllable
1 Group

## Easy operation by high-definition large STN-LCD touch panel screen

- Easy finger touch operation with LCD panel
- Built-in weekly/Daily timer (ON/OFF, Temp., Mode)
- Backlight enables easy operation in a darkened room
- Room temperature display
- Control up to 16 indoor units
- Corresponds to 12 different languages (English, Chinese, French, German, Spanish, Russian, Polish, Italian, Greek, Portuguese, Turkish and Dutch)
- 2-wire type

## High performance and compact size

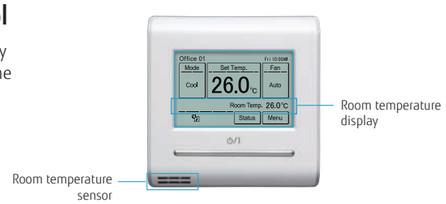
In addition to the individual control, weekly timer, and various energy saving controls can be realized using one remote controller only.

Individual control + Thermo sensor + Weekly timer + Auto off timer →



## Accurate and comfortable control

Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller.



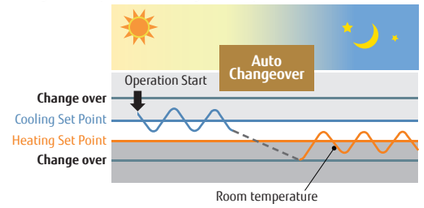

## Various energy saving control

### Custom Auto

- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.

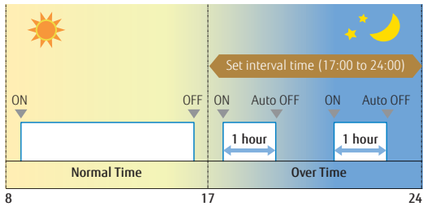
* This function is not available for some models.

Cooling set temp. 27℃, Heating set temp. 26℃




### Auto OFF timer

- The indoor unit automatically is turned off when it reaches to the preset operating time frame.
- The time frame of the "Auto off timer" can be flexibly scheduled.
- Can be set off time 30 to 240 minutes




### 2 schedules Weekly Timer

### Set Temperature Auto Return

### Set Temperature Upper and Lower Limit Setting

Ex.) At interval time hour (17:00 to 24:00) to prevent forgetting to turn off
Set off time : 1 hour

**Specifications**

| Model name | UTY-RNRYZ3 |
|---|---|
| Power Source | DC 12 V |
| Dimensions (H × W × D) (mm) | 120 × 120 × 20.4 |
| Weight (g) | 220 |

DC 12 V is supplied by the indoor unit.



# Wired Remote Controller

**UTY-RLRY**



- Various timer setup (ON / OFF / WEEKLY) are possible.
- The room temperature can be controlled by detecting the temperature accurately with Built-in thermo sensor.
- When a failure occurs, the error code is displayed.
- Error history. (Last 16 error codes can be accessed.)
- 2-wire type

Max. Controllable
16 indoor units

Max. Controllable
1 Group

## High performance and compact size

In addition to the individual control, weekly timer, and various energy saving controls can be realized using only one remote controller.

Individual control + Thermo sensor + Weekly timer + Auto off timer →



## High visibility and easy operation

- "Mode", "Set Temp", and "Fan" are displayed at large size on the top screen.
- Each function to be set is indicated by an icon.
- Control guide is displayed and operation is simple and straightforward.




**Specifications**

| Model name | UTY-RLRY |
|---|---|
| Power Source | DC 12 V |
| Dimensions (H × W × D) (mm) | 120 × 120 × 17 |
| Weight (g) | 170 |

DC 12 V is supplied by the indoor unit.



CONTROL SYSTEM – **INDIVIDUAL CONTROL**

# Simple Remote Controller

**UTY-RSRY / UTY-RHRY (Without operation mode)**



Without operation mode

## Compact remote controller provides access to basic functions

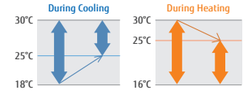
- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Stylish design: Simple design to match the stylish interior.
- Large LCD screen & simple operation buttons
- Backlight: White colored backlight on monitor enable easy operation in dark.
- 2-wire type

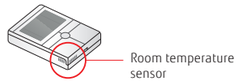
Max. Controllable
16 indoor units
Max. Controllable
1 Group

## Corresponding to various applications

- **Vertical louver control:** Vertical air flow direction can be adjusted for Duct types with auto louver and Cassette types, which are installed in hotels and conference rooms, can be adjusted.
- **Room temperature set point limitation:** The Simple Remote Controller can manage to energy saving operation in small buildings without the central control unit.
- **Built in room temperature sensor:** The Simple Remote Controller detects actual room temperature and controls room climate accuracy.






# Simple Remote Controller

**UTY-RSNYM, UTY-RSKY/UTY-RHKY (Without operation mode)**



Without operation mode

## Compact remote controller provides access to basic functions

- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Backlight enables easy operation in a darkened room.
- 3-wire type

## Easy-to-use operation

- Provides access to basic operations, such as Start / Stop, Fan control, Operation mode switching, and Room temperature setting.
- A large On / Off button is provided in the centre of the remote controller for easy operation.
- Can be used jointly with other individual control unit.
- Following an error display, diagnostics can be carried out on the controller.

Max. Controllable
16 indoor units
Max. Controllable
1 Group

**Specifications**

| Model name | UTY-RSRY | UTY-RHRY | UTY-RSNYM, UTY-RSKY | UTY-RHKY |
|---|---|---|---|---|
| Power Source | DC 12 V | DC 12 V | DC 12 V | DC 12 V |
| Dimensions (H × W × D) (mm) | 120 × 75 × 19.4 | 120 × 75 × 19.4 | 120 × 75 × 19.4 | 120 × 75 × 14 |
| Weight (g) | 120 | 120 | 120 | 90 |

DC 12 V is supplied by the indoor unit.



CONTROL SYSTEM – **CONVERTOR/ADAPTOR**

# MODBUS® Convertor for Indoor Unit

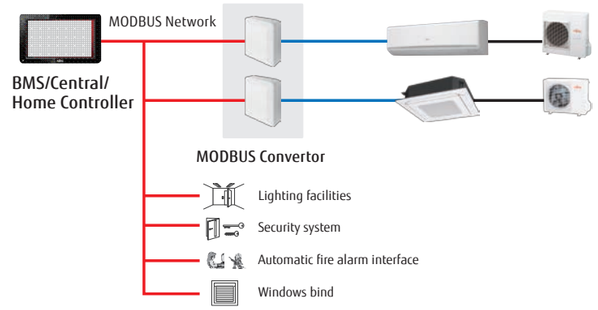
**UTY-VMSX**



Max. Connectable
1 Single indoor unit

## The MODBUS Convertor allows a complete integration of air conditioners into MODBUS Networks.

- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS Convertor must be connected one by one in the indoor unit.
- The MODBUS Controller permits central monitoring and control of air conditioners from BMS/Central/Home Controller.




## Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Louver position (Airflow direction setting)
- Room temperature setting and display
- Economy mode setting
- Error status

## Easy Installation

Flexible installation locations with neat wirings are feasible since no power supply cable is used in the convertor.




# KNX® Convertor for Indoor Unit

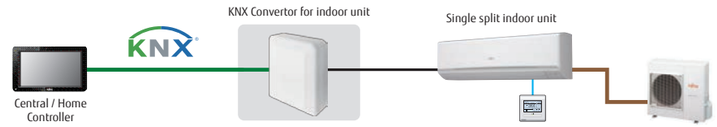
**UTY-VKSX**



Max. Connectable
1 Single indoor unit

## KNX Convertor is useful for individual control of indoor.

- New KNX Convertor enables to connect central/home controller and Fujitsu General indoor unit.
- Compact and light weight design




**Specifications**

| Model name | UTY-VMSX |
|---|---|
| Power supply | DC 12 V |
| Input Power (W) | Max. 1.2 |
| Dimensions (H×W×D)(mm) | 140 × 117 × 43 |
| Weight (g) | 200 |
| Maximum Connectable indoor unit number per 1 MODBUS Convertor | 1 |

**Modbus communication specifications**

| | |
|---|---|
| Transfer mode | RTU mode |
| Communication speed | 9600/19200bps |
| Data bit | 8 |
| Parity | even/odd/none |
| Stop bit | 1/2 (no parity) |
| Network | RS485 |
| Maximum cable length | 1000m (3280 ft) |

| Model name | UTY-VKSX |
|---|---|
| Power supply | DC 12 V |
| Power consumption (W) | 0.6 |
| Dimensions (H×W×D)(mm) | 140 × 117 × 43 |
| Weight (g) | 215 |

# Wireless LAN Interface

**UTY-TFNXZ1 / UTY-TFSXZ1, UTY-TFSXW1, UTY-TFSXF2**

NEW



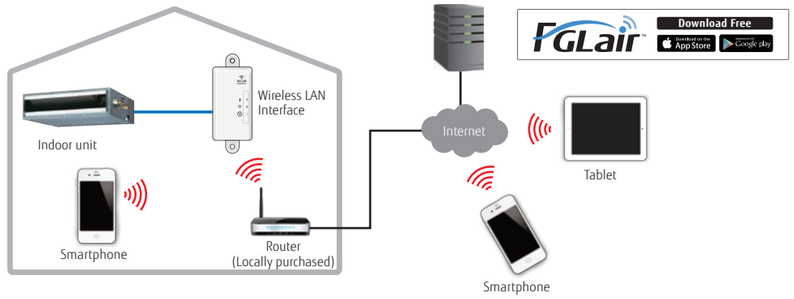
USB type for single split models
UTY-TFSXF2



UTY-TFNXZ1 / UTY-TFSXZ1,
UTY-TFSXW1

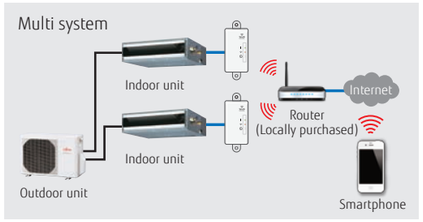
Max. Connectable
1 Single indoor unit

- It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, and tablets.
- No separate external power supply required
- Can be used for single indoor units and multi system indoor units



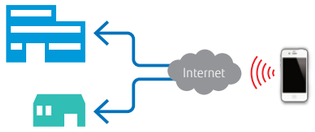

## Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Louver position (Airflow direction setting)
- Timer operation setting (Weekly timer)
- Economy mode setting



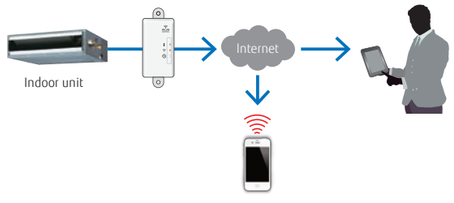

## Multiple air conditioning management

- Multiple air conditioning management at difference locations.




## Error display & E-mail notification

- Alerts e-mail notification
- Air conditioning malfunction display
- It enables rapid service response when error occurs.




NEW

## Wireless LAN Interface (USB type)

**UTY-TFSXF2**

New compact USB type is available. Specialized installation work is not required and it can be installed to indoor unit easily.



**Specifications**

| Model name | UTY-TFNXZ1 / UTY-TFSXZ1 | UTY-TFSXW1 | UTY-TFSXF2 |
|---|---|---|---|
| Dimensions (H × W × D) (mm) | 71 × 38 × 15 | 71 × 38 × 15 | 56.7 × 34 × 9.72 |
| Weight (g) | 35 | 35 | 30 |



# External Switch Controller

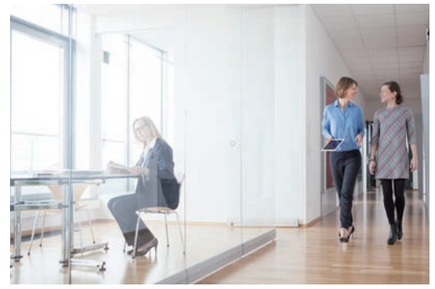
**UTY-TERX**



Max. Controllable
1 group

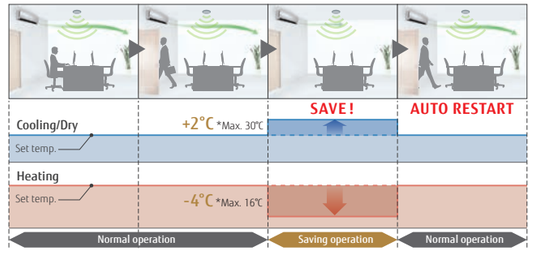
## Air conditioner switching can be controlled by connecting other sensor switches

- In combination with a field supply Card-Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are available as a locally purchased parts.
- The set temperature can be specified at two points for cooling and heating individually (4 points).



## Installation example

Human sensor catches movements of people in a room, and operates with lower capacity when people come back to the room, it automatically returns to previous operation mode.




Human sensor equipment needs to be purchased locally.
Human sensor is not mounted on the External Switch Controller.



**Specifications**

| Model name | UTY-TERX |
|---|---|
| Power Supply | DC 6.5-16 V |
| Dimensions (H × W × D) (mm) | 140 × 117 × 43 |
| Weight (g) | 250 |

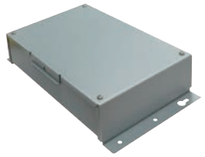
DC 12 V is supplied by the indoor unit.

# Network Convertor for Single Split

**UTY-VTGX / UTY-VTGXV**



UTY-VTGX
DC power supply type



UTY-VTGXV
AC power supply type

Max. Controllable
16
single indoor units

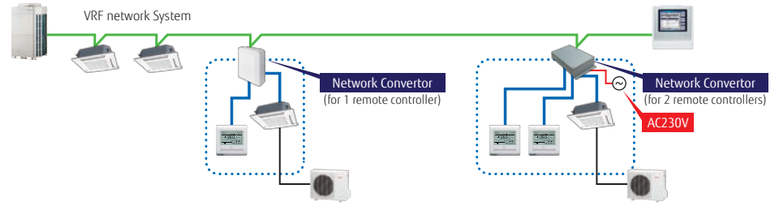
Max. Controllable
1 Group

Max. Controllable
100
Network Convertors

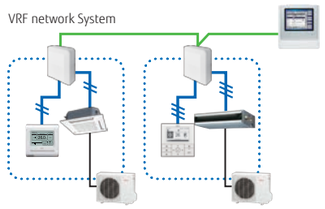
- The network convertors are required when connecting single split system to VRF network system.
- Compact and light weight design
- Connectable to both types of 2-wire and 3-wire remote controllers

## Installation example.

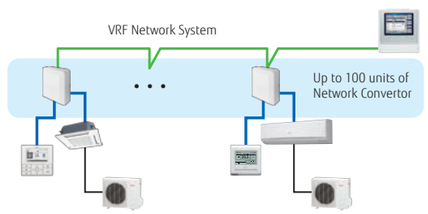
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60 Hz) is required for 2 remote controllers type.




- 2-wire and 3-wire type of the wired remote controller can be connectable.




- A central control can be provided for the single split systems. (Up to 100 units of Network Convertor is connectable in one VRF network system)




**Specifications**

| Model name | UTY-VTGX | | UTY-VTGXV |
|---|---|---|---|
| Power Supply | polar 3-wire DC 12 V | non-polar 2-wire DC 12 V | 220-240 V 50/60 Hz |
| Input power (W) | Max. 1.2 | | Max. 3 |
| Dimensions (H × W × D) (mm) | 140 × 117 × 43 | | 54 × 260 × 150 |
| Weight (g) | 250 | | 1,100 |





# Wired Remote Controller

**UTY-RVNYM**



Max. Controllable
16 indoor units

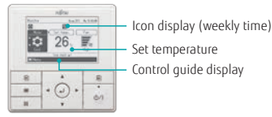
Max. Controllable
1 Group

## Hi-grade individual control using various functions.

- 3.7-inch LCD backlight screen.
- Supporting various Energy Saving functions with simple operation.
- Multiple Language Support.
  (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)

## High visibility and Easy operation

- Icon display of effectual functions.
- Main functions in large icons: "Mode", "Set Temp", and "Fan".
- Easy to operate by Control guide display.
- Simple operation with easy 4-way navigation pad.




## High performance and compact size

- In addition to the individual control, various energy saving controls can be realized using only one remote controller.

Individual control + Thermo sensor + Weekly timer + Auto off timer →



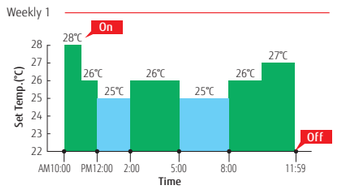
## Various energy saving control

### Weekly Timer function

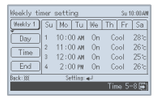
- Can be set up to 8 times per day (On/Off, mode, Temp)
- 2 pattern settings(i.e. Summer/Winter setting) are available.

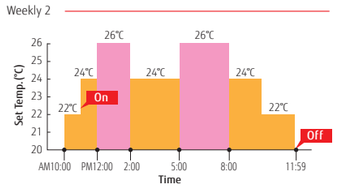
### Auto OFF Timer

- Set Temperature Auto Return
- Set Temperature Upper and Lower Limit Setting

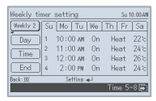



Setting menu in remote controller






Setting menu in remote controller



**Specifications**

| Model name | UTY-RVNYM |
|---|---|
| Power Source | DC 12 V |
| Dimensions (H × W × D) (mm) | 120 × 120 × 21.3 |
| Weight (g) | 220 |

DC 12 V is supplied by the indoor unit.

# Wired Remote Controller

**UTY-RNNYM**



Max. Controllable
16 indoor units

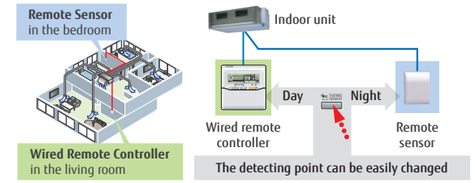
Max. Controllable
1 Group

- Simple operation with Built-in Weekly / Daily Timer.
- Control up to 16 indoor units.
- Up to 2 wired remote controllers can be connected to a single indoor unit.

## Accurate and comfortable

Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller. This wired remote controller and the optional remote sensor allows flexibility in sensor location, suitable for all requirements.

Example of changing sensor




Displayed temperature is set temperature.

## Built-in timers

**Weekly timer:** Possible to set ON/OFF time to operate twice each day of the week.
**Setback timer:** Possible to set temperature for two times spans and for each day of the week.
At "Weekly timer" + "Set back timer" setup

# Wireless Remote Controller

**UTY-LNTY, UTY-LNTX**



Max. Controllable
1 indoor units

Max. Controllable
16 Group

Selectable
4 daily timers

## Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

## Built-in timers

4 timer programs: On / Off / Program / Sleep
Program timer: Operates ON/OFF timer once within 24 hours
Sleep timer: Corrects the set temperature automatically during sleep time

## Easy installation and operation

Code selector switch prevents indoor unit mix-up (up to 4 codes)
Wide and precise transmitting range

**Specifications**

| Model name | UTY-RNNYM | UTY-LNTY/UTY-LNTX |
|---|---|---|
| Power Source | DC 12 V | DC5V |
| Dimensions (H × W × D) (mm) | 120 × 120 × 18 | 145 × 90 × 30 |
| Weight (g) | 160 | 150 |

DC 12 V is supplied by the indoor unit.



# IR Receiver Unit for Duct

**UTY-LRHYM, UTY-LBTYM**

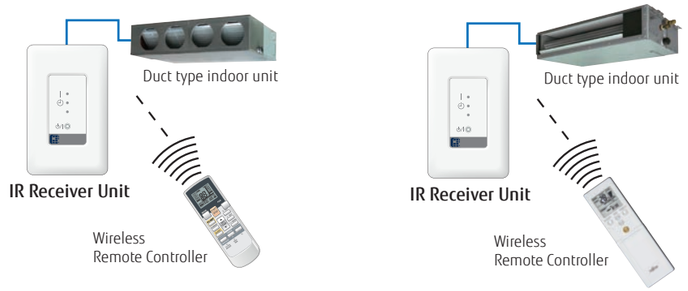


UTY-LRHYM

UTY-LBTYM

## Duct type* indoor units can be controlled with Wireless Remote Controller

*Only Large Airflow Duct cannot be connected to IR Receiver Unit.




# IR Receiver Unit for Cassette

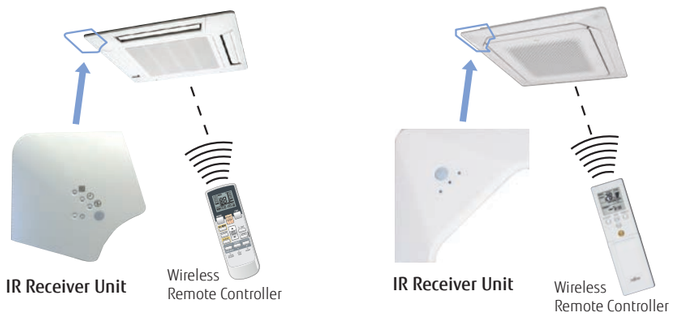
**UTY-LRHYA2, UTY-LBTYC**



UTY-LRHYA2

UTY-LBTYC

## Cassette type indoor unit can be controlled with Wireless Remote Controller




**Specifications**

| Model name | UTY-LRHYM | UTY-LBTYM | UTY-LRHYA2 | UTY-LBTYC |
|---|---|---|---|---|
| Battery | DC5V | DC5V | DC5V | DC5V |
| Dimensions (H × W × D) (mm) | 145 × 90 × 30 | 145 × 90 × 30 | 193.9 × 193.9 × 31.2 | 193.9 × 193.9 × 31.2 |
| Weight (g) | 150 | 150 | 140 | 140 |

DC 12 V is supplied by the indoor unit.

CONTROL SYSTEM – CENTRALIZED CONTROL

# Central Remote Controller

**UTY-DMMYM**



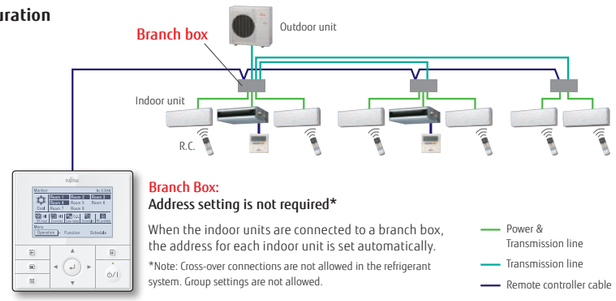
Max. Controllable
1 multi system

Max. Controllable
8 indoor units

## For 5-6 Rooms Multi, 8 Rooms Multi

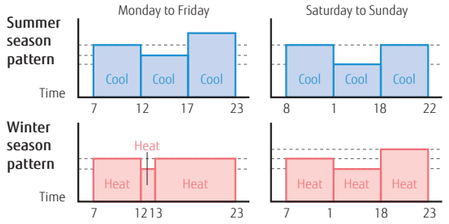
- Batched control of up to 8 indoor units. The temperature, airflow volume, and remote control prohibition settings of all indoor units can be batched.
- Corresponds to 9 different languages (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)
- Large backlight LED screen
- Large easy-to-see operation panel

**System configuration**




## Central Remote Controller Functions

**Weekly schedule timer**
The ON/OFF setting can be set for 4 times a day. Two weekly patterns can be set to match the cooling and heating seasons.

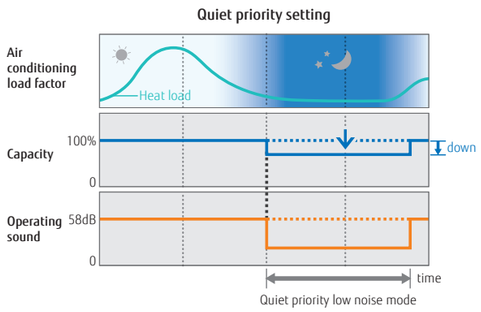



**Low noise operation**
Users can choose from 4 low noise levels, depending on the installation environment. The operation time can be set using the timer.

**10°C heat operation**
When you leave, minimum heating operation is performed to maintain the room temperature (maintain at 10°C).

**Economy operation**
Economy operation is energy saving, as the set temperature of indoor unit is shifted by 1°C and the maximum electric value of the outdoor unit is suppressed.

**Prohibited Settings**
The remote controller operation of all indoor units comes with a lock function to prevent unapproved operations in the various rooms. The central remote controller also has a key lock function to prevent children from playing with it, etc.




**Specifications**

| Model name | UTY-DMMYM |
|---|---|
| Power Source | DC 12 V |
| Dimensions (H × W × D) (mm) | 120 × 120 × 21.3 |
| Weight (g) | 220 |

DC 12 V is supplied by the indoor unit.



CONTROL SYSTEM – CONVERTOR/ADAPTOR

# MODBUS® Interface

**FJ-RC-MBS-1**

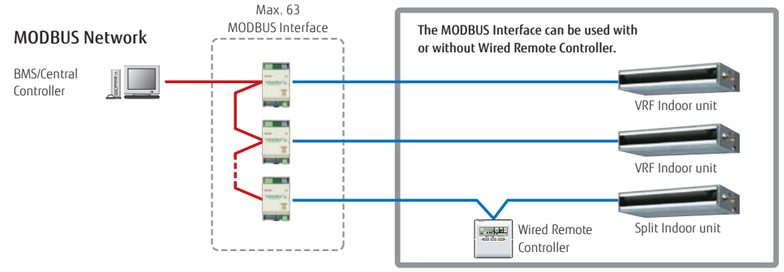



Max. Connectable
1 Single indoor unit

Max. Controllable
1 Group

## The MODBUS Interface allows a complete integration of air conditioners into MODBUS Networks.

- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS Interface permits central monitoring and control of air conditioners from BMS.




# KNX® Interface

**FJ-RC-KNX-1i**

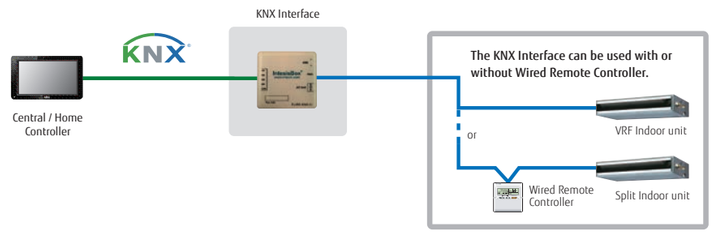



Max. Connectable
1 Single indoor unit

Max. Controllable
1 Group

## The KNX Interface allows a complete integration of air conditioners with KNX Network systems.

- Simple installation due to small and compact size.
- No separate external power supply required (just KNX bus power).
- Can be used for single indoor units and group controlled (up to 16) indoor units.




**Specifications**

| Model name | FJ-RC-MBS-1 | FJ-RC-KNX-1i |
|---|---|---|
| Dimensions (H × W × D) (mm) | 93 × 53 × 58 | 70 × 70 × 28 |
| Weight (g) | 85 | 70 |

# Wireless LAN Interface

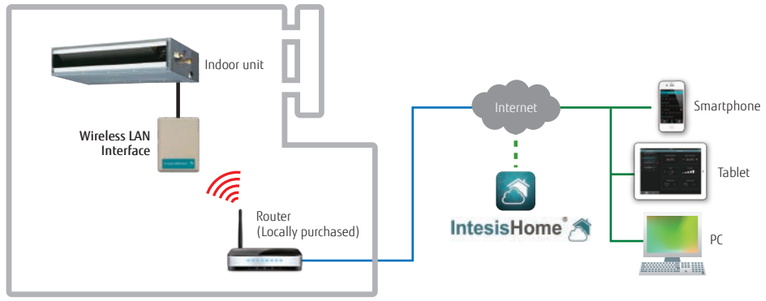
**FJ-RC-WIFI-1**




Max. Connectable
1 Single indoor unit
Max. Controllable
1 Group

IntesisHome

- It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, Tablets and PC
- No separate external power supply required
- Can be used for single indoor units and group controlled (up to 16) indoor units




## Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Louver position (Airflow direction setting)
- Room temperature display
- Set temperature control
- Multi Language
- One Scene and Timer




(Application screen image)

## Advanced control (Optional functions)

- Climate working modes (ECO, Comfort, Powerful) (future release)
- Schedule functions (ON/OFF, Modes, Set point temperature, Fan Speed, Louver position)
- Set temperature limitation (future release)
- Multiple Scenes & Timers and Calendar function

## Notifications and history

- Alerts e-mail notification (future release)
- Air conditioning malfunction alerts
- Connectivity monitoring and alerts
- History (future release)

**Specifications**

| Model name | FJ-RC-WIFI-1 |
|---|---|
| Dimensions (H × W × D) (mm) | 108 × 70 × 28 |
| Weight (g) | 80 |





# Wireless Remote Controller

**UTY-LNHY**



Max. Controllable
16 indoor units
Max. Controllable
1 Group
Selectable
4 daily timers

## Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

## Built-in timers

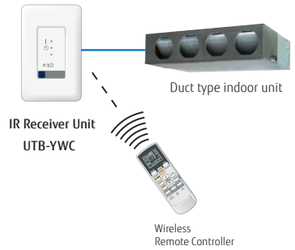
4 timer programs: On / Off / Program / Sleep
Program timer: Operates ON/OFF timer once within 24 hours
Sleep timer: Corrects the set temperature automatically during sleep time

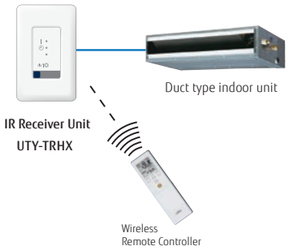
## Easy installation and operation

Code selector switch prevents indoor unit mix-up (up to 4 codes)
Wide and precise transmitting range

# IR Receiver Unit for Duct

**UTB-YWC, UTY-TRHX**




## Duct type* indoor units can be controlled with Wireless Remote Controller

*Only Large Airflow Duct can not be connected to IR Receiver Unit.

# IR Receiver Unit for Cassette

**UTY-LRHYB1, UTY-LBHXD, UTY-TRHX**










## Cassette type indoor unit can be controlled with Wireless Remote Controller

**Specifications**

| Model name | UTY-LNHY | UTB-YWC | UTY-LRHYB1 | UTY-LBHXD | UTY-TRHX |
|---|---|---|---|---|---|
| Battery | 1.5 V (R03 / LR03 / AAA)×2 | DC 5 V | DC5V | DC5V | DC 5 V |
| Dimensions (H × W × D) (mm) | 170 × 56 × 19 | 145 × 90 × 30 | 193.9 × 193.9 × 31.2 | 193.9 × 193.9 × 31.2 | 145 × 90 × 30 |
| Weight (g) | 85 | 150 | 140 | 140 | 150 |

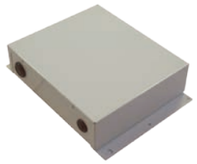
DC 12 V is supplied by the indoor unit.

# Group Remote Controller/Network Convertor

**UTY-CGGY / UTY-VGGXZ1**



Group Remote Controllers
UTY-CGGY



Network Convertor
UTY-VGGXZ1
For Group Remote Controller

Max. Controllable
8
remote
controller groups

Max. Controllable
92 indoor units in
8 Groups

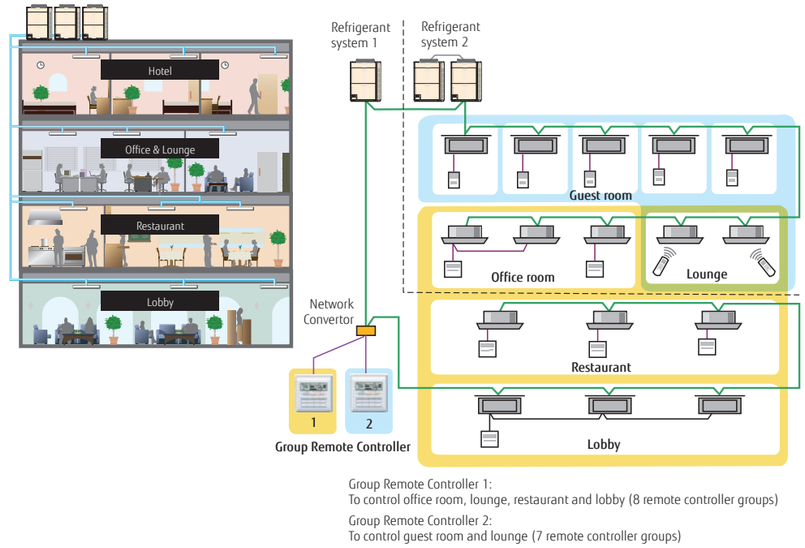
Max. Controllable
2 refrigerant circuits

## Group control of indoor units with simple operation

- Up to 8 remote controller groups can be controlled by one Group Remote Controller.
- Up to 64 Group Remote Controllers can be connected in one VRF network system.
- Network Convertor is required to connect Group Remote Controllers to a VRF network system. (Network Convertor allows up to 4 Group Remote Controllers)
- 3-wire type

## Control up to 8 remote controller groups

- Single Group Remote Controller controls and monitors up to 8 remote controller groups.




Group Remote Controller 1:
To control office room, lounge, restaurant and lobby (8 remote controller groups)

Group Remote Controller 2:
To control guest room and lounge (7 remote controller groups)

## High performance and compact size

ON / OFF, Operating mode, Room temperature and Fan speed setting can be controlled / monitored centrally or individually.

Central control + ON/OFF control + Weekly timer →



## Built-in weekly timers

The weekly timer is provided as a standard function.

**Specifications**

| Model name | UTY-CGGY |
|---|---|
| Power Supply | DC 12 V |
| Dimensions (H × W × D) (mm) | 120 × 120 × 18 |
| Weight (g) | 200 |

DC 12 V is supplied by the indoor unit.

| Model name | UTY-VGGXZ1 |
|---|---|
| Power Supply | 208-240 V 50/60 Hz, Single phase |
| Power Consumption (W) | 6.5 |
| Dimensions (H × W × D) (mm) | 67 × 288 × 211 |
| Weight (g) | 1,500 |



# Central Remote Controller

**UTY-DCGYZ1**

NEW



Max. Controllable
100 indoor units

Max. Controllable
50 groups

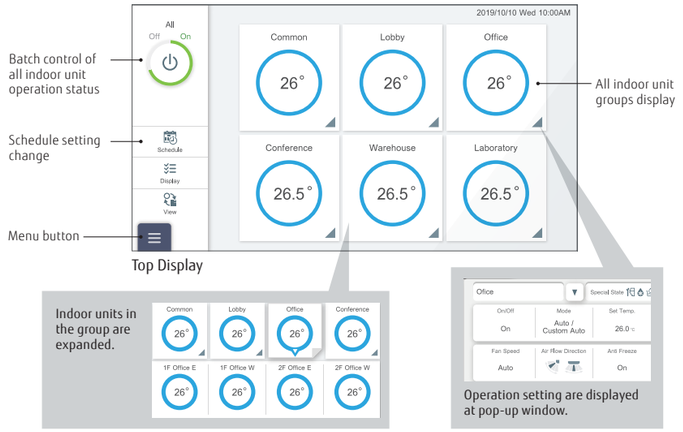
## For small- and medium-sized buildings and tenants

- Individual control and monitor of 100 indoor units
- 7.0inch TFT color screen
- High visibility and easy operation
- Supports max.23 different languages
- Standard language corresponds to 12 different languages. (English, Spanish, German, French, Italian, Russian, Portuguese, Turkish, Polish, Greek, Dutch, Chinese)
- Additional language can be integrated by creative language database. *(Bulgarian, Czech, Danish, Estonian, Finnish, Croatian, Hungarian, Romanian, Slovak, Slovenian, Swedish)

*: The other language can be overwritten on the registered one.

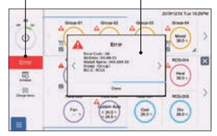
## Easy operation

- The new central remote controller realized an intuitive operation feeling by touch panel operation.
- All functions can be accessed from the top screen and the following operations are displayed at pop-up window.




## Trouble support function

**Display error details**
Display descriptive explanation when an error occurs




**Sensor value monitoring function**
Monitor sensor data of indoor unit / outdoor unit, send mail

**Notify room temperature by email**
Notify by e-mail when the temperature around the air conditioner is too high or too low

## Remote monitoring / Remote operation

New central remote controller can control your tenant's air conditioner anytime and anywhere.

Example
- Control / Monitoring Fujitsu air conditioner
- Error notification by E-mail




**Specifications**

| Model name | UTY-DCGYZ1 |
|---|---|
| Power Supply | 100-240 V 50/60 Hz |
| Dimensions (H × W × D) (mm) | 134.6 × 216.1 × 37.9 |
| Weight (g) | 750 |

# Touch Panel Controller

**UTY-DTGYZ1**



- Large-sized 7.5-inch TFT color
- LCD Easy finger touch operation
- Stylish shape and design to suit all application
- Up to 400 indoor units can be controlled
- Selectable 2 display types (Icon / List) in monitoring mode
- Supports 7 different-languages ,English, Chinese, French, German, Spanish, Russian, Polish.
- Mounted with LAN interface for remote control & operation, external input / output with emergency stop and batch ON / OFF

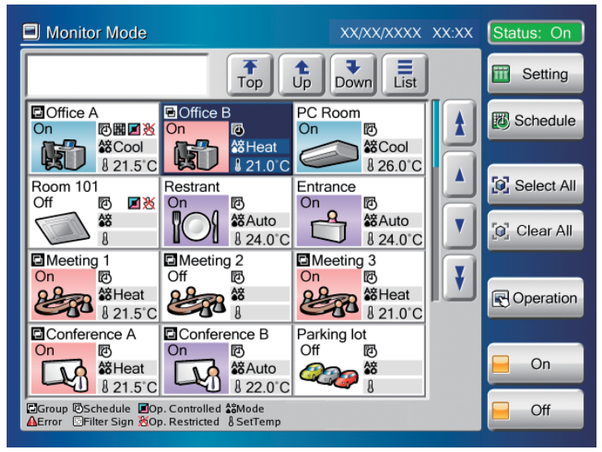
Max. Controllable
**400** indoor units

Max. Controllable
**100** outdoor units

Max. Controllable
**400** groups

## Easy Operation

- Wide range of simple-to-understand icons
- Operation can be selected using your finger or the dedicated touch pen by pressing the appropriate on-screen icon.
- Back color identifies current control operation blue for monitoring, green for operational control.




## Easy maintenance

- Flat touch screen is easily cleaned
- Non-glare coating on touch panel controller minimizes fingerprint marking
- Easy-to-remove front cover

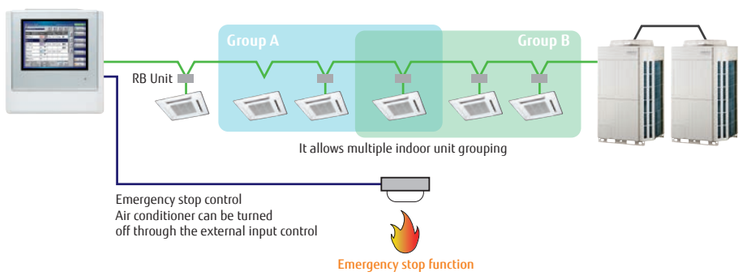


## Easy installation

- Touch Panel Controller is easily mounted to the wall.
- Flat back surface allows to be installed wherever it is needed.
- No additional component is required for installation



## Up to 400 indoor units can be controlled

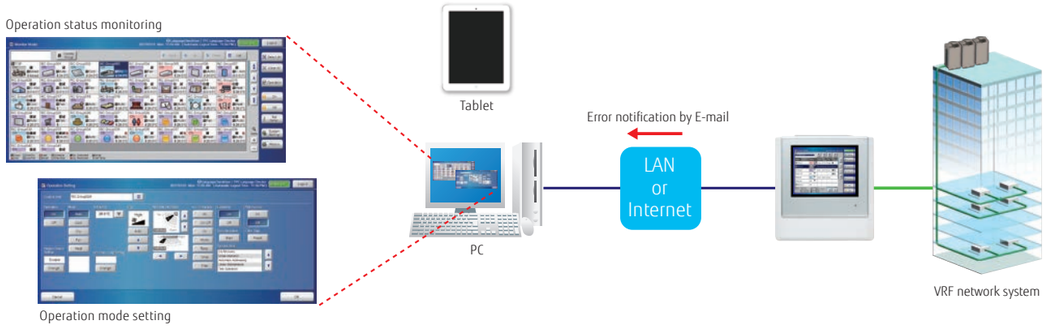





**Features: Touch Panel Controller**

## Control & monitoring

- Control and monitor Fujitsu's air conditioner via LAN or Internet.
- Allow user or tenant to manage only assigned equipment by their PC or tablet from anywhere.
- Error contents are notified automatically by E-mail at error occurrence to handle the trouble promptly.




**Smart Phone**

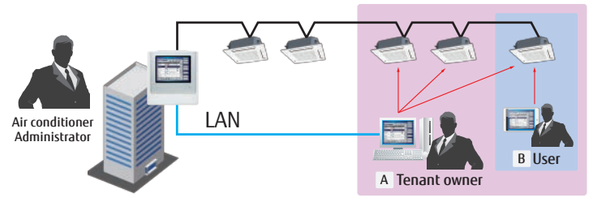
| Model name | Browser |
|---|---|
| Nexus 6P (Android 7.1.1) | Google Chrome 5.5 |
| iphone 7 (iOS 10.1) | Safari 10 |

**Tablet**

| Model name | Browser |
|---|---|
| iPad Pro 9.7 inch (iOS 10.2.1) | Safari 10 |

## Flexible access permission for Point each level user.

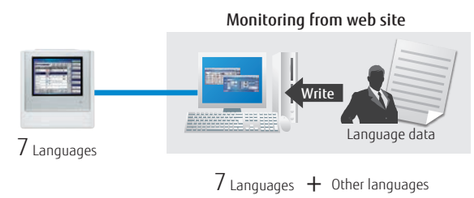
Administrator can register multiple user to permit which indoor unit(s) and which function can access.




A : Account ID for Tenant owner  B : Account ID for User

## Additional languages function

Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish as standard.
Additional language can be integrated on remote device by creating language database.
Additional language is displayed on only the remote device, and Touch Panel Controller cannot be added other languages.

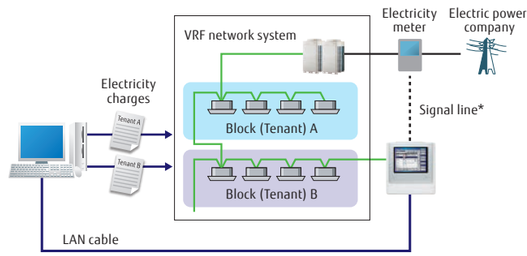



## Electricity charge apportionment

**(Option: UTY-PTGXA)**

- Electricity charge apportionment can be performed easily for the power consumed when billing users for air conditioning power charges.

- Apportionment charge/bill calculation
- Tenant (block) setting
- Common facilities apportionment setting
- Rated power consumption allotment setting
- Individual calculation at cooling and heating
- Electricity meter supported




*: Electricity meter (1unit) can be connected to external input connector of the TPC unit. In this case, electricity meter cannot be connected to outdoor unit simultaneously.

**Features: Touch Panel Controller**

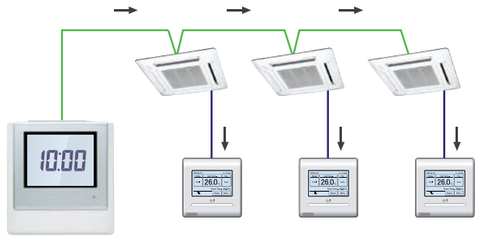
## Automatic summer time setting

**Providing function**

1) Schedule setting of summer time setting
- It prevents the user from forgetting to set summer time. In addition, it reduces the time and labor of user.

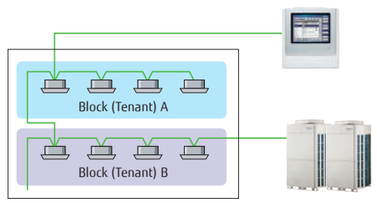
**Automatic clock adjustment**

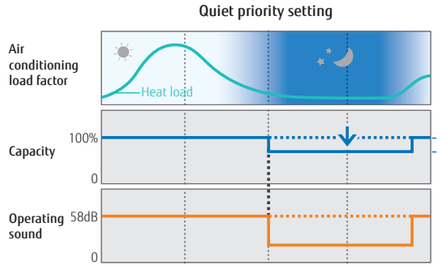
2) The time setting of each controller can be set in batch automatically.




## Outdoor low noise operation

Users can choose from 4 low noise levels, depending on the installation environment.
The operation time can be set using the timer.



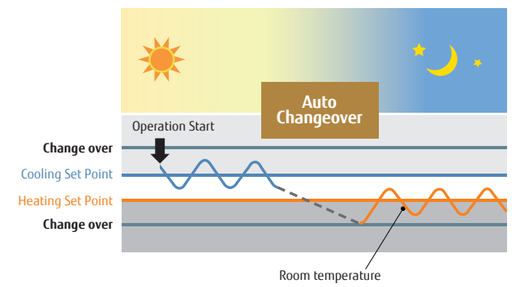




## Various energy saving control

**Custom Auto**
- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.

* This function is not available for some models.






## Refrigerant leakage detection function

The refrigerant leak condition is indicated by the management equipment, and if refrigerant leakage occurs, it is displayed as a pop-up, the user is notified, and the refrigerant is shut off.




## FUNCTIONS SUMMARY

| | UTY-DTGYZ1 | Monitoring side |
|---|---|---|
| **Air conditioning control function** | | |
| On / Off | ● | ● |
| Operation mode setting* | ● | ● |
| Fan speed setting | ● | ● |
| Room temp. setting | ● | ● |
| Room temp. set point limitation | ● | ● |
| Test operation | ● | ● |
| Up/down air direction flap setting | ● | ● |
| Right/left air direction flap setting | ● | ● |
| Individual louver control | ●*1 | ● |
| Group setting | ● | ● |
| RC prohibition | ● | ● |
| Anti freeze setting | ● | ● |
| Set temp. auto return | – | ● |
| Various energy saving control | – | ● |
| Economy mode setting | ● | ● |
| Human sensor control | – | ● |
| **Display** | | |
| Error | ● | ● |
| Defrosting | ● | ● |
| Current time | ● | ● |
| Day of week | ● | ● |
| R.C. prohibition | ● | ● |
| Cooling/heating priority | ● | ● |
| Address display | ● | ● |
| Room temp | ● | ● |
| Multi language | ● | ● |
| Summer time | ● | ● |
| Time zone setting | ● | ● |
| Name registration | ● | ● |
| Backlight | ● | ● |
| Language setting | 7 | 7+other |
| Filter sign reset | ● | ● |
| Memory operation | ● | ● |
| Refrigerant leakage detection function | ● | ● |

| | | UTY-DTGYZ1 | Monitoring side |
|---|---|---|---|
| **Timer** | | | |
| Schedule timer | Period | Year | Year |
| | On/off, Temp, Mode, Times per day | 20 | 20 |
| On/off timer | | – | – |
| Sleep timer | | – | – |
| Program timer | | – | – |
| Auto off timer | | – | ● |
| Day off | | ● | ● |
| Min. unit of timer setting (Minutes) | | 10 | 10 |
| **Control** | | | |
| Status monitoring system | | ● | ● |
| Electricity charge apportionment | | ○ | ○ |
| Error history | | ● | ● |
| Emergency stop | | ●*2 | ●*2 |
| Remote management | | – | ● |
| Energy saving management | | – | – |
| E-mail notification for malfunction | | – | ● |
| Key lock | | ● Password setting | – |
| Low noise mode | | ● | ● |

●: Supported ○: Optional function –: Not supported yet
*1 Only setting cancellation can be operated.
*2 This function is available only through external input control.

## Specifications

| Model name | UTY-DTGYZ1 |
|---|---|
| Power Supply | 100-240 V 50/60 Hz, Single phase |
| Dimensions (H × W × D) (mm) | 260 × 246 × 54 |
| Weight (g) | 2,150 |
| Interface | Transmission/LAN/USB/EXT IN/EXT OUT/Reset SW |

# System Controller

**UTY-APGXZ1** Software



Max. Controllable
4 VRF network systems

Max. Controllable
400 outdoor units

Max. Controllable
1,600 indoor units

## System Controller realizes the advanced integrated monitoring & control of VRF network system from small scale buildings to large scale buildings.

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

# System Controller Lite

**UTY-ALGXZ1** Software



Max. Controllable
1 VRF network systems

Max. Controllable
100 outdoor units

Max. Controllable
400 indoor units

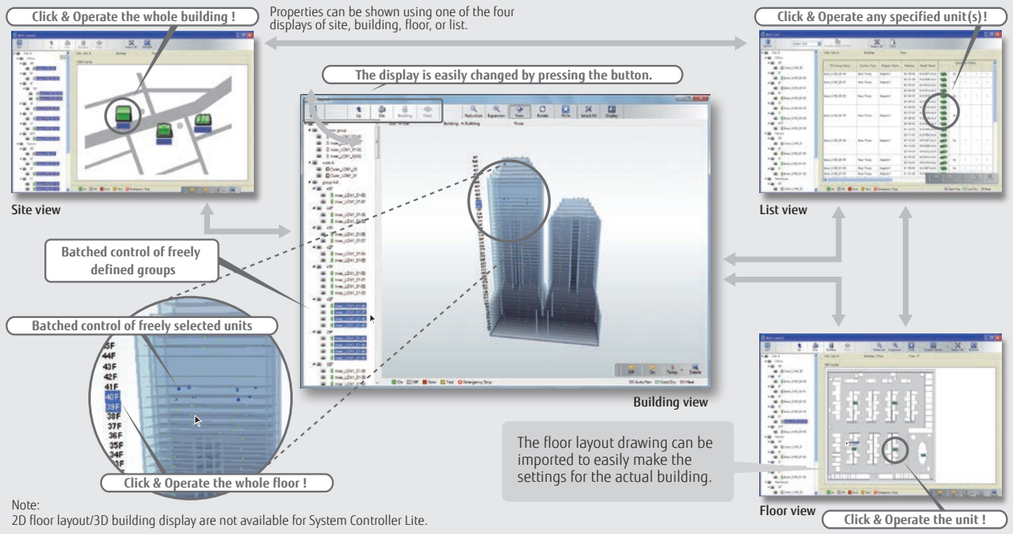
## System Controller Lite has standard functions sufficient for air conditioner management in small and medium scale buildings .

- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customers a wide range of choice.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

## High visibility and Easy operation

**Click & Operate:** The property is shown visually from the perspective most suitable for operation and operated accordingly (Click & Operate). You can select from among the 4 displays of site, building, floor, or list.

**Freely define groups for batched control:** Indoor units can be freely grouped for simple batched control from a tree menu. Grouping by hierarchal structure, such as by section, division or department is possible.




Note:
2D floor layout/3D building display are not available for System Controller Lite.

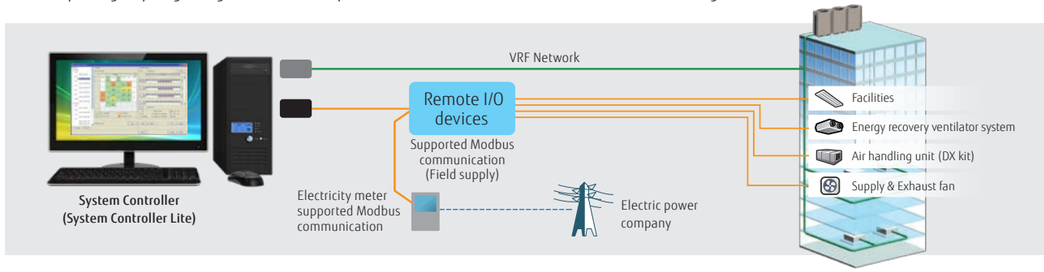


**Features: System Controller/System Controller Light**

## 3rd party devices connected by Modbus can be controlled.

Standard for System Controller Option for System Controller Lite UTY-PLGXX2

When Modbus Adaptor (locally purchased) is connected to PC, the electric facilities supported by Modbus can be controlled centrally. Wasteful electricity charge by forgetting to turn off and patrol activities can be reduced in the entire building.

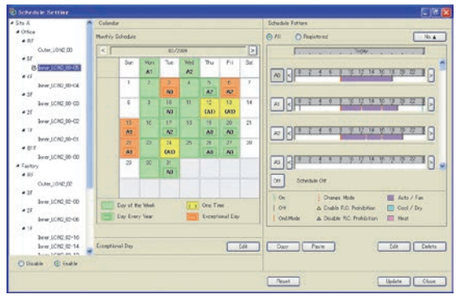



## Diverse operation management & Data management

Standard for System Controller and System Controller Lite

**Schedule management**

- Annual schedules can be set for each remote controller group / user defined group.
- Start / stop, operating mode, remote controller prohibition, and temperature settings can be set up to 143 times per day at 10 minute intervals for up to 101 configurations for each remote controller group.
- Settings can be made for periods straddling midnight.
- Allows programming of special settings for holidays, including public holidays, for a complete year.
- Low noise operation of outdoor unit can be scheduled.



**Diverse control of indoor unit and outdoor unit**

- Indoor unit operation state, operation mode, etc. are displayed
- Indoor unit start / stop and operation mode switching
- Room temperature set point limitation
- Outdoor unit low noise setting

**Remote controller prohibition**

This prohibits changes to the operation mode, temperature, start/stop, etc.

**Error display & E-mail notification**

Error is notified with popup message, audible sound and E-mail real time when error occurs. Errors for the past 1 year are logged and can be reviewed later.

**Operating & control record**

Displays the history of operation status and control.

**Data base import/export**

Imports/exports registration data, layout data, and image data. Only the administrator can make this setting.

**Automatic clock adjustment**

The time setting of each controller can be set in batch automatically.

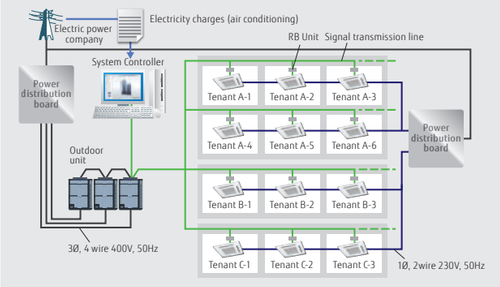
## Electricity charge apportionment

Standard for System Controller
Option for System Controller Lite UTY-PLGXA2

**Electricity charge apportionment calculation framework**

Suppose you want to find the power consumed by the air conditioners of each tenant from the electricity charge for each month. With electricity charge apportionment function, used energy apportionment ratio will be provided, calculating in detail the energy consumed by the units used by each tenant. This information is then used to calculate the charges for the electricity consumed for air conditioning by each tenant from the total electricity charges in the bill from the electric power company. (See figure at right)
The detailed calculation takes into consideration such things as unused rooms and nighttime electricity charges and shows them in a charges calculation sheet.

**System Configuration Example**



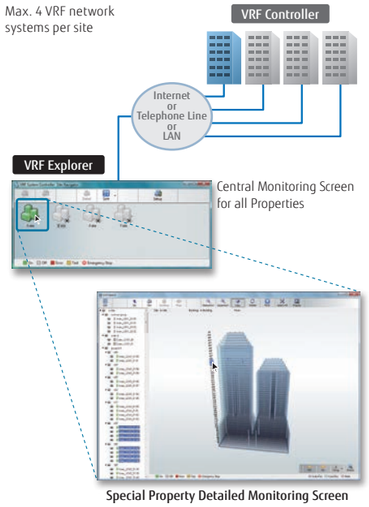
**Features: System Controller/System Controller Light**

## Remote management

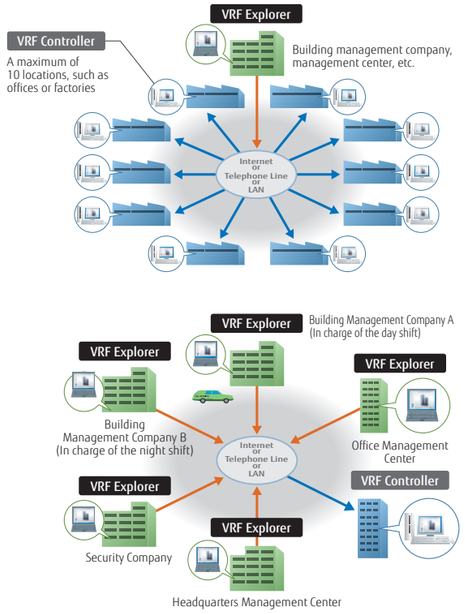
**Standard** for System Controller
**Option** for System Controller Lite UTY-PLGXR2

System Controller may be used on site or remotely over various networks for remote central control.
System Controller requires 2 software working together. VRF Controller runs on site and communicate with VRF system.
VRF Explorer runs remotely and provides user interface and communicate with the VRF Controller.
VRF Controller and VRF Explorer program may run in a single PC or in different PCs separated by network.
By using VRF Explorer software, one PC can perform central control of 10 VRF system sites with max. 20 buildings per site.

### On site central control



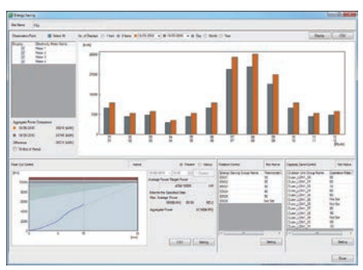

### Remote central control




## Energy saving management

**Option** for System Controller UTY-PEGXZ1
**Option** for System Controller Lite UTY-PLGXE2

A variety of energy saving operations can be set and managed depending on the season, weather, and time period. Excellent energy saving operation is performed while keeping users comfortable.



Energy Saving Management Main Screen

Energy saving graph data: This graph compares the electricity consumption with the previous month and previous year to make it easy to analyze the energy saving effect.

### Indoor unit rotation operation

The operation of indoor units can be automatically rotated within a group in accordance with the set annual schedule to reduce power consumption while maintaining comfort. The indoor unit operation stoppage rate can be selected.

### Peak cut operation

A power meter is connected to detect the total power consumption while shifting the indoor unit set temperature, set the indoor unit forced thermostat off, and taking other measures to carefully control the power consumed while maintaining comfort and conducting control to maintain the target power consumption set for each time. The indoor units to be controlled can be freely grouped and the control level can be set.

### Outdoor unit capacity save

Outdoor unit capacity save switches the outdoor unit capability upper limit to suppress power consumption during hot summers and cold winters by averaging the power saving effect of each refrigerant system. You can select from 50% or more of the capacity upper limit.



## FUNCTIONS SUMMARY

| Function | Type | | System controller | | System controller lite | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | | UTY-APGXZ1 | Option UTY-PEGXZ1 | UTY-ALGXZ1 | Option UTY-PLGXR2 | Option UTY-PLGXA2 | Option UTY-PLGXE2 | Option UTY-PLGXX2 |
| System specification | Max. VRF networks supported | | 4 | — | 1 | — | — | — | — |
| | Max. indoor unit / remote controller groups per VRF network | | 400 | — | 400 | — | — | — | — |
| | Max. outdoor units per VRF network | | 100 | — | 100 | — | — | — | — |
| | Max. indoor units / remote controller groups per System controller | | 1600 | — | 400 | — | — | — | — |
| | Max. outdoor units per System controller | | 400 | — | 100 | — | — | — | — |
| Site supervision | Multi site display | | 10 | — | 10 | — | — | — | — |
| | Number of building / 1 site | | 20 | — | — | — | — | — | — |
| | Number of floor per 1 site | | 200 | — | — | — | — | — | — |
| | Number of floor per 1 building | | 50 | — | — | — | — | — | — |
| | 3D graphical layout view | | ● | — | — | — | — | — | — |
| | 2D graphical layout view | | ● | — | — | — | — | — | — |
| | List display | | ● | — | ● | — | — | — | — |
| | Tree display | | ● | — | ● | — | — | — | — |
| | Group display | | ● | — | ● | — | — | — | — |
| Error management | Error notification | | ● | — | ● | — | — | — | — |
| | Audible alarm | | ● | — | ● | — | — | — | — |
| | Error e-mail notification | | ● | — | ● | — | — | — | — |
| History | Error history | | ● | — | ● | — | — | — | — |
| | Operation history | | ● | — | ● | — | — | — | — |
| | Control history | | ● | — | ● | — | — | — | — |
| Operation control | Individual control | On/Off | ● | — | ● | — | — | — | — |
| | | Operation mode* | ● | — | ● | — | — | — | — |
| | | Room temperature | ● | — | ● | — | — | — | — |
| | | Fan speed | ● | — | ● | — | — | — | — |
| | | Air flow direction | ● | — | ● | — | — | — | — |
| | | Economy mode | ● | — | ● | — | — | — | — |
| | | Room temperature set point limitation | ● | — | ● | — | — | — | — |
| | | AntiFreeze | ● | — | ● | — | — | — | — |
| | | Outdoor unit low noise setting | ● | — | ● | — | — | — | — |
| | Individual management | Remote control prohibition setting | ● | — | ● | — | — | — | — |
| | | Temperature upper and lower limit setting | ● | — | ● | — | — | — | — |
| | | Filter sign reset | ● | — | ● | — | — | — | — |
| | Other | Memory operation | ● | — | ● | — | — | — | — |
| | | Pattern operation | ● | — | ● | — | — | — | — |
| Schedule | Annual Schedule | | ● | — | ● | — | — | — | — |
| | Special day setting | | ● | — | ● | — | — | — | — |
| | On /off per day | | 72 | — | 72 | — | — | — | — |
| | On / off per week | | 504 | — | 504 | — | — | — | — |
| | Day off | | ● | — | ● | — | — | — | — |
| | Min. unit of timer setting (Minutes) | | 10 | — | 10 | — | — | — | — |
| | Low noise mode Weekly schedule | | ● | — | ● | — | — | — | — |
| Remote management | Web Operation | | ● | — | ● | — | — | — | — |
| | Remote monitoring | | ● | — | — | ● | — | — | — |
| | Remote operation control | | ● | — | — | ● | — | — | — |
| | Remote function setting | | ● | — | — | ● | — | — | — |
| Electricity charge apportionment | Apportionment charge/bill calculation | | ● | — | — | — | ● | — | — |
| | Tenant (block) setting | | ● | — | — | — | ● | — | — |
| | Common facilities apportionment setting | | ● | — | — | — | ● | — | — |
| | Rated power consumption allotment setting | | ● | — | — | — | ● | — | — |
| | Individual calculation at cooling and heating | | — | ● | — | — | ● | — | — |
| | Electricity meter supported | | — | ● | — | — | ● | — | — |
| Energy saving management | Indoor unit rotation | | — | ● | — | — | — | ● | — |
| | Peak cut control | | — | ● | — | — | — | ● | — |
| | Outdoor unit capacity save | | — | ● | — | — | — | ● | — |
| | Record of energy saving operation | | — | ● | — | — | — | ● | — |
| | Energy saving information | | — | ● | — | — | — | ● | — |
| | Power consumption monitor | | — | ● | — | — | — | ● | — |
| | Electricity meter supported | | | ● | | — | — | ● | — |
| External Device Control | Monitor | | ● | — | — | — | — | — | ● |
| | Control | | ● | — | — | — | — | — | ● |
| Others | Database import/export | | ● | — | ● | — | — | — | — |
| | Automatic clock adjustment | | ● | — | ● | — | — | — | — |
| | Multi language | | 7 languages | — | 7 languages | — | — | — | — |
| | Refrigerant leakage detection function | | ● | — | ● | — | — | — | — |
| | Power shutdown | | ● | — | ● | — | — | — | — |

●●: Available. - : Not available.

### Personal computer system requirements

The required PC specifications are shown in the following table.

| | System Controller | System Controller Lite |
|---|---|---|
| **Operating system** | • Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1<br>• Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit)<br>• Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)<br>[Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish | |
| **CPU** | Intel® CoreTM i3 2 GHz or higher | |
| **Memory** | • 2 GB or more (for Windows® 7 [32-bit])<br>• 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10) | |
| **HDD** | 40 GB or more of free space | |
| **Display** | 1024 x 768 or higher resolution | |
| **Interface** | •Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line)<br>•USB ports (Maximum of 6 ports)<br>(Required only for the Server PC that works as VRF Controller)<br>- Maximum of 2 USB ports are required for WHITE-USB-KEY/WibuKey connection<br>- Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface<br>* Maximum number of required USB port depends on the applicable system configuration. | •Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line)<br>•USB ports (Maximum of 6 ports)<br>(Required only for the Server PC that works as VRF Controller)<br>- Maximum of 4 USB ports are required for WHITE-USB-KEY/WibuKey connection<br>- 1 USB port is required for Echelon® U10 USB Network Interface<br>* The maximum number of required USB port depends on the applicable system configuration. |
| **Graphic accelerator** | Microsoft® DirectX® 9.0c compatible | |
| **Software** | Adobe® Reader® 9.0 or later | |

• Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

### PACKING LIST

| Type | For System controller | | For System controller Lite | | | | |
|---|---|---|---|---|---|---|---|
| | System Controller | Option Energy manager | System Controller Lite | Option Remote access | Option Electricity charge apportionment | Option Energy saving | Option Central Control |
| Model name | UTY-APGXZ1 | UTY-PEGXZ1 | UTY-ALGXZ1 | UTY-PLGXR2 | UTY-PLGXA2 | UTY-PLGXE2 | UTY-PLGXX2 |
| WHITE-USB-KEY | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

*1: Software protection key to be inserted in a USB slot running System Controller or System Controller Lite.
System Controller or System Controller Lite may only run on a PC with WHITE-USB-KEY. However, WHITE-USB-KEY is not required for remote VRF Explorer software.

# BACnet® Gateway

**UTY-ABGXZ1** Software



WHITE-USB-KEY
(Software Protection Key)

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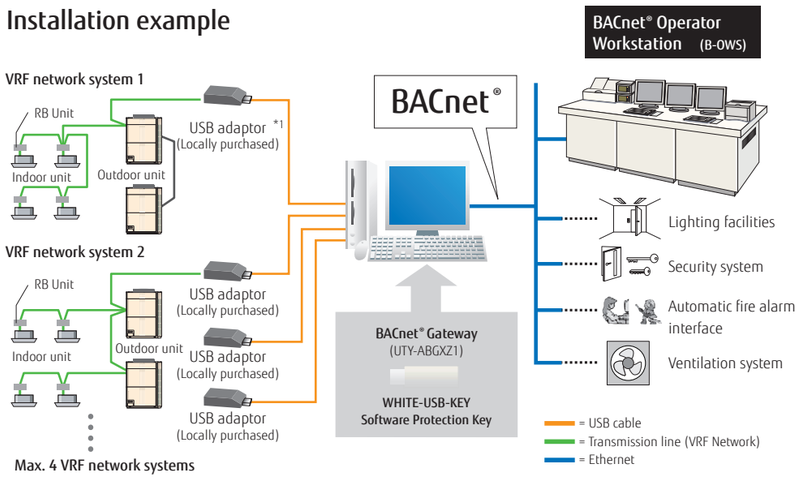
Max. Controllable
4
VRF network systems

Max. Controllable
400 outdoor units

Max. Controllable
1,600 indoor units

- It is possible to connect medium to large sized BMS to VRF network system via BACnet®, a global standard for open networks.
- A maximum of 1600 indoor units with 4 VRF network systems (a maximum of 400 indoor units & 100 outdoor units for one network system) can be connected to one BACnet® Gateway.
- It is possible to control or monitor VRF network system from BMS via BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2014) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.
- Scheduling function, Alarm & Event functions as well as Electricity Change Apportionment function are provided in BACnet® Gateway.
- Connection between VRF network system to personal computer is possible via small U10 USB interface. However, both U10 USB interface & personal computer are field supplied items.
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.

## Installation example




Max. 4 VRF network systems

*1: USB adaptor is U10 USB Network Interface of Echelon® Corporation.

### Personal computer system requirements

| | UTY-ABGXZ1 |
|---|---|
| Operating system | • Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1<br>• Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit)<br>• Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)<br>[Supported languages]<br>English, Chinese, French, German, Russian, Spanish, and Polish |
| CPU | Intel® Core™ i3 2 GHz or higher |
| Memory | • 2 GB or more (for Windows® 7 [32-bit])<br>• 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10) |
| HDD | 40 GB or more of free space |
| Display | 1024 x 768 or higher resolution |
| Interface | • Ethernet port (for getting access to the Internet using LAN)<br>• USB ports (Maximum of 5 ports)<br>- 1 USB port is required for WHITE-USB-KEY/WibuKey connection<br>- Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface<br>* Maximum number of required USB ports depends on the applicable system configurations. |
| Software | Adobe® Reader® 9.0 or later |

•Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

### <Packing list>

| Name and shape | Quantity | Application |
|---|---|---|
| WHITE-USB-KEY | 1 | Includes the software and manuals, license for BACnet® Gateway. |



# BACnet® Gateway

**UTY-VBGX** Hardware



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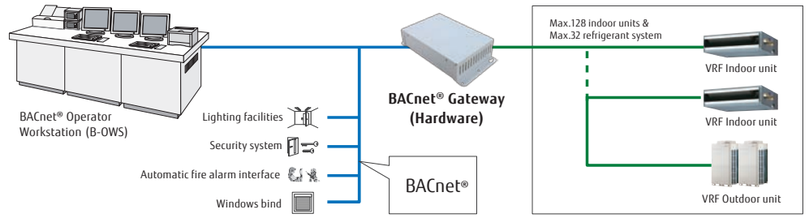
Max. Controllable
1 VRF network system

Max. Controllable
32 refrigerant system

Max. Controllable
128 indoor units

- BACnet® Gateway enables to connect a BMS and Fujitsu General VRF system.
- A maximum of 128 indoor units and 32 refrigerant system can be connected to a single BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.

## Installation example



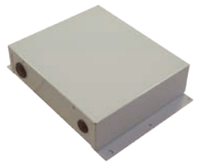

### Specifications

| Model name | UTY-VBGX |
|---|---|
| Number of controllable indoor units | 128 |
| Number of controllable refrigerant system | 32 |
| Number of controllable VRF network | 1 |
| Number of connectable units / one VRF network | 4 |

| Model name | UTY-VBGX |
|---|---|
| Power Supply | 100-240 V 50/60 Hz, single phase |
| Power Consumption (W) | 4.6 (max.) |
| Dimensions (H × W × D) (mm) | 59.6 × 270.4 × 176 |
| Weight (g) | 1,200 |

# Network Convertor for LONWORKS®

**UTY-VLGX**



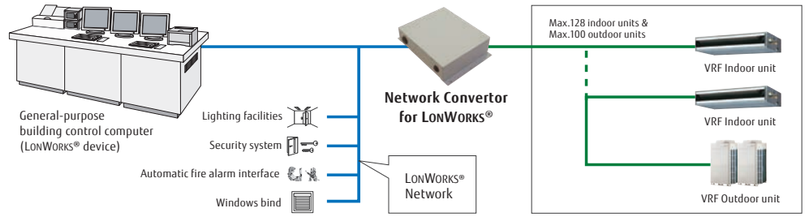
Max. Controllable
4 units to BMS

Max. Controllable
100 outdoor units

Max. Controllable
128 indoor units

- For connection between VRF network system and a LONWORKS® open network for management of small to medium-sized BMS and VRF network system.
- The UTY-VLGX permits central monitoring and control of a VRF network system from a BMS through a LONWORKS® interface.
- Up to 128 Indoor units can be connected to one Network Convertor for LONWORKS®

## Installation example




### Specifications

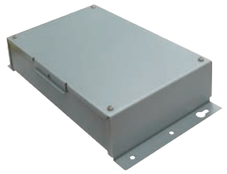
| Model name | UTY-VLGX |
|---|---|
| Power Supply | 208-240 V 50/60 Hz, Single phase |
| Power Consumption (W) | 4.5 |
| Dimensions (H × W × D) (mm) | 67 × 288 × 211 |
| Weight (g) | 1,500 |

### Transmission specifications (BMS side)

| | |
|---|---|
| Transmission speed | 78 kbps |
| Transceiver | FT-X1 (Echelon® Corporation) |
| Transmission way form | Free topology |
| Terminal resistor | None<br>(It attaches at the terminal of a network.) |

# MODBUS® Convertor for VRF

**UTY-VMGX**



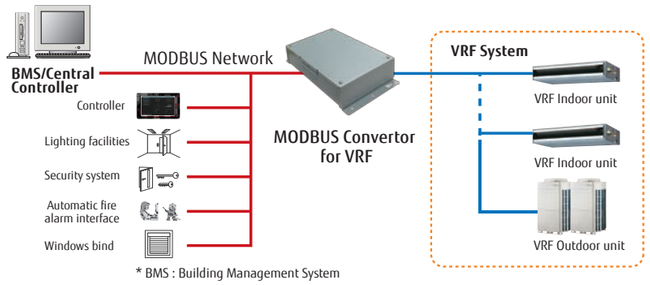
## The MODBUS Convertor allows a complete integration of air conditioners into MODBUS Networks.

- Compact and lightweight design
- Direct connection to MODBUS Network
- Up to 128 indoor units can be controlled in one MODBUS Convertor
- The MODBUS Convertor permits central monitoring and control of air conditioners from BMS or Central Controller.
- Up to 9 convertors can be connected to a VRF network. The simultaneous controls such as ON/OFF or temperature settings can be done for each zone.
- It is easy to locate the source of error if any connection errors should occur after completion of installation works.

Max. Controllable
9 units to one VRF

Max. Controllable
100 outdoor units

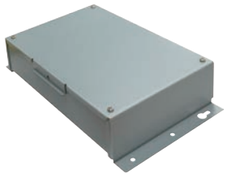
Selectable
128 indoor units




* BMS : Building Management System

# KNX® Convertor for VRF

**UTY-VKGX**

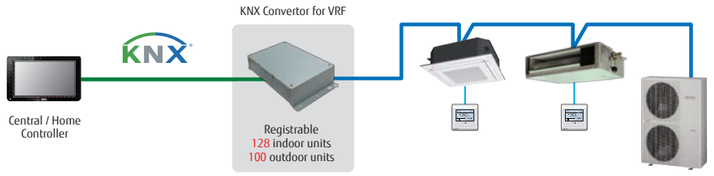


## KNX Convertor is useful for centralized control in a system.

- New KNX Convertor enables to connect central/home controller and Fujitsu General VRF system.
- A maximum of 128 indoor units and 100 outdoor units can be connected to single KNX Convertor.

Max. Controllable
100 outdoor units

Selectable
128 indoor units




**Specifications**

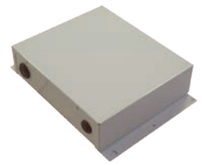
| Model name | UTY-VMGX |
|---|---|
| Power Supply | 220-240 V 50/60 Hz |
| Input power (W) | Max. 2 |
| Dimensions (H × W × D) (mm) | 54 × 260 × 150 |
| Weight (g) | 1,100 |

| Model name | UTY-VKGX |
|---|---|
| Power supply | 220-240 V 50/60 Hz |
| Power consumption (W) | 1.5 |
| Dimensions (H × W × D) (mm) | 54 × 260 × 150 |
| Weight (g) | 1,200 |



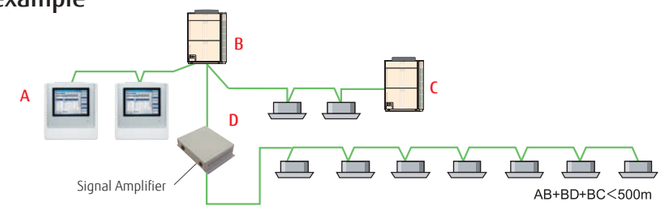
# Signal Amplifier

**UTY-VSGXZ1**



- Transmission Line length can be extended up to 3,600 m with multiple Signal Amplifiers.
- Up to 8 signal amplifiers can be installed in a VRF network system.
- A signal amplifier is required,
  (1) When the total wiring length of the transmission line exceeds 500 m.
  (2) When the total number of units on the transmission line exceeds 64.

## Installation example




**Specifications**

| Model name | UTY-VSGXZ1 |
|---|---|
| Power Supply | 208-240 V 50/60 Hz, Single phase |
| Power Consumption (W) | 4.5 |
| Dimensions (H × W × D) (mm) | 67 × 288 × 211 |
| Weight (g) | 1,500 |



# Control System List For Split/Multi Split

| Type | | Refrigerant | Indoor unit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | Outdoor unit | Other |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Wall Mounted | | | | | | | | | | | | Cassette | | | | | Cassette | Duct | | | | | | | | | | | | | | Floor | Floor/ Ceiling | Ceiling | Multi Split | | | | Single Phase | Branch Box (8 Rooms Multi) |
| | | | Flagship Range | Designer Range | Standard Range | | ECO Range | | Designer Range | | Standard Range | | | ECO Range | 4-way Flow Compact | Circular Flow | | | 4-way Flow | Mini | Slim | | Medium Static Pressure (Compact & Comfort) | | Medium Static Pressure (Standard) | | High Static Pressure | | Big | | | | | | Compact Cassette | Mini Duct | Slim Duct | Floor Ceiling | 5-6 Rooms Multi | |
| | | R32 | ASYG 12KXCA | ASYG 07/09/12/14 KGTB | ASYG 07/09/12/14 KMTB | ASYG 18/24KMTA | ASYG 07/09/12 KPCA | ASYG 18/24KLCA | | | | | | | AUXG 09/12/14/ 18/22/24 KVLA | AUXG 18/22/24/ 30/36/45/ 54KRLB | | | | | ARXG 09/12/14/18 KLLAP | | ARXG 12/14/18/ 22/24/30/ 36/45/54 KHTAP | | ARXG 22/24/30/ 36/45KMLA | | ARXG 45/54KHTA | | | | | | | | AUYG 07KVLA | ARYG 07/09/12 KSLAP | ARYG 07KLLAP | | | |
| | | R410A | | | | | | | ASYG 09/12LTCA | ASYG 07/09/12/14 LUCA | ASYG 07/09/12/14 LMCE | ASYG 18/30LFCA, ASYG24LFCC | ASYG 30/36LMTA | ASYG 07/09/12 LLCE | | AUYG 12/14/18 LVLB, AUYG24LVLA | AUXG 18/24/30/ 36/45/54 LRLB | | AUYG 30/36LRLE, AUYG 36/45/54 LRLA | ARYG 12/14/18 LSLAP | | ARYG 12/14/18 LLTB | | ARYG 12/14/18/ 24/30/36/ 45/54 LHTBP | | ARYG 24/36/45 LMLA, ARYG 30/36LMLE | | | ARYG 72/90LHTA | AGYG 09/12/14 LVCA | ABYG 18LVTB, ABYG 24LVTA | ABYG 30/36LRTE, ABYG 36/45/54 LRTA | AUYG 07/09LVLA | ARYG 07/09LSLAP | ARYG 07/09LLTA | ABYG 14LVTA | AOYG 36LBLAS, AOYG 45LBLA6 | UTP-PY03A UTP-PY02A |
| Controllers | Wired Remote Controller | | | UTY-RNRYZ3+ UTY-TWRXZ2 | | UTY-RNRYZ3+ UTY-TWRXZ2 | | | | | | | UTY-RNRYZ3+ UTY-TWRX | | UTY-RNRYZ3 | | UTY-RNRYZ3 | | UTY-RNRYZ3 | | UTY-RNRYZ3 | | UTY-RNRYZ3 | | | | UTY-RNRYZ3 | | | | | | UTY-RNRYZ3 (KVLA) | UTY-RNRYZ3 | | | | |
| | | | | UTY-RLRY+ UTY-TWRXZ2 | | UTY-RLRY+ UTY-TWRXZ2 | | | | | | | UTY-RLRY+ UTY-TWRX | | UTY-RLRY | | UTY-RLRY | | UTY-RLRY | | UTY-RLRY | | UTY-RLRY | | | | UTY-RLRY | | | | | | UTY-RLRY | | | | | |
| | | | | | UTY-RVNYM+ UTY-TWBXF2 | | | | UTY-RVNYM+ UTY-TWBXF2 | | UTY-RVNYM+ UTY-XCBXZ2 | UTY-RVNYM | UTY-RVNYM+ UTY-XWNX | | UTY-RVNYM | | | | UTY-RVNYM | | | | UTY-RVNYM | | | | | | | | | | | | | | | | |
| | | | | | UTY-RNNYM+ UTY-TWBXF2 | | | | UTY-RNNYM+ UTY-TWBXF2 | | UTY-RNNYM+ UTY-XCBXZ2 | UTY-RNNYM | UTY-RNNYM+ UTY-XWNX | | UTY-RNNYM | | | | UTY-RNNYM | | | | UTY-RNNYM | | | | | | | | | | | | | | | | |
| | Simple Remote Controller | 2-wire type 3-wire type | | UTY-RSRY, UTY-RHRY+ UTY-TWRXZ2 | UTY-RSNYM+ UTY-TWBXF2 | UTY-RSRY, UTY-RHRY+ UTY-TWRXZ2 | | | UTY-RSNYM+ UTY-TWBXF2 | | UTY-RSNYM+ UTY-XCBXZ2 | UTY-RSNYM | UTY-RSNYM+ UTY-XWNX, UTY-RSRY UTY-RHRY+ UTY-XWRX | | UTY-RSRY, UTY-RHRY, UTY-RSNYM | UTY-RSNYM | UTY-RSRY, UTY-RHRY, UTY-RSNYM | UTY-RSNYM | UTY-RSRY, UTY-RHRY, UTY-RSNYM | UTY-RSNYM | UTY-RSRY, UTY-RHRY, UTY-RSNYM | | UTY-RSNYM | | UTY-RSRY, UTY-RHRY, UTY-RSNYM | | UTY-RSNYM | | UTY-RSRY, UTY-RHRY, UTY-RSNYM | | | UTY-RSNYM | | | UTY-RSRY, UTY-RHRY, UTY-RSNYM | | | UTY-RSNYM | | |
| | Central Remote Controller | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | UTY-DMMYM | |
| | Wireless Remote Controller | | | | | | | | | | | | | | UTY-LNTY, UTY-LNTX | | | | | | | | | | | | | | | | | | | | | | UTY-LNTY, UTY-LNTX | | | | | |
| | IR Receiver Unit with Wireless Remote Controller | For Duct For Cassette | | | | | | | | | | | | | | | | | UTY-LRHYA2 | | | UTY-LRHYM | | | | UTY-LRHYM | | UTY-LRHYM (60) | UTY-LRHYM | | | | | | | | UTY-LRHYM | | | |
| | | For Duct For Cassette | | | | | | | | | | | | | | UTY-LBTYC | | | | | UTY-LBTYM | | UTY-LBTYM | | | | | | UTY-LBTYM | | | | | | | UTY-LBTYM | | | |
| Interface | MODBUS Convertor | | | UTY-VMSX | | | | | | | | | UTY-VMSX | | UTY-VMSX | | UTY-VMSX | | | | UTY-VMSX | | UTY-VMSX | | | | | | UTY-VMSX | | | | | | UTY-VMSX (KVLA) | UTY-VMSX | | | | |
| | MODBUS Interface | | | | | | | | FJ-RC-MBS-1+ UTY-TWBXF2 | | FJ-RC-MBS-1+ UTY-XCBXZ2 | FJ-RC-MBS-1 | FJ-RC-MBS-1+ UTY-XWNX | | FJ-RC-MBS-1 | | | | FJ-RC-MBS-1 | | | | FJ-RC-MBS-1 | | | | | | FJ-RC-MBS-1 | | | | | | FJ-RC-MBS-1 | FJ-RC-MBS-1 (KSLAP) | FJ-RC-MBS-1 | | | |
| | KNX Convertor | | | UTY-VKSX | | | | | | | | | UTY-VKSX | | UTY-VKSX | | UTY-VKSX | | | | UTY-VKSX | | UTY-VKSX | | | | | | UTY-VKSX | | | | | | UTY-VKSX (KVLA) | UTY-VKSX | | | | |
| | KNX Interface | | | | | | | | FJ-RC-KNX-1i+ UTY-TWBXF2 | | FJ-RC-KNX-1i+ UTY-XCBXZ2 | FJ-RC-KNX-1i | FJ-RC-KNX-1i+ UTY-XWNX | | FJ-RC-KNX-1i | | | | FJ-RC-KNX-1i | | | | FJ-RC-KNX-1i | | | | | | FJ-RC-KNX-1i | | | | | | FJ-RC-KNX-1i | FJ-RC-KNX-1i (KSLAP) | FJ-RC-KNX-1i | | | |
| | Wireless LAN Interface | | | UTY-TFSXW1 | | | | | UTY-TFNXZ1+ UTY-TWBXF2 | | UTY-TFNXZ1+ UTY-XCBXZ2 | UTY-TFNXZ1 | UTY-TFNXZ1+ UTY-XWNX | | UTY-TFSXZ1 | UTY-TFNXZ1 | UTY-TFSXZ1 | UTY-TFNXZ1 | | UTY-TFNXZ1 | UTY-TFNXZ1 | UTY-TFSXZ1 | UTY-TFNXZ1 | UTY-TFSXZ1 | UTY-TFNXZ1 | UTY-TFSXZ1 | UTY-TFNXZ1 | UTY-TFSXZ1 | UTY-TFNXZ1 | UTY-TFSXZ1 | UTY-TFNXZ1 | UTY-TFSXZ1 | UTY-TFNXZ1 | UTY-TFSXZ1 (KVLA), UTY-TFNXZ1 (LVLA) | UTY-TFSXZ1 | UTY-TFSXZ1 (KLLAP), UTY-TFNXZ1 (LLTA) | UTY-TFNXZ1 | | |
| | | | | | | UTY-TFSXF2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | UTY-WIFI-1+ UTY-TWBXF2 | | | | FJ-RC-WIFI-1+ UTY-TWBXF2 | | FJ-RC-WIFI-1+ UTY-XCBXZ2 | FJ-RC-WIFI-1 | FJ-RC-WIFI-1+ UTY-XWNX | | FJ-RC-WIFI-1 | | | | FJ-RC-WIFI-1 | | | | FJ-RC-WIFI-1 | | | | | | | | | | | | FJ-RC-WIFI-1 | | | | | |
| | External Switch Controller | | | UTY-TERX+ UTY-TWRXZ2 | UTY-TERX+ UTY-TWBXF2 | UTY-TERX+ UTY-TWRXZ2 | | | UTY-TERX+ UTY-TWBXF2 | | UTY-TERX+ UTY-XCBXZ2 | UTY-TERX | UTY-TERX+ UTY-TWRXZ/ UTY-XWNX | | UTY-TERX | | | | UTY-TERX | | | | UTY-TERX | | | | | | | | | | | | | | | | |
| | Network Convertor for Single Split | DC Power Supply Type AC Power Supply Type | | UTY-VTGX+ UTY-TWRXZ2 or UTY-VTGXV+ UTY-TWRXZ2 | UTY-VTGX+ UTY-TWBXF2 or UTY-VTGXV+ UTY-TWBXF2 | UTY-VTGX+ UTY-TWRXZ2 or UTY-VTGXV+ UTY-TWRXZ2 | | | UTY-VTGX+UTY-TWBXF2 or UTY-VTGXV+UTY-TWBXF2 | | UTY-VTGX+ UTY-XCBXZ2 or UTY-VTGXV+ UTY-XCBXZ2 | UTY-VTGX UTY-VTGXV | UTY-VTGX+ UTY-TWRX/UTY-XWNX or UTY-VTGXV+ UTY-TWRX/UTY-XWNX | | UTY-VTGX UTY-VTGXV | | | | UTY-VTGX UTY-VTGXV | | | | | | | | | | | | | | | | | | |

# Control System List For VRF

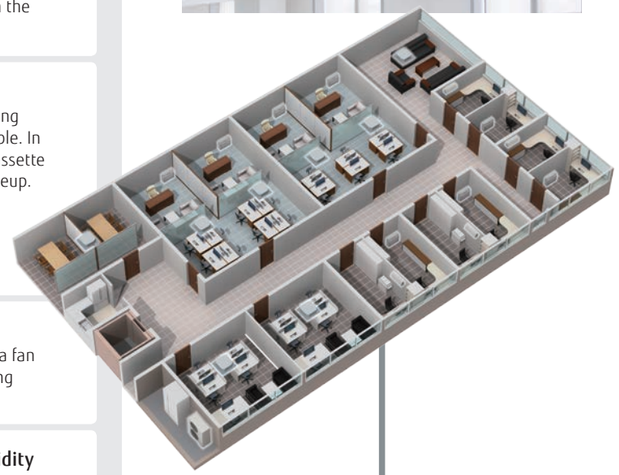
| Type | | Refrigerant | Indoor unit | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Cassette | | | | Duct | | | | | | | Duct | Floor | | Ceiling/ Floor | Ceiling | Wall Mounted | | | | | |
| | | | 3D Flow | Compact Grid type / Standard type | Circular Flow (Slim) | Circular Flow (Large) | Mini (With drain pump) | Slim (With drain pump) | | Medium Static Pressure | High Static Pressure | | Large Airflow Duct (Compact) | Large Airflow Duct (Large) | — | EEV external | | | — | EEV external | — | EEV external | — | |
| | | R410A | AUXS 018/024 GLEH | AUXB 004/007/009/ 012/014/018/ 024GLEH | AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH | AUXK 018/024/030/ 034/036/045/ 054GLEH | ARXK 004/007/009/ 012/014/018/ 024GLEH | ARXD 04GALH | ARXD 007/009/012/ 014/018/024 GLEH | ARXA 024/030/036/ 045GLEH | ARXC 45/60GATH | ARXC 036/072/090/ 096GTEH | ARXN 009/012/014/ 018/024/030 GLBH | ARXN 18/24/30/ 34/36/45 GATH | AGYA 004/007/ 009/012/014 GCEH | AGYE 004/007/ 009/012/014 GCEH | ABYA 012/014/018/ 024GTEH | ABYA 030/036/045/ 054GTEH | ASYA 004/007/009 GTEH | ASYE 004/007/009 GTEH | ASYA 012/014GCEH | ASYE 012/014GCEH | ASYA 18/24GBCH | ASYA 030/034GTEH |
| Controllers | Wired Remote Controller | | ● UTY-RNRYZ3 | | | | | | | | | | | | | | | | ● UTY-RNRYZ3 | | | | | |
| | | | ● UTY-RLRY | | | | | | | | | | | | | | | | ● UTY-RLRY | | | | | |
| | Simple Remote Controller | 2-wire type 3-wire type | ● UTY-RSRY UTY-RHRY | | | | | ● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY | ● UTY-RSRY UTY-RHRY | | ● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY | ● UTY-RSRY UTY-RHRY | ● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY | ● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY | | | | | ● UTY-RSRY UTY-RHRY | | | | ● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY | ● UTY-RSRY UTY-RHRY |
| | Wireless Remote Controller | | ● UTY-LNHY | | | | | | | | | | | | | | | | ● UTY-LNHY | | | | | |
| | Group Remote Controller | | ● UTY-CGGY + UTY-VGGXZ1 | | | | | | | | | | | | | | | | ● UTY-CGGY + UTY-VGGXZ1 | | | | | |
| | Central Remote Controller | | ● UTY-DCGYZ1 | | | | | | | | | | | | | | | | ● UTY-DCGYZ1 | | | | | |
| | Touch Panel Controller | | ● UTY-DTGYZ1 | | | | | | | | | | | | | | | | ● UTY-DTGYZ1 | | | | | |
| | System Controller, System Controller Lite | | ● UTY-APGXZ1, UTY-ALGXZ1 | | | | | | | | | | | | | | | | ● UTY-APGXZ1, UTY-ALGXZ1 | | | | | |
| Interface | BACnet Gateway | | ● UTY-ABGXZ1, UTY-VBGX | | | | | | | | | | | | | | | | ● UTY-ABGXZ1, UTY-VBGX | | | | | |
| | Network Convertor for LonWorks | | ● UTY-VLGX | | | | | | | | | | | | | | | | ● UTY-VLGX | | | | | |
| | MODBUS Convertor | | ● UTY-VMSX | | | | | | | | | | | | | | | | ● UTY-VMSX | | | | | |
| | MODBUS Convertor | | ● UTY-VMGX | | | | | | | | | | | | | | | | ● UTY-VMGX | | | | | |
| | KNX Convertor | | ● UTY-VKSX | | | | | | | | | | | | | | | | ● UTY-VKSX | | | | | |
| | KNX Convertor | | ● UTY-VKGX | | | | | | | | | | | | | | | | ● UTY-VKGX | | | | | |
| | Wireless LAN Interface | | ● UTY-TFSXZ1 | | ● UTY-TFSXZ1 | | | | | | | | | | ● UTY-TFSXZ1 | | | | ● UTY-TFSXZ1 | | | | ● UTY-TFSXZ1 | |
| | External Switch Controller | | ● UTY-TERX | | | | | | | | | | | | | | | | ● UTY-TERX | | | | | |
| | Network Convertor for Single split | DC Power Supply Type AC Power Supply Type | ● UTY-VTGX UTY-VTGXV | | | | | | | | | | | | | | | | ● UTY-VTGX UTY-VTGXV | | | | | |

# Optional Parts Overview

## For Split & Multi Split, VRF

Various optional parts are provided to install the selected indoor unit properly according to the environment.







### Optional Parts
## For Cassette



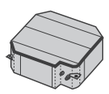
**Human Sensor Kit**
The room temperature can be controlled by detecting the temperature accurately from the built-in sensor



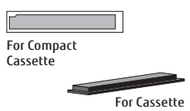

**Cassette Grille**
Cassette grille lineup matching the various interior is available. In addition, grid ceiling type cassette grille is also added to the lineup.



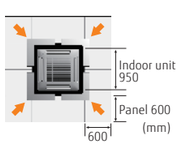

**Fresh Air Intake Kit**
Fresh air can be taken in by a fan which can be connected using external control unit.



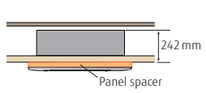
**Insulation for High Humidity**
**For Compact Cassette type/ Cassette type**
Insulation for High Humidity is used when the installation location is in the high humidity environment.




**Air Outlet Shutter Plate**
According to the installation site, the number of outlet directions can be changed to 3 directions by Air Outlet Shutter Plate.

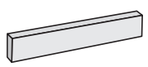



**Wide Panel**
When the cassette type is installed at the narrow space above ceiling, the space can be filled in by Wide Panel.




**Panel Spacer**
When the space above the ceiling is low and the main body is projected out of the ceiling surface, Panel Spacer can be used as decoration

### Optional Parts
## For Floor



**Half Concealed Kit**
This kit is used to half conceal floor type indoor unit into the wall.







### Optional Parts
## For Duct & Ceiling



**Auto Louver Grille Kit**
Simple flat Auto louver will provide comfort airflow and harmonize with luxury Interior



**Remote Sensor Unit**
New amenity space can be offered by installing the Remote sensor.



**Long Life Filter**
Grit and dust can be caught sufficiently. In consideration of running cost, long-life design is achieved.



**Flange**
Flange is used for Medium Static Pressure Duct type and Ceiling type to connect between pipes.



**Drain Pump Unit**
This device can drain the collected water during operation.

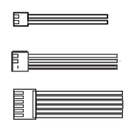
### Connection Parts




**Communication Kit**
For wall mounted type, this kit is required when External Connect kit & Set or wired remote controller is connected to indoor unit.




**External Input and Output PCB**
For Wall mounted, Duct, or Cassette type, these parts are required when external input and output function is used.



**External Connect Kit & Set**
These wires can connect between the product PCB and external device.



**Connection Units**
Connection units are provided to separate the pipes at the connection of multiple indoor units in Multi type or VRF system.



NEW **External Power Supply Unit**
External Power Supply Unit can protect the units in the system even if some powers of indoor units are shut down in the system.



**External Input and Output PCB Box & Bracket**
These are the box and bracket for installing the External input and output PCB

# Auto Louver Grille Kit

**UTD-GXTA-W / UTD-GXTB-W / UTD-GXTC-W**

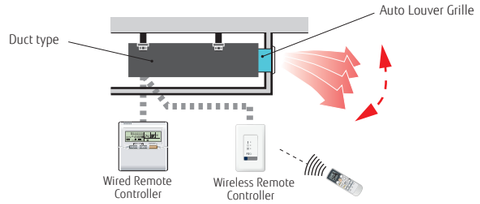


Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.

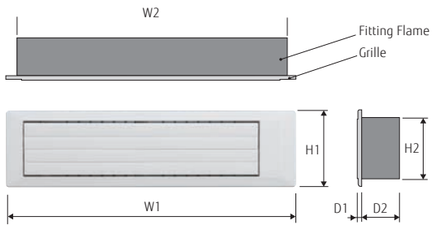



## Flexible Control

- **Operation with indoor unit**
  Auto Louver can be operated by synchronizing remote controller of indoor unit.
- **UP and Down auto swing**
  - Auto airflow direction and auto swing
  - 4 steps selectable
- **Auto-closing louver**
  When operation of indoor unit is stopped, the louver will automatically close.




## Dimensions




Unit:mm

| Model Name | W1 | W2 | H1 | H2 | D1 | D2 |
|---|---|---|---|---|---|---|
| UTD-GXTA-W | 683 | 645 | 180 | 148 | 9 | 84 |
| UTD-GXTB-W | 883 | 845 | | | | |
| UTD-GXTC-W | 1,083 | 1,045 | | | | |

**Specifications**

| Model name | | | UTD-GXTA-W | UTD-GXTB-W | UTD-GXTC-W |
|---|---|---|---|---|---|
| Applicable Indoor Unit | | | ARYG07/09LLTA<br>ARYG12/14LLTB<br>ARXD007/009/012/014GLEH (For VRF)<br>ARXK007/009/012/014GLEH (For VRF)<br>ARXD04GALH (For VRF) | ARYG18LLTB<br>ARXD018GLEH (For VRF)<br>ARXK018GLEH (For VRF) | ARXD024GLEH (For VRF)<br>ARXK024GLEH (For VRF) |
| Power Supply | | | Connecting with Control box of indoor unit | | |
| Fixing of Auto Louver Grille | | | Screw fixing to Flange or Square Duct | | |
| Extension Square Duct Limit | | | 1.0m (Max. duct length between indoor unit and Grille) | | |
| Net Dimension (H × W × D) | | mm | 180×683×(84+9) | 180×883×(84+9) | 180×1083×(84+9) |
| Weight | Net | kg (lbs) | 2.0 (4.4) | 2.5 (5.6) | 3.0 (6.7) |
| | Gross | | 3.0 (6.7) | 3.5 (7.8) | 4.0 (8.9) |
| Color | | | White | | |
| Louver Motor | | | Stepping Motor | | |
| Accessories | | | Fitting Flame, etc. | | |
| Operation range | Cooling | °C | 18 to 32 | | |
| | | % RH | 80% or less | | |
| | Heating | °C | 16 to 30 | | |

# External Power Supply Unit

**UTZ-GXXA**

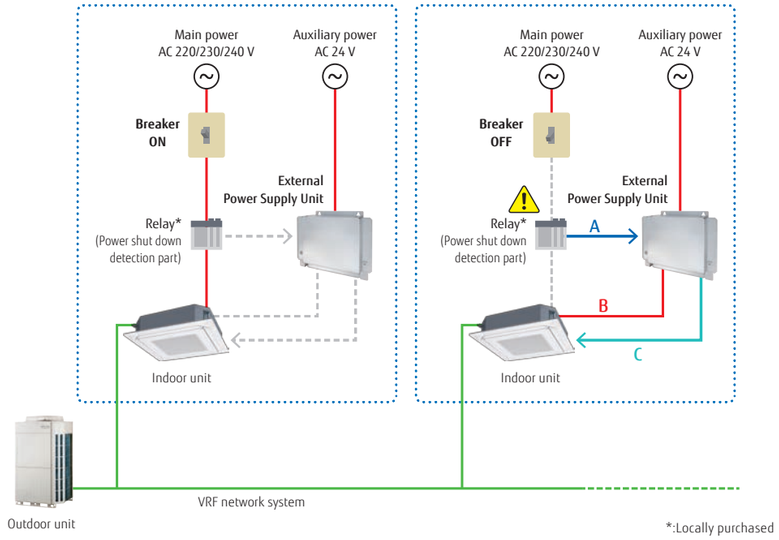


## External Power Supply Unit can protect the units in the system even if some powers of indoor units are shut down in the system.

Power is supplied to the indoor unit from auxiliary power by connecting to External Power Supply Unit. This makes it possible to operate continuously without system error.

## High Reliability

- A: Main power shut down can be detected at power shut down detection part.
- B: The power for indoor unit expansion valve drive, etc. is supplied. (DC 12V, 5V)
- C: Power supply from External Power Supply Unit is notified.




*:Locally purchased

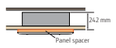
**Note**

- When changing the power supply voltage to AC24V, use a power transformer with an insulation structure equivalent to CLASS 2.
- Indoor units that are powered off and driven by an External Power Supply Unit are handled in the same manner as operation off units in the electricity charge apportionment function. Since standby power may be charged to them, the electricity charge apportionment result for them may not be 0.

**Specifications**

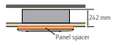
| Model name | UTZ-GXXA |
|---|---|
| Power Supply | AC 24 V 50/60 Hz, single phase |
| Dimensions (H × W × D) (mm) | 65 × 186 × 178 |
| Weight (g) | 500 |

# Optional Parts List For Split/Multi Split

| Type | Refrigerant | Indoor unit | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Cassette | | | Duct | | | | | Duct | Floor | Ceiling | Wall Mounted | | Multi Split | | | |
| | | 4-way Flow Compact | Circular Flow | 4-way Flow | Mini | Slim | Medium Static Pressure (Compact & Comfort) | Medium Static Pressure (Standard) | High Static Pressure | Big | | | | | 4-way flow Compact Cassette | Mini Duct | Slim Duct | Floor Ceiling |
| | R32 | AUXG 09/12/14/ 18/22/24 KVLA | AUXG 18/22/24/ 30/36/45/54 KRLB | | | ARXG 09/12/14/18 KLLAP | ARXG 12/14/18/22/ 24/30/36/45/54 KHTAP | ARXG 22/24/30/36/45 KMLA | ARXG45/54KHTA | | | | ASYG07/09/12KPCA | | AUYG07KVLA | ARYG07/09/12KSLAP | ARYG07KLLAP | |
| | R410A | AUYG12/14/18LVLB, AUYG24LVLA | AUXG 18/24/30/ 36/45/54 LRLB | AUYG30/36LRLE, AUYG36/45/54LRLA | ARYG12/14/18LSLAP | ARYG12/14/18LLTB | ARYG 12/14/18/24/ 30/36/45/54 LHTBP | ARYG24/36/45LMLA, ARYG30/36LMLE | ARYG45/54/60LHTA | ARYG72/90LHTA | AGYG09/12/14LVCA | ABYG30/36LRTE, ABYG36/45/54LRTA | | ASYG07/09/12LLCE | AUYG07/09LVLA | ARYG07/09LSLAP | ARYG07/09LLTA | ABYG14LVTA |
| Human Sensor Kit |  | | ● UTY-SHZXC | | | | | | | | | | | | | | | |
| Remote Sensor Unit |  New amenity space can be offered by installing the Remote sensor. | | | | ● UTY-XSZX | | | | | ● UTY-XSZX | | | | | | ● UTY-XSZX | | |
| Cassette Grille |  UTG-UFYF-W<br>UTG-UFYD-W<br>UTG-UGYA-W<br>UTG-UKYA-W<br>UTG-UKYC-W<br>UTG-UKYA-B | ● UTG-UFYF-W (KVLA), UTG-UFYD-W (LVLA,LVLB) | ● UTG-UKYA-W, UTG-UKYC-W, UTG-UKYA-B | ● UTG-UGYA-W | | | | | | | | | | | ● UTG-UFYF-W (KVLA), UTG-UFYD-W (LVLA) | | | |
| Auto Louver Grille Kit |  | | | | ● UTD-GXTA-W (09/12/14) UTD-GXTB-W (18) | | | | | | | | | | | ● UTD-GXTA-W (09/12) | | |
| Long Life Filter |  | | | | | | ● UTD-LFNA (36/45/54) UTD-LFNB (18/22/24/30) UTD-LFNC (12/14) | ● UTD-LF25NA | ● UTD-LF60KA (45/54) | ● UTD-LFKA | | | | | | | | |
| Flange |  | | | | | | | ● UTD-SF045T UTD-RF204 | | | | ● UTD-RF204 | | | | | | |
| Drain Pump Unit |  | | | | | | | ● UTZ-PX1NBA | | ● UTZ-PX1NAB | | ● UTR-DPB24T | | | | | | |
| Wide Panel |   | | ● UTG-AKXA-W | | | | | | | | | | | | | | | |
| Panel Spacer |   | | ● UTG-BKXA-W | | | | | | | | | | | | | | | |
| Fresh Air Intake Kit |  For Compact Cassette For Cassette | ● UTZ-VXAA | ● UTZ-VXRA | | | | | | | | | | | | ● UTZ-VXAA | | | |
| Air Outlet Shutter Plate |  For Compact Cassette<br>For Cassette | ● UTR-YDZB | ● UTR-YDZK | | | | | | | | | | | | ● UTR-YDZB | | | |
| Insulation for High Humidity |  For Compact Cassette type/ Cassette type | ● UTZ-KXGC | ● UTZ-KXRA | | | | | | | | | | | | ● UTZ-KXGC | | | |
| Half Concealed Kit |  This kit is used to half conceal floor type indoor unit into the wall. | | | | | | | | | | ● UTR-STA | | | | | | | |
| Remote Controller Holder |  | | | | | | | | | | | | ● UTZ-RXLA | | | | | |

• There are no optional parts for Floor/Ceiling type.

# Optional Parts List For VRF

| Type | Refrigerant | Indoor unit | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Cassette | | | | Duct | | | | | | Duct | | Floor | | Floor / Ceiling | Ceiling | Wall Mounted | | | | | |
| | | 3D Flow | Compact Grid type / Standard type | Circular Flow (Slim) | Circular Flow (Large) | Mini (With drain pump) | Slim (With drain pump) | | Medium Static Pressure | High Static Pressure | | Large Airflow Duct (Compact) | Large Airflow Duct (Large) | — | EEV external | | | — | EEV external | — | — |
| | R410A | AUXS 018/024GLEH | AUXB 004/007/009/ 012/014/018/024 GLEH | AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH | AUXK 018/024/030/ 034/036/045/ 054GLEH | ARXK 004/007/009/ 012/014/018/024 GLEH | ARXD 04GALH | ARXD 007/009/012/ 014/018/024 GLEH | ARXA 024/030/036/045 GLEH | ARXC 45/60GATH | ARXC 036/072/090/096 GTEH | ARXN 009/012/014/ 018/024/030 GLBH | ARXN 18/24/30/ 34/36/45 GATH | AGYA 004/007/ 009/012/014 GCEH | AGYE 004/007/ 009/012/014 GCEH | ABYA 012/014/018/024 GTEH | ABYA 030/036/045/054 GTEH | ASYA 004/007/009 GTEH, ASYA 012/014GCEH | ASYE 004/007/009 GTEH, ASYE 012/014GCEH | ASYA 18/24GBCH | ASYA 030/034GTEH |
| IR Receiver Unit |  | ● UTY-TRHX | | ● UTY-LBHXD | | ● UTY-TRHX | ● UTB-YWC | ● UTY-TRHX | | ● UTB-YWC | ● UTY-TRHX | ● UTB-YWC | | | | | | | | | | | |
| Human Sensor Kit |  | | | ● UTY-SHZXC | | | | | | | | | | | | | | | | | | | |
| Remote Sensor Unit |  New amenity space can be offered by installing the Remote sensor. | | | | | ● UTY-XSZX | | | | | | ● UTY-XSZX | | | | | | | | | | | |
| Cassette Grille |  UTG-USYA-W<br>UTG-UFYE-W<br>UTG-UFYC-W<br>UTG-UKYC-W<br>UTG-UKYA-B | ● UTG-USYA-W | ● UTG-UFYE-W UTG-UFYC-W | ● UTG-UKYC-W UTG-UKYA-B | | | | | | | | | | | | | | | | | | | |
| Auto Louver Grille Kit |  | | | | | ● UTD-GXTA-W, UTD-GXTB-W (18), UTD-GXTC-W (24) | | | | | | ● UTD-GXTC-W (009/012/014) | | | | | | | | | | | |
| Long Life Filter |  | | | | | | | | ● UTD-LF25NA | ● UTD-LF60KA (45/60/036) | | ● UTD-LF25NA(018) UTD-LFNA(024/030) | | | | | | | | | | | |
| Flange |  | | | | | | | | ● UTD-SF045T UTD-RF204 | | | ● UTD-SF045T(018) UTD-RF204(018) | | | | | ● UTD-RF204 | | | | | |
| Drain Pump Unit |  | | | | | | | | ● UTZ-PX1NBA | | | ● UTZ-PX1NBA(018) | | | | | ● UTR-DPB24T | | | | | |
| Wide Panel |   | | | ● UTG-AKXA-W | | | | | | | | | | | | | | | | | | | |
| Panel Spacer |   | | | ● UTG-BKXA-W | | | | | | | | | | | | | | | | | | | |
| Fresh Air Intake Kit*1 |  For Compact Cassette For Cassette | | ● UTZ-VXAA | ● UTZ-VXRA | | | | | | | | | | | | | | | | | | | |
| Air Outlet Shutter Plate |  For Compact Cassette<br>For Cassette | | ● UTR-YDZB | ● UTR-YDZK | | | | | | | | | | | | | | | | | | | |
| Insulation for High Humidity |  For Compact Cassette type/ Cassette type | | ● UTZ-KXGC | ● UTZ-KXRA | | | | | | | | | | | | | | | | | | | |
| Half Concealed Kit |  This kit is used to half conceal floor type indoor unit into the wall. | | | | | | | | | | | | | ● UTR-STA | | | | | | | | | |
| External Power Supply Unit |  | ● UTZ-GXXA | | | | | ● UTZ-GXXA | | | ● UTZ-GXXA | | | | ● UTZ-GXXA | | | | | | | ● UTZ-GXXA | | |

# Function List For Split/Multi Split

## External Input and Output Function/External Connect Kit/Communication Kit

| Type | | Refrigerant | Indoor unit: Wall Mounted: Flagship Range | Indoor unit: Wall Mounted: Designer Range | Indoor unit: Wall Mounted: Standard Range | Indoor unit: Wall Mounted: Standard Range | Indoor unit: Wall Mounted: ECO Range | Indoor unit: Wall Mounted: ECO Range | Indoor unit: Wall Mounted: Designer Range | Indoor unit: Wall Mounted: Designer Range | Indoor unit: Wall Mounted: Standard Range | Indoor unit: Wall Mounted: Standard Range | Indoor unit: Wall Mounted: Standard Range | Indoor unit: Wall Mounted: ECO Range | Indoor unit: Cassette: 4-way Flow Compact | Indoor unit: Cassette: 4-way Flow Compact | Indoor unit: Cassette: Circular Flow | Indoor unit: Cassette: Circular Flow | Indoor unit: Cassette: 4-way Flow |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | R32 | ASYG 12KXCA | ASYG 07/09/12/14 KGTB | ASYG 07/09/12/14 KMTB | ASYG 18/24KMTA | ASYG 07/09/12 KPCA | ASYG 18/24KLCA | | | | | | | AUXG 09/12/14/ 18/22/24 KVLA | | AUXG 18/22/24/ 30/36/45/ 54KRLB | | |
| | | R410A | | | | | | | ASYG 09/12LTCA | ASYG 07/09/12/14 LUCA | ASYG 07/09/12/14 LMCE | ASYG 18/30LFCA, ASYG24LFCC | ASYG 30/36LMTA | ASYG 07/09/12 LLCE | | AUYG 12/14/18 LVLB, AUYG24LVLA | | AUXG 18/22/30/ 36/45/54 LRLB | AUYG 30/36LRLE, AUYG 36/45/54 LRLA |
| Input | Operation/Stop | | | ● UTY-XCSZ2+ UTY-XWZX | ● UTY-TWBXF2+ UTY-XWZXZ5 | ● UTY-XCSZ2+ UTY-XWZXZ5 | | | ● UTY-XWZXZ5 + UTY-TWBXF2 | | ● UTY-XWZXZ5+ UTY-XCBXZ2 | ● UTY-XWZX | ●UTY-XWZX or ●○ UTY-XWZX +UTY-XCSXZ2 +UTZ-GXXB | | ● PCB Terminal or ●○UTY-XCSX +UTZ-GXRA | ● UTY-XWZX | ● PCB Terminal or ●○UTY-XCSX +UTZ-GXRA | | ● UTY-XWZX |
| | Batch Stop | | | | | | | | | | | | | | | | | | | |
| | Forced Stop | | | ● UTY-XCSZ2+ UTY-XWZX | ● UTY-TWBXF2+ UTY-XWZXZ5 | ● UTY-XCSZ2+ UTY-XWZXZ5 | | | ● UTY-XWZXZ5 + UTY-TWBXF2 | | ● UTY-XWZXZ5+ UTY-XCBXZ2 | ● UTY-XWZX | ●UTY-XWZX or ●○ UTY-XWZX +UTY-XCSXZ2 +UTZ-GXXB | | ● PCB Terminal | ● UTY-XWZX | ● PCB Terminal | | ● UTY-XWZX |
| | Emergency Stop | | | | | | | | | | | | | | | | | | | |
| | Forced Thermostat off | | | ● UTY-XCSZ2+ UTY-XWZX | | ● UTY-XCSZ2+ UTY-XWZXZ5 | | | | | | | ●○ UTY-XWZX +UTY-XCSXZ2 +UTZ-GXXB | | ●○ UTY-XCSX +UTZ-GXRA | | ●○ UTY-XCSX +UTZ-GXRA | | |
| | Low Noise Mode Operation | | | | | | | | | | | | | | | | | | | |
| | Cooling / Heating Priority | | | | | | | | | | | | | | | | | | | |
| | Outdoor Unit Operation Peak Control | | | | | | | | | | | | | | | | | | | |
| Output | Operation Status | | | ● UTY-XCSZ2+ UTY-XWZX | ● UTY-TWBXF2+ UTY-XWZXZ5 | ● UTY-XCSZ2+ UTY-XWZXZ5 | | | ○ UTY-XWZXZ5 + UTY-TWBXF2 | | ○ UTY-XWZXZ5+ UTY-XCBXZ2 | ○ UTY-XWZX | ●UTY-XWZX ●UTY-XWZX +UTY-XCSXZ2 +UTZ-GXXB | | ● UTY-XWZXZG or ○UTY-XCSX+ UTZ-GXRA | ○ UTY-XWZX | ● UTY-XWZXZG or ○UTY-XCSX+UTZ-GXRA | | ○ UTY-XWZX |
| | Error Status | | | ● UTY-XCSZ2+ UTY-XWZX | ● UTY-TWBXF2+ UTY-XWZXZ5 | ● UTY-XCSZ2+ UTY-XWZXZ5 | | | ○ UTY-XWZXZ5 + UTY-TWBXF2 | | ○ UTY-XWZXZ5+ UTY-XCBXZ2 | | ●UTY-XWZX ●UTY-XWZX +UTY-XCSXZ2 +UTZ-GXXB | | ● UTY-XWZXZG or ○UTY-XCSX+ UTZ-GXRA | | ● UTY-XWZXZG or ○UTY-XCSX+UTZ-GXRA | | |
| | Compressor status | | | ● UTY-XCSZ2+ UTY-XWZX | | | | | | | | | | | | | | | | |
| | Indoor Unit Fun Operation Status | | | ● UTY-XCSZ2+ UTY-XWZX | | ● UTY-XCSZ2+ UTY-XWZXZ5 | | | | | | | ●UTY-XWZX ●UTY-XWZX +UTY-XCSXZ2 +UTZ-GXXB | | ● UTY-XWZXZG or ○UTY-XCSX+ UTZ-GXRA | ● UTZ-VXAA*1 | ● UTY-XWZXZG or ○UTY-XCSX+UTZ-GXRA | | ● UTZ-VXRA*1 |
| | Set point attainment status | | | | | | | | | | | | ● UTY-XWZX*2 | | | | | | |
| | Auxiliary Heater Output | | | | | | | | | | | | | | ● UTY-XWZXZG or ○UTY-XCSX+ UTZ-GXRA | | ● UTY-XWZXZG or ○UTY-XCSX+UTZ-GXRA | | ● UTY-XWZXZG |
| | Base Heater | | | | | | | | | | | | | | | | | | | |

| Type | | Refrigerant | Indoor unit: Duct: Mini | Indoor unit: Duct: Slim | Indoor unit: Duct: Slim | Indoor unit: Duct: Medium Static Pressure (Compact & Comfort) | Indoor unit: Duct: Medium Static Pressure (Compact & Comfort) | Indoor unit: Duct: Medium Static Pressure (Standard) | Indoor unit: Duct: High Static Pressure | Indoor unit: Duct: High Static Pressure | Indoor unit: Duct: Big | Indoor unit: Floor | Indoor unit: Floor/ Ceiling | Indoor unit: Ceiling | Multi split: Mini Duct | Multi split: Slim Duct | Multi split: Compact Cassette | Outdoor unit: Single Split | Outdoor unit: Single Phase: 8 Rooms Multi | Outdoor unit: Simultaneous Multi | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | R32 | | ARXG 09/12/14/ 18KLLAP | | ARXG 12/14/18/ 22/24/30/ 36/45/54 KHTAP | | ARXG 22/24/30/ 36/45 KMLA | | ARXG 45/54 KHTA | | | | | ARXG 07/09/12/ 14KSLAP | ARXG 07KLLAP | AUXG 07KVLA | | | | |
| | | R410A | ARYG 12/14/18 LSLAP | | ARYG 12/14/18 LLTB | | ARYG 12/14/18/ 24/30/36/ 45/54 LHTBP | | ARYG 24/36/45 LMLA, ARY 36LMLE | | ARYG 45/54/60 LHTA | ARYG 72/90LHTA | AGYG 09/12/14 LVCA | ABYG 18LVTB, ABYG 24LVTA | ABYG 30/36LRTE, ABYG 36/45/54 LRTA | ARYG 07/09LSLAP | ARYG 07/09LLTB | AUYG 07/09LVLA | AOYG 36/45/54/ 60LATT | AOYG 45/54LBTA, AOYG 72/90LHTA | AOYG 45LBTB | AOYG 36/45LBTB | AOYG 36/45/54 LATT |
| Input | Operation/Stop | | ● PCB Terminal | | ● UTD-ECS5A | ● PCB Terminal or ●○UTY-XCSX +UTZ-GXRA | | ● PCB Terminal | ● UTD-ECS5A | | ● PCB Terminal or ●○ UTY-XCSX | ● UTY-XWZX | | | ● PCB Terminal | | | | | | | |
| | Batch Stop | | | | | | | | | | | | | | | | | | | | ● UTY-XWZXZ3 | | |
| | Forced Stop | | ● PCB Terminal | | ● UTD-ECS5A | ● PCB Terminal | | | ● UTD-ECS5A | | ● PCB Terminal | ● UTY-XWZX | | | ● PCB Terminal | | | | | | | |
| | Emergency Stop | | | | | | | | | | | | | | | | | | | | ● UTY-XWZXZ3 | | |
| | Forced Thermostat off | | | | | ● UTY-XCSX | | | ● UTD-ECS5A | | ● UTY-XCSX | | | | | | | | | | | |
| | Low Noise Mode Operation | | | | | | | | | | | | | | | | | | ● UTY-XWZXZ2 | ● UTY-XWZXZ3 | | ○ UTY-XWZXZ2 | |
| | Cooling / Heating Priority | | | | | | | | | | | | | | | | | | | | ● UTY-XWZXZ3 | | |
| | Outdoor Unit Operation Peak Control | | | | | | | | | | | | | | | | | | ● UTY-XWZXZ2 | ● UTY-XWZXZ3 | | ○ UTY-XWZXZ2 | |
| Output | Operation Status | | ● PCB Terminal | | ● UTD-ECS5A | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA | ● UTY-XWZXZG | ○ UTD-ECS5A | ● UTY-XWZXZG or UTY-XCSX | ○ UTY-XWZX | | ● UTY-XWZXZG | | | | | | | | | | |
| | Error Status | | | | | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA | | | | | | | | | | | | | ● UTY-XWZXZ2 | ● UTY-XWZXZ3 | ○ UTY-XWZXZ3 | ○ UTY-XWZXZ2 | |
| | Compressor status | | | | | | | | | | | | | | | | | | ● UTY-XWZXZ2 | ● UTY-XWZXZ3 | ○ UTY-XWZXZ3 | ○ UTY-XWZXZ2 | |
| | Indoor Unit Fun Operation Status | | | | ● UTD-ECS5A | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA | ● UTY-XWZXZG | ● UTD-ECS5A | ● UTY-XWZXZG or UTY-XCSX | | ○ UTD-ECS5A | ● UTY-XWZXZG | | | | | | | | | | |
| | Set point attainment status | | | | | | | | | | | | | | | | | | | | | | |
| | Auxiliary Heater Output | | ● PCB Terminal | | ● UTD-ECS5A | ● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXNA | ● UTY-XWZXZG | ● UTD-ECS5A | ● UTY-XWZXZG or UTY-XCSX | | | ● UTY-XWZXZG | | | | | | | | | | |
| | Base Heater | | | | | | | | | | | | | | | | | | | | ● UTY-XWZXZ4 | | |

*1: This wire is included in Fresh air intake kit (UTZ-VXAA or UTZ-VXRA) *2: This function is for installing at server room.

●: Dry Contact ○: Apply Voltage

### For SPLIT/MULTI SPLIT/SIMULTANEOUS MULTI

**Communication Kit**



UTY-TWBXF2



UTY-XCBXZ2



UTY-TWRX



UTY-XWNX

**External input and output PCB**

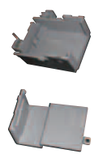


UTY-XCSXZ2
for Wall Mounted type



UTY-XCSX
for Duct and Cassette type

**External input and output PCB Box**



UTZ-GXXB



UTZ-GXRA

**External input and output PCB Bracket**



UTZ-GXNA

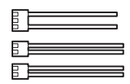
### Communication system

**External Connect Kit**

**For Indoor Unit**



UTY-XWZX



UTY-XWZXZ5



UTY-XWZXZG

**For Outdoor Unit**



UTY-XWZXZ2



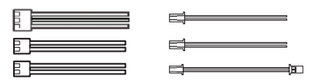
UTY-XWZXZ3



UTY-XWZXZ4

**External Control Set**

**For Indoor unit**



UTD-ECS5A

# Function List For VRF

## External Input and Output Function/External Connect Kit

| Type | | Refrigerant | Indoor unit: Cassette | | | Indoor unit: Duct | | | | | | Indoor unit: Floor | | Indoor unit: Floor / Ceiling | | Indoor unit: Wall Mounted | | | | Outdoor unit | | | | | | Controller | | Other |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 3D Flow | Compact Grid type / Standard type | Circular Flow | Mini (With drain pump) | Slim (With drain pump) | Medium Static Pressure | High Static Pressure | Large Airflow Duct (Compact) | Large Airflow Duct (Large) | —— | EEV external | | | —— | EEV external | —— | | J-IIIL | J-III | J-IIS | V-III | V-III Tropical | VR-II | Central Remote Controller | Touch Panel Controller | RB Unit |
| | | R410A | AUXS 018/024 GLEH | AUXB 004/007/009/ 012/014/018/ 024GLEH | AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH, AUXK 018/024/030/ 034/036/045/ 054GLEH | ARXK 004/007/009/ 012/014/018/ 024GLEH | ARXD 007/009/012/ 014/018/024 GLEH, ARXD 04GALH | ARXA 024/030/036/ 045GLEH | ARXC 036/072/090/ 096GTEH, ARXC 45/60GATH | ARXN 009/012/014/ 018/024/030 GLBH | ARXN 18/24/30/ 34/36/45 GATH | AGYA 004/007/ 009/012/014 GCEH | AGYE 004/007/ 009/012/014 GCEH | | ABYA 012/014/018/ 024GTEH | ABYA 030/036/045/ 054GTEH | ASYA 004/007/009 GTEH, ASYA 012/014GCEH | ASYE 004/007/009 GTEH, ASYE 012/014GCEH | ASYA 18/24GBCH | ASYA 030/034GTEH | AJG 072/090/108/ 126/144/162 LELAH | AJY 040/045/054 LBLAH, AJY 040/045/054 LELAH | AJY 040/045/054 LCLAH | AJY 072/090/108/ 126/144/162 LNLBH | AJY 072/090/108/ 126/144/162 LALBH | AJYA 072/090/ 108/126/144 GALH | UTY-DCGYZ1 | UTY-DTGYZ1 | UTP-RX01AH UTP-RX01BH UTP-RX01CH UTP-RX04BH |
| Input | Operation / Stop | | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | | | | | | | | | | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | | | | | | | | | |
| Input | All On / All Off | | | | | | | | | | | | | | | | | | | | | | | | | ●UTY-XWZXZ7 ○UTY-XWZXZ8 | ●*2 ○*2 | |
| Input | Batch Stop | | | | | | | | | | | | | | | | | | | ● UTY-XWZXZ6 | | | | | | | | |
| Input | Forced Stop | | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | | | | | | | | | | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | | | | | | | | | |
| Input | Emergency Stop | | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | | | | | | | | | | ● UTY-XWZXZD ○ UTY-XWZXZB | | | | ● UTY-XWZXZ6 | | | | | | ●UTY-XWZXZ7 ○UTY-XWZXZ8 | ●*2 ○*2 | |
| Input | Forced Thermostat off | | ● UTY-XWZXZE ○ UTY-XWZXZ7 | | | | | | | | | | | | | ● UTY-XWZXZE ○ UTY-XWZXZ7 | | | | | | | | | | | | |
| Input | Low Noise Mode Operation | | | | | | | | | | | | | | | | | | | ● UTY-XWZXZ6 | | | | | | | | |
| Input | Cooling/ Heating Priority | | | | | | | | | | | | | | | | | | | ● UTY-XWZXZ6 | | | | | | | | ●UTY-XWZXZ6 ○UTY-XWZXZB |
| Input | Outdoor Unit Operation Peak Control | | | | | | | | | | | | | | | | | | | ● UTY-XWZXZ6 | | | | | | | | |
| Input | Power Usage Information from Electricity Meter | | | | | | | | | | | | | | | | | | | ● UTY-XWZXZF | | | | | | | ●*2 ○*2 | |
| Output | Operation Status | | ● UTY-XWZXZC | | | | | | | | | | | | | ● UTY-XWZXZC | | | | ○ UTY-XWZXZ6 | | | | | | ○UTY-XWZXZA | ○UTY-XWZXZA | |
| Output | Error Status | | ● UTY-XWZXZC | | | | | | | | | | | | | ● UTY-XWZXZC | | | | ○ UTY-XWZXZ6 | | | | | | ○UTY-XWZXZA | ○UTY-XWZXZA | |
| Output | Indoor Unit Fun Operation Status | | ● UTY-XWZXZC | | | | | | | | | | | | | ● UTY-XWZXZC | | | | | | | | | | | | |
| Output | Auxiliary Heater Output | | | | | ● UTY-XWZXZC | | | | | | | | | | | | | | | | | | | | | | |
| Output | Base Heater | | | | | | | | | | | | | | | | | | | ● UTY-XWZXZ9 | | ● UTY-XWZXZ9 | | | | | | |

*2: Touch Panel Controller has these functions for Dry contact and Apply voltage, however, above External Connect Kit is not necessary because Touch Panel Controller has an external input terminal block.

●: Dry Contact ○: Apply Voltage

## Communication system

### External Connect Kit

**For Indoor unit**

UTY-XWZXZ7

UTY-XWZXZD

UTY-XWZXZB

UTY-XWZXZE

UTY-XWZXZC

**For Outdoor unit**

UTY-XWZXZ6

UTY-XWZXZ9

UTY-XWZXZF

**For RB unit**

UTY-XWZXZ6

UTY-XWZXZB

**For Central Remote Controller**

UTY-XWZXZ7

UTY-XWZXZ8

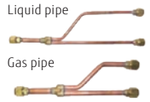
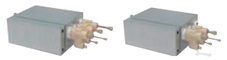
UTY-XWZXZA

**For Touch Panel Controller**

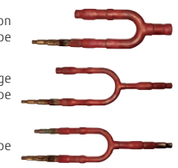
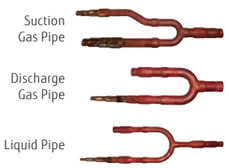
UTY-XWZXZA

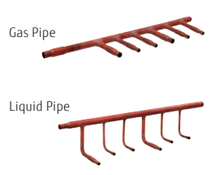
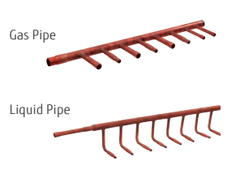
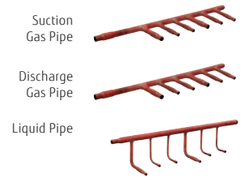
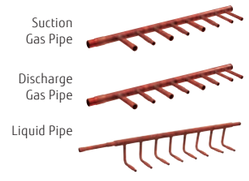
# Separation Tube etc.

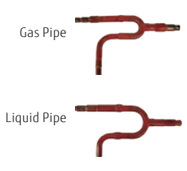
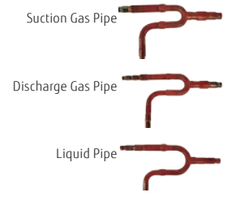
**For SPLIT/MULTI SPLIT/SIMULTANEOUS MULTI**

| Separation Tube | | | Branch Box |
|---|---|---|---|
| UTP-SX236A / UTP-SX254A<br>**For 3-phase Simultaneous Multi**<br>UTP-SX272A<br>**For Simultaneous Multi Twin / Triple / Double Twin** | UTP-SX354A<br>**For 3-phase Simultaneous Multi**<br>UTP-SX372A<br>**For Simultaneous Multi Twin / Triple / Double Twin** | UTP-SX248A<br>**For 8 Rooms Multi** | UTP-PY03A<br>UTP-PY02A<br>**For 8 Rooms Multi** |
|  |  | Liquid pipe<br>Gas pipe<br> | <br>3 zones type　2 zones type |

**For VRF**

| Separation Tube | | | |
|---|---|---|---|
| UTP-AX054A | UTP-AX090A | UTP-AX180A | UTP-AX567A |
| Gas Pipe<br><br>Liquid Pipe<br> | Gas Pipe<br><br>Liquid Pipe<br> | Gas Pipe<br><br>Liquid Pipe<br> | Gas Pipe<br><br>Liquid Pipe<br> |
| UTP-BX090A | UTP-BX180A | UTP-BX567A | UTP-LX180A<br>**For DX-Kit** |
| Suction Gas Pipe<br>Discharge Gas Pipe<br>Liquid Pipe<br> | Suction Gas Pipe<br>Discharge Gas Pipe<br>Liquid Pipe<br> | Suction Gas Pipe<br>Discharge Gas Pipe<br>Liquid Pipe<br> |  |

| Header | | | |
|---|---|---|---|
| UTR-H0906L / UTR-H1806L | UTR-H0908L / UTR-H1808L | UTR-J0906A / UTR-J1806A | UTP-J0908A / UTP-J1808A |
| Gas Pipe<br>Liquid Pipe<br> | Gas Pipe<br>Liquid Pipe<br> | Suction Gas Pipe<br>Discharge Gas Pipe<br>Liquid Pipe<br> | Suction Gas Pipe<br>Discharge Gas Pipe<br>Liquid Pipe<br> |

| Outdoor Unit Branch Kit | |
|---|---|
| UTP-CX567A | UTP-DX567A |
| Gas Pipe<br>Liquid Pipe<br> | Suction Gas Pipe<br>Discharge Gas Pipe<br>Liquid Pipe<br> |

**For VRF**

| EV Kit | RB Unit | |
|---|---|---|
| Model code ≦ 09 : UTR-EV09XB<br>Model code ≧ 12 : UTR-EV14XB<br>**For Compact Wall Mounted type** | UTP-RX01AH / UTP-RX01BH / UTP-RX01CH<br>**Single type** | UTP-RX04BH<br>**Multi type** |
|  |  |  |

## Specifications

### Separation Tube

| Model name | UTP-AX054A | UTP-AX090A | UTP-AX180A | UTP-AX567A |
|---|---|---|---|---|
| Total cooling capacity of indoor unit (kW) | 19.6 or less | 28.0 or less | 28.1 to 56.0 | 56.1 or more |

| Model name | UTP-BX090A | UTP-BX180A | UTP-BX567A |
|---|---|---|---|
| Total cooling capacity of indoor unit (kW) | 28.0 or less | 28.1 to 56.0 | 56.1 or more |

### Header

| Model name | | UTR-H0906L | UTR-H1806L |
|---|---|---|---|
| | 3-6 Branches | | |
| | 3-8 Branches | UTR-H0908L | UTR-H1808L |
| Total cooling capacity of indoor unit (kW) | | 28.0 or less | 28.1 to 56.0 |

| Model name | | UTP-J0906A | UTP-J1806A |
|---|---|---|---|
| | 3-6 Branches | | |
| | 3-8 Branches | UTP-J0908A | UTP-J1808A |
| Total cooling capacity of indoor unit (kW) | | 28.0 or less | 28.1 to 56.0 |

### Outdoor unit Branch kit

| Model name | | UTP-CX567A (for V-III/V-III Tropical) | UTP-DX567A (for VR-II) |
|---|---|---|---|
| Number of outdoor unit | 2 outdoor units | 1 | |
| | 3 outdoor units | 2 | |

### EV Kit

| Model name | UTR-EV09XB | | UTR-EV14XB | |
|---|---|---|---|---|
| Application model | ASYE004GTEH<br>ASYE007GTEH<br>ASYE009GTEH | AGYE004GTEH<br>AGYE007GTEH<br>AGYE009GTEH | ASYE012GCEH<br>ASYE014GCEH | AGYE012GCEH<br>AGYE014GCEH |

### RB Unit

| Type | | Single type | | | Multi type |
|---|---|---|---|---|---|
| Model name | | UTP-RX01AH | UTP-RX01BH | UTP-RX01CH | UTP-RX04BH |
| Power source | V/Ø/Hz | 230/ 1 / 50 | | | |
| Input power | W | 17 | 24 | 31 | 96 |
| Number of branches | | 1 | 1 | 1 | 4 |
| Maximum capacity of connectable indoor units (Q) | kW | Q ≦ 8.0 | Q ≦ 18.0 | Q ≦ 28.0 | Q ≦ 56.1*1 |
| Maximum capacity of connectable indoor units per branch (Q) | kW | Q ≦ 8.0 | Q ≦ 18.0 | Q ≦ 28.0 | Q ≦ 18.0 |
| Maximum number of connectable indoor units per branch | | 3 | 8 | 8 | 8 |
| Dimensions (H×W×D) | mm | 198×298×268 | | | 260×658×428 |

*1: In case of two RB units connected in series ( total 8-branches ), maximum capacity of connectable indoor units is up to 56.0 kW.

## Residential

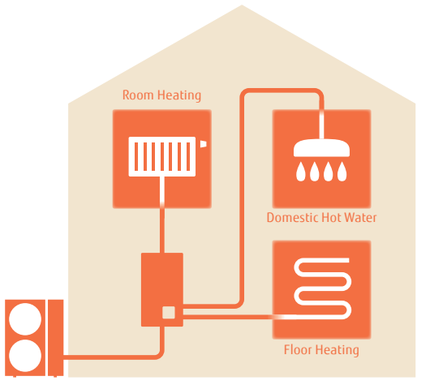
# AIR TO WATER

280 Home Heating Air to Water Overview
282 Technology
283 WATERSTAGE™ Lineup



WATERSTAGE™

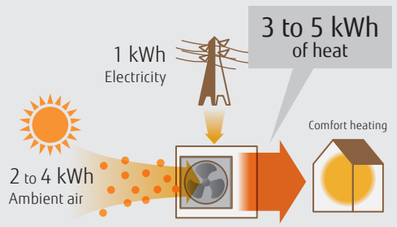
284 Split Type/Split DHW Integrated Type *New Super High Power series
286 Case Studies
Installation Limitations
288 Optional Parts
290 Specifications & Dimensions






### What's a Heat Pump ?

Absorbing free energy from the atmosphere. Heat pump system requires only 1 kW of electricity to generate 3 to 5 kW thermal energy.






### Complete Solution meets various needs

The clean energy produced by WATERSTAGE™ reliably delivers "comfort" to all spaces in the home up to the living room, bedrooms, bath, and swimming pool.

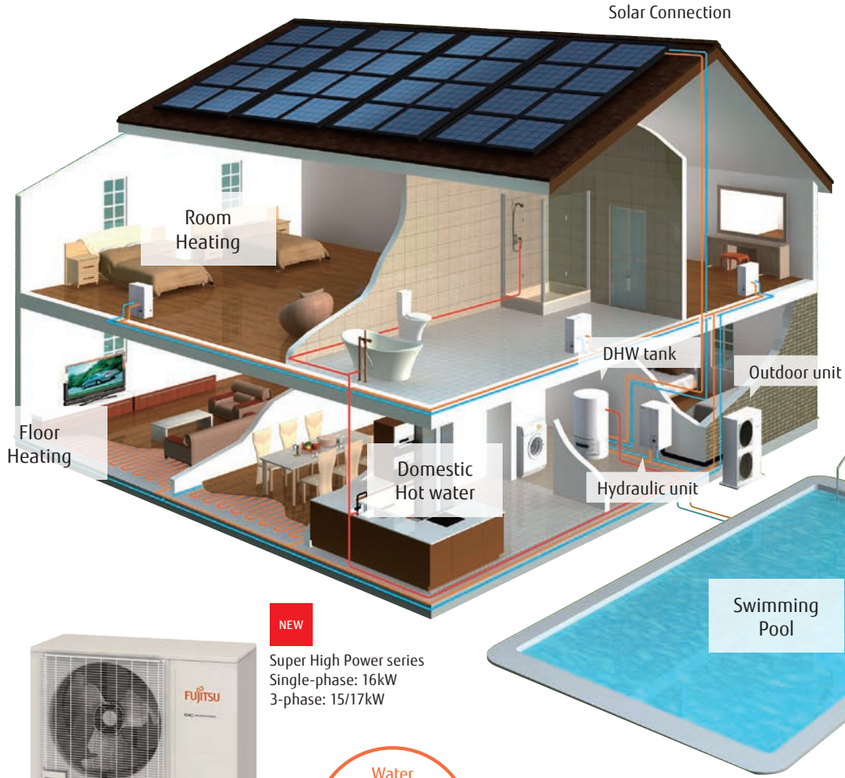


# Home Heating

## Air to Water Overview

Wide range lineup suited for regional characteristics, family structure, and application. We provide various products to meet your needs from High Power via heating-centered series to reasonably-priced compact series.






NEW

Super High Power series
Single-phase: 16kW
3-phase: 15/17kW



Water temperature 60°C



### High leaving water temperature

High leaving water temperature 60°C kept down to -20°C outdoor temperature without using backup heater.

### For Room heating & domestic hot water

Outdoor unit and hydraulic indoor unit can be installed freely, so installation is easy. Since hydraulic indoor unit is installed inside a house, freezing of circulated water can be prevented. A larger heating capacity can be performed flexibly by using more units in cascade connection.




### Appearance-oriented compact outdoor unit

Split type Comfort series

For Comfort series, optimized flow temperature control is realized by DC inverter technology.

*: Outdoor Unit: WOYA060LFCA/WOYA080LFCA

**Stylish space saving solution with built-in DHW tank**




### Space is saved drastically due to built-in DHW tank.

Existing boiler can be replaced easily. A larger heating capacity can be performed flexibly by using more units in cascade connection.



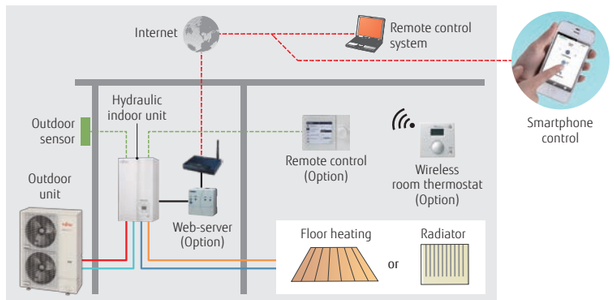

### + DHW Tank

DHW tank (option) can be used to supply hot water by connecting it to the system.

### + Boiler

By combining existing boiler, powerful heating can be performed even at low outdoor temperature.

*optional part necessary




### Smart control

User's needs are supported by offering a variety of controls, such as individual control and remote control options.

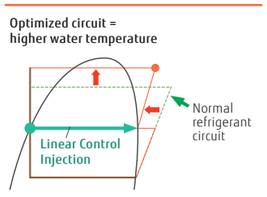
# Technology

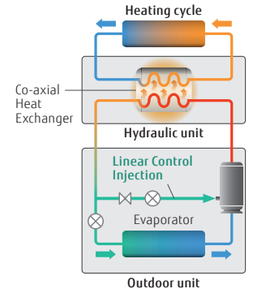
## **High** Efficiency

### For Outdoor Unit
### Twin Rotary Compressor with Linear Control Injection Port

It realizes the high condensing temperature without overheating discharge gas temperature by Linear Control Injection process during compression. Therefore, the condensing temperature rises up higher than normal circuit. A higher hot water temperature is realized by controlling the injection amount according to the usage state.

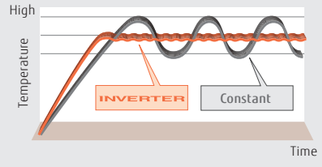



### Accurate temperature control by DC inverter technology




### For Hydraulic Indoor Unit
### Class A pump

Energy saving pump with constant volume or pressure adjustment function.



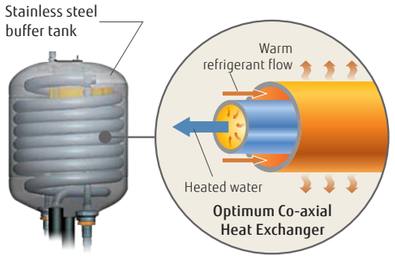
A++

Energy efficiency class
WSYK170DJ9



### Stainless steel buffer tank

Heat exchange amount is 25% higher than previous model. Energy saving performance is improved.




## **Easy** Control



### Hydraulic Indoor Unit Controller
### 4 Heating mode

**1. Automatic mode**
Comfort/Reduce mode switching automatically according to time program

**2. Reduce mode**
Constant reduce temperature

**3. Comfort mode**
Constant comfort temperature

**4. Protection mode**
Stand-by mode with anti-frost protection



# WATERSTAGE™ Lineup

| | Capacity (kW) | 5 | 6 | 8 | 10 | 11 | 14 | 15 | 16 | 17 |
|---|---|---|---|---|---|---|---|---|---|---|
| Split | Super High Power series Single phase NEW<br>Hydraulic Indoor Unit/ Outdoor Unit | | | | | | | | <br>WSYG160DJ6 / WOYG160LJL | |
| Split | Super High Power series 3 phase NEW<br>Hydraulic Indoor Unit/ Outdoor Unit | | | | | | | <br>WSYK170DJ9 / WOYK150LJL | | <br>WSYK170DJ9 / WOYK170LJL |
| Split | High Power series Single phase<br>Hydraulic Indoor Unit/ Outdoor Unit | | | | | <br>WSYG140DG6 / WOYG112LHT | <br>WSYG140DG6 / WOYG140LCTA | | | |
| Split | High Power series 3 phase<br>Hydraulic Indoor Unit/ Outdoor Unit | | | | | <br>WSYK160DG9 / WOYK112LCTA | <br>WSYK160DG9 / WOYK140LCTA | | <br>WSYK160DG9 / WOYK160LCTA | |
| Split | Comfort series<br>Hydraulic Indoor Unit/ Outdoor Unit | <br>WSYA050DG6 / WOYA060LFCA | <br>WSYA100DG6 / WOYA060LFCA | <br>WSYA100DG6 / WOYA080LFCA | <br>WSYA100DG6 / WOYA100LFTA | | | | | |
| Split DHW integrated | Super High Power series Single phase NEW<br>Hydraulic Indoor Unit/ Outdoor Unit | | | | | | | | <br>WGYG160DJ6 / WOYG160LJL | |
| Split DHW integrated | Super High Power series 3 phase NEW<br>Hydraulic Indoor Unit/ Outdoor Unit | | | | | | | <br>WGYK170DJ9 / WOYK150LJL | | <br>WGYK170DJ9 / WOYK170LJL |
| Split DHW integrated | High Power series Single phase<br>Hydraulic Indoor Unit/ Outdoor Unit | | | | | <br>WGYG140DG6 / WOYG112LHT | <br>WGYG140DG6 / WOYG140LCTA | | | |
| Split DHW integrated | High Power series 3 phase<br>Hydraulic Indoor Unit/ Outdoor Unit | | | | | <br>WGYK160DG9 / WOYK112LCTA | <br>WGYK160DG9 / WOYK140LCTA | | <br>WGYK160DG9 / WOYK160LCTA | |
| Split DHW integrated | Comfort series<br>Hydraulic Indoor Unit/ Outdoor Unit | <br>WGYA050DG6 / WOYA060LFCA | <br>WGYA100DG6 / WOYA060LFCA | <br>WGYA100DG6 / WOYA080LFCA | <br>WGYA100DG6 / WOYA100LFTA | | | | | |

## EHPA Quality Label

Fujitsu General's WATERSTAGE* have obtained the EHPA Quality Label** by tests according to the international Standards EN14511 and EN17025. The EHPA Quality Label** is a label that shows the end-consumer a quality heat pump unit on the market.

*: only High Power 3phase

**: Check the validity of label at www.ehpa.org/quality/quality-label/

## SG-Ready Label

SG-Ready is a defined standard by BWP***, which makes it possible that the device can be integrated into a smart grid. Heat pumps, which are equipped with the SG-Ready Label, can receive signals from the power grid (and e.g. also from PV systems) about the available (unused renewable) energy (from wind, sun & water). Fujitsu General provides the SG-Ready compatibility to all new Heat Pumps series.

***BWP: the Federal German Heat Pump Association

# Split Type / Split DHW Integrated Type



## Split Type

### Super high power series

**Hydraulic indoor unit:**
**WSYG160DJ6/[3 phase] WSYK170DJ9**
**Outdoor unit:**
**WOYG160LJL**
**[3 phase] WOYK150LJL/WOYK170LJL**



**Hydraulic indoor unit**
Single Phase/
3 Phase

**Outdoor unit**
Single Phase 16kW
3 Phase 15/17kW

### High power series

**Hydraulic indoor unit:**
**WSYG140DG6/[3 phase] WSYK160DG9**
**Outdoor unit:**
**WOYG112LHT/WOYG140LCTA**
**[3 phase] WOYK112LCTA/WOYK140LCTA/**
**WOYK160LCTA**



**Hydraulic indoor unit**
Single Phase/
3 Phase

**Outdoor unit**
Single Phase
11/14 kW

3 Phase
11/14/16 kW

### Comfort series

**Hydraulic indoor unit:**
**WSYA050DG6/WSYA100DG6**
**Outdoor unit:**
**WOYA060LFCA/WOYA080LFCA/**
**WOYA100LFTA**



**Hydraulic indoor unit**
Single Phase

**Outdoor unit**
Single Phase
5/6/8kW

Single Phase
10kW

## Split DHW Integrated Type

### Super high power series

**Hydraulic indoor unit:**
**WGYG160DJ6/[3 phase] WGYK170DJ9**
**Outdoor unit:**
**WOYG160LJL**
**[3 phase] WOYK150LJL/WOYK170LJL**



**Hydraulic indoor unit**
Single Phase/
3 Phase

**Outdoor unit**
Single Phase 16kW
3 Phase 15/17kW

### High power series

**Hydraulic indoor unit:**
**WGYG140DG6/[3 phase] WGYK160DG9**
**Outdoor unit:**
**WOYG112LHT/WOYG140LCTA**
**[3 phase] WOYK112LCTA/WOYK140LCTA/**
**WOYK160LCTA**



**Hydraulic indoor unit**
Single Phase/
3 Phase

**Outdoor unit**
Single Phase
11/14 kW

3 Phase
11/14/16 kW

### Comfort series

**Hydraulic indoor unit:**
**WGYA050DG6/WGYA100DG6**
**Outdoor unit:**
**WOYA060LFCA/WOYA080LFCA/**
**WOYA100LFTA**



**Hydraulic indoor unit**
Single Phase

**Outdoor unit**
Single Phase
5/6/8 kW

Single Phase
10 kW



## High leaving water temperature

**Super High power series:**
High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.
And it's possible to supply 55°C at -22°C outdoor temperature without backup heater.




Super high power series

**High power series:**
High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.




High power series

**Comfort series:**
Maximum leaving water temperature is 55°C without backup heater. Hot water supply temperature can be maintained even at -10°C outdoor temperature.




Comfort series

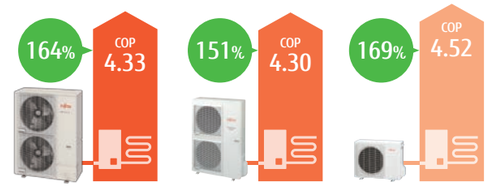
* If you want to raise the hot water supply temperature, backup heaters can be used for auxiliary operation.

## High COP

Air to water heat pumps work with much more efficiency and save more energy than a traditional heating system.

Energy efficiency class **A++**

Seasonal space heating energy efficiency ($\eta_s$)




Super High power series (15 kW class)

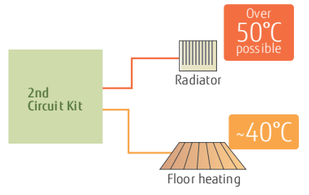
High power series (11 kW class)

Comfort series (5 kW class)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.

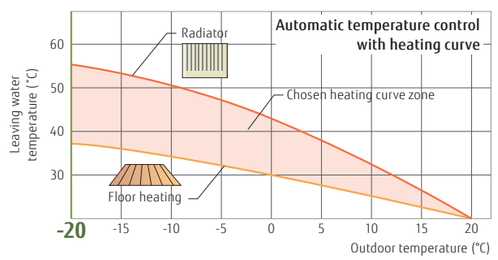
## 2 Zone individual control*

2 Zone individual control (2 under floor heating zones or under floor heating + radiator zone, etc.)*
*: Optional parts are required.




## Automatic heating curve control

Automatic temperature regulation in accordance with heating curve (Depends on heating terminal and outdoor temperature)

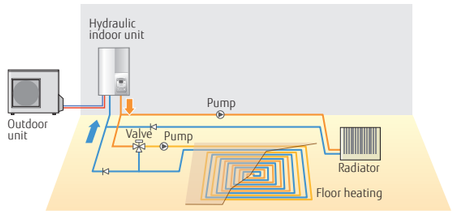


# Case Studies

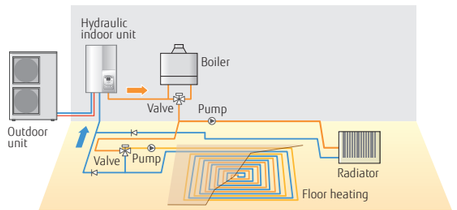
## Split Type

**2 emitter simultaneous heating (Individual control)**

Floor heating + Radiator



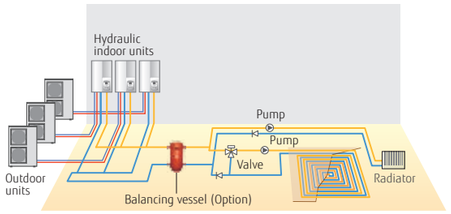

**Boiler connected to heating (Boiler + Heating)**



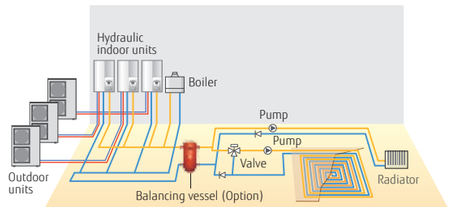

## Split Cascade System

**2 emitter simultaneous heating (Individual control)**

Floor heating + Radiator



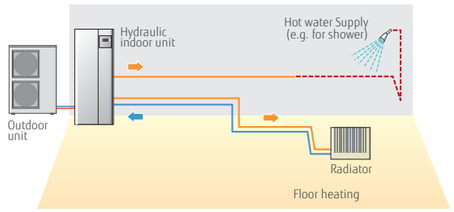

**Boiler connected to heating (Boiler + Heating)**




## Split DHW Integrated Type

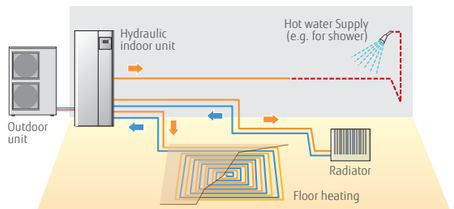
**Single heating & Domestic Hot Water**

Radiator + Domestic Hot Water




**2 emitter simultaneous heating (Individual control) & Domestic Hot Water**

Radiator + Domestic Hot Water

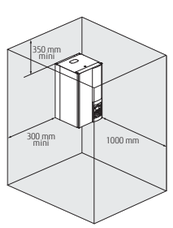



# Installation Limitations

## Equipment Installation

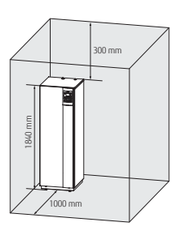
**Split type Hydraulic indoor unit**

- Hydraulic indoor unit is to be hang on the wall
- Weight ≦ 88 kg (including water)
- Space for maintenance should be respected



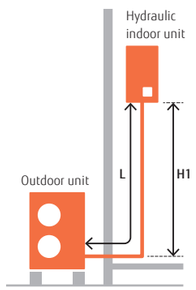

**Split DHW integrated type Hydraulic indoor unit**

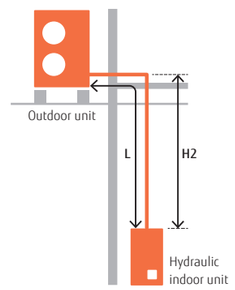
- Floor stand
- Weight ≦ 393 kg (including water)
- Space for maintenance should be respected.




## Piping and Wiring Split type

| Series | Capacity range (kW) | Pipe diameter (Liquid/Gas) (mm) | H1 (m) | H2 (m) | L (m) |
|---|---|---|---|---|---|
| Comfort | 5 | 6.35/12.70 | +20 | -20 | 5-30 |
| | 6 | | | | |
| | 8 | 6.35/15.88 | | | |
| | 10 | 9.52/15.88 | | | |
| High power | 11 | 9.52/15.88 | +15 | -15 | 5-20 |
| | 14 | | | | |
| | 16 | | | | |
| Super High power | 15 | 9.52/15.88 | +15 | -25 | 5-30 |
| | 16 | | | | |
| | 17 | | | | |



# Optional Parts

| Product Name | | Model Name | Split | | | | | | | | | | | | Split DHW integrated type | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Super High Power | | | High Power | | | | Comfort | | | | | Super High Power | | | High Power | | | | Comfort | | | | |
| | | | 1Ø | | 3Ø | | | | | 1Ø | | | | | 1Ø | | 3Ø | | | | | 1Ø | | | | |
| | | | 16 | 15 | 17 | 11 | 14 | 11 | 14 | 16 | 5 | 6 | 8 | 10 | 16 | 15 | 17 | 11 | 14 | 11 | 14 | 16 | 5 | 6 | 8 | 10 |
| 2nd Circuit Kit |  | UTW-KZSXE | – | – | – | ● | ● | ● | ● | ● | ● | ● | ● | ● | – | – | – | – | – | – | – | – | – | – | – | – |
| |  | UTW-KZDXE | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | UTW-KZSXJ | ● | ● | ● | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – |
| | | UTW-KDSXJ | – | – | – | – | – | – | – | – | – | – | – | – | ● | ● | ● | – | – | – | – | – | – | – | – | – |
| Boiler Connection Kit |  | UTW-KBSXD | – | – | – | ● | ● | ● | ● | ● | ● | ● | ● | ● | – | – | – | – | – | – | – | – | – | – | – | – |
| |  | UTW-KBDXD | – | – | – | – | – | – | – | – | – | – | – | – | – | – | – | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | UTW-KBSXJ | ● | ● | ● | – | – | – | – | – | – | – | – | – | ● | ● | ● | – | – | – | – | – | – | – | – | – |
| Balancing Vessel |  | UTW-TEVXA | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| DHW Kit |  | UTW-KDWXD (External) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 |
| DHW Tank |  200 Liter 300 Liter | UTW-T20AXH UTW-T30AXH | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 |
| |  200 Liter 300 Liter | UTW-T20BXH UTW-T30BXH | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 | –*1 |
| Circulating Pump |  | UTW-PHFXG | ● | ● | ● | ● | ● | ● | ● | ● | – | – | – | – | ● | ● | ● | ● | ● | ● | ● | ● | – | – | – | – |
| Swimming Pool Kit |  | UTW-KSPXD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Heat Exchanger for Swimming Pool Kit |  | UTW-ESPXA | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Cooling Kit |  | UTW-KCLXD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Regulation Extension Kit |  | UTW-KREXD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Low Noise Kit |  | UTW-KLNXE | ● | ● | ● | ● | ● | ● | ● | ● | – | – | – | – | ● | ● | ● | ● | ● | ● | ● | ● | – | – | – | – |
| Drain Pan |  | UTW-KDPXA | – | – | – | – | – | – | – | – | ● | ● | ● | – | – | – | – | – | – | – | – | – | ● | ● | ● | – |

| Product Name | | Model Name | Split | | | | | | | | | | | | Split DHW integrated type | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Super High Power | | | High Power | | | | Comfort | | | | | Super High Power | | | High Power | | | | Comfort | | | | |
| | | | 1Ø | | 3Ø | | | | | 1Ø | | | | | 1Ø | | 3Ø | | | | | 1Ø | | | | |
| | | | 16 | 15 | 17 | 11 | 14 | 11 | 14 | 16 | 5 | 6 | 8 | 10 | 16 | 15 | 17 | 11 | 14 | 11 | 14 | 16 | 5 | 6 | 8 | 10 |
| Cascade Master Kit (incl. LPB Clip) |  | UTW-KCMXE | – | – | – | ● | ● | ● | ● | ● | – | – | – | ● | – | – | – | – | – | – | – | – | – | – | – | – |
| Cascade Slave Kit (incl. LPB Clip) |  | UTW-KCSXE | – | – | – | ● | ● | ● | ● | ● | – | – | – | ● | – | – | – | – | – | – | – | – | – | – | – | – |
| HMI Kit |  | UTW-KHMXE*3 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Remote Controller | Wired  | UTW-C74TXF*3 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | UTW-C74HXF*3 | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Room Thermostat | Wired  | UTW-C55XA | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Wireless  | UTW-C58XD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Outdoor Sensor Transmitter |  | UTW-MOSXD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| RF Modules | for BSB-Port  | UTW-MRCXD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Web Server |  | UTW-KW1XD UTW-KW4XD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| LPB Clip |  | UTW-KL1XD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| MODBUS Clip |  | UTW-KMBXJ | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 | –*7 |
| Service Tool (incl. OCI700 Adapter) |  | UTW-KSTXD | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 | ●*5 |
| Service Tool Software |  | UTW-KPSXD | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 | ●*6 |
| External Connect Kit |  | UTY-XWZXZ2 | – | – | – | ● | ● | ● | ● | ● | – | – | – | – | – | – | – | ● | ● | ● | ● | ● | – | – | – | – |
| | | UTY-XWZXZ3 | ● | ● | ● | – | – | – | – | – | – | – | – | – | ● | ● | ● | – | – | – | – | – | – | – | – | – |

*1: DHW operation is possible without DHW Kit and DHW Tank.
*3: 19 Languages included, no separate Eastern European RC necessary. C74TXF: Built in Room Temperature sensor C74HXF: Built in Room temperature and Humidity sensor
*4: Eastern European Language(English, Czech Republic, Slovakia, Poland, Turkey, Hungary, Russia, Slovenia, Greece, Serbia)
*5: UTW-KL1XD is required for the connection.
*6: UTW-KW1XD or UTW-KW4XD is required for the connection.
*7: Additional optional part necessary

● : Available – : Not Available

# Specifications & Dimensions

## for Split Type Super High Power Series

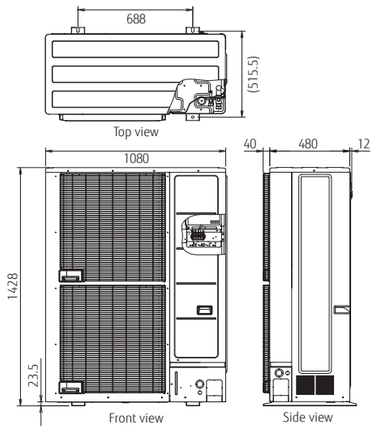
### Specifications

| Model Name | Hydraulic indoor unit | | | Tentative | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Outdoor unit | | | WSYG160DJ6 | | WSYK170DJ9 | | WSYK170DJ9 | |
| | | | | WOYG160LJL | | WOYK150LJL | | WOYK170LJL | |
| **Capacity range** | | | | 16 | | 15 | | 17 | |
| 7°C/35°C floor heating *1 | Heating capacity | | kW | 16.00 | | 15.00 | | 17.00 | |
| | Input power | | | 3.86 | | 3.46 | | 4.10 | |
| | COP | | | 4.15 | | 4.33 | | 4.15 | |
| 2°C/35°C floor heating *1 | Heating capacity | | kW | 13.30 | | 13.20 | | 13.50 | |
| | Input power | | | 4.25 | | 4.06 | | 4.27 | |
| | COP | | | 3.13 | | 3.25 | | 3.16 | |
| -7°C/35°C floor heating*1 | Heating capacity | | kW | 14.50 | | 13.20 | | 15.00 | |
| | Input power | | | 5.27 | | 4.55 | | 5.32 | |
| | COP | | | 2.75 | | 2.90 | | 2.82 | |
| **Space heating characteristics*2** | | | | | | | | | |
| Temperature application | | | ℃ | 55 | 35 | 55 | 35 | 55 | 35 |
| Energy efficiency class | | | | A++ | A++ | A++ | A++ | A++ | A++ |
| Rated heat output($P_{rated}$) | | | kW | 14 | 16 | 16 | 17 | 17 | 18 |
| Seasonal space heating energy efficiency($\eta_s$) | | | % | 125 | 163 | 130 | 164 | 130 | 161 |
| Annual energy consumption | | | kWh | 8,757 | 8,014 | 9,915 | 8,606 | 10,232 | 9,059 |
| Sound power level | Hydraulic indoor unit | | dB(A) | 45 | 45 | 45 | 45 | 45 | 45 |
| | Outdoor unit | | | 67 | 66 | 67 | 66 | 67 | 68 |
| **Hydraulic indoor unit Specification** | | | | | | | | | |
| Power source | | | | Single-phase, 230 V 50 Hz | | 3-phase, 400 V 50 Hz | | | |
| Dimensions H×W×D | | | mm | 805 × 450 × 471 | | 805 × 450 × 471 | | | |
| Weight (Net) | | | kg | 52.5 | | 52.5 | | | |
| Water circulation | | Min/Max | L/min | 26.4/57.8 | | 24.0/54.2 | | 27.3/61.4 | |
| Buffer tank capacity | | | L | 25 | | 25 | | | |
| Expansion vessel capacity | | | L | 10 | | 10 | | | |
| Leaving water temperature range | | Max | ℃ | 60 | | 60 | | | |
| Water pipe connection diameter | | Flow/Return | mm | Ø 25.4/Ø 25.4 | | Ø 25.4/Ø 25.4 | | | |
| Backup heater | | Capacity | kW | 6.0(3.0kW×2pcs.) | | 9.0(3.0kW×3pcs.) | | | |
| **Outdoor unit specification** | | | | | | | | | |
| Power source | | | | Single-phase, 230 V 50 Hz | | 3-phase, 400 V 50 Hz | | | |
| Current | | Max | A | 28.00 | | 14.0 | | 14.0 | |
| Dimensions H × W × D | | | mm | 1,428 × 1,080 × 480 | | 1,428 × 1,080 ×480 | | 1,428 × 1,080 ×480 | |
| Weight (Net) | | | kg | 137 | | 138 | | 138 | |
| Refrigerant | | Type (Global Warming Potential) | | R410A (2,088) | | | | | |
| | | Charge | kg | 3.80 | | 3.80 | | 3.80 | |
| Additional refrigerant charge amount | | | g/m | 50 | | 50 | | 50 | |
| Connection pipe | Diameter | Liquid | mm | Ø 9.52 | | Ø 9.52 | | Ø 9.52 | |
| | | Gas | | Ø 15.88 | | Ø 15.88 | | Ø 15.88 | |
| | Length | Min/Max | m | 5/30 | | 5/30 | | 5/30 | |
| | Length(Pre-charge) | | m | 15 | | 15 | | 15 | |
| | Height difference | Max | m | 25/15 (Outdoor unit:Upper/Lower) | | | | | |
| Operation range | | Heating | ℃ | -25 to 35 | | -25 to 35 | | -25 to 35 | |

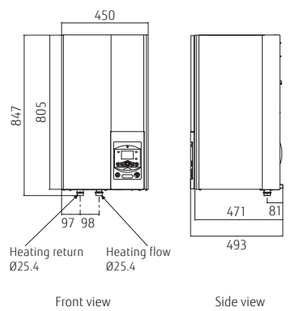
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.
*2:All information of ErP can be available for downloaded from https://www.fujitsu-general.com/global/support/downloads/search/index.html

### Dimensions

NEW **Outdoor Unit:**
Single Phase: WOYG160LJL
3 Phase: WOYK150LJL/WOYK170LJL




NEW **Hydraulic Indoor Unit:**
Single Phase : WSYG160DJ6
3 Phase: WSYK170DJ9






## for Split Type High Power Series

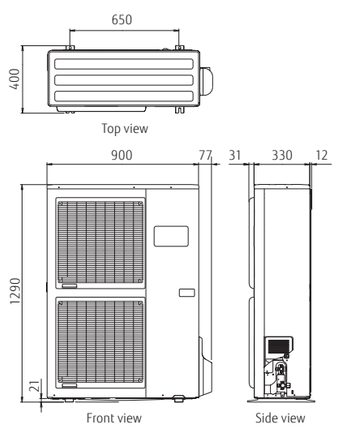
### Specifications

| Model Name | Hydraulic indoor unit | | | WSYG140DG6 | | WSYG140DG6 | | WSYK160DG9 | | WSYK160DG9 | | WSYK160DG9 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Outdoor unit | | | WOYG112LHT | | WOYG140LCTA | | WOYK112LCTA | | WOYK140LCTA | | WOYK160LCTA | |
| **Capacity range** | | | | 11 | | 14 | | 11 | | 14 | | 16 | |
| 7°C/35°C floor heating *1 | Heating capacity | | kW | 10.80 | | 13.50 | | 10.80 | | 13.50 | | 15.17 | |
| | Input power | | | 2.54 | | 3.23 | | 2.51 | | 3.20 | | 3.70 | |
| | COP | | | 4.25 | | 4.18 | | 4.30 | | 4.22 | | 4.10 | |
| 2°C/35°C floor heating *1 | Heating capacity | | kW | 10.77 | | 12.00 | | 10.77 | | 13.00 | | 13.50 | |
| | Input power | | | 3.44 | | 3.87 | | 3.40 | | 4.15 | | 4.34 | |
| | COP | | | 3.13 | | 3.10 | | 3.17 | | 3.13 | | 3.11 | |
| -7°C/35°C floor heating*1 | Heating capacity | | kW | 10.38 | | 11.54 | | 10.38 | | 12.20 | | 13.50 | |
| | Input power | | | 4.32 | | 5.08 | | 4.28 | | 5.13 | | 5.40 | |
| | COP | | | 2.40 | | 2.27 | | 2.43 | | 2.38 | | 2.50 | |
| **Space heating characteristics*2** | | | | | | | | | | | | | |
| Temperature application | | | ℃ | 55 | 35 | 55 | 35 | 55 | 35 | 55 | 35 | 55 | 35 |
| Energy efficiency class | | | | A+ | A++ | A+ | A+ | A+ | A++ | A+ | A++ | A+ | A+ |
| Rated heat output($P_{rated}$) | | | kW | 9 | 11 | 11 | 13 | 9 | 11 | 11 | 13 | 13 | 14 |
| Seasonal space heating energy efficiency($\eta_s$) | | | % | 112 | 151 | 113 | 148 | 112 | 154 | 117 | 150 | 117 | 149 |
| Annual energy consumption | | | kWh | 6,704 | 6,062 | 8,041 | 6,824 | 6,669 | 5,930 | 7,803 | 6,738 | 9,062 | 7,408 |
| Sound power level | Hydraulic indoor unit | | dB(A) | 46 | | 46 | | 46 | | 46 | | 46 | |
| | Outdoor unit | | | 68 | | 69 | | 69 | 68 | 70 | 68 | 71 | |
| **Hydraulic indoor unit Specification** | | | | | | | | | | | | | |
| Power source | | | | Single-phase, 230 V 50 Hz | | | | 3-phase, 400 V 50 Hz | | | | | |
| Dimensions H×W×D | | | mm | 800 × 450 × 457 | | | | 800 × 450 × 457 | | | | | |
| Weight (Net) | | | kg | 42 | | | | 42 | | | | | |
| Water circulation | | Min/Max | L/min | 19.5/39.0 | | 24.4/48.7 | | 19.5/39.0 | | 24.4/48.7 | | 27.4/54.8 | |
| Buffer tank capacity | | | L | 16 | | | | 16 | | | | | |
| Expansion vessel capacity | | | L | 8 | | | | 8 | | | | | |
| Leaving water temperature range | | Max | ℃ | 60 | | | | 60 | | | | | |
| Water pipe connection diameter | | Flow/Return | mm | Ø 25.4/Ø 25.4 | | | | Ø 25.4/Ø 25.4 | | | | | |
| Backup heater | | Capacity | kW | 6.0(3.0kW×2pcs.) | | | | 9.0(3.0kW×3pcs.) | | | | | |
| **Outdoor unit specification** | | | | | | | | | | | | | |
| Power source | | | | Single-phase, 230 V 50 Hz | | | | 3-phase, 400 V 50 Hz | | | | | |
| Current | | Max | A | 22.0 | | 25.0 | | 9.0 | | 9.5 | | 10.5 | |
| Dimensions H × W × D | | | mm | 1,290 × 900 ×330 | | | | | | | | | |
| Weight (Net) | | | kg | 92 | | | | 99 | | | | | |
| Refrigerant | | Type (Global Warming Potential) | | R410A (2,088) | | | | | | | | | |
| | | Charge | kg | 2.50 | | | | | | | | | |
| Additional refrigerant charge amount | | | g/m | 50 | | | | | | | | | |
| Connection pipe | Diameter | Liquid | mm | Ø 9.52 | | | | | | | | | |
| | | Gas | | Ø 15.88 | | | | | | | | | |
| | Length | Min/Max | m | 5/20 | | | | | | | | | |
| | Length(Pre-charge) | | m | 15 | | | | | | | | | |
| | Height difference | Max | m | 15 | | | | | | | | | |
| Operation range | | Heating | ℃ | -25 to 35 | | | | | | | | | |

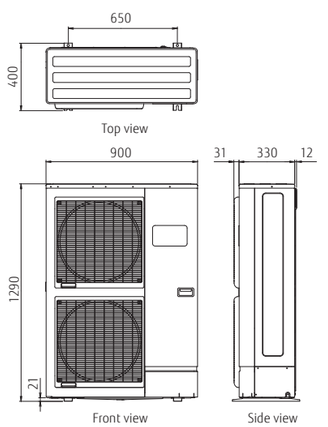
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.
*2:All information of ErP can be available for downloaded from https://www.fujitsu-general.com/global/support/downloads/search/index.html

### Dimensions

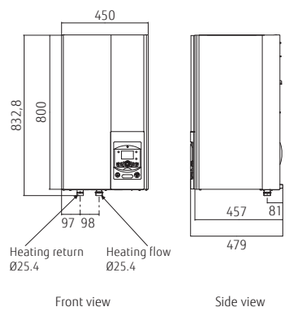
**Outdoor Unit:**
Single Phase: WOYG112LHT/WOYG140LCTA




3 Phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA




**Hydraulic Indoor Unit:**
Single Phase: WSYG140DG6
3 Phase: WSYK160DG9



# for Split Type Comfort Series

## Specifications

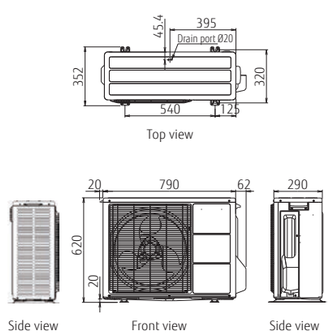
| Model Name | | Hydraulic indoor unit | | WSYA050DG6 | | WSYA100DG6 | | WSYA100DG6 | | WSYA100DG6 | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Outdoor unit | | WOYA060LFCA | | WOYA060LFCA | | WOYA080LFCA | | WOYA100LFTA | |
| **Capacity range** | | | | 5 | | 6 | | 8 | | 10 | |
| 7°C/35°C floor heating *1 | | Heating capacity | kW | 4.50 | | 6.00 | | 7.50 | | 10.00 | |
| | | Input power | | 0.996 | | 1.41 | | 1.84 | | 2.49 | |
| | | COP | | 4.52 | | 4.27 | | 4.08 | | 4.02 | |
| 2°C/35°C floor heating *1 | | Heating capacity | kW | 4.50 | | 4.95 | | 5.65 | | 7.70 | |
| | | Input power | | 1.39 | | 1.53 | | 1.78 | | 2.47 | |
| | | COP | | 3.24 | | 3.24 | | 3.17 | | 3.12 | |
| -7°C/35°C floor heating*1 | | Heating capacity | kW | 4.10 | | 4.60 | | 5.70 | | 7.40 | |
| | | Input power | | 1.47 | | 1.74 | | 2.23 | | 2.97 | |
| | | COP | | 2.79 | | 2.64 | | 2.56 | | 2.49 | |
| **Space heating characteristics*2** | | | | | | | | | | | |
| Temperature application | | | °C | 55 | 35 | 55 | 35 | 55 | 35 | 55 | 35 |
| Energy efficiency class | | | | A+ | A++ | A+ | A++ | A+ | A++ | A+ | A++ |
| Rated heat output($P_{rated}$) | | | kW | 4 | 4 | 5 | 5 | 6 | 7 | 8 | 8 |
| Seasonal space heating energy efficiency($\eta_s$) | | | % | 115 | 169 | 115 | 169 | 118 | 156 | 113 | 155 |
| Annual energy consumption | | | kWh | 3,026 | 2,160 | 3,180 | 2,505 | 3,886 | 3,375 | 5,415 | 4,415 |
| Sound power level | Hydraulic indoor unit | | dB(A) | 46 | | 46 | | 46 | | 46 | |
| | Outdoor unit | | | 65 | 60 | 65 | 63 | 65 | 69 | 68 | 69 |
| **Hydraulic indoor unit Specification** | | | | | | | | | | | |
| Power source | | | | Single-phase 230 V 50 Hz | | | | | | | |
| Dimensions H×W×D | | | mm | 800 × 450 × 457 | | | | | | | |
| Weight (Net) | | | kg | 42 | | | | | | | |
| Water circulation | | Min/Max | L/min | 8.1/16.2 | | 10.8/21.7 | | 13.5/27.1 | | 18.1/36.1 | |
| Buffer tank capacity | | | L | 16 | | | | | | | |
| Expansion vessel capacity | | | L | 8 | | | | | | | |
| Leaving water temperature range | | Max | °C | 55 | | | | | | | |
| Water pipe connection diameter | | Flow/Return | mm | Ø 25.4/Ø 25.4 | | | | | | | |
| Backup heater | | Capacity | kW | 6.0(3.0kW×2pcs.) | | | | | | | |
| **Outdoor unit specification** | | | | | | | | | | | |
| Power source | | | | Single-phase 230 V 50 Hz | | | | | | | |
| Current | | Max | A | 12.5 | | | | 17.5 | | 18.5 | |
| Dimensions H × W × D | | | mm | 620 × 790 ×290 | | | | | | 830 × 900 × 330 | |
| Weight (Net) | | | kg | 41 | | | | 42 | | 60 | |
| Refrigerant | | Type (Global Warming Potential) | | R410A (2,088) | | | | | | | |
| | | Charge | kg | 1.10 | | | | 1.40 | | 1.80 | |
| Additional refrigerant charge amount | | | g/m | 25 | | | | | | 40 | |
| Connection pipe | Diameter | Liquid | mm | Ø 6.35 | | | | | | Ø 9.52 | |
| | | Gas | | Ø 12.7 | | | | Ø 15.88 | | | |
| | Length | Min/Max | m | 5/30 | | | | | | | |
| | Length(Pre-charge) | | m | 15 | | | | | | | |
| | Height difference | Max | m | 20 | | | | | | | |
| Operation range | | Heating | °C | -20 to 35 | | | | | | | |

*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

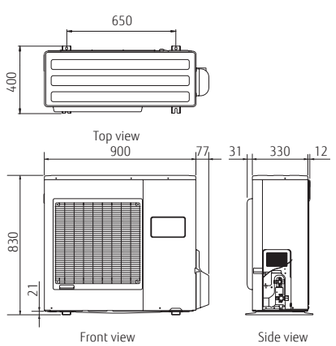
*2:All information of ErP can be available for downloaded from https://www.fujitsu-general.com/global/support/downloads/search/index.html

## Dimensions

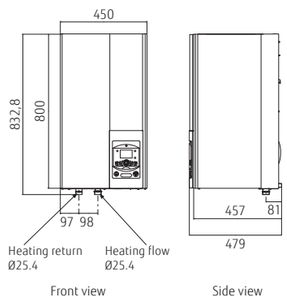
**Outdoor Unit:**
WOYA060LFCA/WOYA080LFCA




WOYA100LFTA




**Hydraulic Indoor Unit:**
WSYA050DG6/WSYA100DG6






# for Split DHW Integrated Type Super High Power Series

## Specifications

Tentative

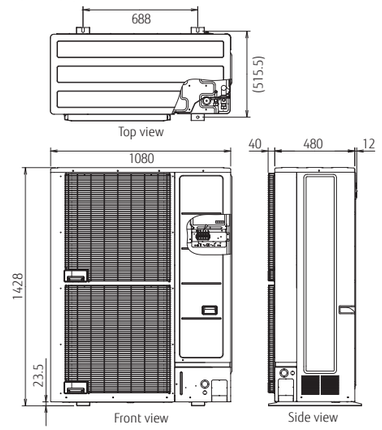
| Model Name | | Hydraulic indoor unit | | WGYG160DJ6 | WGYK170DJ9 | WGYK170DJ9 |
|---|---|---|---|---|---|---|
| | | Outdoor unit | | WOYG160LJL | WOYK150LJL | WOYK170LJL |
| **Capacity range** | | | | 16 | 15 | 17 |
| 7°C/35°C floor heating *1 | | Heating capacity | kW | 16.00 | 15.00 | 17.00 |
| | | Input power | | 3.86 | 3.46 | 4.10 |
| | | COP | | 4.15 | 4.33 | 4.15 |
| 2°C/35°C floor heating *1 | | Heating capacity | kW | 13.30 | 13.20 | 13.50 |
| | | Input power | | 4.25 | 4.06 | 4.27 |
| | | COP | | 3.13 | 3.25 | 3.16 |
| -7°C/35°C floor heating*1 | | Heating capacity | kW | 14.50 | 13.20 | 15.00 |
| | | Input power | | 5.27 | 4.55 | 5.32 |
| | | COP | | 2.75 | 2.90 | 2.82 |
| **Space heating characteristics*2** | | | | | | |
| Temperature application | | | °C | 55 / 35 | 55 / 35 | 55 / 35 |
| Energy efficiency class | | | | A++ / A++ | A++ / A++ | A++ / A++ |
| Rated heat output($P_{rated}$) | | | kW | 14 / 16 | 16 / 17 | 17 / 18 |
| Seasonal space heating energy efficiency($\eta_s$) | | | % | 125 / 163 | 130 / 164 | 130 / 161 |
| Annual energy consumption | | | kWh | 8,757 / 8,014 | 9,915 / 8,606 | 10,232 / 9,059 |
| Sound power level | Hydraulic indoor unit | | dB(A) | 45 / 45 | 45 / 45 | 45 / 45 |
| | Outdoor unit | | | 67 / 66 | 67 / 66 | 67 / 68 |
| **Domestic hot water characteristics*2** | | | | | | |
| Load profile | | | | L | | |
| Energy efficiency class | | | | A | | |
| Energy efficiency(ηwh) | | | % | 109 | | |
| Annual electricity consumption | | | kWh | 941 | | |
| **Hydraulic indoor unit Specification** | | | | | | |
| Power source | | | | Single-phase, 230 V 50 Hz | 3-phase, 400 V 50 Hz | |
| Dimensions H×W×D | | | mm | 1,841 × 648 × 698 | | |
| Weight (Net) | | | kg | 166 | | |
| Water circulation | | | L/min | 26.4/57.8 | 24.0/54.2 | 27.3/61.4 |
| DHW capacity | | | L | 190 | | |
| Hot water heater capacity | | | kW | 1.5 | | |
| Expansion vessel capacity | | | L | 12 | | |
| Leaving water temperature range | | Max | °C | 60 | | |
| Water pipe connection diameter | | Flow/Return | mm | Ø 25.4/Ø 25.4 | | |
| Hot water pipe connection diameter | | | mm | Ø 19.05 | | |
| Backup heater | | Capacity | kW | 6.0(3.0kW×2pcs.) | 9.0(3.0kW×3pcs.) | |
| **Outdoor unit specification** | | | | | | |
| Power source | | | | Single-phase, 230 V 50 Hz | 3-phase, 400 V 50 Hz | |
| Current | | Max | A | 28.0 | 14.0 | |
| Dimensions H × W × D | | | mm | 1,428 × 1,080 × 480 | 1,428 × 1,080 × 480 | |
| Weight (Net) | | | kg | 137 | 138 | |
| Refrigerant | | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | |
| | | Charge | kg | 3.80 | 3.80 | |
| Additional refrigerant charge amount | | | g/m | 50 | 50 | |
| Connection pipe | Diameter | Liquid | mm | Ø 9.52 | Ø 9.52 | |
| | | Gas | | Ø 15.88 | Ø 15.88 | |
| | Length | Min/Max | m | 5/30 | 5/30 | |
| | Length(Pre-charge) | | m | 15 | 15 | |
| | Height difference | Max | m | 15 | 15 | |
| Operation range | | Heating | °C | -25 to 35 | -25 to 35 | |

*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

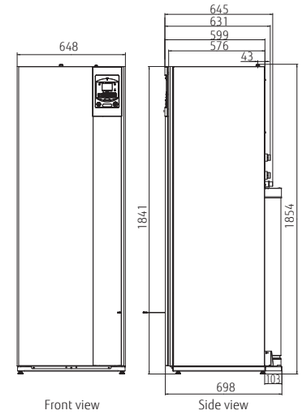
*2:All information of ErP can be available for downloaded from https://www.fujitsu-general.com/global/support/downloads/search/index.html

## Dimensions

NEW **Outdoor Unit:**
Single Phase: WOYG160LJL
3 Phase: WOYK150LJL/WOYK170LJL




NEW **Hydraulic Indoor Unit:**
Single Phase: WGYG160DJ6
3 Phase: WGYK170DJ9



# for Split DHW Integrated Type High Power Series

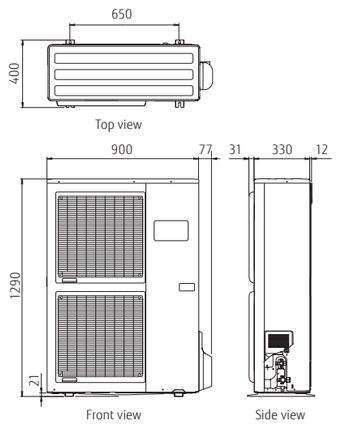
## Specifications

| Model Name | Hydraulic indoor unit | | WGYG140DG6 | | WGYG140DG6 | | WGYK160DG9 | | WGYK160DG9 | | WGYK160DG9 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Outdoor unit | | WOYG112LHT | | WOYG140LCTA | | WOYK112LCTA | | WOYK140LCTA | | WOYK160LCTA | |
| **Capacity range** | | | 11 | | 14 | | 11 | | 14 | | 16 | |
| 7°C/35°C floor heating *1 | Heating capacity | kW | 10.80 | | 13.50 | | 10.80 | | 13.50 | | 15.17 | |
| | Input power | | 2.54 | | 3.23 | | 2.51 | | 3.20 | | 3.70 | |
| | COP | | 4.25 | | 4.18 | | 4.30 | | 4.22 | | 4.10 | |
| 2°C/35°C floor heating *1 | Heating capacity | kW | 10.77 | | 12.00 | | 10.77 | | 13.00 | | 13.50 | |
| | Input power | | 3.44 | | 3.87 | | 3.40 | | 4.15 | | 4.34 | |
| | COP | | 3.13 | | 3.10 | | 3.17 | | 3.13 | | 3.11 | |
| -7°C/35°C floor heating*1 | Heating capacity | kW | 10.38 | | 11.54 | | 10.38 | | 12.20 | | 13.50 | |
| | Input power | | 4.32 | | 5.08 | | 4.28 | | 5.13 | | 5.40 | |
| | COP | | 2.40 | | 2.27 | | 2.43 | | 2.38 | | 2.50 | |
| **Space heating characteristics*2** | | | | | | | | | | | | |
| Temperature application | | °C | 55 | 35 | 55 | 35 | 55 | 35 | 55 | 35 | 55 | 35 |
| Energy efficiency class | | | A+ | A++ | A+ | A+ | A+ | A++ | A+ | A++ | A+ | A+ |
| Rated heat output($P_{rated}$) | | kW | 9 | 11 | 11 | 13 | 9 | 11 | 11 | 13 | 13 | 14 |
| Seasonal space heating energy efficiency($\eta_s$) | | % | 112 | 151 | 113 | 148 | 112 | 154 | 117 | 150 | 117 | 149 |
| Annual energy consumption | | kWh | 6,704 | 6,062 | 8,041 | 6,824 | 6,669 | 5,930 | 7,803 | 6,738 | 9,062 | 7,408 |
| Sound power level | Hydraulic indoor unit | dB(A) | 46 | | 46 | | 46 | | 46 | | 46 | |
| | Outdoor unit | | 68 | | 69 | | 69 | 68 | 70 | 68 | 71 | |
| **Domestic hot water characteristics*2** | | | | | | | | | | | | |
| Load profile | | | L | | | | | | | | | |
| Energy efficiency class | | | A | | | | | | | | | |
| Energy efficiency($\eta_{wh}$) | | % | 88 | | | | | | | | | |
| Annual electricity consumption | | kWh | 1166 | | | | | | | | | |
| **Hydraulic indoor unit Specification** | | | | | | | | | | | | |
| Power source | | | Single-phase 230 V 50 Hz | | | | 3-phase, 400 V 50 Hz | | | | | |
| Dimensions H×W×D | | mm | 1,840× 648 × 698 | | | | | | | | | |
| Weight (Net) | | kg | 152 | | | | | | | | | |
| Water circulation | | L/min | 19.5/39.0 | | 24.4/28.7 | | 19.5/39.0 | | 24.4/48.7 | | 27.4/54.8 | |
| DHW capacity | | L | 190 | | | | | | | | | |
| Hot water heater capacity | | kW | 1.5 | | | | | | | | | |
| Expansion vessel capacity | | L | 12 | | | | | | | | | |
| Leaving water temperature range | Max | °C | 60 | | | | | | | | | |
| Water pipe connection diameter | Flow/Return | mm | Ø 25.4/Ø 25.4 | | | | | | | | | |
| Hot water pipe connection diameter | | mm | Ø 19.05 | | | | | | | | | |
| Backup heater | Capacity | kW | 6.0(3.0kW×2pcs.) | | | | 9.0(3.0kW×3pcs.) | | | | | |
| **Outdoor unit specification** | | | | | | | | | | | | |
| Power source | | | Single-phase 230 V 50 Hz | | | | 3-phase, 400 V 50 Hz | | | | | |
| Current | Max | A | 22.0 | | 25.0 | | 9.0 | | 9.5 | | 10.5 | |
| Dimensions H × W × D | | mm | 1,290 × 900 ×330 | | | | | | | | | |
| Weight (Net) | | kg | 92 | | | | 99 | | | | | |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | | | | | | | | | |
| | Charge | kg | 2.50 | | | | | | | | | |
| Additional refrigerant charge amount | | g/m | 50 | | | | | | | | | |
| Connection pipe Diameter | Liquid | mm | Ø 9.52 | | | | | | | | | |
| | Gas | | Ø 15.88 | | | | | | | | | |
| Connection pipe Length | Min/Max | m | 5/20 | | | | | | | | | |
| Length(Pre-charge) | | m | 15 | | | | | | | | | |
| Height difference | Max | m | 15 | | | | | | | | | |
| Operation range | Heating | °C | -25 to 35 | | | | | | | | | |

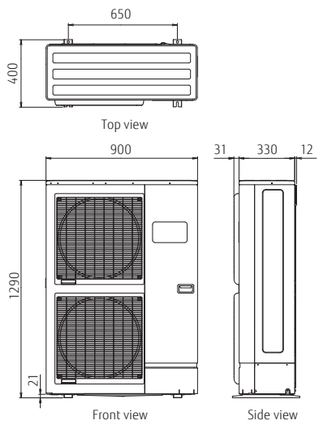
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.
*2:All information of ErP can be available for downloaded from https://www.fujitsu-general.com/global/support/downloads/search/index.html

## Dimensions

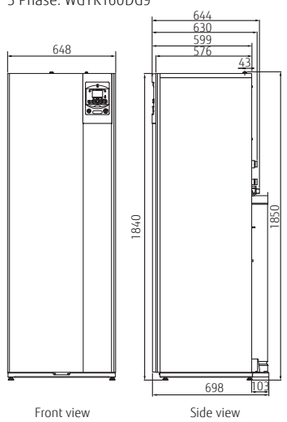
**Outdoor Unit:**
Single Phase: WOYG112LHT/WOYG140LCTA




3 Phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA




**Hydraulic Indoor Unit:**
Single Phase: WGYG140DG6
3 Phase: WGYK160DG9






# for Split DHW Integrated Type Comfort Series

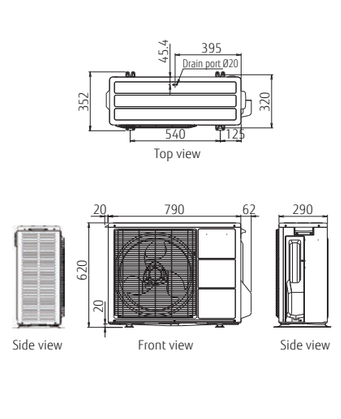
## Specifications

| Model Name | Hydraulic indoor unit | | WGYA050DG6 | | WGYA100DG6 | | WGYA100DG6 | | WGYA100DG6 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Outdoor unit | | WOYA060LFCA | | WOYA060LFCA | | WOYA080LFCA | | WOYA100LFTA | |
| **Capacity range** | | | 5 | | 6 | | 8 | | 10 | |
| 7°C/35°C floor heating *1 | Heating capacity | kW | 4.50 | | 6.00 | | 7.50 | | 10.00 | |
| | Input power | | 0.996 | | 1.41 | | 1.84 | | 2.49 | |
| | COP | | 4.52 | | 4.27 | | 4.08 | | 4.02 | |
| 2°C/35°C floor heating *1 | Heating capacity | kW | 4.50 | | 4.95 | | 5.65 | | 7.70 | |
| | Input power | | 1.39 | | 1.53 | | 1.78 | | 2.47 | |
| | COP | | 3.24 | | 3.24 | | 3.17 | | 3.12 | |
| -7°C/35°C floor heating*1 | Heating capacity | kW | 4.10 | | 4.60 | | 5.70 | | 7.40 | |
| | Input power | | 1.47 | | 1.74 | | 2.23 | | 2.97 | |
| | COP | | 2.79 | | 2.64 | | 2.56 | | 2.49 | |
| **Space heating characteristics*2** | | | | | | | | | | |
| Temperature application | | °C | 55 | 35 | 55 | 35 | 55 | 35 | 55 | 35 |
| Energy efficiency class | | | A+ | A++ | A+ | A++ | A+ | A++ | A+ | A++ |
| Rated heat output($P_{rated}$) | | kW | 4 | 4 | 5 | 5 | 6 | 7 | 8 | 8 |
| Seasonal space heating energy efficiency($\eta_s$) | | % | 115 | 169 | 115 | 169 | 118 | 156 | 113 | 155 |
| Annual energy consumption | | kWh | 3,026 | 2,160 | 3,180 | 2,505 | 3,886 | 3,375 | 5,415 | 4,415 |
| Sound power level | Hydraulic indoor unit | dB(A) | 46 | | 46 | | 46 | | 46 | |
| | Outdoor unit | | 65 | 60 | 65 | 63 | 65 | 69 | 68 | 69 |
| **Domestic hot water characteristics*2** | | | | | | | | | | |
| Load profile | | | L | | | | | | | |
| Energy efficiency class | | | A+ | | | | | | | |
| Energy efficiency(ηwh) | | % | 120 | | | | | | | |
| Annual electricity consumption | | kWh | 880 | | | | | | | |
| **Hydraulic indoor unit Specification** | | | | | | | | | | |
| Power source | | | Single-phase 230 V 50 Hz | | | | | | | |
| Dimensions H×W×D | | mm | 1,840× 648 × 698 | | | | | | | |
| Weight (Net) | | kg | 152 | | | | | | | |
| Water circulation | | L/min | 8.1/16.2 | | 10.8/21.7 | | 13.5/27.1 | | 18.1/36.1 | |
| DHW capacity | | L | 190 | | | | | | | |
| Hot water heater capacity | | kW | 1.5 | | | | | | | |
| Expansion vessel capacity | | L | 12 | | | | | | | |
| Leaving water temperature range | Max | °C | 55 | | | | | | | |
| Water pipe connection diameter | Flow/Return | mm | Ø 25.4/Ø 25.4 | | | | | | | |
| Hot water pipe connection diameter | | mm | Ø 19.05 | | | | | | | |
| Backup heater | Capacity | kW | 6.0(3.0kW×2pcs.) | | | | | | | |
| **Outdoor unit specification** | | | | | | | | | | |
| Power source | | | Single-phase 230 V 50 Hz | | | | | | | |
| Current | Max | A | 12.5 | | | | 17.5 | | 18.5 | |
| Dimensions H × W × D | | mm | 620 × 790 ×290 | | | | | | 830 × 900 ×330 | |
| Weight (Net) | | kg | 41 | | | | 42 | | 60 | |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | | | | | | | |
| | Charge | kg | 1.10 | | | | 1.40 | | 1.80 | |
| Additional refrigerant charge amount | | g/m | 25 | | | | | | 40 | |
| Connection pipe Diameter | Liquid | mm | Ø 6.35 | | | | | | Ø 9.52 | |
| | Gas | | Ø 12.70 | | | | Ø 15.88 | | | |
| Connection pipe Length | Min/Max | m | 5/30 | | | | | | | |
| Length(Pre-charge) | | m | 15 | | | | | | | |
| Height difference | Max | m | 20 | | | | | | | |
| Operation range | Heating | °C | -20 to 35 | | | | | | | |

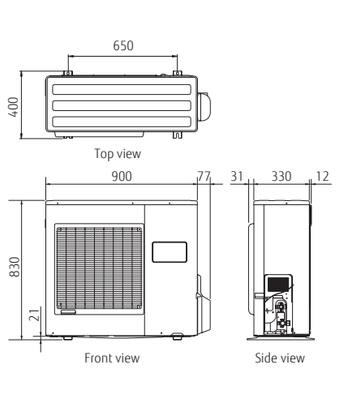
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.
*2:All information of ErP can be available for downloaded from https://www.fujitsu-general.com/global/support/downloads/search/index.html

## Dimensions

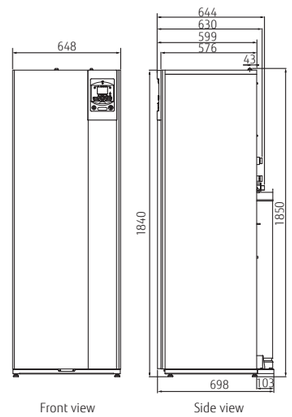
**Outdoor Unit:**
WOYA060LFCA/WOYA080LFCA




WOYA100LFTA

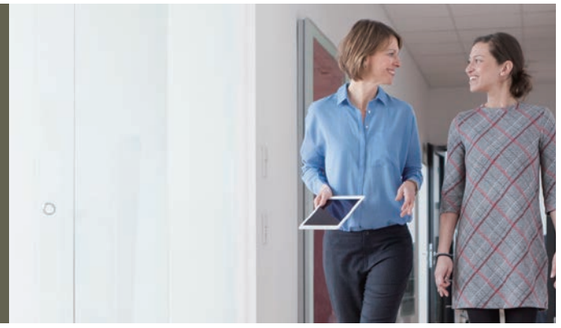



**Hydraulic Indoor Unit:**
WGYA050DG6/WGYA100DG6



# SUPPORT

298 AIRSTAGE™ Support
300 AIRSTAGE™/RAC Support Tool
302 WATERSTAGE™ Support Tool
304 Quick Service & Maintenance
306 Service Tool
307 Web Monitoring Tool

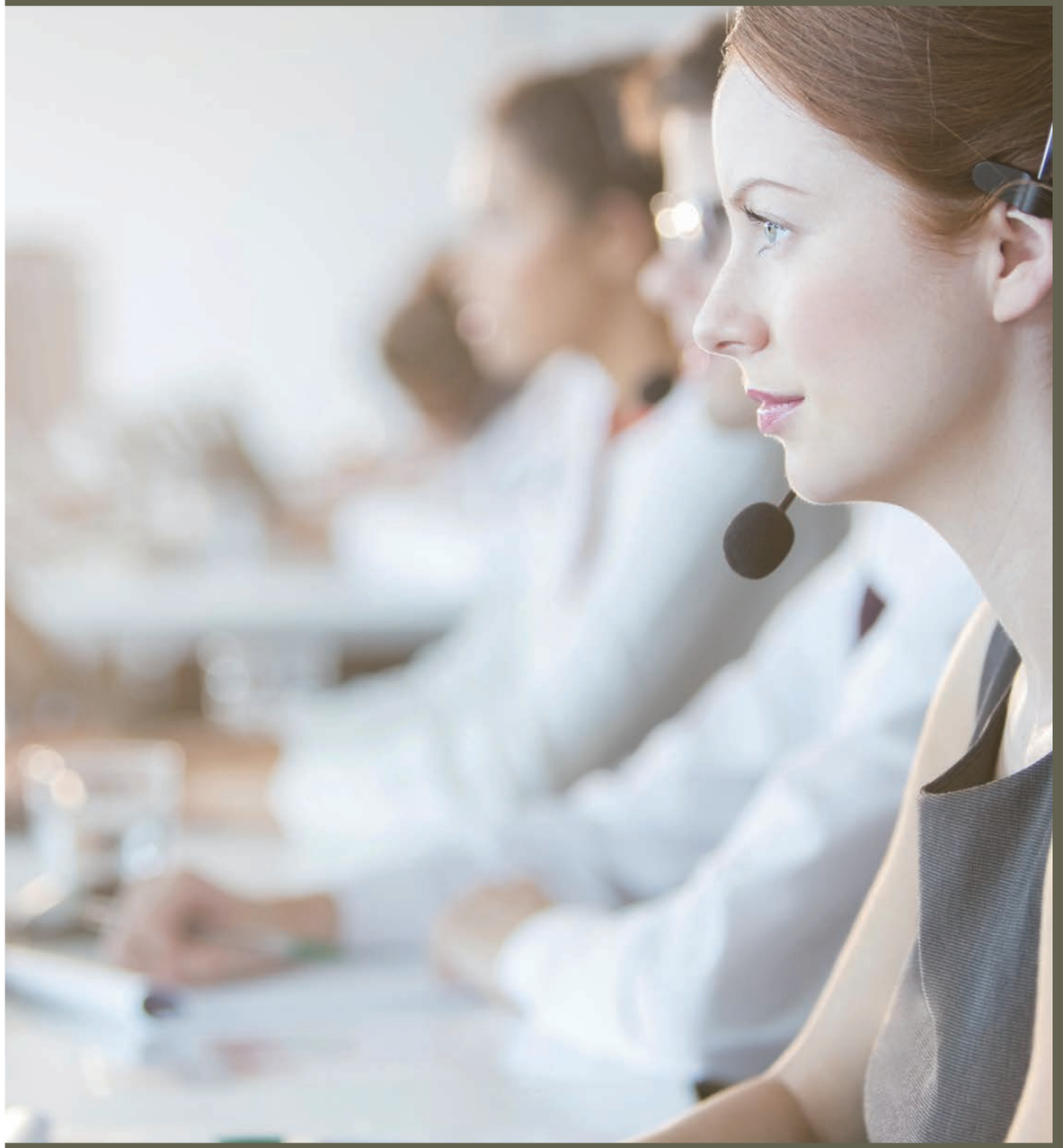


Our know-how supports you not only during the product release but also from guiding implementation to product maintenance.

| Category | Information Material | | | | | | | | | | | | | Tool | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Product Sales Training Material | Product Technical Training Material | Product news | Brochures | Feature Promotion Movie | Operating Manual | Design & Technical Manual | Certificate Data | 2D CAD Data | 3D CAD (Revit) Data | Installation Manual | Service Manual | WATERSTAGE™ Package label creator | Design Simulator (RAC, PAC, VRF) | WATERSTAGE™ proposer | CFD Simulation | Service Tool / Web Monitoring Tool | Mobile Technician |
| Product Training | ● | ● | | | | | | | | | | | | | | | | |
| Product Information Seek | | | ● | ● | ● | ● | ● | | | | | | | | | | | |
| Technical Information Seek | | | | | | | ● | ● | | | | | ● | | | | | |
| Model Selection | | | | | | | ● | | | | | | | ● | ● | | | |
| Design | | | | | | | ● | | ● | ● | | | | | | | | |
| Verification | | | | | | | | | | | | | | | | ● | | |
| Installation | | | | | | | ● | | | | ● | | | | | | | |
| After sales and Service | | | | | | | | | | | | ● | | | | | ● | ● |



Service & Supports Web site
https://www.fujitsu-general.com/global/support/index.html



# AIRSTAGE™ Support

Fujitsu General provides a variety of product and technical information to engineers and consultants, and also conducts new product research and design support activities.
We provide a wide range of support to maintain high quality from design to installation.



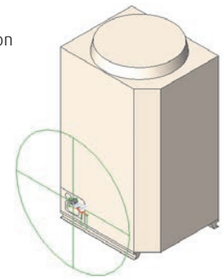



## Technical information

We provide information and tools that are useful for air conditioning system design, such as unit performance data and tools that make model selection and estimation easy.

**Features**

- Design & Technical Manual
- Model Selection & Estimation
- Certificate Data
- 2D/3D CAD Data



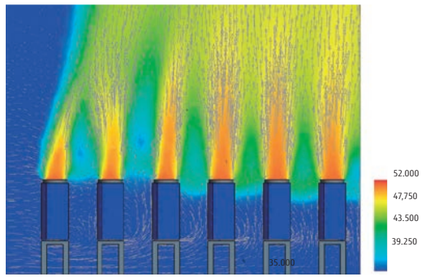
2D/3D CAD Data

## Technical support

Technical support is provided at every stage from design to installation to assist in providing the most suitable air conditioning solution.

**Features**

- CFD Simulation
- Guide line
- Commissioning Support




CFD Simulation



Commissioning Support

## Product information

New product information is provided in the form of documents and movies for every new model released. These can be downloaded from a private section of our website. To access this website, please contact your Fujitsu representative.

**Features**

- Product News
- Brochures & All Manuals
- Feature Promotion Movie




https://www.fujitsu-general.com/uk/support/downloads/vrf/index.html




Fujitsu General has many training facilities around the world that regularly conduct specialized product, technical, and service training. These research facilities also support the development of people with high technical capability.

**Features**

- Designing AIRSTAGE™ Systems
- Control System on-site training

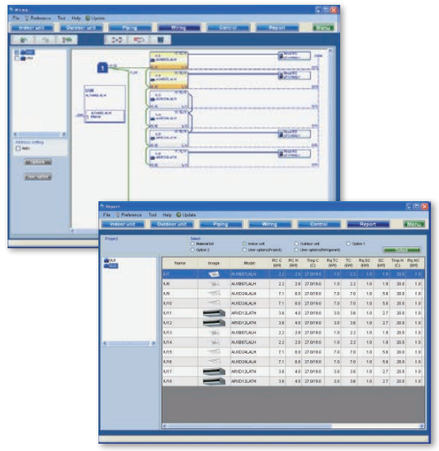
1 Head Office Training Center: Japan
2 China Training Center: China
3 Asia Training Center: Singapore
4 Europe Training Center: U.K.
5 Europe Training Center: Germany
6 America Training Center: U.S.A.
7 Middle East Training Center: UAE
8 Oceania Training Center: Australia

# AIRSTAGE™/RAC Support Tool



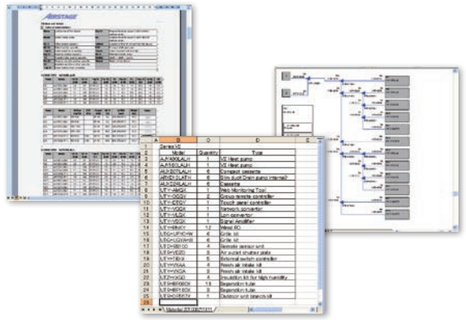
Put the charts and pens away and design your projects on your computer with ease using the Design Simulator. Everything from selecting indoor and outdoor units, allocating controls and optional parts to designing the piping and wiring systems is made easier using the program's built-in features.
Once your project is designed take advantage of the Export functions to easily get materials lists, product specifications, refrigerant calculations and more - it'll even export to Word, Excel, or Acrobat formats, and group the relevant CAD data for your project.

## Design Simulator



### Automatically create model selection information

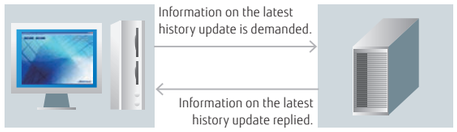
- Each unit can be automatically set by entering the required performance, type, and temperature conditions for each indoor unit and then dragging and dropping into the outdoor unit.
- Piping and wiring diagrams can be created automatically and it is easy to set branches, grouping, and options.
- The additional refrigerant charging amount is automatically calculated when the pipe length is entered.
- It is also easy to set the remote controller groups, central controller and converters.
- The equipment list including the equipment information is created automatically.



### Output the format that matches the application

The information specific to your project can be exported in a number of industry standard file formats.

- Word format (rtf)(doc)
- Excel format (csv)
- Acrobat format (pdf)
- Auto CAD format (DXF)
- 2D Data (DXF)
- 3D Data (RFA)

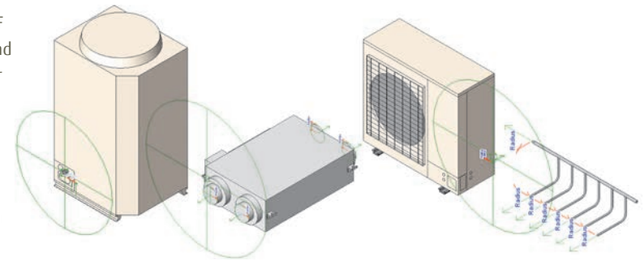



### Update your Design Simulator

Database can be easily updated online using AutoUpdate function through FTP.

## BIM Building Information Modeling

Fujitsu General provides the Building Information Modeling (BIM) object models and contents for our VRF system and some products to the architect, designer and contractor using Autodesk® Revit® technology from our Website and Autodesk® Seek Website, etc.

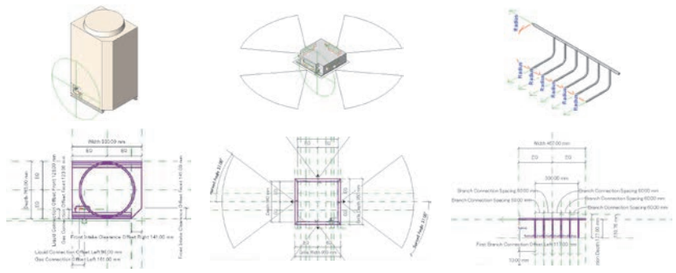


### 3D and 2D product data

We provide 3D data that closely resemble the actual product appearance. 2D CAD design operations are supported and 2D display is also provided. The data can also be output in other formats, such as DXF and DWG, which are used by other design CAD.

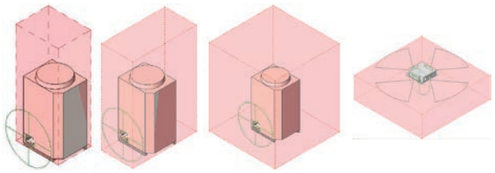
### Installation limitation

The equipment installation limitation range is shown. Installation requirements, such as distance from the wall, is automatically displayed to make it easy to produce highly reliable layout designs.



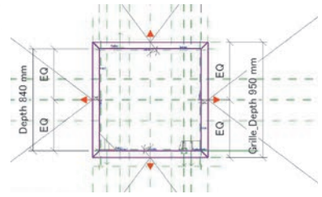
### Installation information

Other information, such as symbols showing the airflow direction that are required for installation drawings, is built in and can be automatically reflected in 2D drawings. Installation drawings can be created easily.



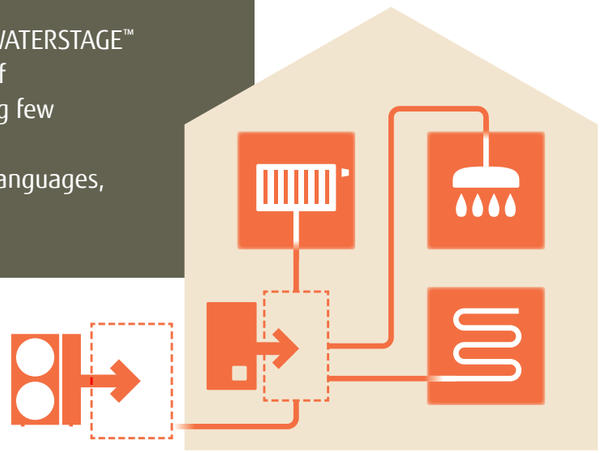
### Product specifications & link information

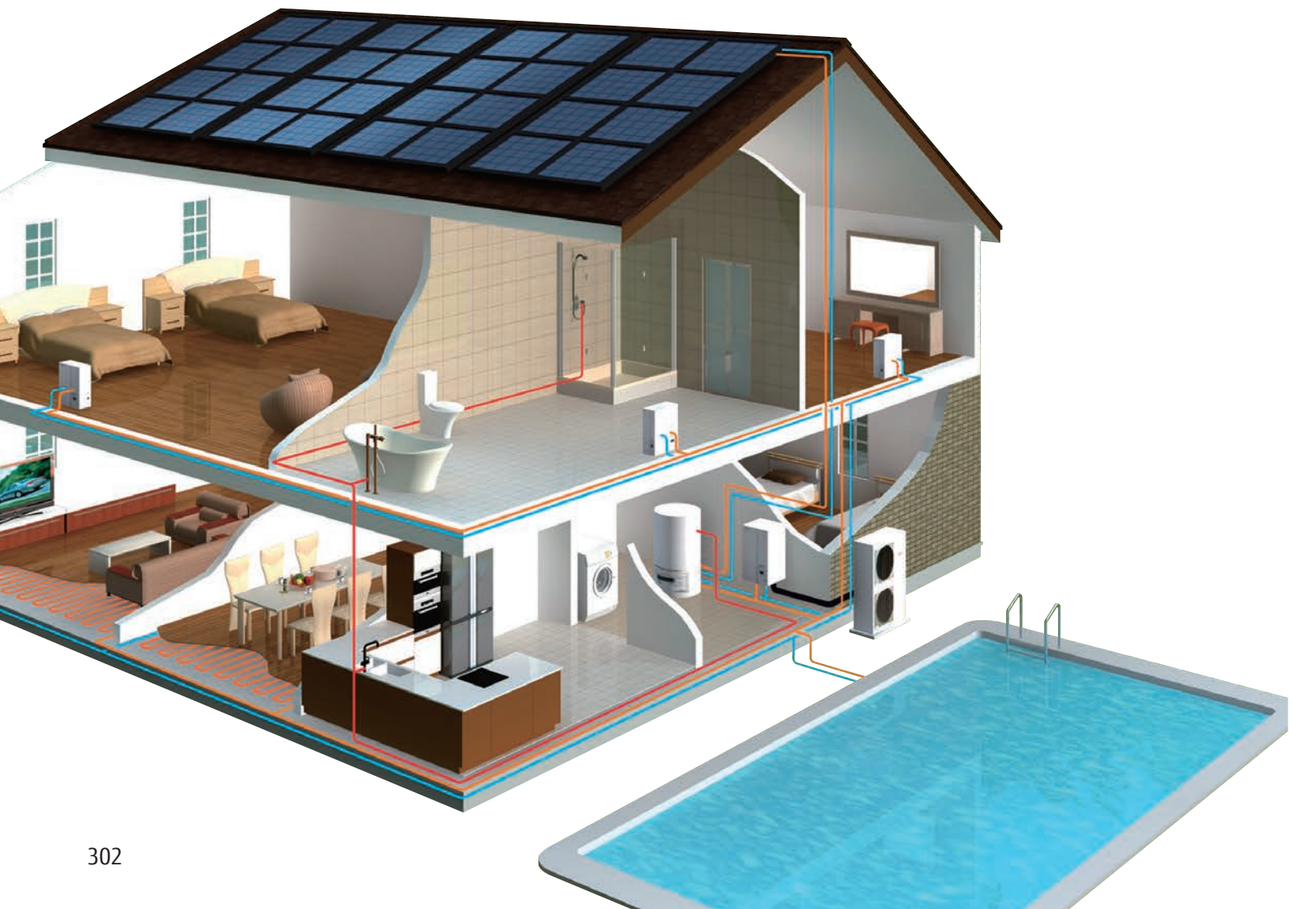
Contains the basic information required for air conditioner design, including unit size, capacity, input power, noise, and airflow rate. These data can be procured from the Fujitsu General Website, Design Simulator, and Autodesk® Seek Website.



# WATERSTAGE™ Support Tool

Fujitsu General's new software for the WATERSTAGE™ automatically provides a combination of WATERSTAGE™ equipments just by giving few parameters.
The software is featured with multiple languages, and automatic update function.





## WATERSTAGE™ Proposer




### Model selection with detailed technical information

- The software automatically selects the equipments just by inputting some factors, like the region where the equipment is installed, required capacity to heat up the space, and a heating method.
- The transition in the equipment capacity at each outdoor temperature condition and/or when back up heater is under operation can be easily created by this software.



The visible images of the optional items enable the correct configuration of the systems. All of the associated optional items are automatically chosen in a case the application requires several devices of the WATERSTAGE™ equipments.



The entire system configuration can be reviewed and modified once the units are selected.
And by seeing the images and the list of equipments at the same time, it avoids mistake in the selection of equipments.



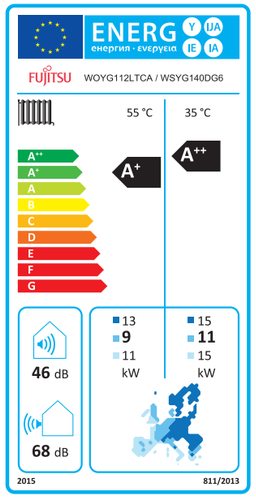
The software automatically provides graphs of monthly running cost, $CO_2$ emission volume, cost comparison against other heating sources, and other data to allow the users to see at a glance the financial benefit of choosing WATERSTAGE™ equipments.

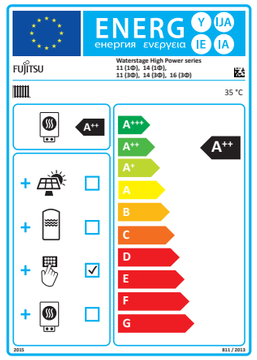
## WATERSTAGE™ Package label creator

### Energy labels and Fiches can be downloaded from our homepage

You can find and download the ErP documents (energy labels, product fiches, pre-configured package labels, pre-configured package fiches, information sheets and EC Declaration) from our homepage.

In addition, we will provide an internet service to allow the various package labels and package fiches to be created easily by installers in the future.



# Quick Service & Maintenance



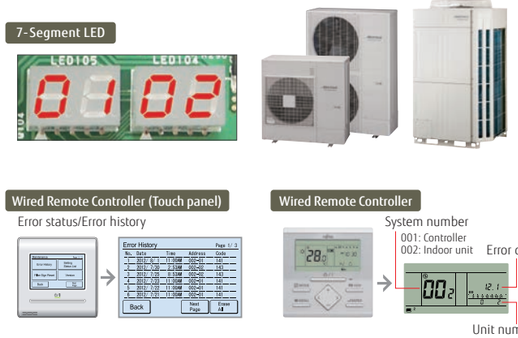
If trouble should occur in a unit or system, abundant support tools such as trouble code display at the product, Service Tool that allows checking of the detailed status of the entire system, and remote monitoring tool that uses the internet, etc. support quick service and maintenance anywhere and at any time.

## Easy maintenance & monitoring

### Design for easy maintenance

The air conditioner operating status and trouble status of the detailed are displayed at the 7-segment of the outdoor unit PCB or on the remote controller screen.
The unit status can be checked rapidly and quick response is also possible.

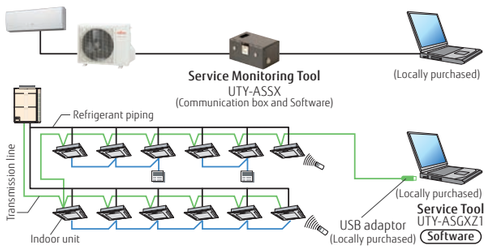
- Operation mode status
- Discharge temperature/Pressure status
- Compressor operation indication
- Address/Type/Number of outdoor unit
- Error code.




### Error diagnosis by Service Tool

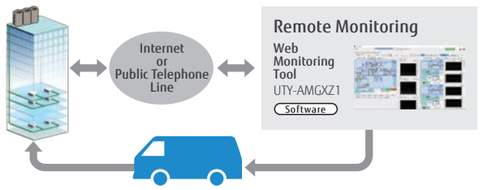
The unit status details from single split models to VRF system can be checked on PC screen by connecting Service Tool.
Quick countermeasures can be taken

- Operation status/control
- Monitoring operating condition
- Monitoring sensor data
- Indication of trend graph
- Error history
- Indication of refrigerant circuit diagram (For VRF)




### Remote monitoring

VRF system operating status and trouble status details can be constantly and remotely monitored over the Internet, etc.
Rapid cooperation with the service personnel are also possible.




## Mobile Troubleshooting Tool for iPhone & Android

We will release an App of troubleshooting tool for iPhone, iPod touch and other Apple products and Android products. This application is a troubleshooting tool for Fujitsu General air conditioner (RAC/PAC, VRF, ATW, FGLair, R32 calculation of allowable refrigerant capacity)

It helps you to check air conditioner condition. Error code check, Troubleshooting, and Sensor check are available.

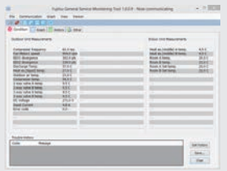



**Mobile Technician** FREE

## Service Monitoring Tool for Single Split, Multi Split & Air to Water



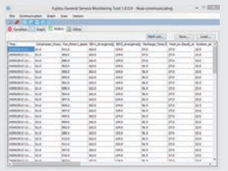
- Quick overview about temperature sensor readings and controlled parts like EEV, Fan, Compressor and so on.
- It is not easy to judge the point. So it would be better to delete it.
- Visualization of protection operation
- Helpful for intermittent troubleshooting
- Proof of normal operation for the customer during periodical maintenance.



Actual operating condition display



Graph display



Operation history display

| | UTY-ASSX |
|---|---|
| Dimensions (H×W×D) (mm) | 60 x 160 x 160 |
| Weight (g) | 500 |

# Service Tool

## Extensive monitoring and analysis functions for installation and maintenance

- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
- This software can be connected to any point of transmission line with USB adaptor (locally purchased)

* The saved data can be displayed offline. However, the data saved by the following model cannot be displayed.
  - UTR-YSTB/UTR-YSTC (Service Tool)
  - UTR-YMSA (Web Monitoring Tool)

## Automatic operation check for refrigeration cycle

After product installation, operation check can be performed automatically. Self-diagnosis function automatically judges whether each sensor value is normal, so the operation check work can be reduced. The diagnosis can also be output as a report.





[Note] Use only as a guide and judge for yourself finally.

**Whether each sensor value is normal is judged automatically.**

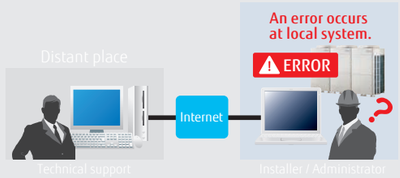
- ☑ Discharge temperature normal value OK
- ☑ Super heat volume normal value OK
- ☑ High pressure pipe normal value OK
- ☑ Low pressure pipe normal value OK

...etc.



## Remote technical support & maintenance

On-site check screen can be shared with the skilled person in a distant place. When visiting for troubleshooting on site, operation status can be shared in real time and get assistance easily. Online chat function helps to support on site staff.




## Various trend graph display

Previously, only 3 kinds of each sensor value can be displayed. However, multiple graphs can be displayed in new Service Tool depending on the situation. The refrigeration cycle can be checked in detail.



### Personal computer system requirements

| | UTY-ASGXZ1 |
|---|---|
| **Operating system** | • Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1<br>• Microsoft® Windows® 8.1 Pro (32-bit or 64-bit)<br>• Microsoft® Windows® 10 Pro (32-bit or 64-bit) |
| **CPU** | 1 GHz or higher |
| **Memory** | • 1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit])<br>• 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit]) |
| **HDD** | 40 GB or more of free space |
| **Display** | 1366 x 768 or higher resolution |
| **Interface** | • USB port for U10 USB Network Interface and Software protection key |
| **Software** | Internet Explorer® 11 or Microsoft Edge |

### <Packing list>

| Name and shape | Quantity | Application |
|---|---|---|
| WHITE-USB-KEY (Software protection key) | 1 | Software protection key to be connected to USB port on the Service Tool-installed PC. These products run only on a PC with WibuKey. |

•Personal computer that satisfies the following system requirements
•Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

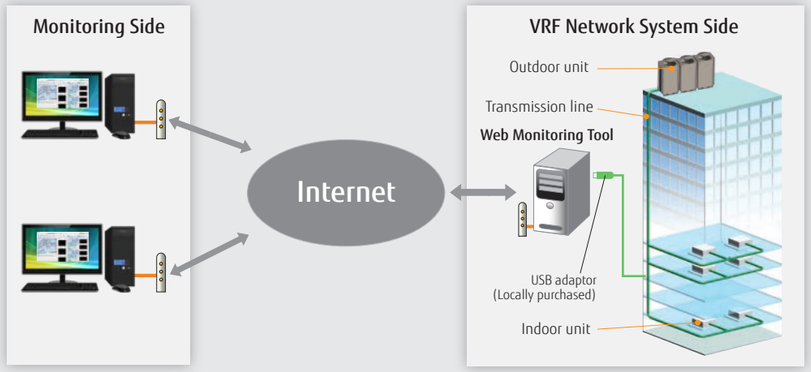
# Web Monitoring Tool

## Product features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet*1.
- Requires either a dedicated internet connection or public telephone line.
- Determination of an error occurrence can be made through error warnings and equipment status information obtained from a remote location.
- The monitoring data in a remote side can be optionally downloaded. And, this data can be displayed in offline mode of the service tool.
- Monitoring side computer is not required to install special software, requires only general web browser.

*1: Use of internet mail system required.

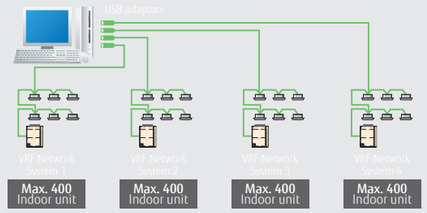
## Web Monitoring System




## Support 4 VRF network systems

USB adaptor (max. 4 adaptors per PC) permit, monitoring of up to 1,600 indoor units.

Suitable for large-scale buildings or hotels.




### Personal computer system requirements

| | UTY-AMGXZ1 |
|---|---|
| **Operating system** | • Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1<br>• Microsoft® Windows® 8.1 Pro (32-bit or 64-bit)<br>• Microsoft® Windows® 10 Pro (32-bit or 64-bit) |
| **CPU** | 1 GHz or higher |
| **Memory** | • 1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit])<br>• 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit]) |
| **HDD** | 40 GB or more of free space |
| **Display** | 1366 x 768 or higher resolution |
| **Interface** | • USB port (for 10 USB Network Interface Max.4, Software protection key)<br>• Either of the following interface is required for remote connection:<br>- Public Telephone Line: Modem is required<br>- Internet using LAN: Ethernet port is required |
| **Software** | Internet Explorer® 11 or Microsoft Edge |

### <Packing list>

| Name and shape | Quantity | Application |
|---|---|---|
| WHITE-USB-KEY (Software protection key) | 1 | Software protection key to be connected to USB port on the Service Tool-installed PC. These products run only on a PC with WibuKey. |

•Personal computer that satisfies the following system requirements
•Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.))