

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°C DB/19°C WB Outdoor temp.: 35°C DB/24°C WB	Heating	Indoor temp. : 20°C DB Outdoor temp.: 7°C DB/6°C WB
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- 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: CNB312244-UK

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



ISO 9001 Certified number: 15917020073R5M
ISO 14001 Certified number: 15918E20021R5M

- The products or equipments in this catalogue contain fluorinated greenhouse gases.
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- ***PGLair*** is a worldwide trademark of FUJITSU GENERAL LIMITED.
- ***air-conditions*** is a trademark of FUJITSU GENERAL LIMITED.
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www.fujitsu-general.com



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FUJITSU GENERAL LIMITED

FUJITSU GENERAL LIMITED

FUJITSU GENERAL Way

Our Mission

Living together for our future

Through innovation and technology, we deliver a brighter future with the peace of mind to our customers and societies around the world.

Our Philosophy

Act Spontaneously

We embrace new challenges by investing in ourselves for personal growth, and through continuous creativity with a spontaneous attitude.

Develop Our Team

We respect and value our people, and optimize their abilities through fostering culture and diversity, and utilizing a collaborative effort focused on communication.

Value Integrity

To achieve our goals, we always act with integrity and shared ethics.

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PRODUCT LINEUP

SPLIT & MULTI-SPLIT

VRF

VENTILATION

CONTROL SYSTEM & OPTIONAL PARTS

AIR TO WATER

SUPPORT

Sp-002 AIRSTAGE™ Support

Sp-004 AIRSTAGE™/RAC Support Tool

Sp-006 WATERSTAGE™ Support Tool

Sp-008 Quick Service & Maintenance

Sp-010 Service Tool

Web Monitoring Tool

OUR MESSAGE



for Clean



for Future



for Comfort



for Control



for Design

We create the comfort for the people all over the world by made-in-japan quality and innovative manufacturing.



History



World Wide Locations



Global Business Activities



Project Reference



Global Development & Production Bases



High Quality Development & Production Facilities



Think About Air Quality

Fresh air is essential for comfortable air conditioning. Fujitsu General's air conditioning offers a wide range of products with air cleaning functions such as highly advanced filters and ventilation systems using heat exchangers.

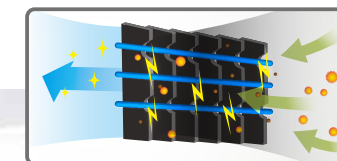
Clean air by collecting dust particles



Plasma Air Clean

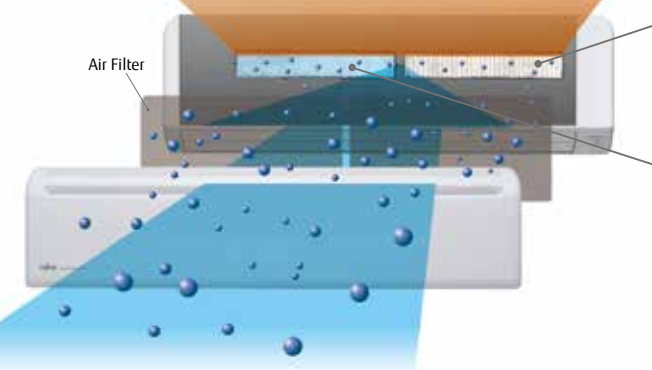
Air is cleaned with an electric dust collecting technology. Pollen, house dust and other tiny pollutants are collected and removed with static electricity.

Low concentration ozone is generated.



Using different filters at both sides

Air Filter



Apple-catechin Filter

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



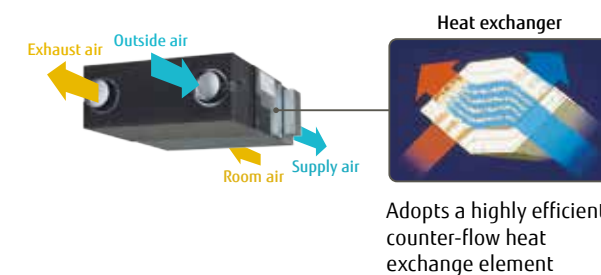
Ion Deodorization Filter

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

Ventilation with adequate airflow maintaining a subdued change in temperature

Heat Exchange Ventilation

When a room is cooled or heated, the exhausted cooling/heating energy is recovered by heat-exchange ventilation.



Air Handling Unit

The Air handling applications for AIRSTAGE™ system is the Fujitsu general offer to the most demanding installations, where energy efficiency meets with the highest comfort.





Green Aspect for Refrigerant

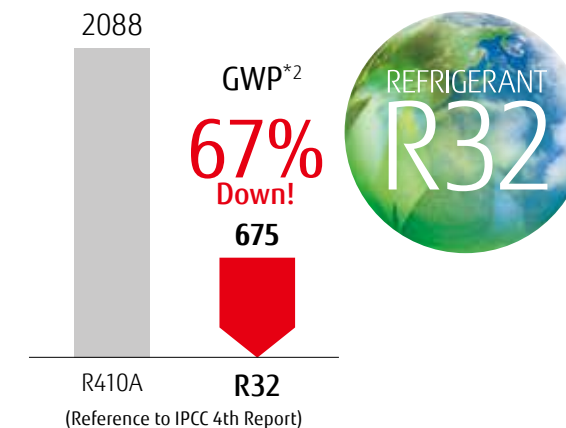
We provide reliable technologies approved and cultivated in the European market where environmentally friendly regulations are very strict. We are working on making environmentally friendly products we can be proud of in the future in our research, development and manufacturing processes.

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

- 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).



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 CO₂ Emissions

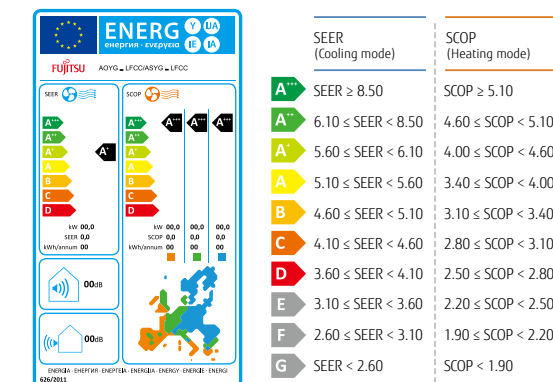
Fujitsu General products sharply following the F-gas regulation 517/2014

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.



Less is more

Less Space

Installation Flexibility

The top class compact dimensions of outdoor units from 8 to 18 HP capacity, keeping the building appearance as it is by improvement on the installation flexibility.

Installation Space



Weight (18HP model)

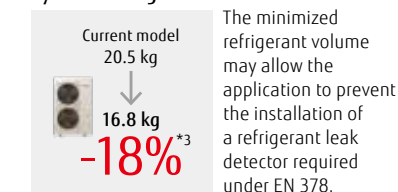


Less Refrigerant

Design with Small Refrigerant

Significantly reduce the system refrigerant volume by new small indoor unit, piping design and optimized heat exchanger volume design.

System Refrigerant Volume

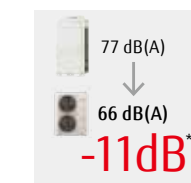


Less Noise

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 (8HP model)



^{*1}: J-IV models is compared with V Series outdoor unit 14/16/18 HP models. ^{*2}: J-IV 18 HP model is compared with V-IV 18 HP models. ^{*3}: Ex) In the case of 30 indoor units connection in 1 system (Outdoor unit: 12 HP, Indoor unit: 1 kW × 30, Total piping length: 277.5 m) • J-IV model is compared with current models. ^{*4}: J-IVL 8 HP model is compared with V Series outdoor unit 8 HP model.



Comfort

Comfortable Airflow Design

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.



3D Flow Cassette

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.



Center Air Outlet Port

Side Air Outlet Port

Side Air Outlet Port

NEW

Cassette One-way Flow type

Wide airflow range by new triangle design & large flap

The large flap with triangularly arrayed louvers has a wider movable range and directs an airflow to the furthest corners of the room.



Cassette Circular Flow

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.

KX Series

Wall Mounted

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

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



Dual Side Fans

nocria X

Dual Side Fans



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

Comfort by Design with Advanced Technology



Lambda Heat Exchanger^{*3}



Power Diffuser^{*4}



Filter Auto Clean^{*5}



The Dual Side Fans^{*2}



3 Air Outlet Ports^{*1}

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.

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



Control

Operation from Anywhere

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.

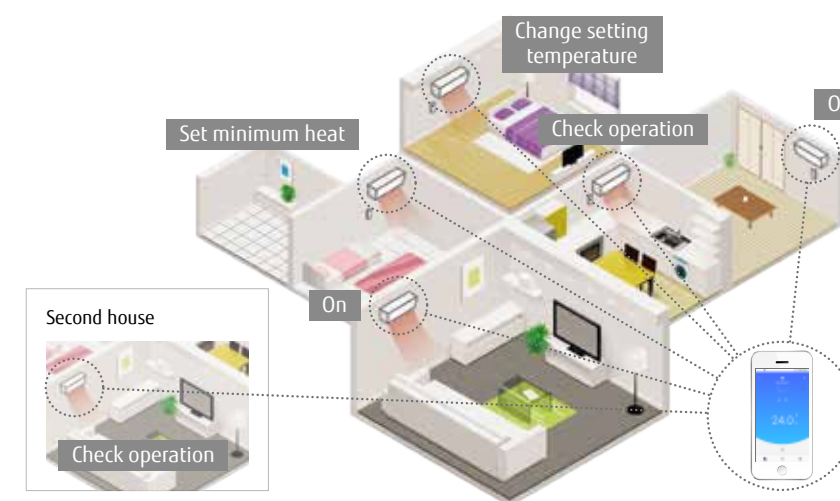
User friendly screen display facilitates easy operation.

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



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.



+

FGLair™

Download Free



Compact Wired Remote Controller

Large screen and simple display

- Although the size is compact, the screen is large
- Large letters makes it easy to see
- Operation is simple and easy-to-understand

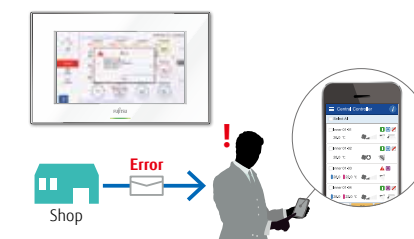


Central Remote Controller for VRF

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.





Design

Beautiful Space Design

Fujitsu General provides the well-designed model with special texture for Europe, the design-award-winning product suitable for the room interiors, and the various designed Cassette type matched to office space. We also have the lineup with elegant design models such as the Ceiling model with beautiful curved surface.

KE Series

Wall Mounted

KE Designer Series

What we aim is a well-designed air conditioner especially for Europe. It is different from Japanese one harmonized with its surroundings and it appeals comfortable elegant feeling in the room. Light-elegant and three-dimensional expression composed of curved surface is beautiful from anywhere.



CMF: Color Material Finish

The texture of the front panel expresses craftsmanship existing in Europe. The texture changes the expression by the changing light of the day.

Design Award winning products

Wall Mounted, Design models



Light Elegant Design

New Design Ceiling

Light-elegant and three-dimensional expression composed of curved surface gives comfort and wellbeing.



reddot winner 2020



Various Cassette Design



This fits grid ceiling system.
Compact Cassette
Grid type



Beautiful designs from all angles.
Cassette Circular Flow
White color panel



For ambiances with dim lightings.
Cassette Circular Flow
Black color panel



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.



***1,*2 1991** Air conditioner with the world's first lambda heat exchanger

1994 Air conditioner with the world's first power diffuser

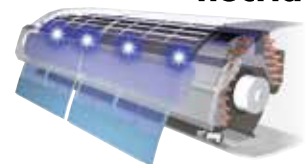
2001 AIRSTAGE™ Series is released. VRF air conditioners for large-sized buildings.

AIRSTAGE™



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

nocria™



2004 Standalone type small VRF AIRSTAGE™ J Series is released.



2006 VRF Heat Pump type Maximum 42 HP AIRSTAGE™ V Series is released.

AIRSTAGE™



2009 Heat Pump Modular type Maximum 48 HP AIRSTAGE™ V-II Series is released.



2009 Air to Water system is released.

WATERSTAGE™



For Light Commercial

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

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

2017-19 Small VRF AIRSTAGE™ J-IIIIL suitable for diverse light commercial properties is released.

2020 Small & lightweight outdoor unit AIRSTAGE™ J-IVL, J-IV, J-IVS outdoor units released.



2019

New cassette style released. 3D Flow Cassette

For Commercial

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



2020

AIRSTAGE™ Air Handling unit released.

2014-15 Heat Pump Modular type AIRSTAGE™ V-III Maximum 54 HP ideal for large properties is released

2020 Heat Recovery type AIRSTAGE™ VR-IV Maximum 48 HP is released.

For Residential

2011 Hi-spec Design models LT Series & LU Series is released.

2017 Flagship Wall Mounted models nocria™ X is released.

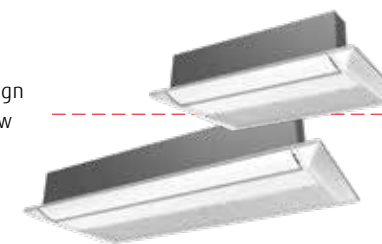
2017-19 Environment-friendly new refrigerant R32 models are added. (Split & Multi-split type)



For Light Commercial

AIRSTAGE

The new triangle design cassette One-way Flow type released.



For Commercial

For Residential



Multi-split and Air to Water Comfort Series 10 kW class released.



3-unit, 4-unit, 5-unit Multi-split

Air to Water Comfort series 10 kW class



Compact designed Heat pump. Air to Water Monobloc type released.



WATERSTAGE™

5 kW/6 kW

8 kW

1950 ~

1970 ~

2000 ~

2010 ~

2021 New Topic

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



2019 Construction of new building to strengthen development capabilities at Kawasaki head office:

Base to create new value by combining internal and external knowledge



2020 Construction of Manufacturing That Utilizes the IoT:

We will introduce a real-time IoT System to immediately visualize and analyze a variety of information.



Fujitsu General (Thailand) Co., Ltd. (Thailand) FACTORY-2



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



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*4: Announced 2018. In room air conditioner for the home (Our company's investigation) *5: Announced 2012. 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, America, and Japan)



JAPAN Head Office



Technology Research Building (Japan)

• Air conditioner solution center
"THE AIRSTAGE" in Manhattan, New York

• Fujitsu General America, Inc.

• Fujitsu General Do Brasil Ltda.

• Fujitsu General Air Conditioning (UK) Limited

• Fujitsu General (Euro) GmbH

• Fujitsu General Commercial Air Conditioning Italia S.p.A.

• Fujitsu General Sales & Trading (Shanghai) Co., Ltd.

• Fujitsu General Limited

• Fujitsu General (Taiwan) Co., Ltd.

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

• Fujitsu General (Aust.)
Pty Limited

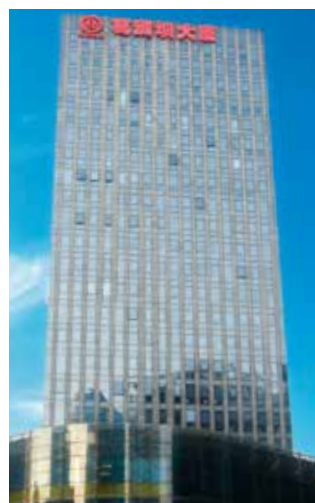
• Fujitsu General
(India) Private Limited

• Fujitsu General
New Zealand
Limited

• Fujitsu General
(Asia) Pte. Ltd.

• Fujitsu General
(Middle East) FZE

14 Overseas Sales Companies



Fujitsu General Sales & Trading
(Shanghai) Co., Ltd.



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



Fujitsu General Commercial Air
Conditioning 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 Do Brasil Ltda. (Brasil)



Fujitsu General (India) Private Limited



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

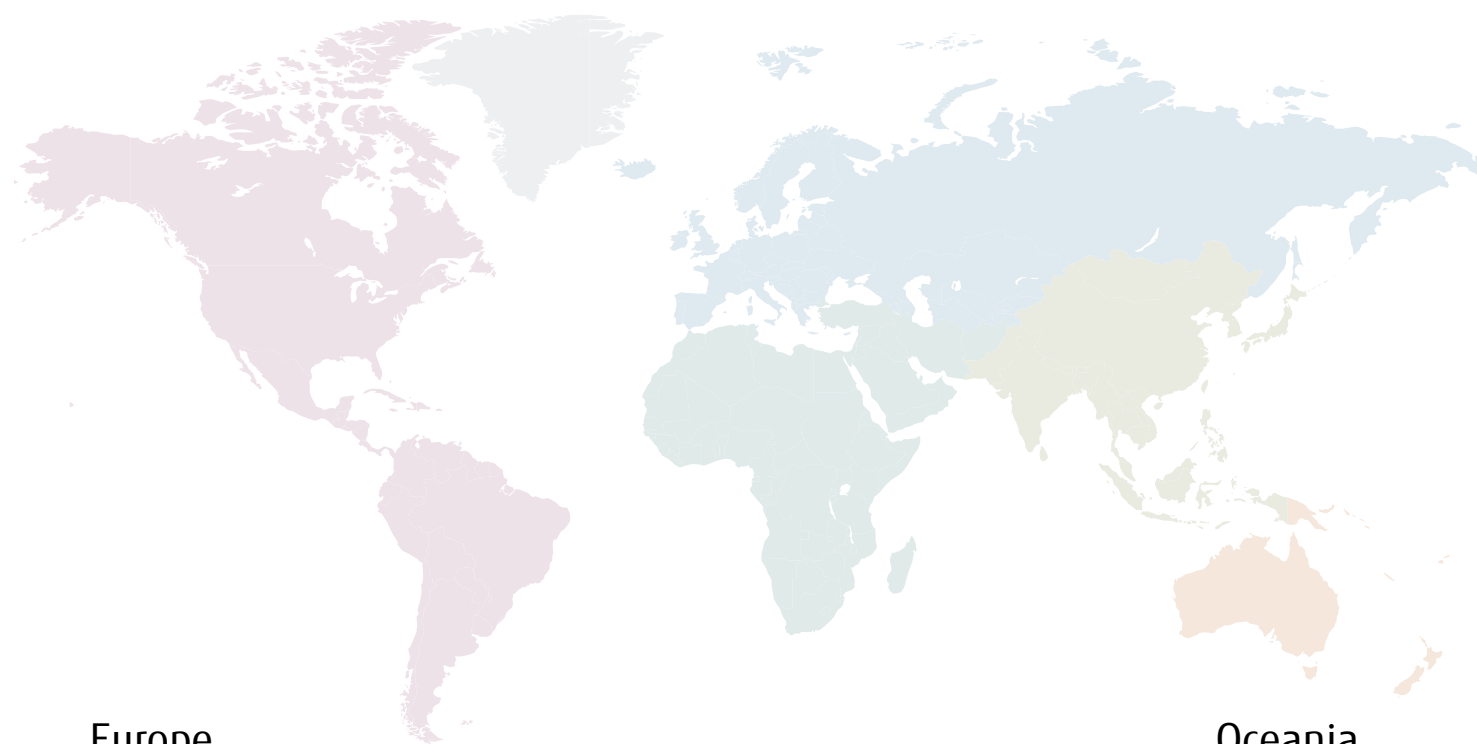


FUJITSU GENERAL SOLUTION
CENTER "THE AIRSTAGE" (U.S.A.)



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



Dealer Convention in Kuwait



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



Dealer Convention in Thailand



Training



Call center

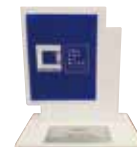
International authoritative design awards



"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



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



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



reddot winner 2020

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 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

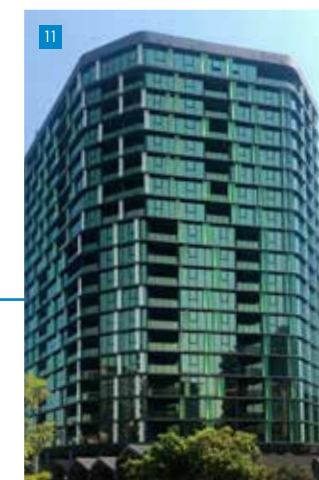
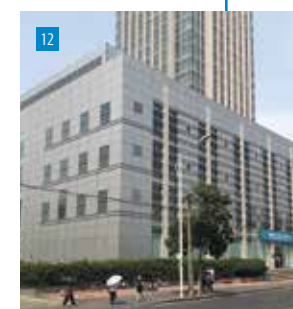
Fujitsu General's Products have been installed in over 50 countries worldwide.

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.



For Light Commercial

- 1 Bank in Europe
- 2 Museum in Europe
- 3 School in Asia
- 4 Hospital in Asia
- 5 School in Middle East
- 6 Shop in Oceania
- 7 Public Facility in U.S.A.



For Commercial

- 8 Hotel in Asia
- 9 Office in Asia
- 10 Apartment in Oceania
- 11 Apartment in Oceania
- 12 Public Facility in Asia
- 13 Hotel in Middle East

For Residential

- 14 Residential in Oceania
- 15 Residential in U.S.A.
- 16 Villa 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 & Technology Research Building



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



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



North America R&D Center (U.S.A.)



Fujitsu General Air Conditioning R&D (Thailand) Co., Ltd. (Thailand)



R&D Center in Fujitsu General (Shanghai)



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

Technology Research Building in Japan Head Office

Construction of Manufacturing That Utilizes the IoT

We will introduce a real-time IoT System to immediately visualize and analyze a variety of information (e.g., the facility operating situation, production progress on assembly lines, and the inventory and transportation situation of parts). This will enhance the accuracy of production and shipping forecasts in the Head Office and Factory Management Department. In addition, we will also utilize this in the improvement activities of employees in production sites with the aim of improving the productivity efficiency, parts distribution efficiency and facility operating ratio.

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

• F.G.L.S Electric Co., Ltd.

• Fujitsu General (Euro) GmbH
— R&D Center

• Fujitsu General America, Inc.
— R&D Center

• North America R&D Center
— R&D Center

• Fujitsu General Limited
— R&D Center

• Fujitsu General (Shanghai) Co., Ltd.
— R&D Center

• Fujitsu General Air Conditioning R&D (Thailand) Co., Ltd.
— R&D Center

• Fujitsu General (Thailand) Co., Ltd.
• Fujitsu General (Thailand) Co., Ltd. Factory-2
• FGA (Thailand) Co., Ltd.
• TCFG Compressor (Thailand) Co., Ltd.

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)



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



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



Fujitsu General (Thailand) Co., Ltd. (Thailand) FACTORY-2



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



Fujitsu General Air Conditioning R&D (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 room air conditioner 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.

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.

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



Technology Research Building
in Japan Head Office

Testing Laboratory

Fujitsu General EMC Laboratory Limited



60 m Height Difference Testing Tower

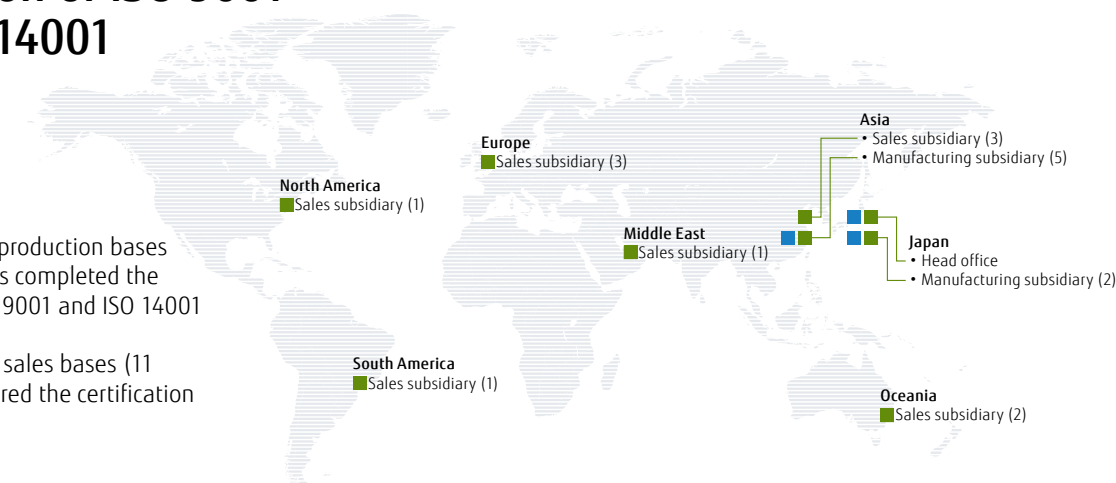
Objective is to confirm oil circulation of compressor for reliability



Acquisition of ISO 9001 and ISO 14001

■ ISO 9001
■ ISO 14001
() Number of companies

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

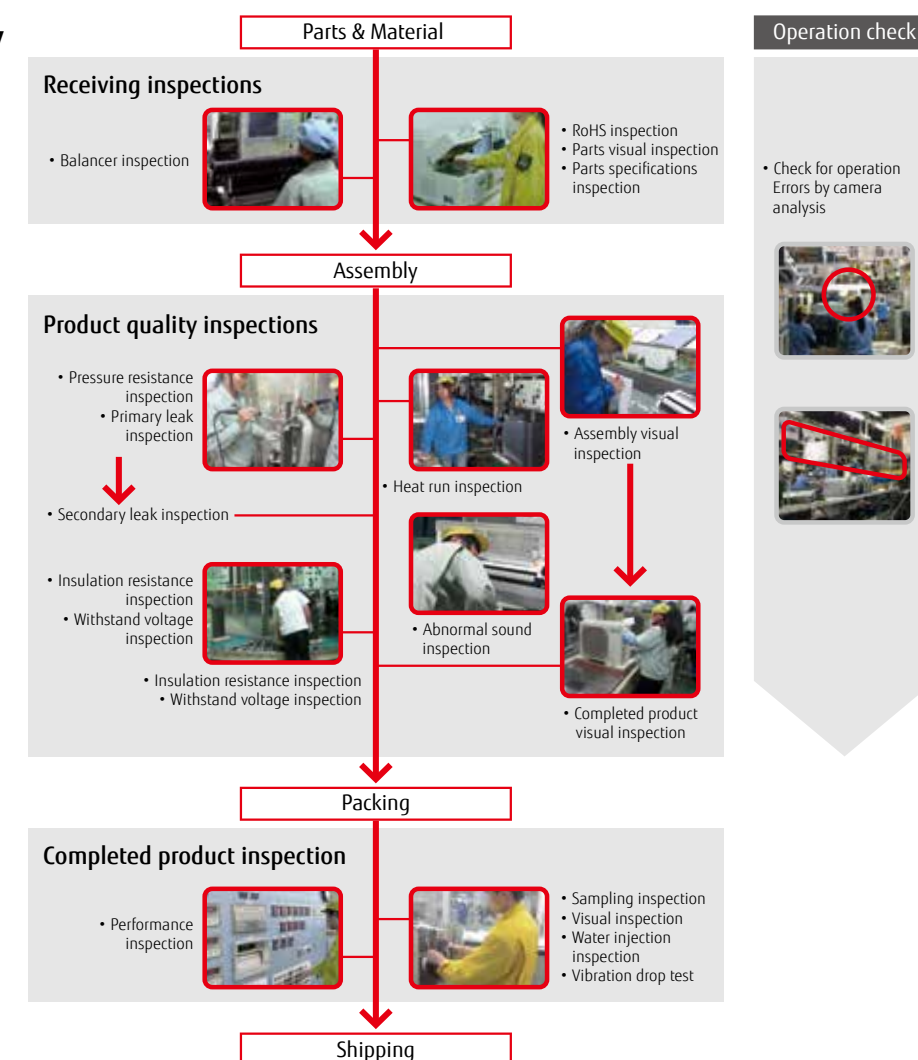
All Fujitsu General factories have acquired ISO 9001, and have built a quality control system common around the world. High quality products are offered to all over the world based on stringent quality inspections.

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.



2021 New Products



Multi-split indoor unit
Wall mounted Standard series
High efficiency & Large room
24kBTU



SPLIT

Floor

Compact & Comfort

S-046

- 9/12/14 class 3 models
- High energy efficiency
- New type Wireless LAN adaptor (option)
- R32 refrigerant & low refrigerant volume



MULTI-SPLIT

2-unit to 5-unit Multi-split type Indoor units

M-011, 022, 023

Wall mounted Standard Series

- 3 models
- Capacity range from 18kBTU to 24kBTU

Floor

- 3 models
- Capacity range from 9kBTU to 14kBTU

Ceiling

- 2 models
- Capacity range from 18kBTU to 22kBTU

Medium static pressure duct

- Capacity range is 22kBTU



Floor
09/12/14kBTU



Wall mounted Standard series
18/22/24kBTU



Ceiling
18/22kBTU



Medium static pressure duct
22kBTU

Multi-split type 3-unit, 4-unit, 5-unit

M-010~013

- 18-36 class, 4 models
- High energy saving
- R32 refrigerant model & less refrigerant charge
- Slim & Compact design outdoor unit
- Flexible installation



3-unit 18/24 class



4-unit 30 class
5-unit 36 class



AIRSTAGE Indoor unit
Cassette One-way Flow type
V-062

- 7 models
- Capacity range from 1.1 kW to 7.1 kW class
- Compact chassis size
- Wide airflow range
- Low noise operation



CONTROL SYSTEM

MODBUS® Interface
C-016

- Can be installed on DIN rail easily 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.



CN connector type

KNX® Interface
C-017

- Simple installation due to small and compact size.
- No separate external power supply required (just KNX bus power).



CN connector type

IR type

Wireless LAN Interface
C-018

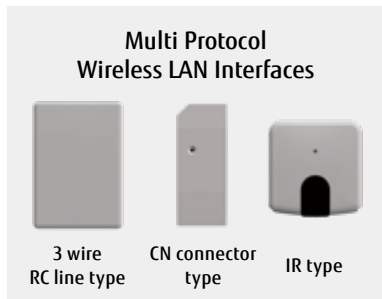
- It is the most advanced solution to remotely manage an Air Conditioning system using all kind of mobile devices such as Smartphones, Tablets and PC



CN connector type



IR type



Multi Protocol Wireless LAN Interfaces

3 wire RC line type

CN connector type

IR type

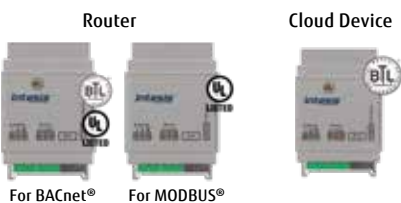
BACnet® Gateway
C-020

- BACnet® Gateway enables to connect a BMS and Fujitsu General split/multi-split/VRF system.



CN connector type

BACnet® / MODBUS® Router & Cloud Device
C-038, 039



Router

Cloud Device

For BACnet® For MODBUS®

Multi Protocol LAN Interfaces
C-037

MODBUS® & KNX® Convertor for VRF
C-040, 041



Pressure Sensor Kit
C-056



External Power Supply Unit
C-057



WATERSTAGE
Split type & Split DHW Integrated type
Comfort Series 10 kW class
W-012, 018

- 10 kW class 1 model outdoor unit
- Advanced heating capability at low outside temperature
- Enhanced anti-freezing functions in cold areas
- Compact & Quiet design against the noise when being operated at night



Outdoor Unit

Hydraulic indoor unit

10 kW



WATERSTAGE
Monobloc type
5, 6 kW & 8 kW class
W-038

- Single phase 5/6/8 kW class 3 models
- All DC inverter technology
- High energy saving
- Low ambient operation
- Compact chassis size



5 kW/6 kW

8 kW

From Business to Private Spaces SOLUTIONS



Solution Point

We provide Fujitsu General total solutions for the property unique needs.

Fujitsu General provides the best solutions suitable for properties.

Target Properties

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.



For Light Commercial

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

034 Shops, Restaurant

036 Small Office

038 Hotels

040 School



For Commercial

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

042 Large Building



For Residential

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

044 Residence



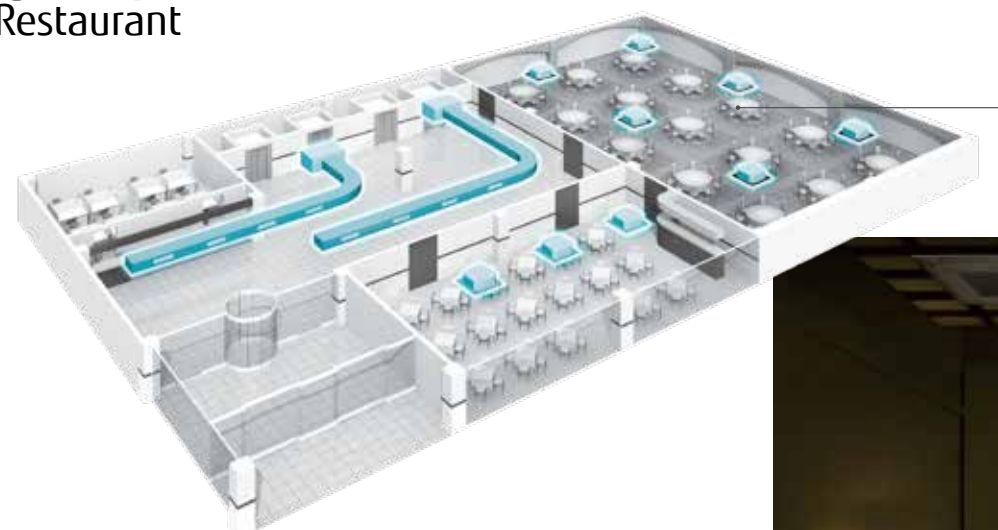
Restaurant, Shops

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.



Single Split For Restaurant



R32 large models lineup expanded

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



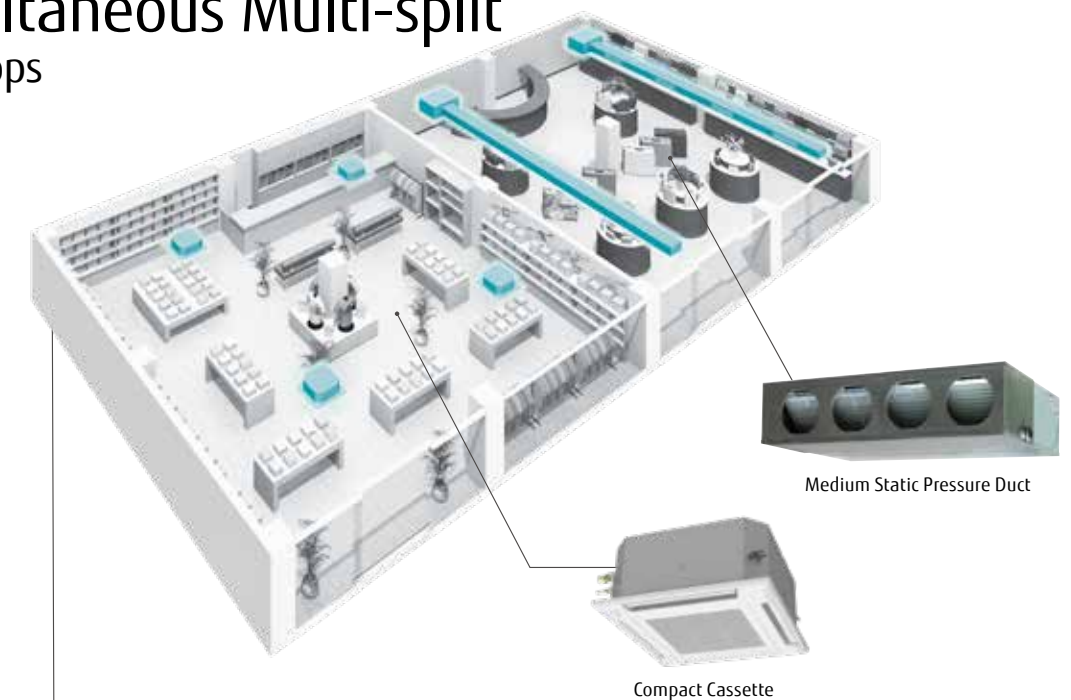
Circular Flow Cassette Series
For ambiances with dim lightings

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)

Simultaneous Multi-split For Shops

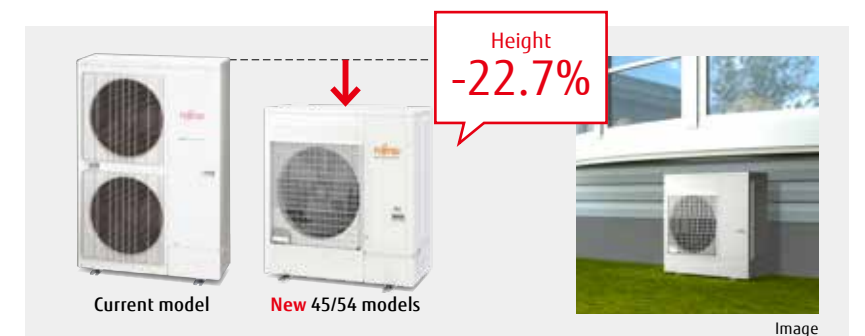


Small and light weight outdoor unit

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

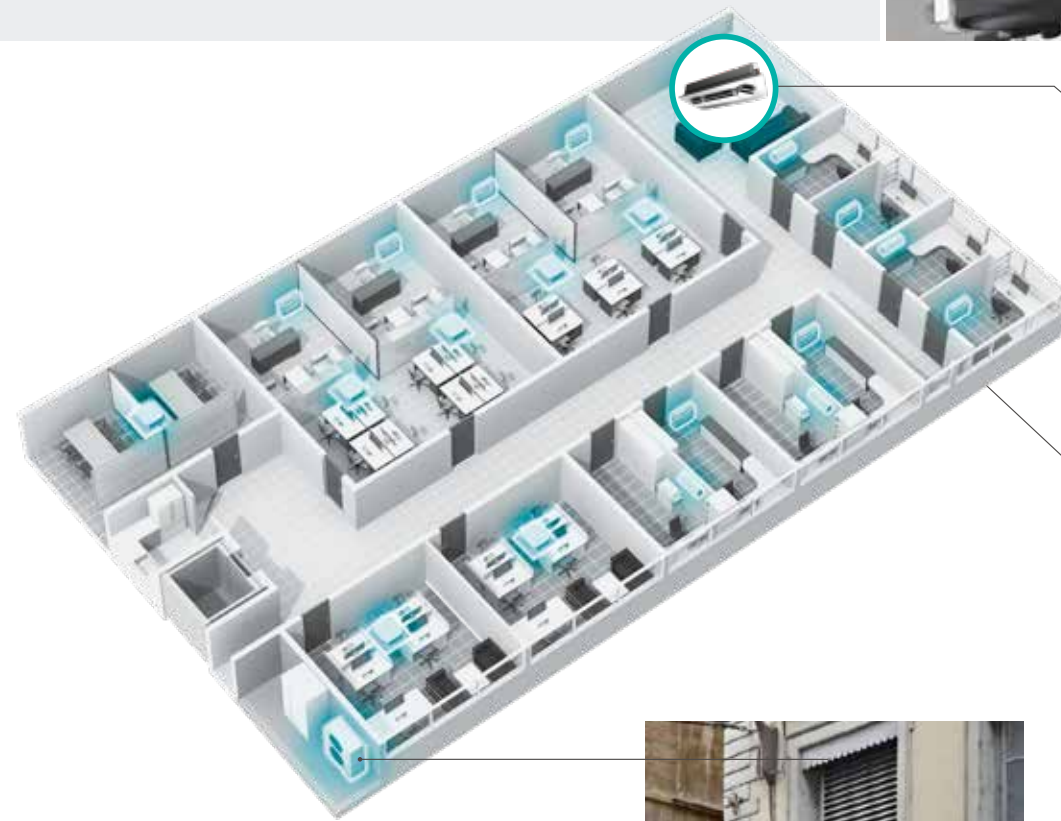
We provide 3 types of indoor units. You can select them to suit the atmosphere and layout of your shop.



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™


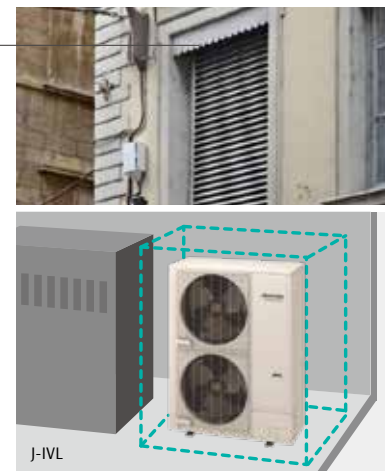
New style 3D flow cassette provides more comfort

The left and right air outlet ports with maximum 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.



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.



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

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

*Only J-IVL 18 HP model



Central Remote Controller UTY-DCGYZ1



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.

LAN



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.



Wireless LAN



Fixed IP, IP forwarding and open Port required



*Wireless LAN support : Future release



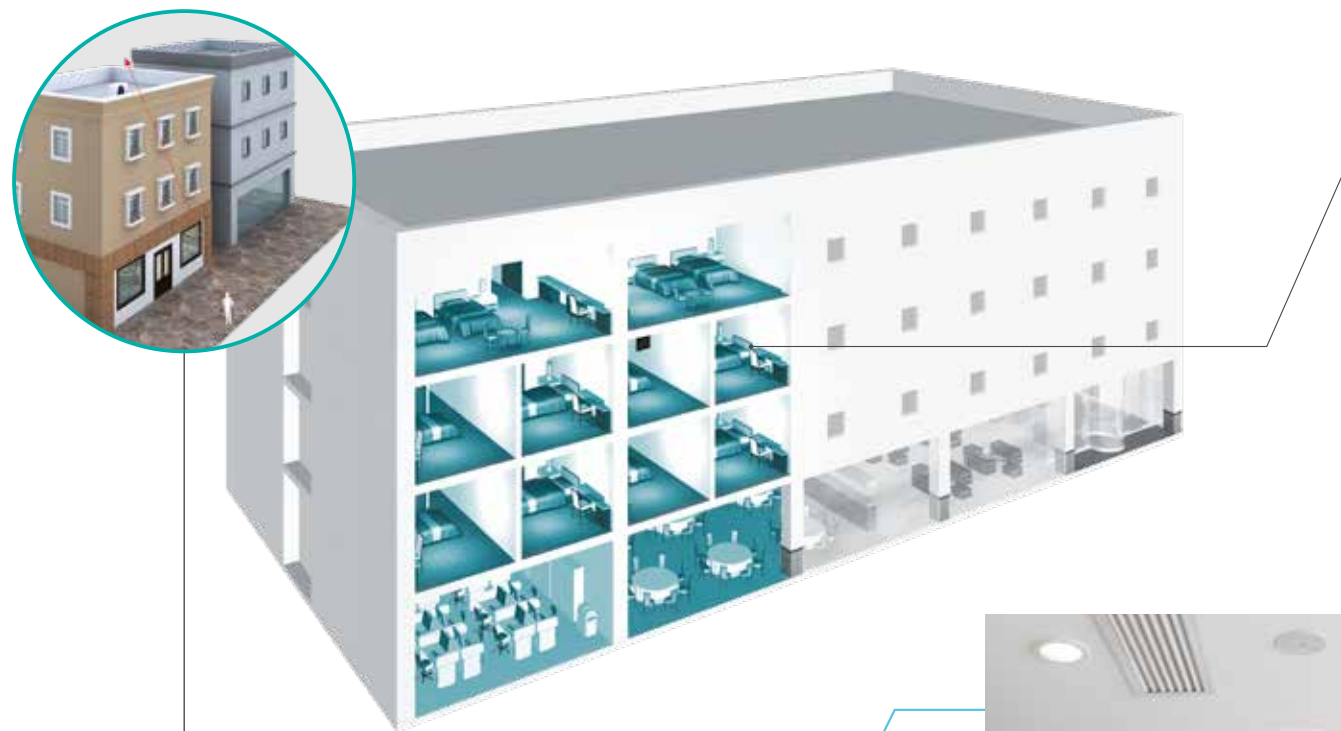
New Compact wired remote controller

The size is compact but the screen is large and easy to operate. Stylish design that fits the interior.

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.



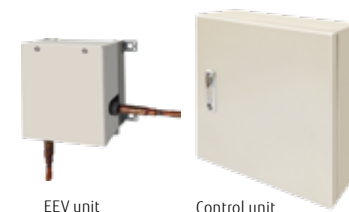
AIRSTAGE™ J Series appearance-oriented compact outdoor unit

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.

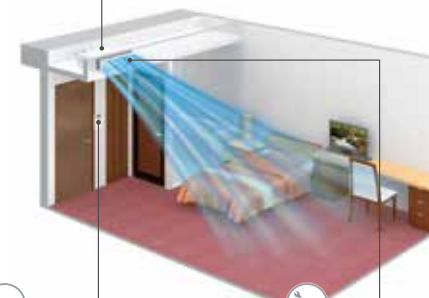


Guest room air conditioning with excellent comfort, energy saving and easy installation

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.



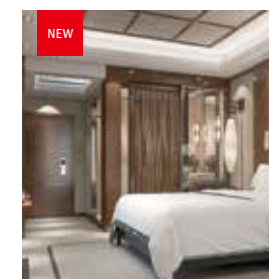
Use of an external connect switch



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



Cassette One-way Flow type

Compact chassis size & Low noise operation
They produce little noise during operation, which makes them an ideal choice for use in hotel rooms.



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

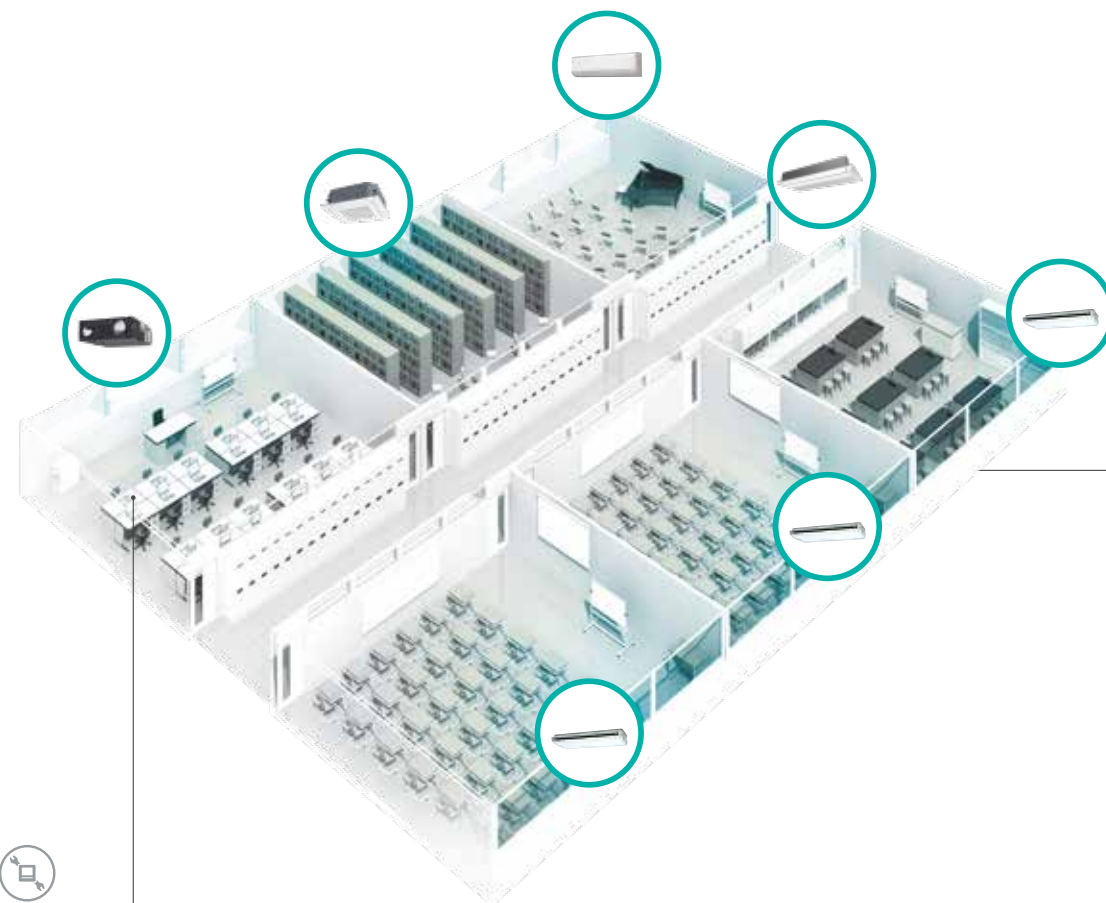
Ultra-large duct type single split system suitable for large spaces with high ceilings



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.



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.



Comfortable room air conditioning without airflow feeling

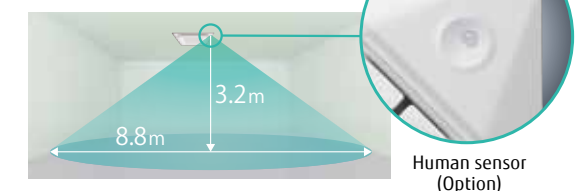
Circular Flow Cassette blows out in all directions without temperature unevenness



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





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.



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*

*: V-III Tropical model only



AIRSTAGE VR-IV

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

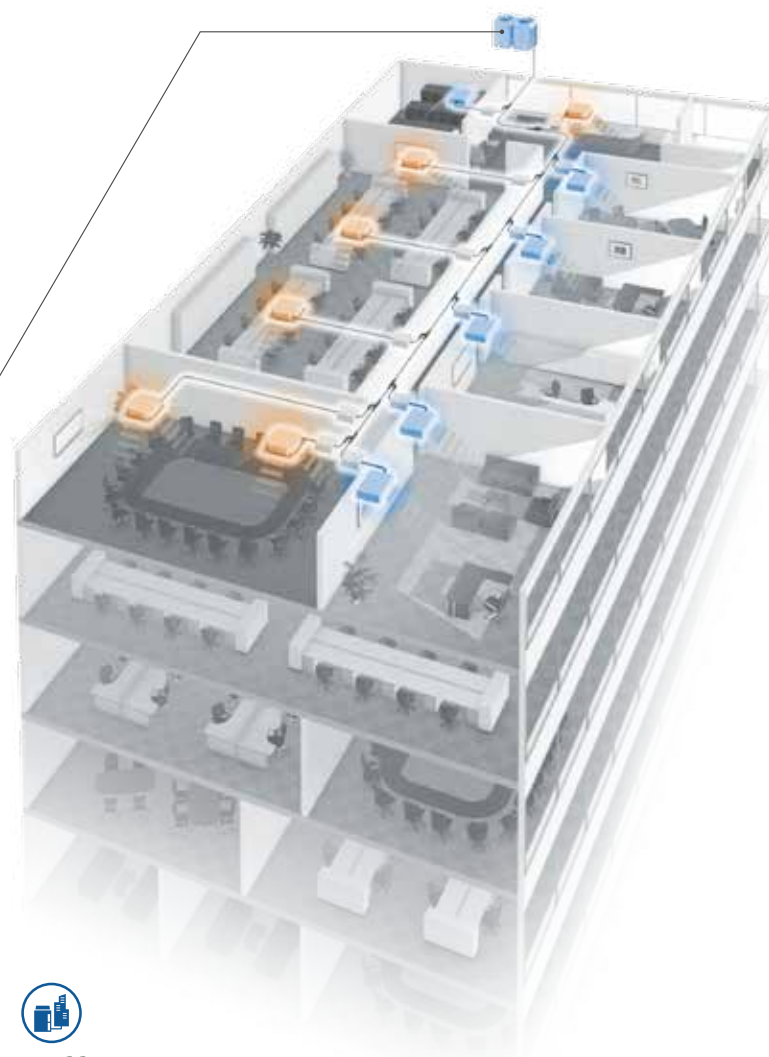
- Space saving combination: 8 HP to 48 HP/21 models
- Energy efficiency combination: 16 HP to 44 HP/13 models

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



Difference in height Up to 110 m

The height difference between the outdoor unit and the indoor unit is usually 50 m for the V-III series, but by installing the pressure sensor kit it is possible to expand it to 110 m.

*This product can only be used connected to the V-III series.

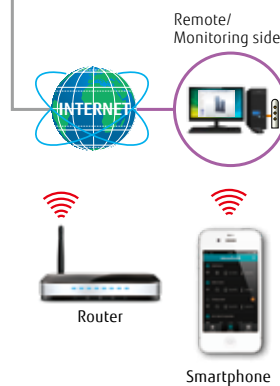


Centralized control

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



System Controller (UTY-APGXZ1)
System Controller Lite (UTY-ALGXZ1 & UTY-PLGXX2)



VRF indoor units

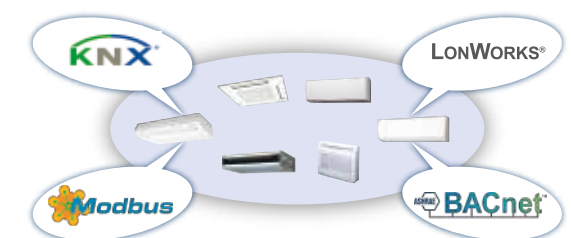


Facilities



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.

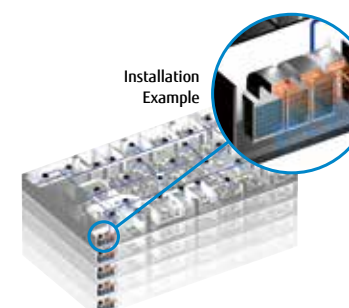


High system flexibility

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.

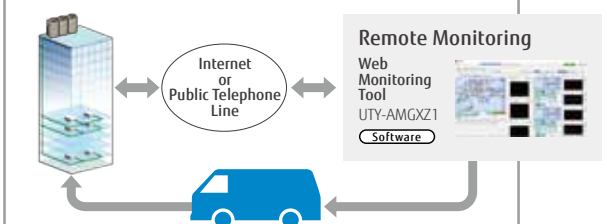
82* Pa

*: V-III, 80Pa for VR-IV



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



For Living Room & Dining Room

Cool Beauty Design Models

What we aim is a well-designed air conditioner especially for Europe. Light-elegant and three-dimensional expression composed of curved surface is beautiful from anywhere

KE Series



KM Series

For Large Room

Standard & Comfort

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



KP Series

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



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.



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).



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

Outdoor units suitable for residential environments



R32 Multi-split type released

Models using the environmentally-friendly new refrigerant R32 were released. Many new Indoor units with improved visual design were added to the indoor unit lineup.



Light Commercial & Residential

SPLIT & MULTI-SPLIT

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

- Refrigerant type R32 models
 - Wall Mounted
 - Cassette
 - Duct
 - Floor
 - Ceiling
- Refrigerant type R410A models
 - Duct

MULTI-SPLIT

- Refrigerant type R32 models
 - 2-unit to 5-unit Multi-split
 - Simultaneous Multi-split Twin/Triple
- Refrigerant type R410A models
 - 6-unit to 8-unit Multi-split
 - Simultaneous Multi-split Twin/Triple/Double Twin



SPLIT & MULTI-SPLIT

Light Commercial & Residential



Light Commercial & Residential SPLIT

- S-004 Split Overview
- S-006 Indoor Units Lineup
- S-008 Feature
- S-013 Feature Explanation
- S-050 ECO Series Lineup Specifications
- S-054 Feature Summary



Refrigerant type R32 models

Wall Mounted

- S-014 Flagship Series
- S-016 Designer Series
 - High Spec & Design
 - Cool Beauty Design
- S-020 Standard Series
 - High Efficiency & Comfort
 - High Efficiency & Large Room
- S-026 ECO Series
 - Compact & Comfort
 - Comfort for Large Room

Cassette

- S-030 Compact 4-way Flow Series – Compact & Comfort
- S-032 Circular Flow Series – Comfort for Large Room

Duct

- S-034 Slim Duct – Slim & Comfort
- S-036 Medium Static Pressure Duct – Compact & Comfort
- S-038 Medium Static Pressure Duct – Standard
- S-040 High Static Pressure Duct

Floor, Ceiling

- S-046 Floor – Compact & Comfort
- S-048 Ceiling



Refrigerant type R410A models

Duct

- S-042 High Static Pressure Duct
- S-044 Big Duct



Split Overview

Fujitsu General provides its customers with 6 types and 128 models air conditioning system ideal for various customer applications and layout. Environment-friendly new refrigerant R32 models are added.



R32
KE
Series

Wall Mounted, Designer Series, Cool Beauty Design



R32

reddot winner 2020

Ceiling



R32
KX
Series

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.



R32

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.



R32

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.



R32

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.



R32

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 program for VRF. 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	60	72	90
Wall Mounted	Flagship Series nocria X					ASYG12KXCA											
	Designer Series High Spec & Design			ASYG07KGTB	ASYG09KGTB	ASYG12KGTB	ASYG14KGTB										
	Designer Series Cool Beauty Design			ASYG07KETA ASYG07KETA-B	ASYG09KETA ASYG09KETA-B	ASYG12KETA ASYG12KETA-B	ASYG14KETA ASYG14KETA-B										
	Standard Series High Efficiency & Comfort			ASYG07KMCC*	ASYG09KMCC*	ASYG12KMCC*	ASYG14KMCC*										
	Standard Series High Efficiency & Large Room							ASYG18KMTB		ASYG24KMTB							
	Standard Series High Efficiency & Large Room										ASYG30KMTA	ASYG36KMTA					
	ECO Series Compact & Comfort			ASYG07KPCA	ASYG09KPCA	ASYG12KPCA											
	ECO Series Comfort for Large Room							ASYG18KLCA*		ASYG24KLCA*							
Cassette	Compact 4-way Flow Series Compact & Comfort				AUXG09KVLA	AUXG12KVLA	AUXG14KVLA	AUXG18KVLA	AUXG22KVLA	AUXG24KVLA							
	Circular Flow Series Comfort for Large Room		 18/22/24 30/36/45/54					AUXG18KRLB	AUXG22KRLB	AUXG24KRLB	AUXG30KRLB	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB			
Duct	Slim Duct		 09/12/14 18		ARXG09KLLAP	ARXG12KLLAP	ARXG14KLLAP	ARXG18KLLAP									
	Medium Static Pressure Duct Compact & Comfort		 12/14 18/22/24/30 36/45/54			ARXG12KHTAP	ARXG14KHTAP	ARXG18KHTAP	ARXG22KHTAP	ARXG24KHTAP	ARXG30KHTAP	ARXG36KHTAP	ARXG45KHTAP	ARXG54KHTAP			
	Medium Static Pressure Duct Standard								ARXG22KMLB	ARXG24KMLA	ARXG30KMLA	ARXG36KMLA	ARXG45KMLA				
	High Static Pressure Duct												ARXG45KHTA	ARXG54KHTA			
															ARYG60LHTA		
	Big Duct															ARYG72LHTA*	ARYG90LHTA*
Floor Compact & Comfort					AGYG09KVCA	AGYG12KVCA	AGYG14KVCA										
Ceiling			 18/22 24/30 36/45/54					ABYG18KRTA	ABYG22KRTA	ABYG24KRTA	ABYG30KRTA	ABYG36KRTA	ABYG45KRTA	ABYG54KRTA			

Feature

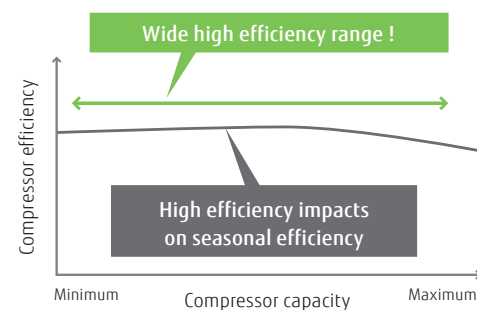
High Efficiency

ALL DC All DC Inverter Technology



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.



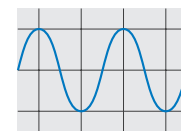
DC fan motor

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



Sine-wave DC inverter control

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



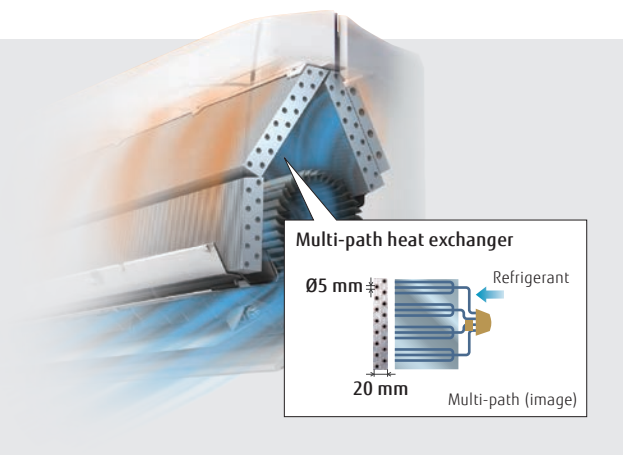
Heat Exchanger for Wall Mounted

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-split type, VRF)

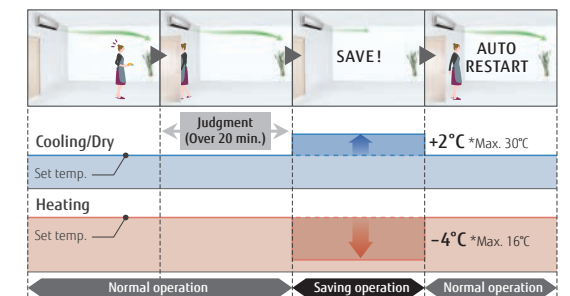


High Energy Saving



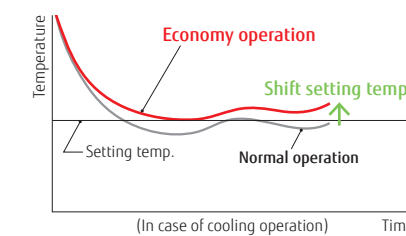
Human sensor control

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.



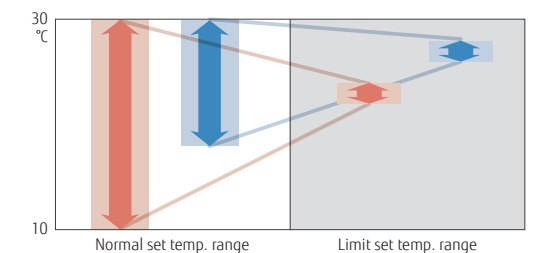
Economy operation

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



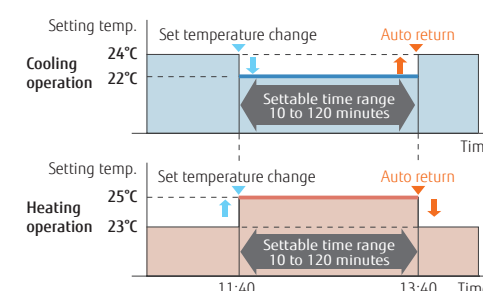
Room temperature set point limitation

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



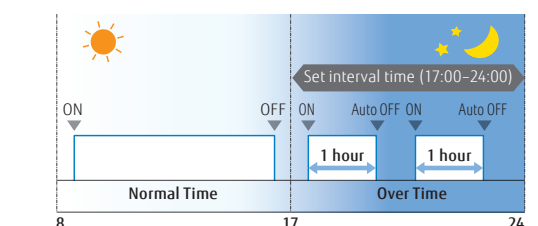
Set temperature auto return

- 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.

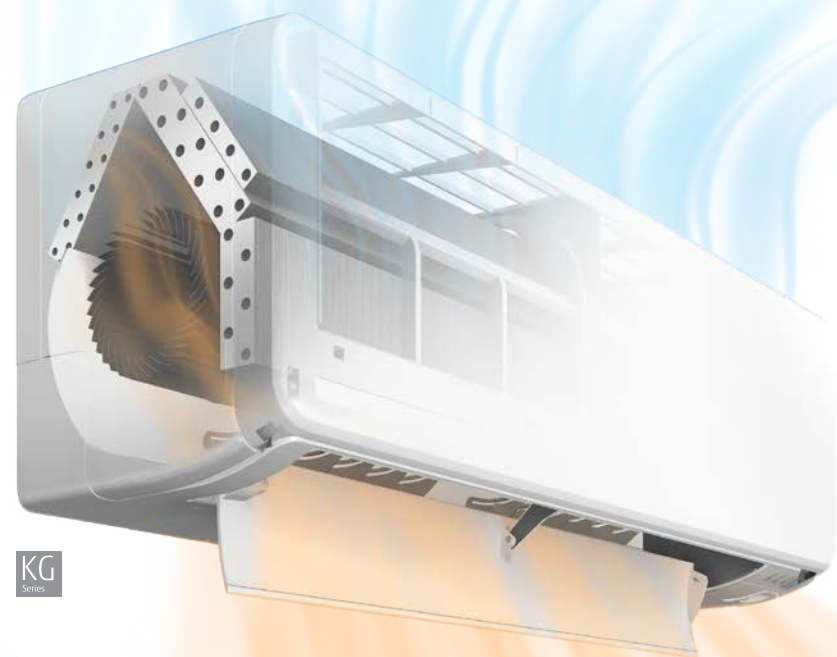


Auto-off timer

- 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



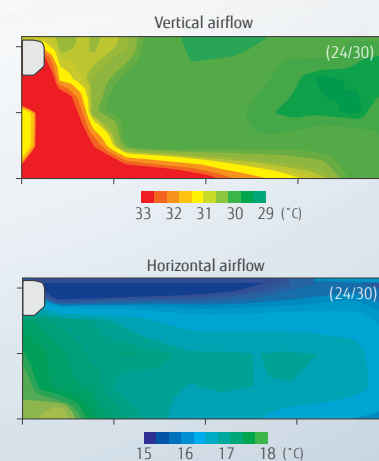
Powerful heating

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



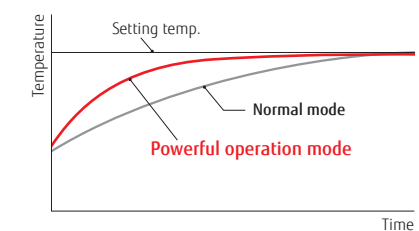
Power diffuser

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



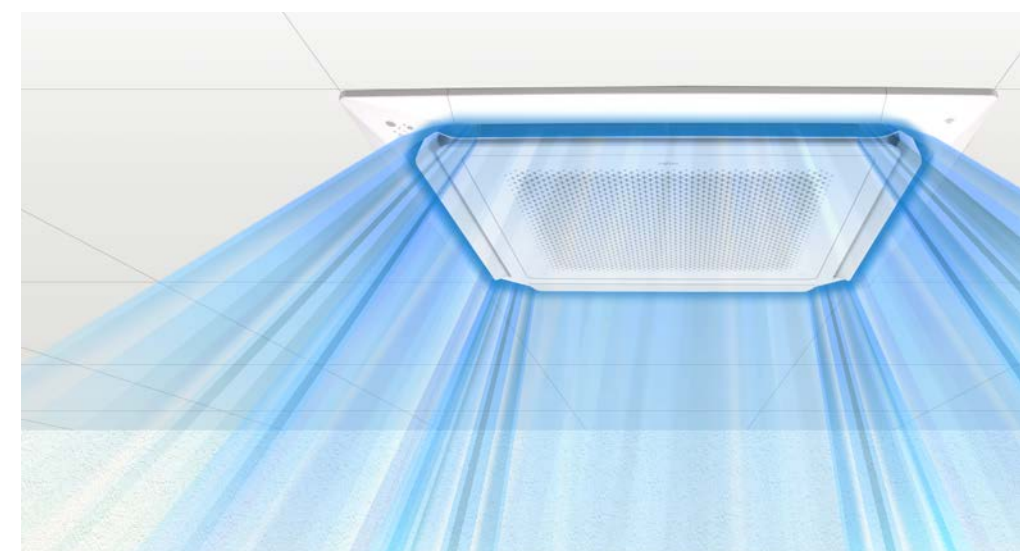
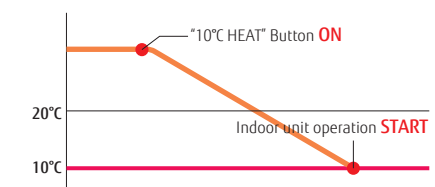
Powerful operation

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



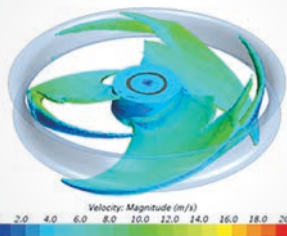
Quiet and Comfort Control



Low Noise Technology

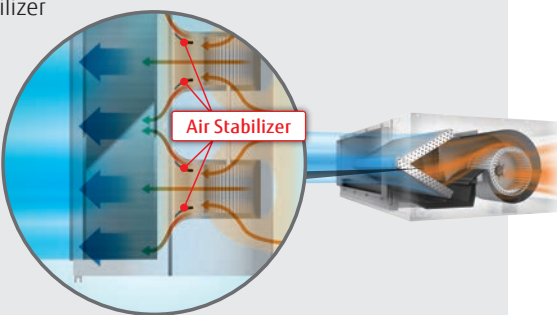
Outdoor unit fan

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



Air stabilizer in Duct

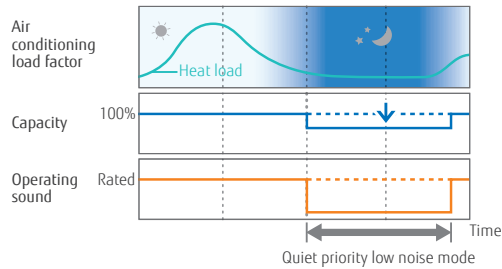
Low noise duct structure with a built-in air stabilizer





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.





Fresh air intake

for Cassette, Duct, Ceiling

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

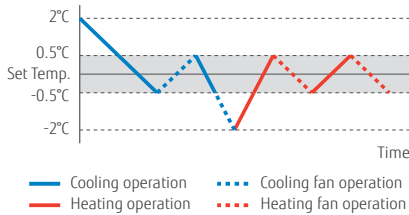


Fresh Air Intake kit



Auto-changeover function

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



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

Wall Mounted
Flagship Series

nocria™X



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



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

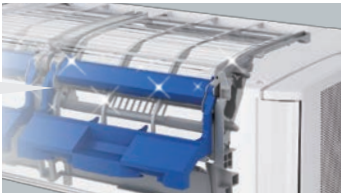


*1: Announced 2012. In room air conditioner for the home (Our company's investigation)

Filter Auto Clean



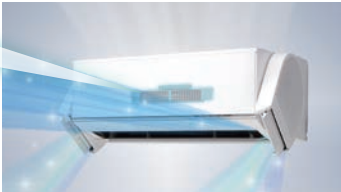
Dust on the filter is automatically removed to prevent power from being wasted by the clogged filter.



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

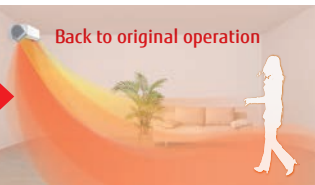
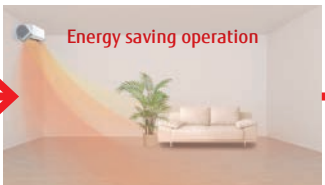
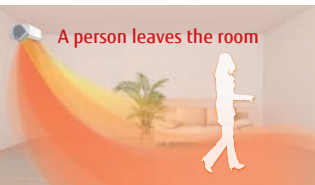
Plasma Air Clean

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

Model: ASYG12KXCA



Wireless R.C.



Wireless LAN Interface

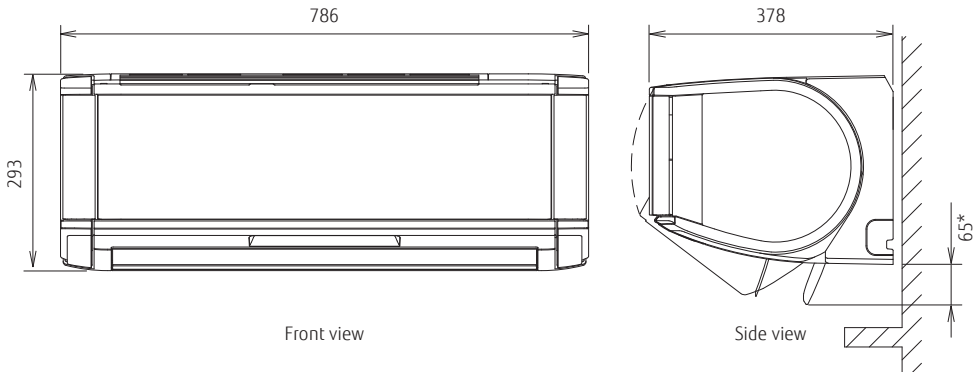


Specifications

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	46/42/38/28	
	Indoor (Heating)	H/M/L/Q	48/43/39/30	
Sound Power Level	Outdoor(Cooling/Heating)	High	44/43	
	Indoor(Cooling/Heating)	High	58/62	
	Outdoor(Cooling/Heating)	High	57/57	
	Indoor / Outdoor (Cooling)	High	670/2,230	
Airflow Rate	Indoor / Outdoor (Heating)	m³/h	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.)			11.8/15.0 to 16.8	
Max. Pipe Length (Pre-Charge)		m	15 (15)	
Max. Height Difference			10	
Operating Range	Cooling	°CDB	-10 to 43	
	Heating		-15 to 24	
Refrigerant	Type (Global Warming Potential)		R32 (675)	
	Charge	kg(CO2eq-T)	1.30 (0.878)	

Dimensions

(Unit : mm)



*Dimensions in case of air flowing downward

Wall Mounted Designer Series

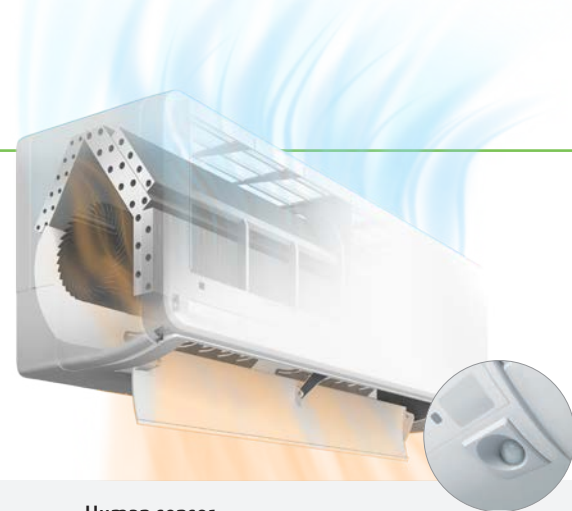
High Spec & Design



High energy saving

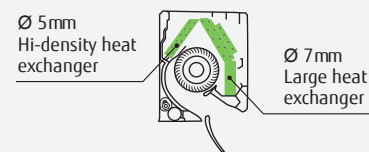
Top class high efficiency is achieved by high efficient lamda heat exchanger, large cross flow fan and new refrigerant.

Rank **A+++** ^{*1}
SEER **8.5** ^{*1} SCOP **5.1** ^{*1}
^{*1}: 07, 09, 12 models



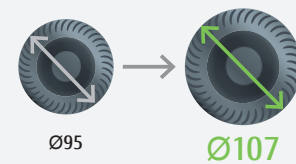
Hybrid-heat exchanger

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



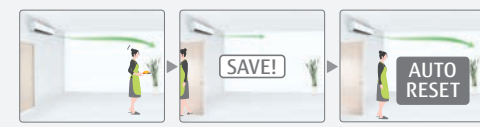
Ø107 Large cross-flow fan

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



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 (0.9-3.2)	2.5 (0.9-3.4)	3.4 (0.9-4.1)	4.2 (0.9-4.5)
	Heating	kW	2.5 (0.9-5.2)	2.8 (0.9-5.4)	4.0 (0.9-6.1)	5.4 (0.9-6.4)
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
	Heating	W/W	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)	W/W	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	kWh/a	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	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	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 (71)
Connection Pipe Diameter (Liquid / Gas)		mm	6.35/9.52			
Drain hose Diameter (I.D./O.D.)		mm	11.8/15.0 to 16.8			
Max. Pipe Length (Pre-Charge)		m	20 (15)			
Max. Height Difference		m	15			
Operating Range	Cooling	°CDB	-10 to 46			
	Heating	°CDB	-15 to 24			
Refrigerant	Type (Global Warming Potential)		R32 (675)			
	Charge	kg(CO2eq-T)	0.75 (0.506)	0.75 (0.506)	0.85 (0.574)	0.85 (0.574)

Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

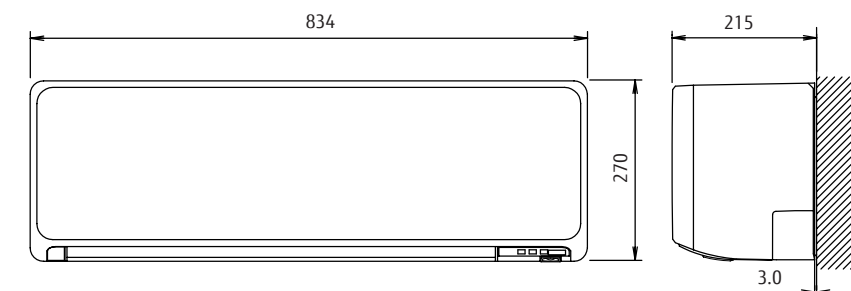
Compact Wired Remote Controller: UTY-RCRYZ1
Wired Remote Controller (Touch Panel): UTY-RNRYZ3
Wired Remote Controller: UTY-RLRY
Simple Remote Controller (Without operation mode): UTY-RHRY
Simple Remote Controller: UTY-RSRY

External Switch Controller: UTY-TERX
Wireless LAN Interface: UTY-TFSXW1
Communication Kit: UTY-TWRXZ2
External input and output PCB: UTY-XCSXZ2
External Connect Kit: UTY-XWZX

Network Converter for single split (DC power supply type): UTY-VTGX
Network Converter for single split (AC power supply type): UTY-VTGXV

Dimensions

(Unit : mm)



Wall Mounted
Designer Series
Cool Beauty Design



Cool Beauty Design

What we aim is a well-designed air conditioner especially for Europe. It is different from Japanese one harmonized with its surroundings and it appeals comfortable elegant feeling in the room. Light-elegant and three-dimensional expression composed of curved surface is beautiful from anywhere.



CMF : COLOR MATERIAL FINISH
The texture of the front panel expresses craftsmanship existing in Europe.The texture changes the expression by the changing light of the day.

High energy saving

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

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

SEER
7.4^{*1}

SCOP
4.4^{*2}

^{*1}: 07/09 models

^{*2}: 12 model

Hybrid-heat exchanger

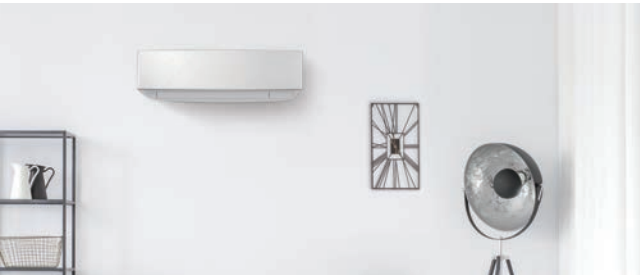
Ø 5mm
Hi-density heat exchanger

Ø 7mm
Large heat exchanger

Ø107 Large cross-flow fan

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.



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.

When you add our Wireless Interface and FGLair app, you can control your home's cooling and heating anytime and anywhere.

Wireless LAN Interface (USB)

Model: ASYG07KETA / ASYG09KETA / ASYG12KETA / ASYG14KETA
ASYG07KETA-B / ASYG09KETA-B / ASYG12KETA-B / ASYG14KETA-B



Peal white X White



Silver X Dark gray



Wireless R.C.



For ASYG07/09/12KETA
ASYG07/09/12KETA-B



For ASYG14KETA
ASYG14KETA-B

Specifications

Model No.	Indoor unit		ASYG07KETA ASYG07KETA-B	ASYG09KETA ASYG09KETA-B	ASYG12KETA ASYG12KETA-B	ASYG14KETA ASYG14KETA-B
	Outdoor unit		A0YG07KETA	A0YG09KETA	A0YG12KETA	A0YG14KETA
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	6.9
SCOP	Heating (Average)		4.10	4.10	4.40	4.1
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	1,367
Moisture Removal		l/h	1.0	1.3	1.8	2.1
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	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	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 × W × D	Indoor	mm	295 × 950 (wall side : 840) × 230			
Weight	Outdoor	mm	541 × 663 × 290	541 × 663 × 290	541 × 663 × 290	542 × 799 × 290
	Indoor	kg(lbs)	11(24)	11(24)	11(24)	11.5(25)
	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.)			13.8/15.0 to 16.8	13.8/15.0 to 16.8	13.8/15.0 to 16.8	13.8/15.0 to 16.8
Max. Pipe Length (Pre-Charge)		m	20 (15)	20 (15)	20 (15)	20 (15)
Max. Height Difference			15	15	15	15
Operating 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)	kg(CO2eq-T)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge		0.6 (0.405)	0.6 (0.405)	0.7 (0.473)	0.85 (0.574)

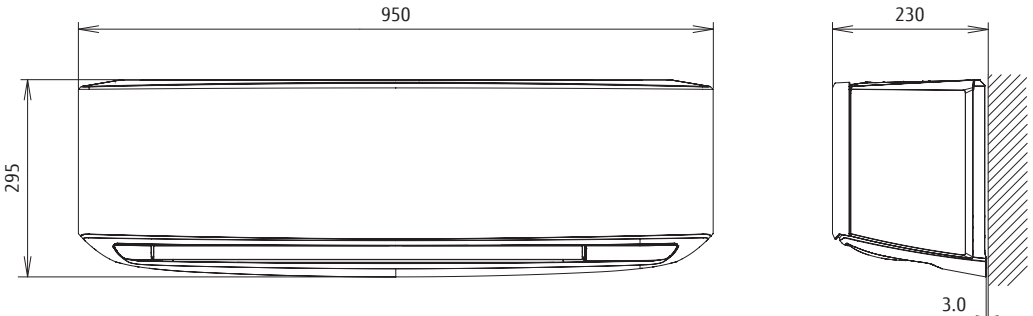
Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

Compact Wired Remote Controller:	UTY-RCRYZ1	Communication Kit:	UTY-TWRXZ2	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	External input and output PCB:	UTY-XCSXZ2	Network Converter for single split (AC power supply type):	UTY-VTGXV
Wired Remote Controller:	UTY-RLRY	External Connect Kit:	UTY-XWZXZ5		
Simple Remote Controller (Without operation mode):	UTY-RHRY	External Switch Controller:	UTY-TERX		
Simple Remote Controller:	UTY-RSRY	Wireless LAN Interface:	UTY-TFSXF2		

Dimensions

(Unit : mm)



Wall Mounted Standard Series

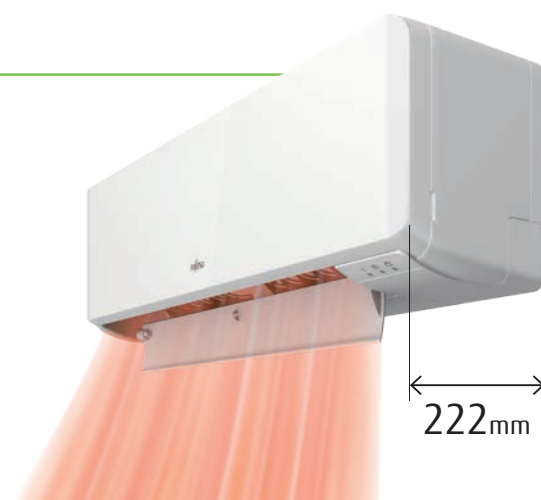
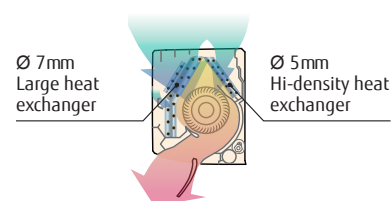
High Efficiency & Comfort



Slim & stylish square design

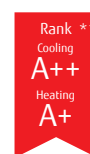
Slim and stylish square design is realized by high density multi-path heat exchanger and high efficiency wind blower.

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.



SEER
7.4

*1: 07/09 models

SCOP
4.4

*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: ASYG07KMCC / ASYG09KMCC / ASYG12KMCC / ASYG14KMCC



Wireless R.C.



For ASYG07/09/12KMCC



For ASYG14KMCC

Specifications

Model No.	Indoor unit		ASYG07KMCC	ASYG09KMCC	ASYG12KMCC	ASYG14KMCC
	Outdoor unit		AOYG07KMCC	AOYG09KMCC	AOYG12KMCC	AOYG14KMCC
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	kW	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
	Heating	W/W	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)	W/W	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	kWh/a	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	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
Sound Power Level	Outdoor(Cooling/Heating)	High	46/46	46/46	50/50	50/50
	Indoor(Cooling/Heating)	High	54/56	55/57	55/58	57/59
Airflow Rate	Indoor / Outdoor (Cooling)	High	650/1,650	700/1,650	700/1,700	770/1,680
	Indoor / Outdoor (Heating)	High	720/1,450	750/1,450	780/1,470	820/1,580
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)	22 (49)	22 (49)	24 (53)	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.)		mm	11.8/15.0 to 16.8	11.8/15.0 to 16.8	11.8/15.0 to 16.8	11.8/15.0 to 16.8
Max. Pipe Length (Pre-Charge)		m	20 (15)	20 (15)	20 (15)	20 (15)
Max. Height Difference			15	15	15	15
	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46
Operating Range	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24	-15 to 24
	Type (Global Warming Potential)		R32 (675)	R32 (675)	R32 (675)	R32 (675)
Refrigerant	Charge	kg(CO2eq-T)	0.6 (0.405)	0.6 (0.405)	0.7 (0.473)	0.85 (0.574)

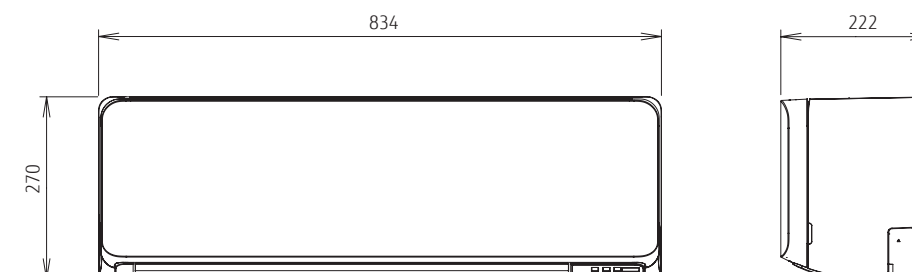
Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

Wired Remote Controller:	UTY-RNNYM	Wireless LAN Interface:	UTY-TFSXW1
	UTY-RVNYM	External Switch Controller:	UTY-TERX
Simple Remote Controller:	UTY-RSNYM	Network Converter for single split (DC power supply type):	UTY-VTGX
External connect kit:	UTY-XWZX25	Network Converter for single split (AC power supply type):	UTY-VTGXV
Communication kit:	UTY-TWBXF2		

Dimensions

(Unit : mm)



Wall Mounted
Standard Series
High Efficiency & Large Room



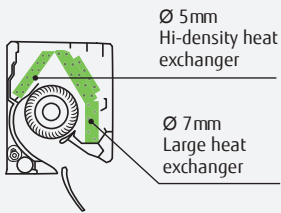
High energy saving

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



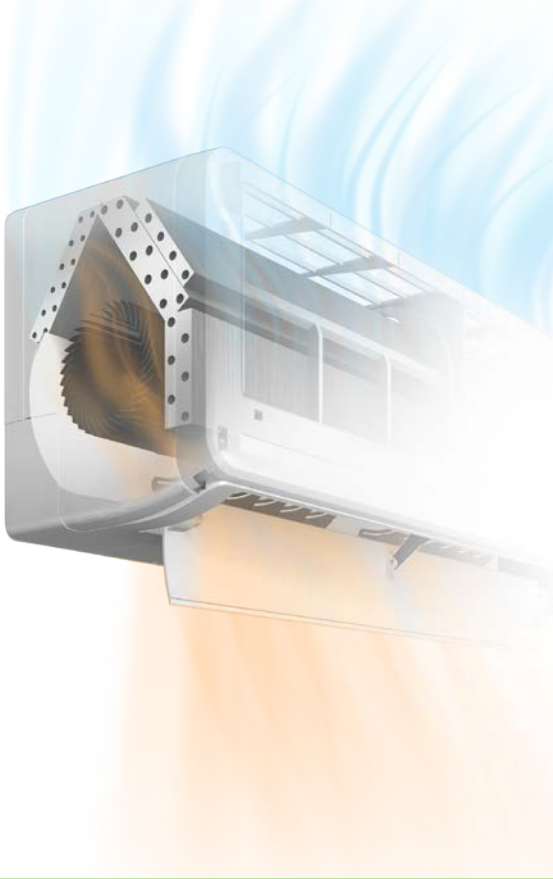
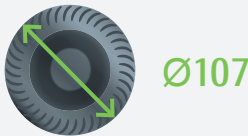
Hybrid-heat exchanger

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



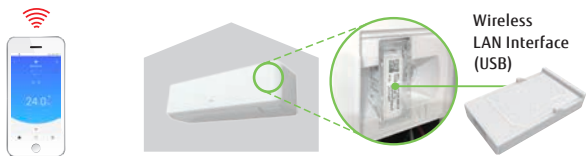
Ø107 Large cross-flow fan

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

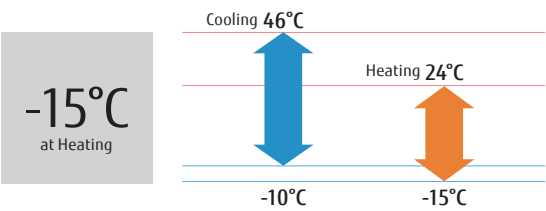


Smart device Control (Option)

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



Model: ASYG18KMTB / ASYG24KMTB



Wireless R.C.



For ASYG18KMTB



For ASYG24KMTB

Specifications

Model No.	Indoor unit		ASYG18KMTB		ASYG24KMTB	
	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			I/h	1.7		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
Sound Power Level	Outdoor(Cooling/Heating)	High		50/50		54/52
	Indoor(Cooling/Heating)	High		60/61		65/65
	Outdoor(Cooling/Heating)	High		65/65		67/66
	Indoor / Outdoor (Cooling)	High		980/2,350		1,170/3,240
Airflow Rate	Indoor / Outdoor (Heating)	High	m³/h	1,020/2,100		1,170/2,820
Net Dimensions H x W x D	Indoor	mm	280 × 980 × 240		280 × 980 × 240	
Weight	Outdoor	mm	632 × 799 × 290		716 × 820 × 315	
	Indoor	kg(lbs)	12.5(28)		12.5(28)	
	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	
Operating 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)	

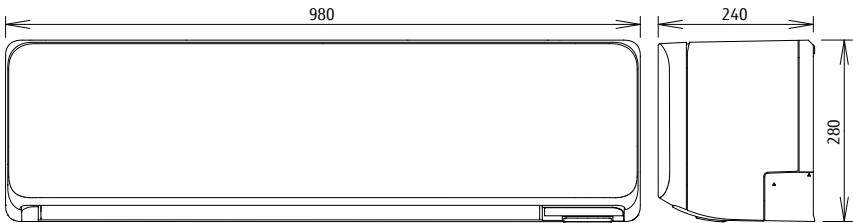
Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

Compact Wired Remote Controller:	UTY-RCRYZ1	Communication Kit:	UTY-TWRXZ2	Network Convertor for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	External input and output PCB:	UTY-XCSXZ2	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Wired Remote Controller:	UTY-RLRY	External Connect Kit:	UTY-XWZXZ5		
Simple Remote Controller (Without operation mode):	UTY-RHRY	Wireless LAN Interface:	UTY-TFSXF2		
Simple Remote Controller:	UTY-RSRY	External Switch Controller:	UTY-TERX		

Dimensions

(Unit : mm)



Wall Mounted
Standard Series
High Efficiency & Large Room



Small and light weight outdoor unit

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



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.



Adopting new refrigerant R32

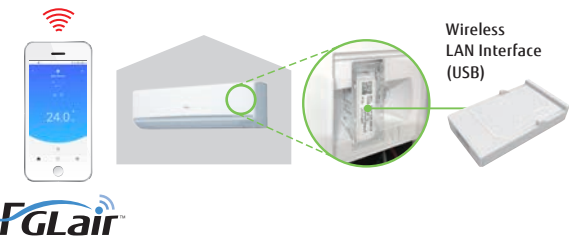
R32 refrigerant is highly environmentally friendly for the reduction of the global warming potential than other refrigerant currently available on the market.



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.

When you add our Wireless Interface and FGLair app, you can control your home's cooling and heating anytime and anywhere.



Model: ASYG30KMTA / ASYG36KMTA



Wireless R.C.



Specifications

Model No.	Indoor unit		ASYG30KMTA		ASYG36KMTA	
	Outdoor unit		AOYG30KMTA		AOYG36KMTA	
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	2.33/2.20		3.16/2.73	
EER	Cooling	W/W	3.43		2.97	
COP	Heating		4.00		3.70	
Pdesign	Cooling/Heating (-10°C)	kW	8.0/6.5		9.4/7.1	
SEER	Cooling	W/W	6.67		6.14	
SCOP	Heating (Average)		4.54		4.52	
Energy Efficiency Class	Cooling	A++		A++		
	Heating (Average)	A+		A+		
Max. Operating Current	Cooling/Heating	A	21.0/21.0		21.5/21.5	
Annual Energy Consumption	Cooling	kWh/a	419		535	
	Heating		2,001		2,198	
Moisture Removal			I/h	2.6	3.8	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	50/44/40/33	50/44/40/33	
	Indoor (Heating)	H/M/L/Q		49/44/39/33	49/44/39/33	
Sound Power Level	Outdoor (Cooling/Heating)	High		53/55	55/55	
	Indoor (Cooling/Heating)	High		65/65	65/65	
	Outdoor (Cooling/Heating)	High		68/69	70/70	
	Indoor / Outdoor (Cooling)	High		1,330/3,750	1,330/3,750	
Airflow Rate	Indoor / Outdoor (Heating)	High	m³/h	1,330/3,750	1,330/3,750	
Net Dimensions H x W x D	Indoor	mm	340 × 1,150 × 280		340 × 1,150 × 280	
Weight	Outdoor	mm	788 × 940 × 320		788 × 940 × 320	
	Indoor	kg (lbs)	18.5 (41)		18.5 (41)	
	Outdoor	kg (lbs)	52.0 (115)		52.0 (115)	
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 (30)		50 (30)	
Max. Height Difference			30		30	
Operating Range	Cooling	°CDB	-15to46		-15to46	
	Heating		-15to24		-15to24	
Refrigerant	Type (Global Warming Potential)		R32 (675)		R32 (675)	
	Charge	kg(CO2eq-T)	1.90 (1.283)		1.90 (1.283)	

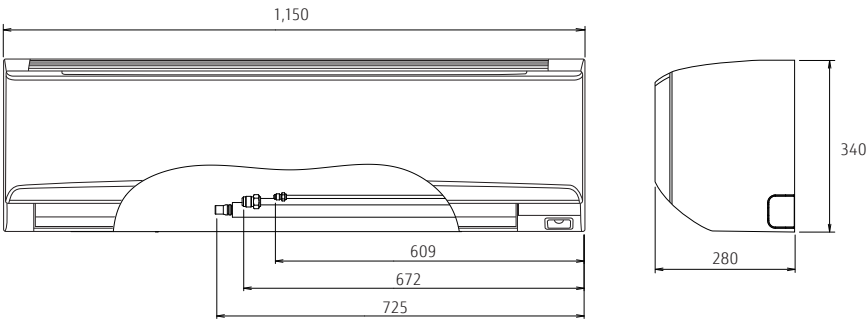
Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

Compact Wired Remote Controller:	UTY-RCRYZ1	External Connect Kit:	UTY-XWZX25	Network Convertor for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	External Input and Output PCB:	UTY-XCSXZ2	Network Convertor for single split (AC power supply type):	UTY-VTGXV
Wired Remote Controller:	UTY-RLRY	Communication Kit:	UTY-TWRXZ2		
Simple Remote Controller (Without operation mode):	UTY-RHRY	Wireless LAN Interface:	UTY-TFSXF2		
Simple Remote Controller:	UTY-RSRY	External Switch Controller:	UTY-TERX		

Dimensions

(Unit : mm)



Wall Mounted
ECO Series
Compact & Comfort



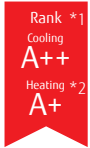
Slim & stylish square design

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.



SEER
6.7^{*1}

*1: 07/09 models

SCOP
4.1^{*2}

*2: 12 model

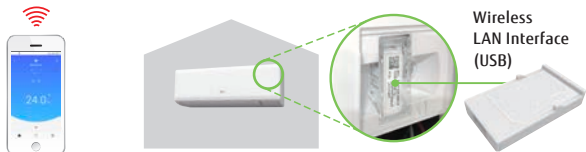
Comfortable airflow & Silent operation

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.

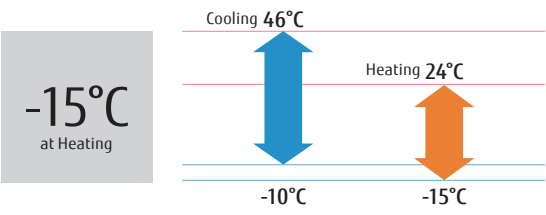


Smart device Control (Option)

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



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	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
	Indoor(Cooling/Heating)	High	57/58	58/58	59/59
Sound Power Level	Outdoor(Cooling/Heating)	High	57/58	59/59	62/62
	Indoor / Outdoor (Cooling)	High	580/1,650	580/1,650	630/1,700
Airflow Rate	Indoor / Outdoor (Heating)	High	580/1,450	580/1,450	630/1,470
Net Dimensions H x W x D	Indoor	mm	270 × 784 × 224	270 × 784 × 224	270 × 784 × 224
	Outdoor	mm	541 × 663 × 290	541 × 663 × 290	541 × 663 × 290
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.)			11.8/15.0 to 16.8	11.8/15.0 to 16.8	11.8/15.0 to 16.8
Max. Pipe Length (Pre-Charge)		m	20 (15)	20 (15)	20 (15)
Max. Height Difference			15	15	15
Operating 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)

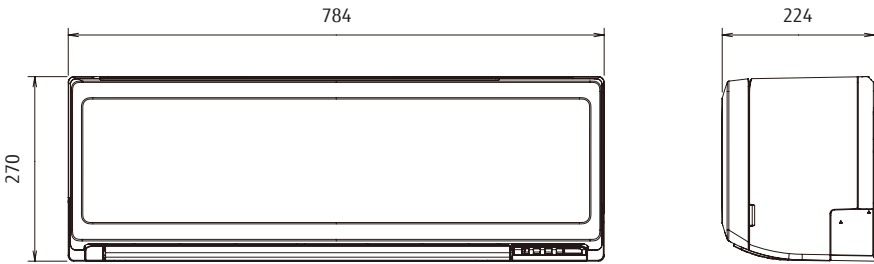
Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

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

Dimensions

(Unit : mm)



Wall Mounted ECO Series Comfort for Large Room



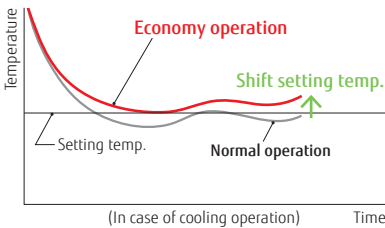
Narrow width & Compact Design

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.



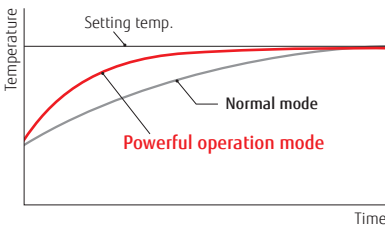
Economy operation

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



Powerful operation

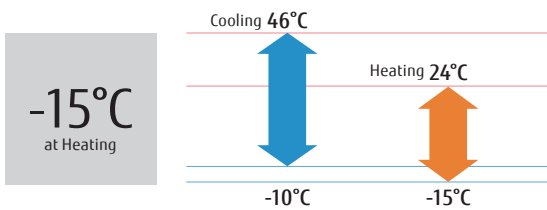
20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.



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



Model: ASYG18KLCA / ASYG24KLCA



Wireless R.C.



For ASYG18KLCA



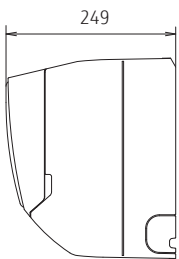
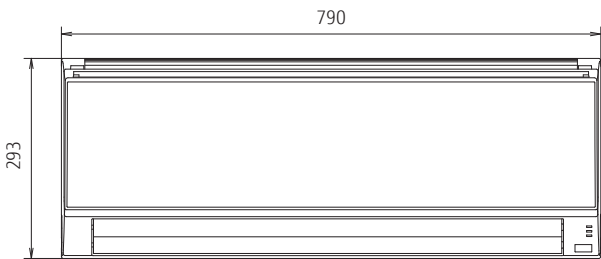
For ASYG24KLCA

Specifications

Model No.	Indoor unit		ASYG18KLCA		ASYG24KLCA		
	Outdoor unit		AOYG18KLCA		AOYG24KLCA		
Power Source			Single phase, ~230V, 50Hz				
Capacity	Cooling	kW	5.2(0.9~5.5)		7.1(0.9~7.7)		
	Heating		6.3(0.6~7.6)		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	
Sound Power Level	Outdoor(Cooling/Heating)	High		50/56		55/57	
	Indoor(Cooling/Heating)	High		60/65		64/65	
	Outdoor(Cooling/Heating)	High		61/66		65/67	
	Indoor / Outdoor (Cooling)	High		865/1,830		1,040/2,885	
Airflow Rate	Indoor / Outdoor (Heating)	High	m³/h	995/2,265		1,040/3,030	
Net Dimensions H × W × 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	
Operating 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)



Compact Cassette

Compact 4-way Flow Series

Compact & Comfort



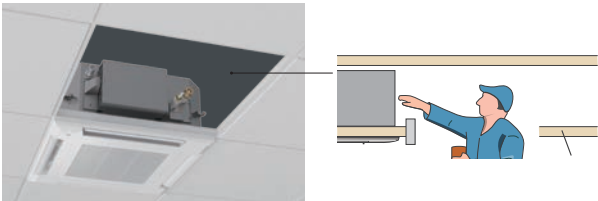
Compact and stylish panel design

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.

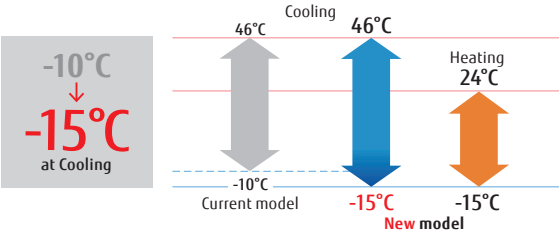


Flexible installation

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



Model: AUXG09KVLA / AUXG12KVLA / AUXG14KVLA / AUXG18KVLA / AUXG22KVLA / 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		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		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)		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	7.9/7.9	9.7/7.9	10.2/10.2	12.1/12.1	12.6/12.6	13.6/13.6
Annual Energy Consumption	Cooling	kWh/a	131	186	231	275	318	390
	Heating		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	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	34/32/29/27	37/34/31/29	43/38/34/30	43/38/34/30	45/43/40/33	49/45/40/33
	Outdoor(Cooling/Heating)	High	46/46	47/47	49/49	50/50	51/51	53/54
Sound Power Level	Indoor(Cooling/Heating)	High	46/47	49/49	50/55	50/55	56/57	59/61
	Outdoor(Cooling/Heating)	High	59/59	61/61	62/62	62/62	63/63	65/66
Airflow Rate	Indoor / Outdoor (Cooling)	High	540/1,480	600/1,580	680/1,670	680/2,160	830/2,240	930/2,700
	Indoor / Outdoor (Heating)	High	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	245 x 570 x 570	245 x 570 x 570	245 x 570 x 570	245 x 570 x 570	245 x 570 x 570	245 x 570 x 570
	Outdoor	mm	542 x 799 x 290	542 x 799 x 290	542 x 799 x 290	632 x 799 x 290	632 x 799 x 290	716 x 820 x 315
	Indoor	kg(lbs)	15 (33)	15 (33)	15 (33)	15 (33)	16 (35)	16 (35)
Weight	Outdoor	kg(lbs)	32 (71)	33 (73)	33 (73)	36 (79)	38 (84)	42 (93)
	Connection Pipe Diameter (Liquid / Gas)		6.35/9.52	6.35/9.52	6.35/9.52	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			15	20	20	20	25	25
Operating 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)	kg(CO2eq-T)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge		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	mm	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W
	Dimensions (H x W x D)		49x620x620	49x620x620	49x620x620	49x620x620	49x620x620	49x620x620
	Weight		2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)

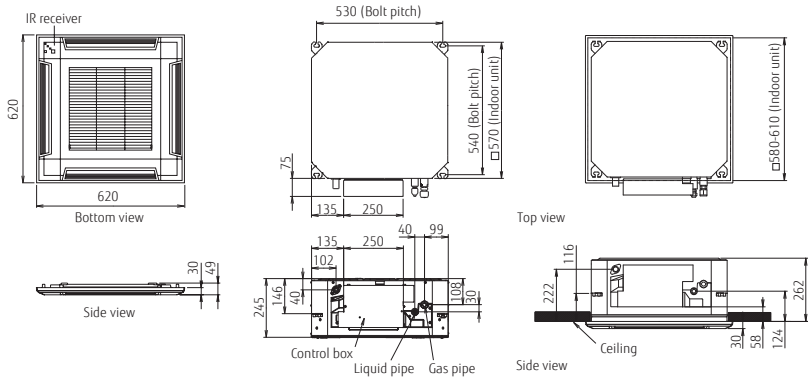
Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

Compact Wired Remote Controller:	UTY-RCRYZ1	Wireless Remote Controller:	UTY-LNTY	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	External Switch Controller:	UTY-TERX	Network Converter for single split (AC power supply type):	UTY-VTGXV
Wired Remote Controller:	UTY-RLRY	Wireless LAN Interface:	UTY-TFSXZ1	Insulation Kit For High Humidity:	UTZ-KXGC
	UTY-RNNYM		FJ-RC-WIFI-1	External input and output PCB:	UTY-XCSX
	UTY-RVNYM	Air Outlet Shutter Plate:	UTR-YDZB	External input and output PCB Box:	UTZ-GXRA
Simple Remote Controller (Without operation mode):	UTY-RHRY	External Connect Kit:	UTY-XWZXZG		
Simple Remote Controller:	UTY-RSRY	Cassette Grille:	UTG-UFYF-W		
	UTY-RSNYM	Fresh Air Intake Kit:	UTZ-VXAA		

Dimensions

(Unit : mm)



Cassette

Circular Flow Series

Comfort for Large Room



(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



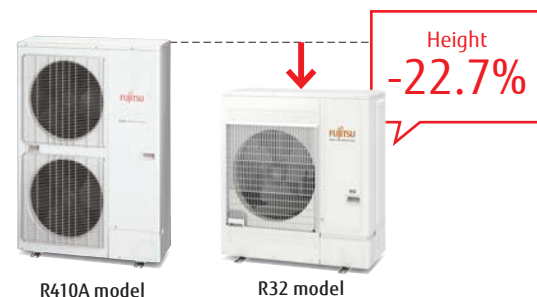
Comfortable air conditioning by preventing direct blowing of cold air and by providing swinging air flow simultaneously.

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.

Compact and lightweight outdoor unit

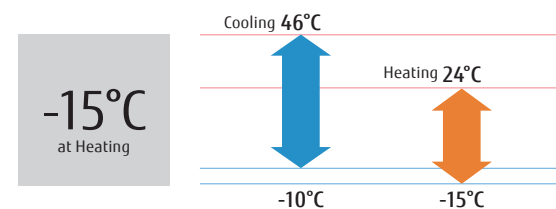
45/54 models outdoor unit was changed completely. Easier installation was realized by compact and lightweight outdoor unit.



R410A model

R32 model

Low ambient operation

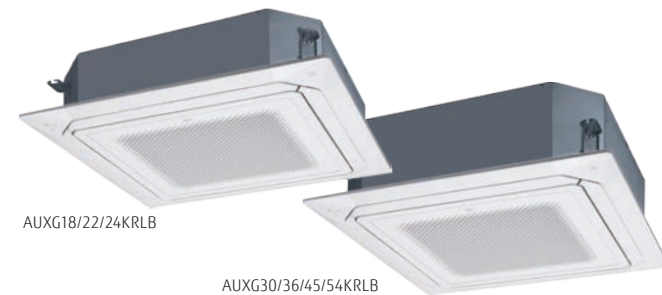


Various Cassette Grille

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 controllerUTG-UKYA-B
Black Color GrilleUTG-UKYC-W
White Color Grille

Model: AUXG18KRLB / AUXG22KRLB / AUXG24KRLB / AUXG30KRLB / AUXG36KRLB / AUXG45KRLB / AUXG54KRLB
AUXG36KRLB [3 phase] / AUXG45KRLB [3 phase] / AUXG54KRLB [3 phase]



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	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB		
	Outdoor unit		AOYG18KBTB	AOYG22KBTB	AOYG24KBTB	AOYG30KBTB	AOYG36KBTB	AOYG45KBTB	AOYG54KBTB	AOYG36KRTA	AOYG45KRTA	AOYG54KRTA		
Power Source			Single phase, ~230V, 50Hz									3 phase, ~400V, 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)	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)	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	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	3.26	3.35	3.04		
COP	Heating		3.80	3.85	3.95	3.98	4.40	4.20	3.73	4.20	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	-	-	9.5/8.7	-	-		
SEER	Cooling	W/W	7.00	7.00	6.60	6.70	6.55	-	-	6.55	-	-		
SCOP	Heating (Average)		4.30	4.40	4.20	4.30	4.30	-	-	4.30	-	-		
Energy Efficiency Class	Cooling	A	A++	A++	A++	A++	A++	-	-	A++	-	-		
	Heating (Average)		A+	A+	A+	A+	-	-	A+	-	-			
Max. Operating Current	Cooling/Heating	A	12.1/12.1	12.6/12.6	13.6/13.6	22.6/22.6	22.6/22.6	28.5/28.5	28.5/28.5	10.5/10.5	14.0/14.0	14.0/14.0		
Annual Energy Consumption	Cooling	kWh/a	260	300	360	444	507	-	-	507	-	-		
	Heating		1,431	1,527	1,999	2,601	2,828	-	-	2,828	-	-		
Moisture Removal		l/h	1.5	2.2	2.7	2.5	3.3	4.5	5.0	3.3	4.5	5.0		
Sound Pressure Level	Indoor (Cooling)	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	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	44/41/38/34	46/42/39/35	47/43/40/36		
Sound Power Level	Outdoor(Cooling/Heating)	High	50/50	51/51	53/54	53/55	55/55	57/57	57/59	51/55	53/55	57/59		
	Indoor(Cooling/Heating)	High	47/47	49/49	49/49	54/54	58/58	60/60	61/61	58/58	60/60	61/61		
Airflow Rate	Indoor(Cooling/Heating)	High	62/62	63/63	65/66	68/69	70/70	71/71	73/73	70/70	71/71	73/73		
	Indoor / Outdoor (Cooling)	High	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	1,870/3,750	2,000/4,450	2,100/4,450		
Airflow Rate	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	1,870/3,750	2,000/4,450	2,100/4,450		
	Net Dimensions H x W x D	Indoor	mm	246 × 840 × 840	246 × 840 × 840	246 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840		
Weight	Outdoor	mm	632 × 799 × 290	632 × 799 × 290	716 × 820 × 315	788 × 940 × 320	788 × 940 × 320	998 × 940 × 320	998 × 940 × 320	788 × 940 × 320	998 × 940 × 320	998 × 940 × 320		
	Indoor	kg(lbs)	23 (51)	23 (51)	24 (53)	26 (57)	29 (64)	29 (64)	29 (64)	29 (64)	29 (64)	29 (64)		
Weight	Outdoor	kg(lbs)	36 (79)	38 (84)	42 (93)	52 (115)	52 (115)	67 (148)	67 (148)	53 (117)	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	9.52/15.88	9.52/15.88	9.52/15.88		
Drain hose Diameter (I.D./O.D.)		mm	25/32	25/32	25/32	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)	50 (30)	50 (30)	50 (30)		
Max. Height Difference		m	20	25	25	30	30	30	30	30	30	30		
Operating 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	-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	-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)	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)	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 UTG-UKYC-W: White Color / UTG-UKYA-B*1: Black Color							UTG-UKYA-W: White Color with touch panel wired remote controller UTG-UKYC-W: White Color / UTG-UKYA-B*1: Black Color				
	Dimensions (H × W × D)	mm	53x950x950	53x950x950	53x950x950	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)	6.0 (13)	6.0 (13)	6.0 (13)		

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

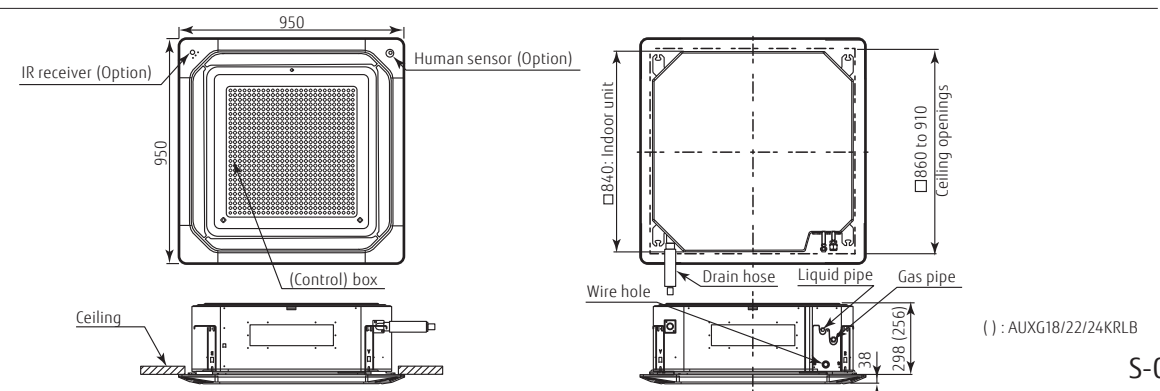
Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

Compact Wired Remote Controller:	UTY-RCRYZ1	Wireless LAN Interface:	UTY-TFSXZ1	Cassette Grille:	UTG-UKYA-B
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3		FJ-RC-WIFI-1		UTG-UKYA-W
Wired Remote Controller:	UTY-RLRY	External input and output PCB:	UTY-XCSX		UTG-UKYC-W
	UTY-RNNYM	External input and output PCB Box:	UTZ-GXRA	Air Outlet Shutter Plate:	UTR-YDZK
	UTY-RVNYM	Insulation Kit For High Humidity:	UTZ-KXRA	Network Converter for single split (DC power supply type):	UTY-VTGX
	UTY-RHRY	Fresh Air Intake Kit:	UTZ-VXRA	Network Converter for single split (AC power supply type):	UTY-VTGXV
Simple Remote Controller (Without operation mode):	UTY-RSRY	Wide Panel:	UTG-AKXA-W		
Simple Remote Controller:	UTY-RSNYM	Panel Spacer:	UTG-BKXA-W		
Human Sensor Kit:	UTY-SHZXC	IR Receiver Unit	UTY-LBITYC	(Outdoor unit 30/36/45/54)	
External Switch Controller:	UTY-TERX	External Connect Kit:	UTY-XWZXZG	External Connect Kit:	UTY-XWZXZ3

Dimensions

(Unit : mm)



() : AUXG18/22/24KRLB

Slim Duct

Slim & Comfort



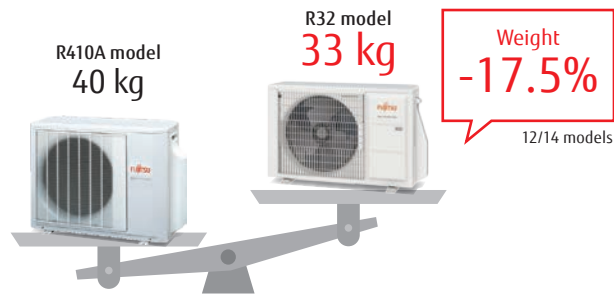
Slim design

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



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.



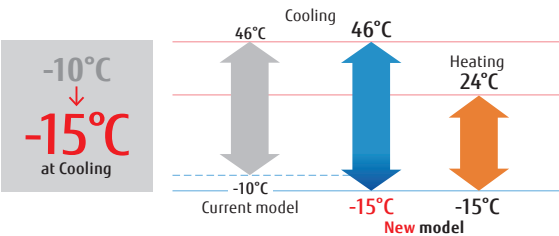
Static pressure range
0 to 90 Pa

Auto Louver Grille Kit (Option)

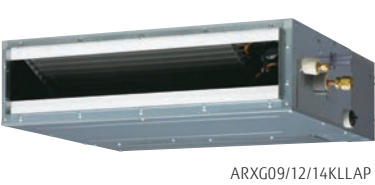
Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.



Low ambient operation



Model : ARXG09KLLAP / ARXG12KLLAP / ARXG14KLLAP / ARXG18KLLAP



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	7.9/7.9	9.7/9.7	10.2/10.2	12.1/12.1
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	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
	Indoor / Outdoor (Cooling)	High	600/1,480	650/1,580	800/1,670	940/2,160
Airflow Rate	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	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 900 × 620
	Outdoor	mm	542 × 799 × 290	542 × 799 × 290	542 × 799 × 290	632 × 799 × 290
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)			6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70
Drain hose Diameter (I.D./O.D.)		mm	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
Operating 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)

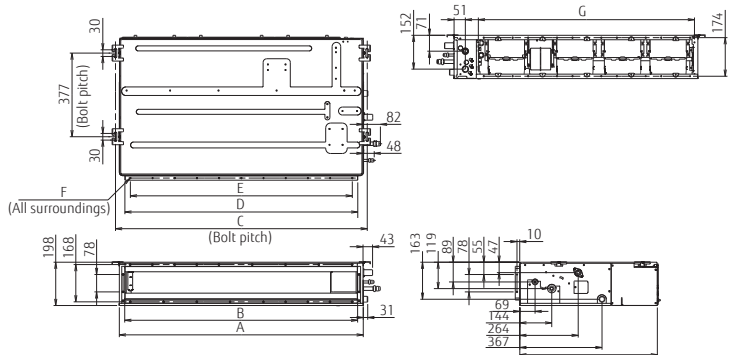
Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

Compact Wired Remote Controller:	UTY-RCRYZ1	External Switch Controller:	UTY-TERX	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	Wireless LAN Interface:	UTY-TFSXZ1	Network Converter for single split (AC power supply type):	UTY-VTGXV
Wired Remote Controller:	UTY-RLRY		FJ-RC-WIFI-1	External Connect Kit:	UTY-XWZXZG
	UTY-RNNYM	Remote Sensor Unit:	UTY-XSZX		
	UTY-RVNYM	Fresh Air Intake Kit:	UTZ-VXAA		
Simple Remote Controller (Without operation mode):	UTY-RHRY	Auto Louver Grille Kit:	UTD-GXTA-W (09-14)		
Simple Remote Controller:	UTY-RSRY		UTD-GXTB-W (18)		
	UTY-RSNYM	IR Receiver Unit:	UTY-LBTYM		

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

Medium Static Pressure Duct

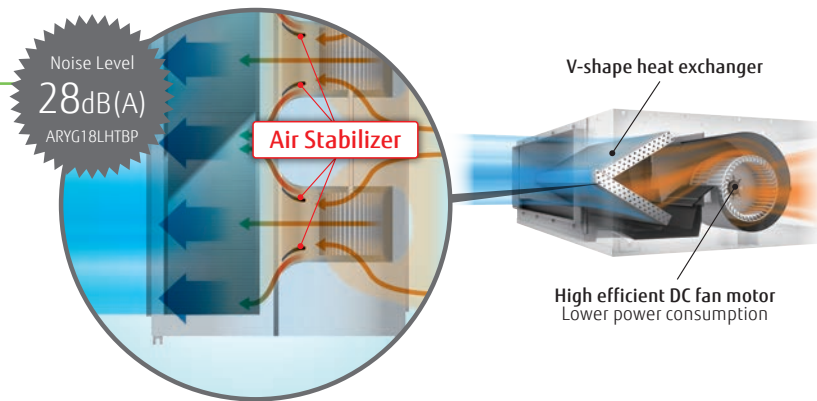
Compact & Comfort



(30/36/45/54)

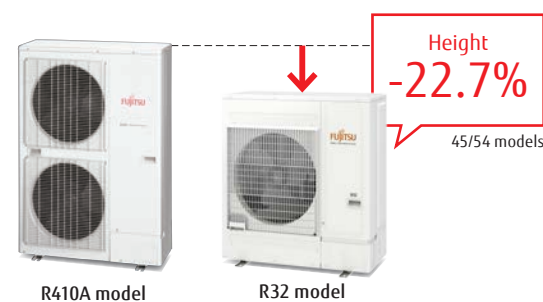
High Efficiency & Quiet operation

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.

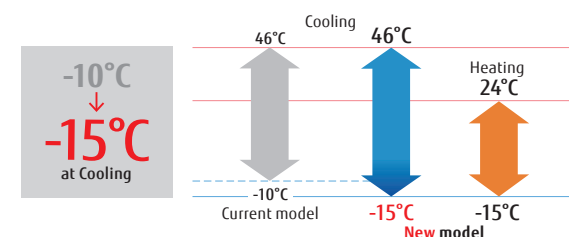


Automatic Airflow adjustment function

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
ARXG36KHTAP [3 phase] / ARXG45KHTAP [3 phase] / ARXG54KHTAP [3 phase]



Specifications

Model No.	Indoor unit		ARXG12KHTAP	ARXG14KHTAP	ARXG18KHTAP	ARXG22KHTAP	ARXG24KHTAP	ARXG30KHTAP	ARXG36KHTAP	ARXG45KHTAP	ARXG54KHTAP	ARXG36KHTA	ARXG45KHTA	ARXG54KHTA	
	Outdoor unit		AOYG12KHTB	AOYG14KHTB	AOYG18KHTB	AOYG22KHTB	AOYG24KHTB	AOYG30KHTB	AOYG36KHTB	AOYG45KHTB	AOYG54KHTB	AOYG36KHTA	AOYG45KHTA	AOYG54KHTA	
Power Source			Single phase, ~230V, 50Hz									3 phase, ~400V, 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)	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)	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	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	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	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	-	-	9.5/8.7	-	-	
SEER	Cooling	W/W	6.30	6.20	6.50	6.50	6.50	6.23	6.10	-	-	6.10	-	-	
SCOP	Heating (Average)		4.10	4.00	4.10	4.20	4.10	4.00	4.20	-	-	4.20	-	-	
Energy Efficiency Class	Cooling	A	A++	A++	A++	A++	A++	A++	A++	-	-	A++	-	-	
	Heating (Average)		A+	A+	A+	A+	A+	A+	A+	-	-	A+	-	-	
Max. Operating Current	Cooling/Heating	A	9.7/9.7	10.2/10.2	12.1/12.1	12.6/12.6	13.6/13.6	22.6/22.6	22.6/22.6	28.5/28.5	28.5/28.5	10.5/10.5	14.0/14.0	14.0/14.0	
Annual Energy Consumption	Cooling		kWh/a	194	243	280	323	366	477	544	-	-	544	-	-
	Heating	1,159		1,328	1,501	1,597	2,048	2,796	2,898	-	-	2,898	-	-	
Moisture Removal			I/h	0.7	0.9	1.2	1.5	1.8	2.3	2.0	2.6	3.7	2.0	2.6	3.7
Sound Pressure Level	Indoor (Cooling)	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	36/31/28/26	39/35/31/29	39/35/31/29	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	36/31/28/26	39/35/31/29	39/35/31/29	36/31/28/26	39/35/31/29	39/35/31/29	
Sound Power Level	Outdoor(Cooling/Heating)	dB(A)	47/47	48/49	50/50	51/51	53/54	53/55	55/55	57/57	57/59	55/55	57/57	57/59	
	Indoor(Cooling/Heating)		High	57/58	59/60	54/54	57/57	57/57	63/65	64/63	67/69	67/69	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	70/70	71/71	73/73	
	Indoor / Outdoor (Cooling)		High	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	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	1,850/3,750	2,550/4,450	2,550/4,450	1,850/3,750	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 (47)	30 to 200 (47)	30 to 200 (60)	30 to 200 (60)	30 to 200 (47)	30 to 200 (60)	30 to 200 (60)	
Net Dimensions	Indoor	mm	300 × 700 × 700	300 × 700 × 700	300 × 1,000 × 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	300 × 1,400 × 700	300 × 1,400 × 700	300 × 1,400 × 700	
H x W x D	Outdoor	mm	542 × 799 × 290	542 × 799 × 290	632 × 799 × 290	632 × 799 × 290	716 × 820 × 315	788 × 940 × 320	788 × 940 × 320	998 × 940 × 320	998 × 940 × 320	788 × 940 × 320	998 × 940 × 320	998 × 940 × 320	
Weight	Indoor	kg(lbs)	27 (60)	27 (60)	35 (77)	35 (77)	36 (79)	36 (79)	46 (101)	46 (101)	46 (101)	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)	52 (115)	67 (148)	67 (148)	
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/9.52	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	9.52/15.88	9.52/15.88	
Drain hose Diameter (I.D./O.D.)			mm	25/32	25/32	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)	50 (30)	50 (30)	
Max. Height Difference			m	20	20	20	25	25	30	30	30	30	30	30	
Operating 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	-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	-15 to 24	-15 to 24	-15 to 24	
Refrigerant	Type (Global Warming Potential)	kg(CO2eq-T)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	
	Charge		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)	1.90 (1.283)	2.70 (1.823)	2.70 (1.823)	

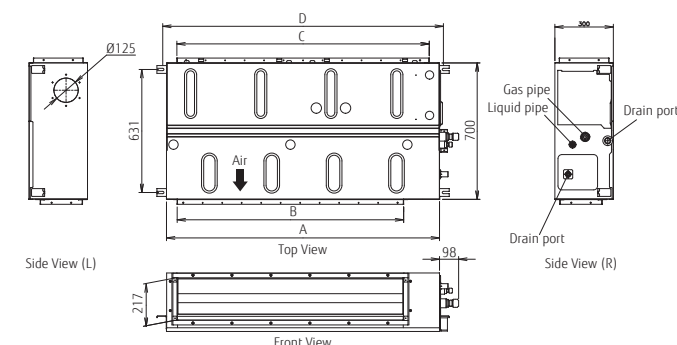
Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

Compact Wired Remote Controller:	UTY-RCRYZ1	External input and output PCB:	UTY-XCSX	Wireless LAN Interface:	UTY-TFSXZ1
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	External Connect Kit:	UTY-XWZXZG		FJ-RCWIFI-1
Wired Remote Controller:	UTY-RLRY	External input and output PCB:	UTZ-GXNA	IR Receiver Unit:	UTY-LBTYM
	UTY-RNNYM	Long-Life Filter:	UTD-LFNA (36-54)	Network Converter for single split (DC power supply type):	UTY-VTGX
	UTY-RVNYM		UTD-LFNB (18-30)	Network Converter for single split (AC power supply type):	UTY-VTGXV
Simple Remote Controller (Without operation mode):	UTY-RHRY		UTD-LFNC (12-14)		
Simple Remote Controller:	UTY-RSRY	External Switch Controller:	UTY-TERX	(Outdoor unit 30/36/45/54)	
	UTY-RSNYM	Remote Sensor Unit:	UTY-XSZX	External Connect Kit:	UTY-XWZXZ3

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 Standard



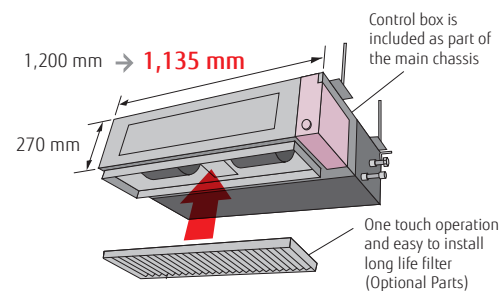
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Slim & Compact design

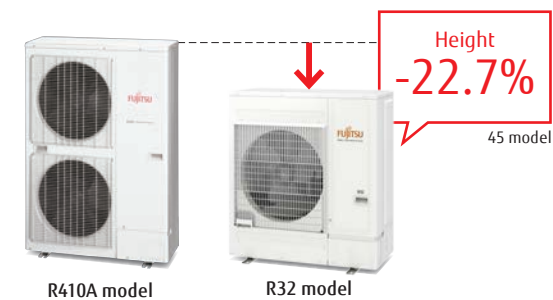
Indoor Unit

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.



Outdoor Unit

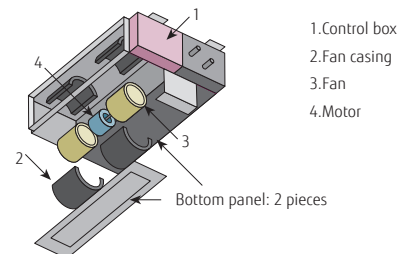
45 model outdoor unit was changed completely. Easier installation was realized by compact and lightweight outdoor unit.



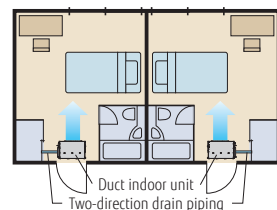
Easy maintenance

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.

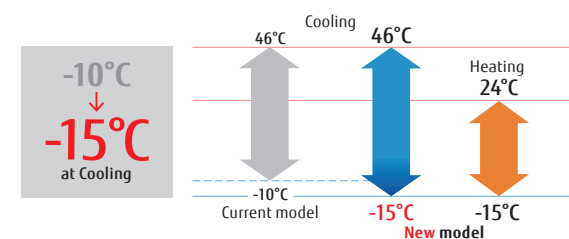
See below for the case of rear suction type



Two-direction drain piping



All class low ambient operation



Model : ARXG22KMLB / ARXG24KMLA / ARXG30KMLA / ARXG36KMLA / ARXG45KMLA
ARXG36KMLA [3 phase] / ARXG45KMLA [3 phase]



Specifications

Model No.	Indoor unit	ARXG22KMLB	ARXG24KMLA	ARXG30KMLA	ARXG36KMLA	ARXG45KMLA	ARXG36KMLA	ARXG45KMLA
	Outdoor unit	AOYG22KBTB	AOYG24KBTB	AOYG30KBTB	AOYG36KBTB	AOYG45KBTB	AOYG36KRTA	AOYG45KRTA
Power Source		Single phase, ~230V, 50Hz					3 phase, ~400V, 50Hz	
Capacity	Cooling	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)	9.5 (2.8-11.2)	12.1 (4.0-13.0)
	Heating	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)	10.8 (2.7-12.7)	13.5 (4.2-15.2)
Input Power	Cooling/Heating	1.78/1.87	2.14/1.97	2.65/2.63	2.97/2.88	4.22/3.84	2.97/2.88	4.22/3.84
EER	Cooling	3.37	3.18	3.21	3.20	2.87	3.20	2.87
COP	Heating	3.74	3.80	3.80	3.75	3.52	3.75	3.52
Pdesign	Cooling/Heating(-10°C)	6.0/4.8	6.8/6.0	8.5/8.0	9.5/8.7	-	9.5/8.7	-
SEER	Cooling	6.10	6.20	6.23	6.10	-	6.10	-
SCOP	Heating	4.10	4.10	4.00	4.00	-	4.00	-
Energy Efficiency Class	Cooling	A++	A++	A++	A++	-	A++	-
	Heating	A+	A+	A+	A+	-	A+	-
Max. Operating Current	Cooling/Heating	12.6/12.6	13.6/13.6	22.6/22.6	22.6/22.6	28.5/28.5	10.5/10.5	14.0/14.0
Annual Energy Consumption	Cooling	344	384	477	545	-	545	-
	Heating	1,637	2,045	2,797	3,044	-	3,044	-
Moisture Removal		2.1	2.5	2.5	3.0	4.0	3.0	4.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	31/29/27/25	31/29/27/25	39/35/30/26	39/35/30/26	39/35/30/26	42/38/32/28
	Indoor (Heating)	H/M/L/Q	31/29/27/25	31/29/27/25	42/35/30/26	42/35/30/26	42/35/30/26	42/38/32/28
	Outdoor (Cooling/Heating)	High	51/51	53/54	53/55	55/55	55/55	57/57
Sound Power Level	Indoor (Cooling/Heating)	High	60/62	60/62	65/69	65/70	65/70	68/70
	Outdoor (Cooling/Heating)	High	63/63	65/66	68/69	70/70	71/71	71/71
	Indoor / Outdoor (Cooling)	High	1,100/2,240	1,100/2,700	1,900/3,750	1,900/3,750	1,900/3,750	2,100/4,450
Airflow Rate	Indoor / Outdoor (Heating)	High	1,100/1,960	1,100/2,700	2,100/3,750	2,100/3,750	2,100/4,450	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)	30-150 (47)
Net Dimensions	Indoor	mm	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700
	Outdoor	mm	632 × 799 × 290	716 × 820 × 315	788 × 940 × 320	788 × 940 × 320	998 × 940 × 320	788 × 940 × 320
Weight	Indoor	kg(lbs)	35 (77)	35 (77)	38 (84)	38 (84)	39 (86)	38 (84)
	Outdoor	kg(lbs)	38 (84)	42 (93)	52 (115)	52 (115)	67 (148)	53 (117)
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	9.52/15.88
Drain hose Diameter (I.D./O.D.)		mm	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 (20)	30 (20)	50 (30)	50 (30)	50 (30)	50 (30)
Max. Height Difference		m	25	25	30	30	30	30
Operating 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)	1.25 (0.844)	1.25 (0.844)	1.90 (1.283)	1.90 (1.283)	2.70 (1.823)	1.90 (1.283)

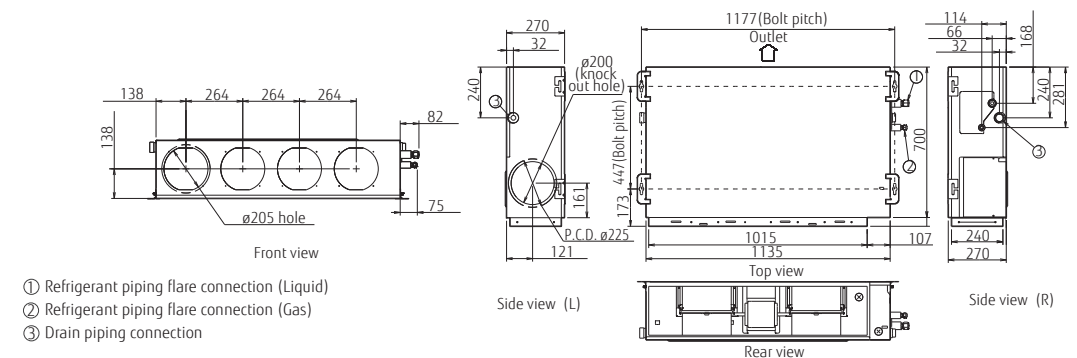
Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

Compact Wired Remote Controller:	UTY-RCRYZ1	External Switch Controller:	UTY-TERX	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	Wireless LAN Interface:	UTY-TFSXZ1	Network Converter for single split (AC power supply type):	UTY-VTGXV
Wired Remote Controller:	UTY-RLRY		FJ-RC-WIFI-1	Drain Pump Unit:	UTZ-PX1NBA
	UTY-RNNYM	Flange (Round):	UTD-RF204	Long-Life Filter:	UTD-LF25NA
	UTY-RVNYM	Flange (Square):	UTD-SF045T		
Simple Remote Controller (Without operation mode):	UTY-RHRY	IR Receiver Unit:	UTY-LBTYM	(Outdoor unit 30/36/45/54)	
Simple Remote Controller:	UTY-RSRY	Remote Sensor Unit:	UTY-XSZX	External Connect Kit:	UTY-XWZXZ3
	UTY-RSNYM	External Connect Kit:	UTY-XWZXZG		

Dimensions

(Unit : mm)

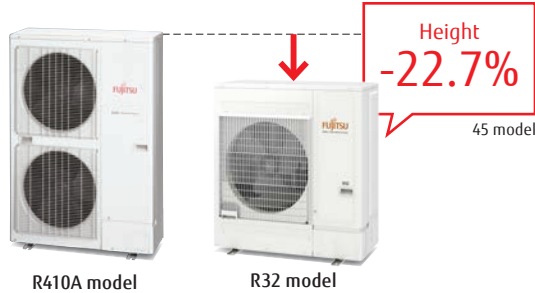
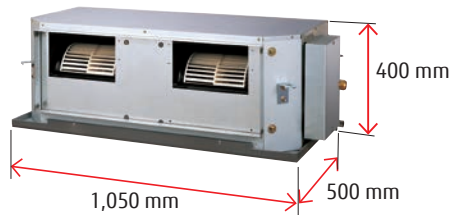


High Static Pressure Duct

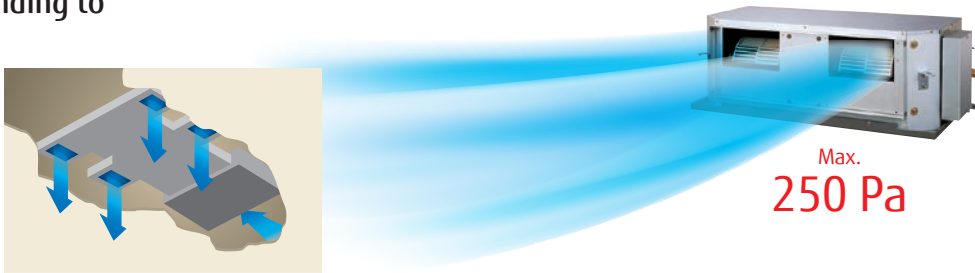


Easy installation
(Compact size & Lightweight)

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

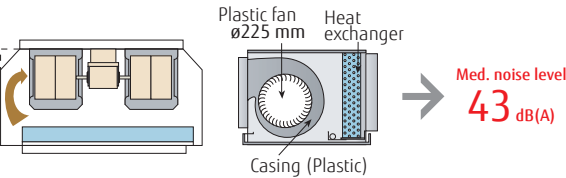


Design also corresponding to
high static pressure

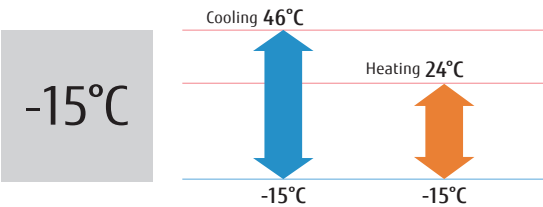


Low noise

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
ARXG45KHTA [3 phase] / ARXG54KHTA [3 phase]



Specifications

Model No.	Indoor unit		ARXG45KHTA	ARXG54KHTA	ARXG45KHTA	ARXG54KHTA
	Outdoor unit		AOYG45KBTB	AOYG54KBTB	AOYG45KRTA	AOYG54KRTA
Power Source			Single phase, ~230V, 50Hz		3 phase, ~400V, 50Hz	
Capacity	Cooling	kW	12.1 (4.0-14.0)	13.4 (5.0-14.5)	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)	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	4.16/3.61	4.77/4.18
EER	Cooling	W/W	2.91	2.81	2.91	2.81
COP	Heating		3.74	3.71	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	28.5/28.5	14.0/14.0	14.0/14.0
Annual Energy Consumption	Cooling	kWh/a	-	-	-	-
	Heating		-	-	-	-
Moisture Removal		l/h	1.5	2.0	1.5	2.0
Sound Pressure Level	Indoor (Cooling)	H/M/L	47/43/40	47/43/40	47/43/40	47/43/40
	Indoor (Heating)	H/M/L	47/43/40	47/43/40	47/43/40	47/43/40
	Outdoor(Cooling/Heating)	High	57/57	57/59	57/57	57/59
Sound Power Level	Indoor(Cooling/Heating)	High	75/74	75/74	75/74	75/74
	Outdoor(Cooling/Heating)	High	71/71	73/73	71/71	73/73
Airflow Rate	Indoor / Outdoor (Cooling)	High	3,350/4,450	3,350/4,450	3,350/4,450	3,350/4,450
	Indoor / Outdoor (Heating)	High	3,350/4,450	3,350/4,450	3,350/4,450	3,350/4,450
Static pressure range (Standard)		Pa	100 to 250 (100)	100 to 250 (100)	100to250 (100)	100to250 (100)
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
	Outdoor	mm	998 × 940 × 320	998 × 940 × 320	998 × 940 × 320	998 × 940 × 320
Weight	Indoor	kg(lbs)	46 (101)	46 (101)	46 (101)	46 (101)
	Outdoor	kg(lbs)	67 (148)	67 (148)	67 (148)	67 (148)
Connection Pipe Diameter (Liquid / Gas)		mm	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
Max. Pipe Length (Pre-Charge)		m	50 (30)	50 (30)	50 (30)	50 (30)
Max. Height Difference			30	30	30	30
Operating 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)	2.70(1.823)	2.70(1.823)	2.70(1.823)	2.70(1.823)

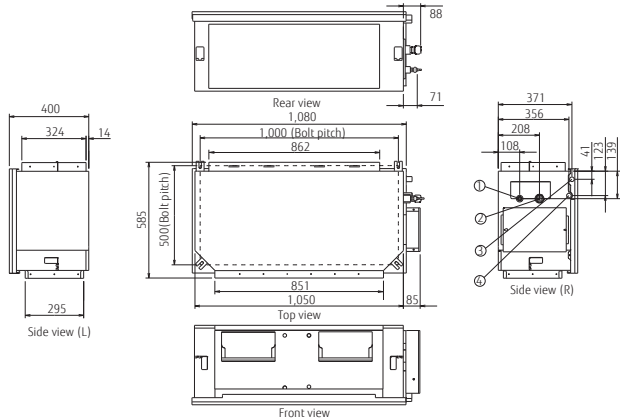
Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

Wired Remote Controller:	UTY-RNNYM	External Connect Kit:	UTD-ECCSA	Network Converter for single split (DC power supply type):	UTY-VTGX
	UTY-RVNYM	Remote Sensor Unit:	UTY-XS2X	Network Converter for single split (AC power supply type):	UTY-VTGXV
Simple Remote Controller:	UTY-RSNNM	Long-Life Filter:	UTD-LF60KA		
Wireless LAN Interface:	UTY-TFNXZ1	External Switch Controller:	UTY-TERX	(Outdoor unit 45/54)	UTY-XW2X23
	FJ-RC-WIFI-1			External Connect Kit:	

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)

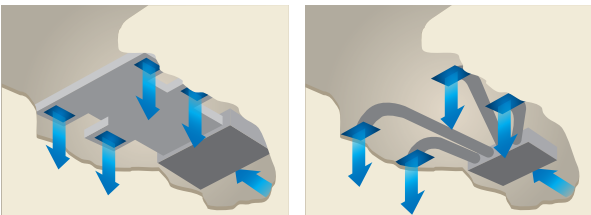
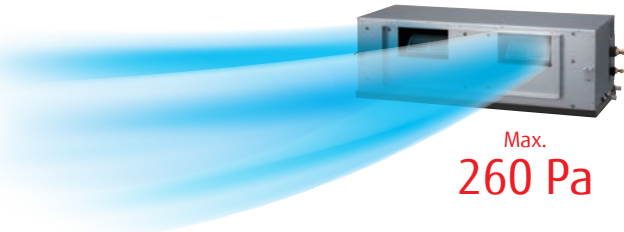
High Static Pressure Duct



High energy efficiency

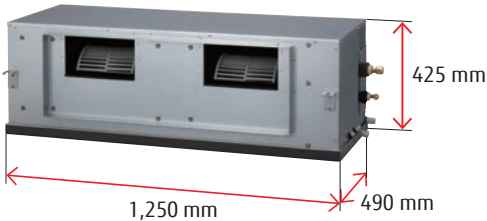
Significantly greater efficiency is realized by using all DC inverter technology. (60 model)

Design also corresponding to high static pressure



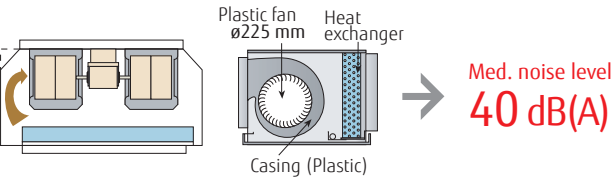
Easy installation (Compact size & Lightweight)

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

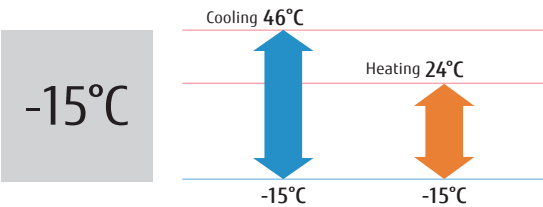


Low noise

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 : ARYG60LHTA [3 phase]



Wired R.C.



Specifications

Model No.	Indoor unit		ARYG60LHTA	
	Outdoor unit		AOYG60LATT	
Power Source			3 phase, ~400V, 50Hz	
Capacity	Cooling	kW	15.0 (6.2-17.5)	
	Heating		18.0 (6.2-20.0)	
Input Power	Cooling/Heating	kW	4.70/5.15	
EER	Cooling	W/W	3.19	
COP	Heating		3.50	
Max. Operating Current	Cooling/Heating	A	12.5 /12.5	
Moisture Removal			l/h	
Sound Pressure	Indoor (Cooling)	H/M/L/Q	dB(A)	45/40/36/-
	Indoor (Heating)	H/M/L/Q		45/40/36/-
	Outdoor(Cooling/Heating)	High		56/58
Airflow Rate	Indoor / Outdoor (Cooling)	High	m³/h	3,550/6,900
	Indoor / Outdoor (Heating)	High		3,550/7,300
Static pressure range (Standard)		Pa	60 to 260 (60)	
Net Dimensions H x W x D	Indoor	mm	425 × 1,250 × 490	
	Outdoor	mm	1,290 × 900 × 330	
Weight	Indoor	kg(lbs)	54 (119)	
	Outdoor	kg(lbs)	104 (229)	
Connection Pipe Diameter (Liquid / Gas)		mm	9.52/15.88	
Drain hose Diameter (I.D./O.D.)			23.4/25.4	
Max. Pipe Length (Pre-Charge)		m	75 (30)	
Max. Height Difference			30	
Operating Range	Cooling	°CDB	-15 to 46	
	Heating		-15 to 24	
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	
	Charge	kg(CO2eq-T)	3.45 (7.204)	

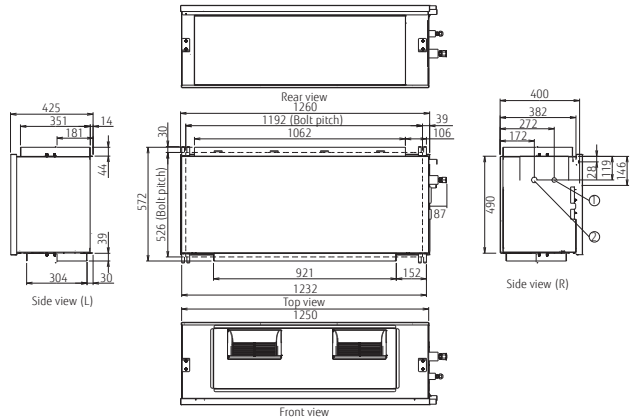
Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

Wired Remote Controller:	UTY-RNNYM	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller:	UTY-RVNYM	Network Converter for single split (AC power supply type):	UTY-VTGXV
Simple Remote Controller:	UTY-RSNYM	External Connect Kit:	UTD-ECS5A
External Switch Controller:	UTY-TERX	IR Receiver Unit	UTY-LRHYM
Wireless LAN Interface:	UTY-TFNXZ1		
	FJ-RC-WIFI-1	(Outdoor unit A0YG60LATT)	
Remote Sensor Unit:	UTY-XSZX	External Connect Kit:	UTY-XWZXZ2

Dimensions

(Unit : mm)



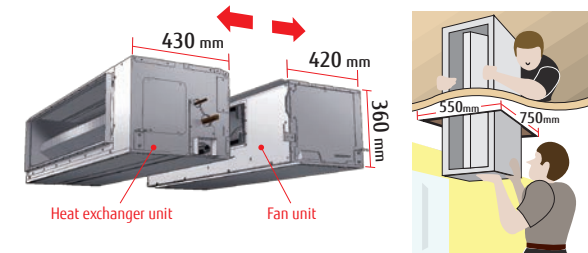
- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection (Safety drain pan)
- ④ Drain piping connection(Main drain pan)

Big Duct



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.



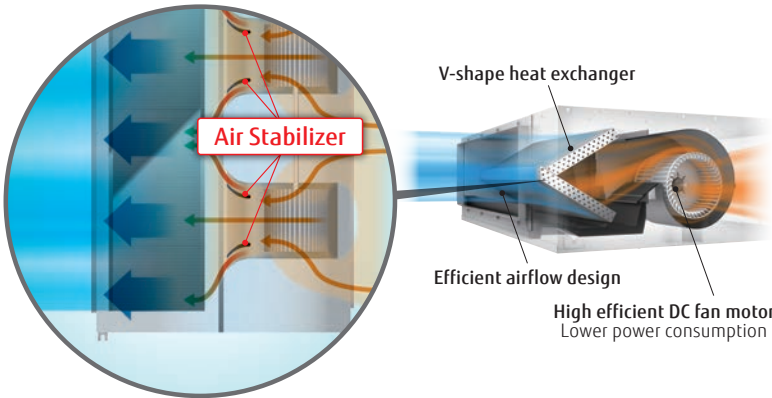
Automatic Airflow adjustment function

This function can set the optimum airflow automatically so, that 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
	Heating		3.40	3.30
COP	Cooling		-	-
	Heating		-	-
Max. Operating Current	Indoor(Cooling/Heating)	A	-	-
	Outdoor(Cooling/Heating)		-	-
Moisture Removal	Indoor (Cooling)	I/h	4.5	6.0
	Indoor (Heating)		46/43/41/39	47/44/42/40
Sound Pressure	Indoor (Cooling)	H/M/L/Q	46/43/41/39	47/44/42/40
	Indoor (Heating)		55/55	55/57
Airflow Rate	Indoor / Outdoor (Cooling)	High	4,300/8,400	4,300/8,400
	Indoor / Outdoor (Heating)	High	4,300/8,400	4,300/9,000
Static pressure range (Standard)	Indoor	Pa	50 to 150 (72)	50 to 200 (72)
	Outdoor		360 × 1,400 × 850	360 × 1,400 × 850
Net Dimensions H x W x D	Indoor	mm	1,428 × 1,080 × 480	1,428 × 1,080 × 480
	Outdoor		69 (152)	80 (176)
Weight	Indoor	kg(lbs)	165 (364)	174 (384)
	Outdoor		12.7/25.4	12.7/25.4
Connection Pipe Diameter (Liquid / Gas)	Indoor	mm	25/32	25/32
	Outdoor		100 (30)	100 (30)
Drain Hose Diameter (I.D./O.D.)	Indoor	m	30	30
	Outdoor		-15 to 46	-15 to 46
Max. Pipe Length (Pre-Charge)	Cooling	°CDB	-20 to 24	-20 to 24
	Heating		R410A (2,088)	R410A (2,088)
Max. Height Difference	Indoor	kg(CO2eq-T)	5.6 (11.693)	7.1 (14.825)
	Outdoor			
Operating Range	Type (Global Warming Potential)			
	Charge			

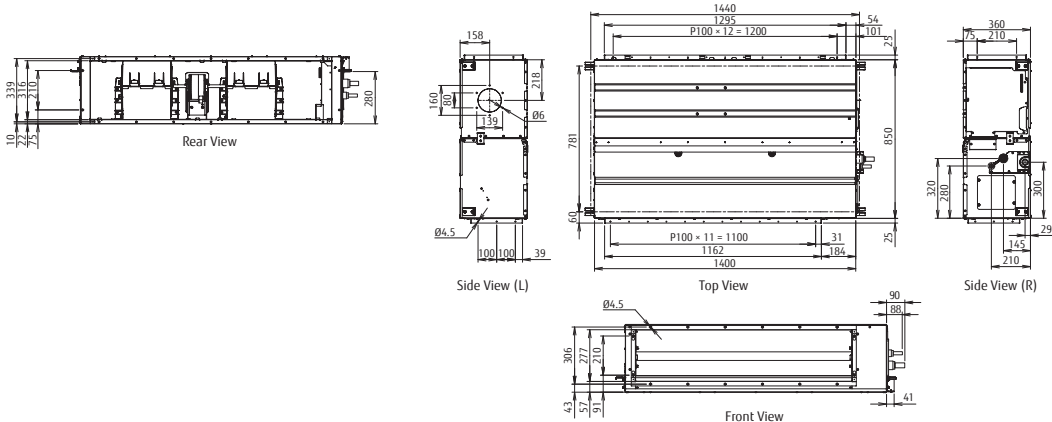
Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

Compact Wired Remote Controller:	UTY-RCRYZ1	External Switch Controller:	UTY-TERX	Network Converter for single split (DC power supply type):	UTY-VTGX
	UTY-RNRYZ3		UTY-TFSXZ1		UTY-VTGXV
Wired Remote Controller (Touch Panel):	UTY-RLRY	Wireless LAN Interface:	FJ-RC-WIFI-1	Network Converter for single split (AC power supply type):	UTY-LBTYM
	UTY-RNNYM		UTY-XCSX		UTY-LRHYM
Simple Remote Controller (Without operation mode):	UTY-RVNYM	Remote Sensor Unit:	UTY-XSZX	(Outdoor unit 72/90)	External Connect Kit:
	UTY-RHRY		UTD-LFKA		
Simple Remote Controller:	UTY-RSRY	Long Life Filter	UTY-XWZXG	External Connect Kit:	UTY-XWZXZ3
	UTY-RSNYM		UTZ-PX1NAB		
Simple Remote Controller:	UTY-RSRY	External Connect Kit:	UTY-XWZXG	External Connect Kit:	UTY-XWZXZ3
	UTY-RSNYM		UTZ-PX1NAB		

Dimensions

(Unit : mm)



Floor
Compact & Comfort



High energy saving

New floor 09 class achieve top class SEER 8.50 and rank A+++ seasonal efficiency for cooling.
New floor 09 class achieve improved SCOP of 4.30 and rank A+ seasonal efficiency for heating.

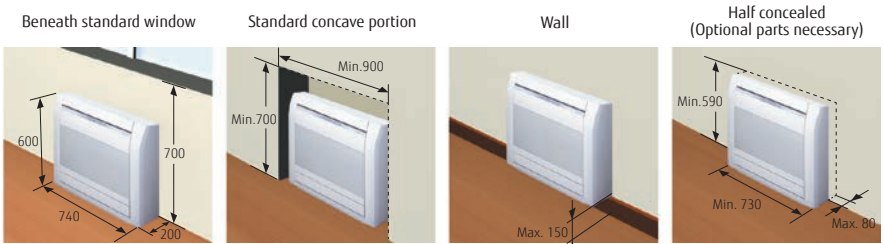


SEER 8.50^{*1} SCOP 4.30^{*1}

*1: 09 model

Flexible & easy installation

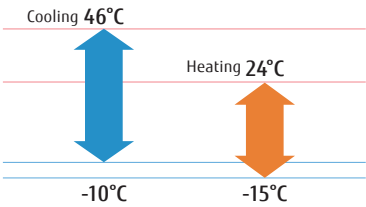
Due to compact and whole surface suction method model, floor, concealed, half concealed, or wall mounted installation can be available to match the room layout.



*Concaved position installation with conceal is prohibited.

Low ambient operation

Factory guaranteed cooling operation down to -10°C outside temperature.



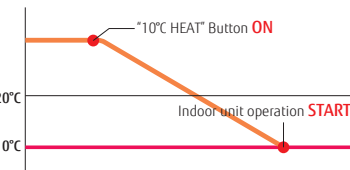
Smart device Control (option)

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.



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.



Model: AGYG09KVCA / AGYG12KVCA / AGYG14KVCA



Specifications

Model No.	Indoor unit		AGYG09KVCA	AGYG12KVCA	AGYG14KVCA		
	Outdoor unit		AOYG09KVCA	AOYG12KVCA	AOYG14KVCA		
Power Source			Single phase, ~230V, 50Hz				
Capacity	Cooling	kW	2.5 (0.9-3.5)	3.5 (0.9-4.0)	4.2 (0.9-5.2)		
	Heating		3.5 (0.9-5.1)	4.5 (0.9-5.3)	5.2 (0.9-6.3)		
Input Power	Cooling/Heating	kW	0.53/0.81	0.88/1.22	1.06/1.41		
EER	Cooling	W/W	4.70	4.00	3.95		
COP	Heating	W/W	4.30	3.70	3.70		
Pdesign	Cooling/Heating(-10°C)	kW	2.50/2.60	3.50/3.50	4.20/4.20		
SEER	Cooling	W/W	8.50	8.20	8.10		
SCOP	Heating (Average)		4.30	4.10	4.00		
Energy Efficiency Class	Cooling		A+++	A++	A++		
	Heating (Average)		A+	A+	A+		
Max. Operating Current	Cooling/Heating	A	7.0/8.5	7.0/8.5	11.0/12.0		
Annual Energy Consumption	Cooling	kWh/a	103	149	181		
	Heating (Average)		845	1,192	1,466		
Moisture Removal			I/h	1.3	1.8	2.1	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	40/35/29/22		44/38/31/22	
	Indoor (Heating)	H/M/L/Q		41/35/29/22		43/37/29/22	
Sound Power Level	Outdoor(Cooling/Heating)	High		43/47		45/51	51/50
	Indoor(Cooling/Heating)	High		53/54		53/54	57/56
Airflow Rate	Outdoor(Cooling/Heating)	High	m³/h	58/61		61/64	63/63
	Indoor / Outdoor (Cooling)	High		570/1,530		570/1,530	650/2,210
Net Dimensions H x W x D	Indoor / Outdoor (Heating)	High	600/1,510		600/1,510	650/2,100	
	Indoor	mm	600 × 740 × 200		600 × 740 × 200	600 × 740 × 200	
Weight	Outdoor	mm	542 × 799 × 290		542 × 799 × 290	632 × 799 × 290	
	Indoor	kg(lbs)	14(31)		14(31)	14(31)	
Connection Pipe Diameter (Liquid / Gas)	Outdoor	kg(lbs)	31(68)		31(68)	38(83)	
			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)			20 (15)		20 (15)	20 (15)	
Max. Height Difference			15		15	15	
Operating 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)	0.85 (0.574)		0.85 (0.574)	0.94 (0.635)	

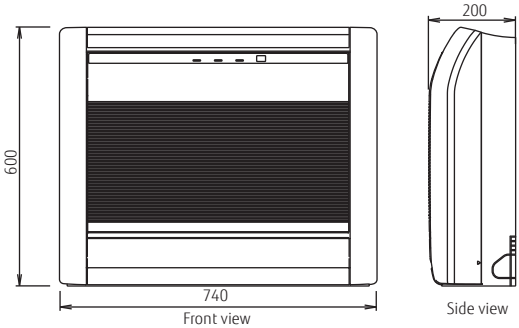
Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

Compact Wired Remote Controller:	UTY-RCRYZ1	Simple Remote Controller:	UTY-RSRY	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	External Switch Controller:	UTY-TERX	Network Converter for single split (AC power supply type):	UTY-VTGXV
Wired Remote Controller:	UTY-RLRY	Wireless LAN Interface:	UTY-TFSXZ1	Communication Kit:	UTY-TWRXZ3
Simple Remote Controller (Without operation mode):	UTY-RHRY	Half Concealed Kit:	UTR-STA	External connect kit	UTY-XWZX25

Dimensions

(Unit : mm)



Ceiling



Light Elegant Design

Light-elegant and three-dimensional expression composed of curved surface gives comfort and wellbeing.



Flexible installation

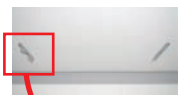
Drain hose and piping can be set in the casing and drawn out flexibly in the right, left, side and down directions.



Easy installation

The indoor unit can be easily installed under the ceiling due to the new designed mounting.

1. Set mounting brackets
2. Hold up the ceiling and fit the ceiling to the mounting brackets
3. Attach with screws



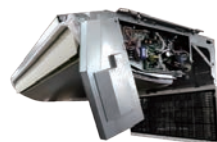
Easy maintenance

The front panel can be opened without removing for safe & speedy maintenance.



Drain pan can be taken off for cleaning.

Components in the control box can be easily accessed from the widely open side.



Model : ABYG18KRTA / ABYG22KRTA / ABYG24KRTA / ABYG30KRTA / ABYG36KRTA / ABYG45KRTA
ABYG36KRTA [3 phase] / ABYG45KRTA [3 phase] / ABYG54KRTA [3phase]



ABYG18/22KRTA



ABYG24/30KRTA



ABYG36/45/54KRTA



For ABYG18/22KRTA



For ABYG24KRTA



For ABYG30/36KRTA



For ABYG45/54KRTA

Specifications

Model No.	Indoor unit		Outdoor unit						3 phase, ~400V, 50Hz		
	Outdoor unit		ABYG18KRTB	ABYG22KRTB	ABYG24KRTB	ABYG30KRTB	ABYG36KRTB	ABYG45KRTB	ABYG36KRTA	ABYG45KRTA	ABYG54KRTA
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(4.0-13.5)	9.5(2.8-11.2)	12.1(4.0-13.5)	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)	10.8(2.7-12.7)	13.5(4.2-16.2)	15.5(4.7-16.5)
Input Power	Cooling/Heating	kW	1.55/1.62	1.87/1.95	2.14/1.97	2.65/2.77	2.96/2.88	4.22/3.84	2.96/2.88	4.22/3.84	4.45/4.43
EER	Cooling	W/W	3.35	3.21	3.18	3.21	3.21	2.87	3.21	2.87	3.01
COP	Heating		3.70	3.59	3.81	3.61	3.75	3.52	3.75	3.52	3.50
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	-	9.5/8.7	-	-
SEER	Cooling	W/W	6.2	6.1	6.2	6.1	6.37	-	6.37	-	-
SCOP	Heating (Average)		4.1	4.0	4.1	4.0	4.21	-	4.21	-	-
Energy Efficiency Class	Cooling	A	A++	A++	A++	A++	A++	-	A++	-	-
	Heating (Average)		A+	A+	A+	A+	A+	-	A+	-	-
Max. Operating Current	Cooling/Heating	A	12.1/12.1	12.6/12.6	13.6/13.6	22.6/22.6	22.6/22.6	28.5/28.5	10.5/10.5	14.0/14.0	14.0/14.0
Annual Energy Consumption	Cooling		293	344	384	486	524	-	524	-	-
	Heating	kWh/a	1,501	1,677	2,042	2,796	2,904	-	2,904	-	-
Moisture Removal		l/h	2.0	2.5	2.2	3.0	2.6	4.5	2.6	4.5	5.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	38/36/33/31	42/37/34/31	41/36/32/29	45/40/35/32	44/40/37/32	45/41/39/34	44/40/37/32	45/41/39/34	48/44/41/38
	Indoor (Heating)	H/M/L/Q	38/36/33/31	42/37/34/31	41/36/32/29	45/40/35/32	44/40/37/32	45/41/39/34	44/40/37/32	45/41/39/34	48/44/41/38
Sound Power Level	Outdoor(Cooling/Heating)	High	50/50	51/51	53/54	53/55	55/55	57/57	55/55	57/57	57/59
	Indoor(Cooling/Heating)	High	53/53	57/57	56/56	60/60	59/59	60/60	59/59	60/60	63/63
Airflow Rate	Indoor / Outdoor (Cooling)	High	840/2,160	900/2,240	1,230/2,700	1,400/3,750	1,850/3,750	1,900/4,450	1,850/3,750	1,900/4,450	2,100/4,450
	Indoor / Outdoor (Heating)	High	840/1,830	900/1,960	1,230/2,700	1,400/3,750	1,800/3,750	1,850/4,450	1,800/3,750	1,850/4,450	2,100/4,450
Net Dimensions H x W x D	Indoor	mm	235 × 1,080 × 705	235 × 1,080 × 705	235 × 1,390 × 705	235 × 1,390 × 705	235 × 1,700 × 705	235 × 1,700 × 705	235 × 1,700 × 705	235 × 1,700 × 705	235 × 1,700 × 705
	Outdoor	mm	632 × 799 × 290	632 × 799 × 290	716 × 820 × 315	788 × 940 × 320	788 × 940 × 320	998 × 940 × 320	788 × 940 × 320	998 × 940 × 320	998 × 940 × 320
Weight	Indoor	kg (lbs)	24(53)	24(53)	31(68)	31(68)	38(84)	38(84)	38(84)	38(84)	38(84)
	Outdoor	kg (lbs)	36(79)	38(84)	42(93)	52(115)	52(115)	67(148)	53(117)	67(148)	67(148)
Connection Pipe Diameter (Liquid / Gas)		mm	6.35/12.7	6.35/12.7	6.35/12.7	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.)		mm	25/32	25/32	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)	50(30)	50(30)
Max. Height Difference			20	25	25	30	30	30	30	30	30
Operating 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)	1.02 (0.689)	1.25 (0.844)	1.25 (0.844)	1.90(1.283)	1.90(1.283)	2.70(1.823)	1.90(1.283)	2.70(1.823)	2.70(1.823)

Optional parts

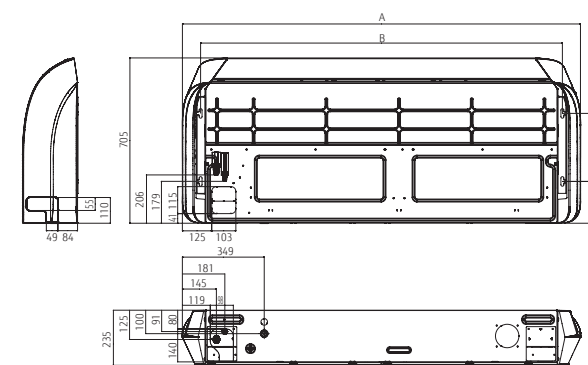
* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

Compact Remote Controller:	UTY-RCRYZ1	External Connect Kit:	UTY-XWZXZG	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired Remote Controller (Touch Panel):	UTY-RNRYZ3	Wireless LAN Interface:	UTY-TFSXZ1	Network Converter for single split (AC power supply type):	UTY-VTGXV
Wired Remote Controller:	UTY-RLRY	Drain Pump Unit:	UTR-DPB24T		
Simple Remote Controller (Without operation mode):	UTY-RHRY	IR Receiver Unit:	UTY-LBTYH		
Simple Remote Controller:	UTY-RSRY	L-Type Piping Kit:	UTP-FX24A (18/22/24)		
External input and output PCB Box:	UTY-XCSX		UTP-FX35A (30/36/45/54)		
External input and output PCB Box:	UTZ-GXEA	External Switch Controller:	UTY-TERX		

(Outdoor unit 30/36/45/54)
External Connect Kit: UTY-XWZXZG

Dimensions

(Unit : mm)



	ABYG18/22KRTA	ABYG24/30KRTA	ABYG36/45/54KRTA
A	1,080	1,390	1,700
B	923	1,233	1,543



Compact cassette



Model No.	Indoor unit		AUXG09KVLA	AUXG12KVLA	AUXG14KVLA	AUXG18KVLA	AUXG22KVLA	AUXG24KVLA
	Outdoor unit		AOYG09KATA	AOYG12KATA	AOYG14KATA	AOYG18KATA	AOYG22KATA	AOYG24KATA
Power Source			Single phase, ~230V, 50Hz					
Capacity	Cooling	kW	2.5(0.9-2.7)	3.5(0.9-3.7)	4.3(0.9-4.5)	5.2(0.9-5.4)	6.0(0.9-6.3)	6.8(0.9-7.4)
	Heating		3.2(0.9-3.9)	4.1(0.9-4.4)	5.0(0.9-5.3)	6.0(0.9-6.3)	7.0(0.9-7.4)	7.5(0.9-8.6)
Input Power	Cooling/Heating	kW	0.68/0.88	1.09/1.17	1.37/1.42	1.69/1.72	1.95/2.00	2.26/2.08
EER	Cooling	W/W	3.68	3.21	3.14	3.08	3.08	3.01
COP	Heating		3.64	3.50	3.52	3.49	3.50	3.61
Pdesign	Cooling/Heating(-10°C)	kW	2.5/2.3	3.5/2.8	4.3/3.2	5.2/3.8	6.0/4.4	6.8/5.4
SEER	Cooling	W/W	6.2	6.1	6.1	6.1	6.1	5.9
SCOP	Heating		4.0	4.0	4.0	3.9	3.9	3.8
Energy Efficiency Class	Cooling		A++	A++	A++	A++	A++	A+
	Heating		A+	A+	A+	A	A	A
Max. Operating Current	Cooling/Heating	A	6.9/6.9	7.7/7.7	9.2/9.2	10.1/10.1	11.6/11.6	12.6/12.6
Annual Energy Consumption	Cooling	kWh/a	141	201	247	298	344	403
	Heating		804	979	1,120	1,362	1,578	1,988
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	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	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	47/48	49/50	50/51	51/52	52/53	54/55
	Indoor(Cooling/Heating)	High	46/47	49/49	50/55	50/55	56/57	59/61
	Outdoor(Cooling/Heating)	High	60/60	62/62	63/63	63/64	64/65	66/67
	Indoor / Outdoor (Cooling)	High	540/1,610	600/1,630	680/1,670	680/1,710	830/2,240	930/2,885
Airflow Rate	Indoor / Outdoor (Heating)	High	540/1,550	600/1,410	800/1,580	800/1,840	860/2,240	930/2,350
Net Dimensions	Indoor	mm	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570
	Outdoor	mm	541 × 663 × 290	541 × 663 × 290	542 × 799 × 290	542 × 799 × 290	632 × 799 × 290	632 × 799 × 290
H x W x D	Indoor	kg(lbs)	15(33)	15(33)	15(33)	15(33)	16(35)	16(35)
	Outdoor	kg(lbs)	23(51)	25(55)	32(71)	33(73)	36(79)	38(84)
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	6.35/12.70
Drain port Diameter (I.D./O.D.)			25/32	25/32	25/32	25/32	25/32	25/32
Max. Pipe Length (Pre-Charge)		m	15 (15)	15 (15)	20 (15)	20 (15)	25 (15)	25(20)
Max. Height Difference			15	15	15	15	20	20
Operating Range	Cooling	°CDB	-10 to 46	-10 to 46	-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	-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)	0.6(0.405)	0.7(0.473)	0.85(0.574)	0.9(0.608)	1.1(0.743)	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)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)

Circular cassette



Model No.	Indoor unit		AUXG18KRLB	AUXG22KRLB	AUXG24KRLB	AUXG30KRLB	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB
	Outdoor unit		AOYG18KATA	AOYG22KATA	AOYG24KATA	AOYG30KATA	AOYG36KATA	AOYG45KATA	AOYG54KATA	AOYG36KQTA	AOYG45KQTA	AOYG54KQTA
Power Source			Single phase, ~230V, 50Hz							3 phase, ~400V, 50Hz		
Capacity	Cooling	kW	5.2(0.9-5.4)	6.0(0.9-6.3)	6.8(0.9-7.4)	8.5(2.8-9.6)	9.5(2.8-10.6)	12.1(4.0-12.6)	13.4(4.5-13.8)	9.5(2.8-10.6)	12.1(4.0-12.6)	13.4(4.5-13.8)
	Heating		6.0(0.9-6.3)	7.0(0.9-7.4)	7.5(0.9-8.6)	10.0(2.7-10.8)	10.8(2.7-12.5)	13.5(4.2-15.0)	15.5(4.7-16.0)	10.8(2.7-12.5)	13.5(4.2-15.0)	15.5(4.7-16.0)
Input Power	Cooling/Heating	kW	1.60/1.66	1.85/1.93	2.12/1.97	2.56/2.64	3.06/2.58	4.32/3.77	4.87/4.86	3.06/2.58	4.32/3.77	4.87/4.86
EER	Cooling	W/W	3.25	3.24	3.21	3.32	3.10	2.80	2.75	3.10	2.80	2.75
COP	Heating		3.61	3.63	3.81	3.79	4.19	3.58	3.19	4.19	3.58	3.19
Pdesign	Cooling/Heating(-10°C)	kW	5.2/3.8	6.0/4.4	6.8/5.4	8.5/8.0	9.5/8.7	-	-	9.5/8.7	-	-
SEER	Cooling	W/W	6.2	6.2	6.1	6.1	6.1	-	-	6.1	-	-
SCOP	Heating		4.1	4.1	4.0	4.0	4.0	-	-	4.0	-	-
Energy Efficiency Class	Cooling		A++	A++	A++	A++	A++	-	-	A++	-	-
	Heating		A+	A+	A+	A+	A+	-	-	A+	-	-
Max. Operating Current	Cooling/Heating	A	10.1/10.1	11.6/11.6	12.6/12.6	22.5/22.5	22.5/22.5	28.1/28.1	28.1/28.1	10.5/10.5	13.6/13.6	13.6/13.6
Annual Energy Consumption	Cooling	kWh/a	293	338	390	488	545	-	-	545	-	-
	Heating		1,297	1,502	1,887	2,794	3,044	-	-	3,044	-	-
Moisture Removal		l/h	1.5	2.2	2.7	2.5	3.3	4.5	5.0	3.3	4.5	5.0
Sound Pressure Level	Indoor (Cooling)	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	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	44/41/38/34	46/42/39/35	47/43/40/36
	Outdoor(Cooling/Heating)	High	51/52	52/53	54/55	53/55	55/55	58/59	58/61	55/55	60/60	61/61
Sound Power Level	Indoor(Cooling/Heating)	High	47/47	49/49	49/49	54/54	58/58	60/60	61/61	58/58	-/-	-/-
	Outdoor(Cooling/Heating)	High	63/64	64/65	66/67	68/69	70/70	72/73	74/75	70/70	72/73	74/75
	Indoor / Outdoor (Cooling)	High	1,050/1,710	1,050/2,240	1,150/2,885	1,600/3,750	1,870/3,750	2,000/4,450	2,100/4,450	1,870/3,750	2,000/4,450	2,100/4,450
Airflow Rate	Indoor / Outdoor (Heating)	High	1,050/1,840	1,050/2,240	1,150/2,350	1,600/3,750	1,870/3,750	2,000/4,450	2,100/4,780	1,870/3,750	2,000/4,450	2,100/4,780
	Indoor	mm	246 × 840 × 840	246 × 840 × 840	246 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840
Net Dimensions H × W × D	Outdoor	mm	542 × 799 × 290	632 × 799 × 290	632 × 799 × 290	788 × 940 × 320	788 × 940 × 320	998 × 940 × 320	998 × 940 × 320	788 × 940 × 320	998 × 940 × 320	998 × 940 × 320
	Indoor	kg(lbs)	23(51)	23(51)	24(53)	26(57)	29(64)	29(64)	29(64)	29(64)	29(64)	29(64)
Weight	Indoor	kg(lbs)	33(73)	36(79)	38(84)	52(115)	52(115)	61(134)	63(139)	53(117)	62(137)	63(139)
	Outdoor	kg(lbs)										
Connection Pipe Diameter (Liquid / Gas)			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	9.52/15.88	9.52/15.88	9.52/15.88
Drain port Diameter (I.D./O.D.)			25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32
Max. Pipe Length (Pre-Charge)			20 (15)	25 (15)	25(20)	30(30)	30(30)	30(30)	30(30)	30(30)	30(30)	30(30)
Max. Height Difference			15	20	20	30	30	30	30	30	30	30
Operating 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
	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	-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)	R32(675)
	Charge	kg(CO2eq-T)	0.9(0.608)	1.1(0.743)	1.25(0.844)	1.90(1.283)	1.90(1.283)	2.4(1.620)	2.4(1.620)	1.90(1.283)	2.4(1.620)	2.4(1.620)
Cassette Grille	Model name		UTG-UKYA-W: White Color with touch panel wired remote controller UTG-UKYC-W: White Color / UTG-UKYA-B*: 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	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)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)

Slim Duct



Model No.	Indoor unit		ARXG09KLLAP	ARXG12KLLAP	ARXG14KLLAP	ARXG18KLLAP	
	Outdoor unit		AOYG09KATA	AOYG12KATA	AOYG14KATA	AOYG18KATA	
Power Source			Single phase, ~230V, 50Hz				
Capacity	Cooling	kW	2.5(0.9-2.7)	3.5(0.9-3.7)	4.3(0.9-4.5)	5.2(0.9-5.4)	
	Heating		3.2(0.9-3.9)	4.1(0.9-4.4)	5.0(0.9-5.3)	6.0(0.9-6.3)	
Input Power	Cooling/Heating	kW	0.69/0.88	1.09/1.17	1.37/1.42	1.66/1.71	
EER	Cooling	W/W	3.62	3.21	3.14	3.13	
COP	Heating		3.64	3.50	3.52	3.51	
Pdesign	Cooling/Heating(-10°C)	kW	2.5/2.3	3.5/2.8	4.3/3.2	5.2/3.8	
SEER	Cooling	W/W	5.9	5.8	5.6	5.8	
SCOP	Heating		3.8	3.8	3.8	3.8	
Energy Efficiency Class	Cooling		A+	A+	A+	A+	
	Heating		A	A	A	A	
Max. Operating Current	Cooling/Heating		A				
Annual Energy Consumption	Cooling	kWh/a	148	211	269	313	
	Heating		847	1,031	1,177	1,398	
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
Sound Power Level	Outdoor(Cooling/Heating)	High		47/48	49/50	50/51	51/52
	Indoor(Cooling/Heating)	High		57/57	58/58	60/60	58/58
Airflow Rate	Outdoor(Cooling/Heating)	High	60/60	62/62	63/63	63/64	
	Indoor / Outdoor (Cooling)	High	m³/h	600/1,610	650/1,630	800/1,670	940/1,710
Static pressure range (Standard)	Indoor / Outdoor (Heating)	High		600/1,550	650/1,410	800/1,580	940/1,840
	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	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 900 × 620	
Weight	Outdoor	mm	541 × 663 × 290	541 × 663 × 290	542 × 799 × 290	542 × 799 × 290	
	Indoor	kg(lbs)	17(37)	17(37)	17(37)	20(44)	
	Outdoor	kg(lbs)	23(51)	25(55)	32(71)	33(73)	
Connection Pipe Diameter (Liquid / Gas)		mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70	
Drain port Diameter (I.D./O.D.)			25/32	25/32	25/32	25/32	
Max. Pipe Length (Pre-Charge)		m	15 (15)	15 (15)	20 (15)	20 (15)	
Max. Height Difference			15	15	15	15	
Operating 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)	0.7(0.473)	0.85(0.574)	0.9(0.608)

Medium Static Pressure Duct



Model No.	Indoor unit		ARXG22KMLB	ARXG24KMLA	ARXG30KMLA	ARXG36KMLA	ARXG45KMLA	ARXG36KMLA	ARXG45KMLA	
	Outdoor unit		AOYG22KATA	AOYG24KATA	AOYG30KATA	AOYG36KATA	AOYG45KATA	AOYG36KQTA	AOYG45KQTA	
Power Source			Single phase, ~230V, 50Hz					3 phase, ~400V, 50Hz		
Capacity	Cooling	kW	6.0(0.9-6.3)	6.8(0.9-7.4)	8.5(2.8-9.6)	9.5(2.8-10.6)	12.1(4.0-12.6)	9.5(2.8-10.6)	12.1(4.0-12.6)	
	Heating		7.0(0.9-7.4)	7.5(0.9-8.6)	10.0(2.7-10.8)	10.8(2.7-12.5)	13.5(4.2-15.0)	10.8(2.7-12.5)	13.5(4.2-15.0)	
Input Power	Cooling/Heating	kW	1.92/2.00	2.19/2.00	2.78/2.77	3.13/3.03	4.84/4.18	3.13/3.03	4.84/4.18	
EER	Cooling	W/W	3.13	3.11	3.06	3.04	2.50	3.04	2.50	
COP	Heating		3.50	3.75	3.61	3.56	3.23	3.56	3.23	
Pdesign	Cooling/Heating(-10°C)	kW	6.0/4.4	6.8/5.4	8.5/8.0	9.5/8.7	-	9.5/8.7	-	
SEER	Cooling	W/W	5.8	5.9	5.8	5.6	-	5.6	-	
SCOP	Heating		3.8	3.9	3.9	3.9	-	3.9	-	
Energy Efficiency Class	Cooling		A+	A+	A+	A+	-	A+	-	
	Heating		A	A	A	A	-	A	-	
Max. Operating Current	Cooling/Heating	A	11.6/11.6	12.6/12.6	22.5/22.5	22.5/22.5	28.1/28.1	10.5/10.5	13.6/13.6	
Annual Energy Consumption	Cooling	kWh/a	362	403	513	594	-	594	-	
	Heating		1,620	1,935	2,871	3,122	-	3,122	-	
Moisture Removal		l/h	2.1	2.5	2.5	3.0	4.0	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	39/35/30/26	42/38/32/28
	Indoor (Heating)	H/M/L/Q		31/29/27/25	31/29/27/25	42/35/30/26	42/35/30/26	42/38/32/28	42/35/30/26	42/38/32/28
Sound Power Level	Outdoor(Cooling/Heating)	High		52/53	54/55	53/55	55/55	58/59	55/55	58/59
	Indoor(Cooling/Heating)	High		60/62	60/62	65/69	65/70	68/70	65/70	68/70
Airflow Rate	Outdoor(Cooling/Heating)	High	64/65	66/67	68/69	70/70	72/73	70/70	72/73	
	Indoor / Outdoor (Cooling)	High	m³/h	1,100/2,240	1,100/2,885	1,900/3,750	1,900/3,750	2,100/4,450	1,900/3,750	2,100/4,450
	Indoor / Outdoor (Heating)	High		1,100/2,240	1,100/2,350	2,100/3,750	2,100/3,750	2,100/4,450	2,100/3,750	2,100/4,450
Static pressure range (Standard)		Pa		30 - 150 (35)	30 - 150 (35)	30 - 150 (47)	30 - 150 (47)	30 - 150 (60)	30 - 150 (47)	30 - 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	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700
Weight	Outdoor	mm		632 × 799 × 290	632 × 799 × 290	788 × 940 × 320	788 × 940 × 320	998 × 940 × 320	788 × 940 × 320	998 × 940 × 320
	Indoor	kg(lbs)		35(77)	35(77)	38(84)	38(84)	39(86)	38(84)	39(86)
	Outdoor	kg(lbs)		36(79)	38(84)	52(115)	52(115)	61(134)	53(117)	62(137)
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	9.52/15.88	9.52/15.88
Drain port Diameter (I.D./O.D.)				25/32	25/32	25/32	25/32	25/32	35.7/38.1	35.7/38.1
Max. Pipe Length (Pre-Charge)		m		25 (15)	25(20)	30(30)	30(30)	30(30)	30(30)	30(30)
Max. Height Difference				20	20	30	30	30	30	30
Operating Range	Cooling	°CDB		-10 to 46	-10 to 46	-10 to 46	-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	-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)		1.1(0.743)	1.25(0.844)	1.90(1.283)	1.90(1.283)	2.4(1.620)	1.9(1.283)	2.4(1.620)

Ceiling



Model No.	Indoor unit		ABYG18KRTA	ABYG22KRTA	ABYG24KRTA	ABYG30KRTA	ABYG36KRTA	ABYG45KRTA	ABYG36KRTA	ABYG45KRTA	
	Outdoor unit		AOYG18KATA	AOYG22KATA	AOYG24KATA	AOYG30KATA	AOYG36KATA	AOYG45KATA	AOYG36KQTA	AOYG45KQTA	
Power Source			Single phase, ~230V, 50Hz						3 phase, ~400V, 50Hz		
Capacity	Cooling	kW	5.2(0.9-5.4)	6.0(0.9-6.3)	6.8(0.9-7.4)	8.5(2.8-9.6)	9.5(2.8-10.6)	12.1(4.0-12.6)	9.5(2.8-10.6)	12.1(4.0-12.6)	
	Heating		6.0(0.9-6.3)	7.0(0.9-7.4)	7.5(0.9-8.6)	10.0(2.7-10.8)	10.8(2.7-12.5)	13.5(4.2-15.0)	10.8(2.7-12.5)	13.5(4.2-15.0)	
Input Power	Cooling/Heating	kW	1.66/1.71	1.95/2.09	2.19/2.00	2.78/2.86	3.13/3.03	4.84/4.18	3.13/3.03	4.84/4.18	
EER	Cooling	W/W	3.13	3.08	3.11	3.06	3.04	2.50	3.04	2.50	
COP	Heating		3.51	3.35	3.75	3.5	3.56	3.23	3.56	3.23	
Pdesign	Cooling/Heating(-10°C)	kW	5.2/3.8	6.0/4.4	6.8/5.4	8.5/8.0	9.5/8.7	-	9.5/8.7	-	
SEER	Cooling	W/W	5.8	5.6	6.0	5.8	5.6	-	5.6	-	
SCOP	Heating		3.8	3.8	3.9	3.9	3.9	-	3.9	-	
Energy Efficiency Class	Cooling		A+	A+	A+	A+	A+	-	A+	-	
	Heating		A	A	A	A	A	-	A	-	
Max. Operating Current	Cooling/Heating	A	10.1/10.1	11.6/11.6	12.6/12.6	22.5/22.5	22.5/22.5	28.1/28.1	10.5/10.5	13.6/13.6	
Annual Energy Consumption	Cooling	kWh/a	538	375	679	512	594	-	594	-	
	Heating		1,398	1,618	1,935	2,871	3,117	-	3,117	-	
Moisture Removal		l/h	2.0	2.5	2.2	3.0	2.6	4.5	2.6	4.5	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	38/36/33/31	42/37/34/31	41/36/32/29	45/40/35/32	44/40/37/32	45/41/39/34	44/40/37/32	
	Indoor (Heating)	H/M/L/Q		38/36/33/31	42/37/34/31	41/36/32/29	45/40/35/32	44/40/37/32	45/41/39/34	44/40/37/32	
Sound Power Level	Outdoor(Cooling/Heating)	High		51/52	52/53	54/55	53/55	55/55	58/59	55/55	58/59
	Indoor(Cooling/Heating)	High		53/53	57/57	56/56	60/60	59/59	60/60	59/59	60/60
Airflow Rate	Outdoor(Cooling/Heating)	High	63/64	64/65	66/67	68/69	70/70	72/73	70/70	72/73	
	Indoor / Outdoor (Cooling)	High	840/1,710	900/2,240	1,230/2,885	1,400/3,750	1,850/3,750	1,900/4,450	1,850/3,750	1,900/4,450	
	Indoor / Outdoor (Heating)	High	840/1,840	900/2,240	1,230/2,350	1,400/3,750	1,800/3,750	1,850/4,450	1,800/3,750	1,850/4,450	
Net Dimensions H x W x D	Indoor	mm	235 × 1,080 × 705	235 × 1,080 × 705	235 × 1,390 × 705	235 × 1,390 × 705	235 × 1,700 × 705	235 × 1,700 × 705	235 × 1,700 × 705	235 × 1,700 × 705	
	Outdoor	mm	542 × 799 × 290	632 × 799 × 290	632 × 799 × 290	788 × 940 × 320	788 × 940 × 320	988 × 940 × 320	788 × 940 × 320	988 × 940 × 320	
Weight	Indoor	kg(lbs)	24(53)	24(53)	31(68)	31(68)	38(84)	38(84)	38(84)	38(84)	
	Outdoor	kg(lbs)	33(73)	36(79)	38(84)	52(115)	52(115)	61(134)	53(117)	62(137)	
Connection Pipe Diameter (Liquid / Gas)		mm	6.35/12.7	6.35/12.7	6.35/12.7	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.)			25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	
Max. Pipe Length (Pre-Charge)		m	20(15)	25(15)	25(20)	30(30)	30(30)	30(30)	30(30)	30(30)	
Max. Height Difference			15	20	20	30	30	30	30	30	
Operating 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	
	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)		R32(675)	R32(675)	R32(675)	R32(675)	R32(675)	R32(675)	R32(675)	R32(675)	
	Charge	kg(CO2eq-T)	0.9(0.608)	1.1(0.743)	1.25(0.844)	1.90(1.283)	1.90(1.283)	2.40(1.620)	1.90(1.283)	2.40(1.620)	

Feature Summary

Type		Wall Mounted						
Series		Flagship Series	Designer Series		Standard Series		ECO Series	
								
Model No.		ASYG12KXCA	ASYG07/09/12/14KGTB	ASYG07/09/12/14KETA, ASYG07/09/12/14KETA-B	ASYG07/09/12/14KMCC	ASYG18/24KMTB	ASYG30/36KMTA	ASYG07/09/12KPCA ASYG18/24KLCA
								
Energy Saving Function	 Dual side fans	●						
	 Save human sensor	●	●				●	
	 Save & Stop human sensor							
	 Economy mode	●	●	●	●	●	●	●
	 Room temperature set point limitation		○		○	○	○	
	 Set temperature auto return		○		○	○	○	
	 Powerful heating							
Comfortable Function	 Power diffuser	●						
	 Server room operation							
	 Powerful mode	●	●	●	●	●	●	●
	 10°C HEAT operation	●	●	●	●	●	●	
	 Low noise mode	●	●	●	●	●	●	
	 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							
	 Auto off timer		○		○	○	○	
	 Sleep timer	●	●	●	●	●	●	●
	 Program timer	●	●	●	●	●	●	●
Convenient Function	 Weekly timer		●	●	○	●	●	
	 Weekly + setback timer		○		○	○	○	
	 Filter sign		●	●	●	●	●	●
	 External error output		○		○	○	○	
	 External ON/OFF input		○		○	○	○	
	 Wireless LAN control	●	○		○	○	○	○
	 Plasma air clean	●						
Clean Function	 Filter auto clean	●						
	 Ion deodorization filter		●	●	○	●	●	
	 Apple-catechin filter		●	●	○	●	●	
	 Long life filter							
	 Washable panel		●	●		●		●
	 Automatic airflow adjustment							
Installation	 Drain pump as standard							
	 Blue fin					●		

○: Optional function

Feature Summary

Type		Cassette		Duct			Duct			Floor	Ceiling
Series		Compact 4-way Flow Series	Circular Flow Series	Slim (With drain pump)	Medium Static Pressure (Compact & Comfort)	Medium Static Pressure (Standard)	High Static Pressure		Big		
											
Model No.		AUXG 09/12/14/18/22/24 KVLA	AUXG 18/22/24/30/36/45/54 KRLB	ARXG09/12/14/18KLLAP	ARXG 12/14/18/22/24/30/36/45/54 KHTAP	ARXG22KMLB ARXG24/30/36/45KMLA	ARXG45/54KHTA	ARYG60LHTA	ARYG72/90LHTA	AGYG09/12/14KVCA	ABYG 18/22/24/30/36/45/54 KRTA
											
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)	○ (45/36/MLA)	○	○	○	●	○
	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	●	●	●	●	●	●	○	●	○	●
	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		● (30/36/45/54)	●	● (30/36/45/54)	● (45)	●	●	●		● (30/36/45/54)

○: Optional function



Light Commercial & Residential MULTI-SPLIT

- M-002 Multi-split Overview
- M-004 Multi-split Outdoor Units Lineup
- M-006 2-unit to 8-unit Multi-split Connectable Indoor Units
- M-010 Simultaneous Multi-split Connectable Indoor Units
- M-048 Feature Summary



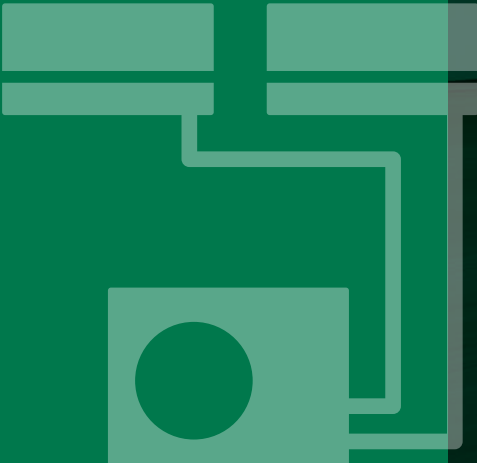
Refrigerant type R32 models

- M-012 2-unit to 5-unit Multi-split
- M-018 Simultaneous Multi-split Twin/Triple
-
- M-022 2-unit to 5-unit Multi-split Indoor Units Specifications
-
- M-026 2-unit to 5-unit Multi-split Combination Table



Refrigerant type R410A models

- 6-unit to 8-unit Multi-split**
- M-014 6-unit Multi-split
- M-016 8-unit Multi-split
- Simultaneous Multi-split**
- M-020 Simultaneous Multi-split Twin/Triple/Double Twin
-
- M-024 6-unit to 8-unit Multi-split Indoor Units Specifications
-
- M-036 6-unit to 8-unit Multi-split 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-split 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-split 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 3-unit, 4-unit, 5-unit Multi-split



3-unit 18/24 class



4-unit 30 class
5-unit 36 class

2-unit Multi-split



14 class



18 class

6-unit, 8-unit Multi-split



6-unit 45 class



8-unit 45 class

2-unit to 8-unit Multi-split

2-unit to 8-unit Multi-split types 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.

Twin/Triple



Twin 36 class
(Single phase/3 phase)



Twin/Triple 45/54 class
(Single phase/3 phase)



Twin/Triple/ Double Twin



72/90 class
(3 phase)

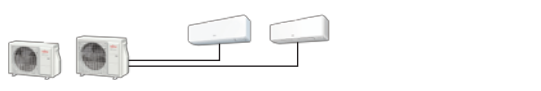
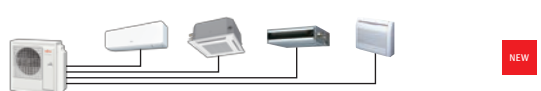
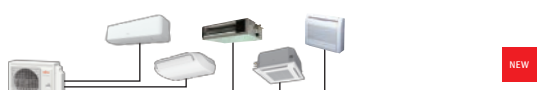
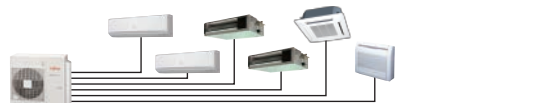
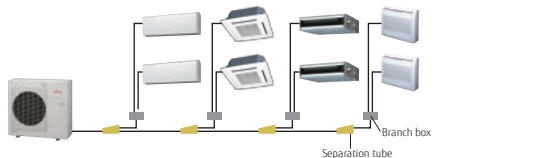
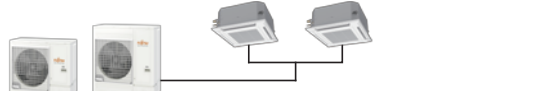
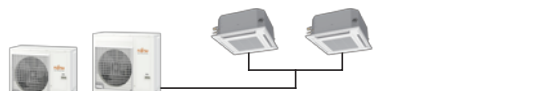
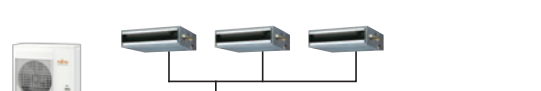
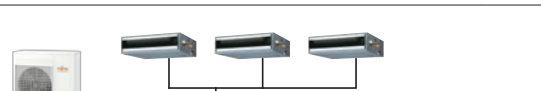
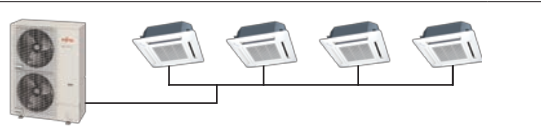
Simultaneous Multi-split

Simultaneous Multi-split 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.

Multi-split Outdoor Units Lineup



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

				Class	14	18	18	24	30	36	45	54	72	90	
				Cooling rated capacity(kW)	4.0	5.0	5.4	6.8	8.0	10.0	12.5	14.0	14.0	19.0	22.0
2-unit, 3-unit, 4-unit, 5-unit Multi-split	2-unit Multi-split Up to 2 units			AOYG14KBTA2	AOYG18KBTA2										
	3-unit Multi-split Up to 3 units		 			AOYG18KBTA3	AOYG24KBTA3								
	4-unit Multi-split Up to 4 units		 					AOYG30KBTA4							
	5-unit Multi-split Up to 5 units		 						AOYG36KBTA5*1						
6-unit Multi-split	6-unit Multi-split Up to 6 units										AOYG45LBA6*				
8-unit Multi-split Up to 8 units			 Branch box Separation tube									AOYG45LBT8*			
Simultaneous Multi-split	Twin Single phase									AOYG36KBTB	AOYG45KBTB				
	Twin 3 phase									AOYG36KRTA	AOYG45KRTA				
	Twin/Triple Single phase												AOYG54KBTB		
	Twin/Triple 3 phase												AOYG54KRTA		
	Twin/Triple/ Double Twin 3 phase													AOYG72LRLA	AOYG90LRLA

Note: 1. 2-unit Multi-split: 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 7.5 kW.

2. 3-unit Multi-split: Connectable indoor units are 2 to 3 units.
AOYG18KBTA3: Total capacity of indoor units connected must be between 4.0 kW and 8.5 kW.
AOYG24KBTA3: Total capacity of indoor units connected must be between 4.0 kW and 10.5 kW.

3. 4-unit Multi-split: Connectable indoor units are 2 to 4 units.
AOYG30KBTA4: Total capacity of indoor units connected must be between 7.5 kW and 14.0 kW.

4. 5-unit Multi-split: Connectable indoor units are 2 to 5 units.
AOYG36KBTA5: Total capacity of indoor units connected must be between 7.5 kW and 15.5 kW.

5. 6-unit Multi-split: Connectable indoor units are 2 to 6 units.
AOYG45LBA6: Total capacity of indoor units connected must be between 9.5 kW and 18.0 kW.

6. 8-unit Multi-split: 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.

Cooling rated capacity: *1: 9.5kW

2-unit to 8-unit Multi-split Connectable Indoor Units



Type	2-unit		3-unit		4-unit	5-unit
Model name	AOYG14KBT2	AOYG18KBT2	AOYG18KBT3	AOYG24KBT3	AOYG30KBT4	AOYG36KBT5
Multi-split Type Outdoor Unit						
						
Capacity (kW)	Cooling	4.0	5.0	5.4	6.8	8.0
	Heating	4.4	5.6	6.8	8.0	9.6

Indoor Unit	BTU	kW Class						
 ASYG07/09/12/14KGTB	7,000	2.0	●	●	●	●	●	●
	9,000	2.5	●	●	●	●	●	●
	12,000	3.5	●	●	●	●	●	●
 ASYG07/09/12/14KMCC	14,000	4.0	—	●	●	●	●	●
	18,000	5.0	—	—	—	●	●	●
 ASYG18/22/24KMTB	22,000	6.0	—	—	—	—	●	●
	24,000	7.0	—	—	—	—	●	●
 AGYG09/12/14KVCA	9,000	2.5	●	●	●	●	●	●
	12,000	3.5	●	●	●	●	●	●
	14,000	4.0	—	●	●	●	●	●
 AUXG07/09/12/14/18/22KVLA	7,000	2.0	●	●	●	●	●	●
	9,000	2.5	●	●	●	●	●	●
	12,000	3.5	●	●	●	●	●	●
	14,000	4.0	—	●	●	●	●	●
	18,000	5.0	—	—	—	●	●	●
 ARXG07/09/12/14/18KSLAP	22,000	6.0	—	—	—	—	●	●
	7,000	2.0	●	●	●	●	●	●
	9,000	2.5	●	●	●	●	●	●
	12,000	3.5	●	●	●	●	●	●
	14,000	4.0	—	●	●	●	●	●
 ARXG07/09/12/14/18KLLAP	18,000	5.0	—	—	—	●	●	●
	7,000	2.0	●	●	●	●	●	●
	9,000	2.5	●	●	●	●	●	●
	12,000	3.5	●	●	●	●	●	●
	14,000	4.0	—	●	●	●	●	●
 ARXG22KMLB	18,000	5.0	—	—	—	—	●	●
	22,000	6.0	—	—	—	—	●	●
 ABYG18/22KRTA	18,000	5.0	—	—	—	—	●	●
	22,000	6.0	—	—	—	—	●	●



Type	6-unit		8-unit
Model name	AOYG45LBA6		AOYG45LBT8
Multi-split Type Outdoor Unit			
Capacity (kW)	Cooling	12.5	14.0
	Heating	13.5	16.0

Indoor Unit	BTU	kW Class		
 ASYG07/09/12/14LMCE	7,000	2.0	●	●
	9,000	2.5	●	●
	12,000	3.5	●	●
 ASYG07/09/12/14LUCA	14,000	4.0	●	●
	18,000	5.0	●	●
 ASYG18/24LF	24,000	7.0	●	●
	9,000	2.5	●	●
 AGYG09/12/14LV	12,000	3.5	●	●
	14,000	4.0	●	●
	18,000	5.0	●	●
 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	●	●
 ABYG14LVTA	14,000	4.0	●	●
	18,000	5.0	●	●
 ARYG07/09/12/14/18SLAP	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-split Connectable Indoor Units



Type	4HP		5HP		6HP	
Model name	AOYG36KBTB	AOYG36KRTA	AOYG45KBTB	AOYG45KRTA	AOYG54KBTB	AOYG54KRTA
Simultaneous Multi-split 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
 ARXG22KMLB ARXG24KMLA	22,000	6.5	—	● ×2	—	—
	24,000	7.0	—	—	● ×2	—
Separation tube			UTP-SX236A (18/22/24)			UTP-SX354A (18)



Type	8HP		10HP	
Model name	AOYG72LRLA		AOYG90LRLA	
Simultaneous Multi-split Outdoor Unit				
Capacity (kW)	Cooling	19.0	22.0	
	Heating	22.4	27.0	

Indoor Unit	BTU	kW Class	Twin	Triple	Double Twin	Twin	Triple	Double Twin
 AUYG18/22/24LV	18,000	5.0	—	—	● ×4	—	—	—
	22,000	6.5	—	—	—	—	—	● ×4
	24,000	7.0	—	● ×3	—	—	—	—
 AUYG30/36/45LR	30,000	8.8	—	—	—	—	● ×3	—
	36,000	10.6	● ×2	—	—	—	—	—
	45,000	12.5	—	—	—	● ×2	—	—
 ARYG18LLTB	18,000	5.0	—	—	● ×4	—	—	—
	22,000	6.5	—	—	—	—	—	● ×4
	24,000	7.0	—	● ×3	—	—	—	—
 ARYG22/24/30/36/45LM	30,000	8.8	—	—	—	—	● ×3	—
	36,000	10.6	● ×2	—	—	—	—	—
	45,000	12.5	—	—	—	● ×2	—	—
	18,000	5.0	—	—	● ×4	—	—	—
 ABYG18/22/24LV	22,000	6.5	—	—	—	—	—	● ×4
	24,000	7.0	—	● ×3	—	—	—	—
	30,000	8.8	—	—	—	—	● ×3	—
 ABYG30/36/45LR	36,000	10.6	● ×2	—	—	—	—	—
	45,000	12.5	—	—	—	● ×2	—	—
Separation tube			UTP-SX272A ×1	UTP-SX372A ×1	UTP-SX272A ×1, UTP-SX236A ×2	UTP-SX272A ×1	UTP-SX372A ×1	UTP-SX272A ×1, UTP-SX254A ×2

2-unit,
3-unit,
4-unit,
5-unit,
Multi-split



High energy saving

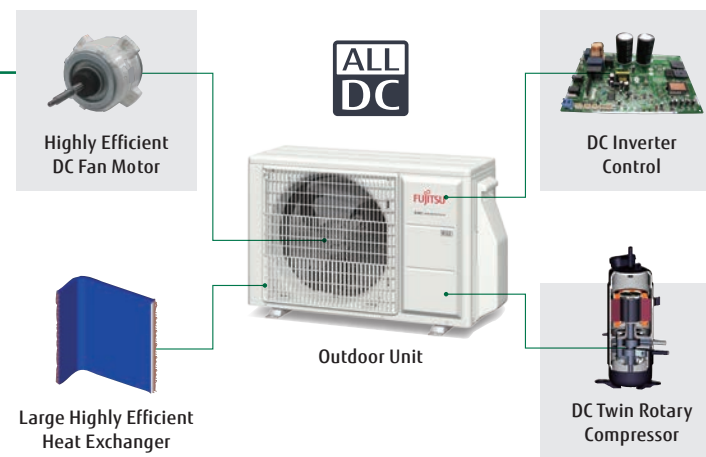
All models achieve high energy efficiency rank of A+++ for cooling and A++ for heating by using High efficiency DC twin rotary compressor.

Rank
Cooling
A+++
Heating
A++

SEER
8.7^{*1}

SCOP
4.7

^{*1}: 2-unit 14 class



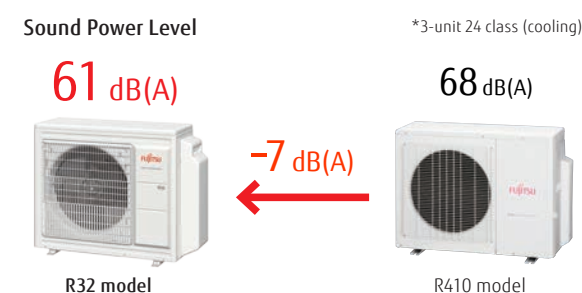
R32 refrigerant model

R32 refrigerant is highly energy efficient, plus the volumetric capacity of R32 is higher than that of R410A. R32 models require less refrigerant charge amount compared with R410A models.

	Pre-charge refrigerant amount (kg)	
	R32	R410A
2-unit 14 class	0.9	1.25
2-unit 18 class	1.02	1.30
3-unit 18 class	1.8	2.2
3-unit 24 class	1.8	2.2
4-unit 30 class	2.2	3.3
5-unit 36 class	2.5	4.0

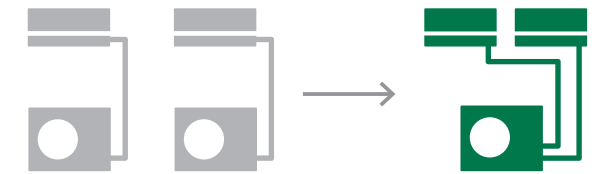
Quiet operation

Maximum 7dB lower sound power level compared with current R410A model.



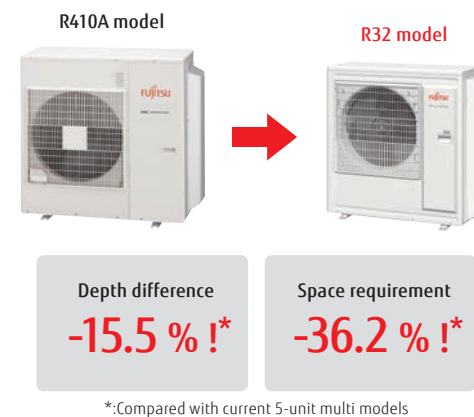
Space-saving installation

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.



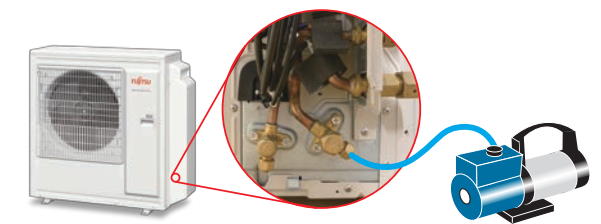
Compact design

Compared with single type, the outdoor unit can be installed in various places to realize the space-saving installation.



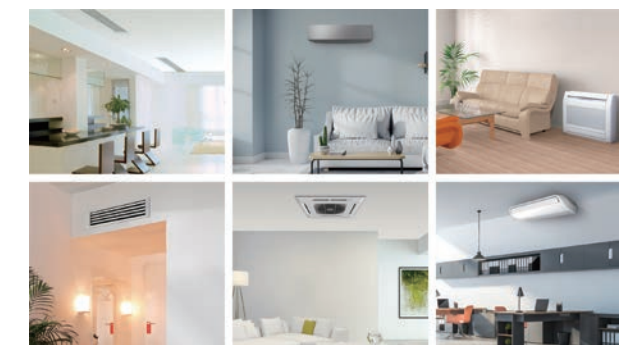
Easy evacuation

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



Wide range of indoor units with various models

5 types / 41 models are lined up in the capacity range from 2.0 kW to 6.0 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 in small spaces.



2-unit: AOYG14KBTA2 / AOYG18KBTA2
3-unit: **NEW** AOYG18KBTA3 / **NEW** AOYG24KBTA3
4-unit: **NEW** AOYG30KBTA4
5-unit: **NEW** AOYG36KBTA5



Specifications (2-unit)

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 (1.8-6.6)		
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	m³/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		9.52 × 2		9.52 × 2		
Max. Pipe Length		Total / Each	30 / 20		30 / 20		
Max. Height Difference	Between Outdoor Unit and Each Indoor Units.		m	15		15	
	Between Indoor Units.			10		10	
Operating 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 (0.608)		1.02 (0.689)		

Specifications (3-unit)

Model No.			AOYG18KBTA3		AOYG24KBTA3	
Power Source			Single phase, ~230V, 50Hz			
Rated Capacity (Min. - Max.)	Cooling	kW	5.4 (1.8-7.0)		6.8(1.8-8.5)	
	Heating		6.8 (2.0-8.0)		8.0(2.0-9.2)	
EER	Cooling	W/W	4.78		3.90	
	Heating		4.89		4.40	
Sound Pressure Level (High)	Cooling	dB(A)	46		48	
	Heating		49		53	
Sound Power Level (High)	Cooling		59		61	
	Heating		61		67	
Airflow Rate	Cooling/Heating	m³/h	2,220/2,160		2,270/2,730	
Net Dimensions H × W × D		mm	716 × 820 × 315		716 × 820 × 315	
Weight		kg(lbs)	46(102)		46(102)	
Connection Pipe Diameter	Liquid	mm	6.35 × 3		6.35 × 3	
	Gas		9.52 × 3		9.52 × 2, 12.70 × 1 adapter [12.70 → 9.52] × 1	
Max. Pipe Length		Total / Each	50/25		50/25	
Max. Height Difference	Between Outdoor Unit and Each Indoor Units.	m	15		15	
	Between Indoor Units.		10		10	
Operating 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)	1.8 (1.215)		1.8 (1.215)	

Specifications (4-unit, 5-unit)

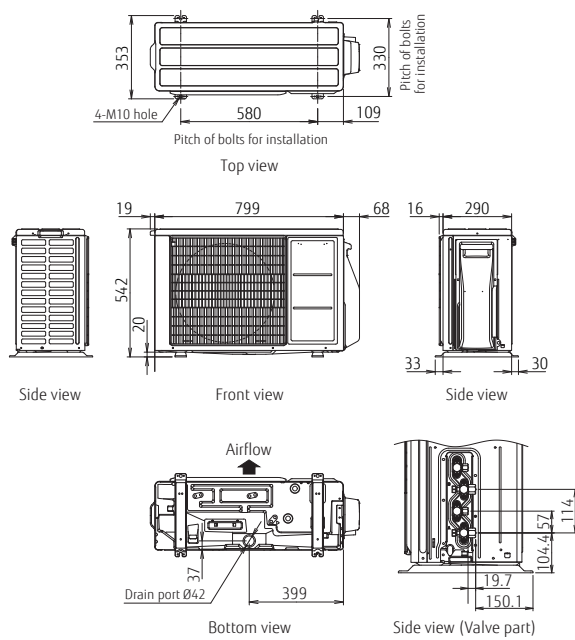
Model No.			AOYG30KBTA4		AOYG36KBTA5		
Power Source			Single phase, ~230V, 50Hz				
Rated Capacity (Min. - Max.)	Cooling	kW	8.0 (2.4-10.1)		9.5 (3.0-11.0)		
	Heating		9.6 (3.0-11.2)		10.6 (3.5-12.0)		
EER	Cooling	W/W	3.90		3.80		
COP	Heating		4.55		4.50		
Sound Pressure Level (High)	Cooling	dB(A)	50		52		
	Heating		54		55		
Sound Power Level (High)	Cooling		63		65		
	Heating		66		68		
Airflow Rate	Cooling/Heating	m³/h	2,400/2,950		2,450/2,900		
Net Dimensions H × W × D		mm	884 × 820 × 315		884 × 820 × 315		
Weight		kg(lbs)	55(121)		59(130)		
Connection Pipe Diameter	Liquid	mm	6.35×4		6.35×5		
	Gas		9.52 × 2, 12.70 × 2 adapter [12.70 → 9.52] × 2		9.52 × 3, 12.70 × 2 adapter [12.70 → 9.52] × 2 adapter [9.52 → 12.70] × 1		
Max. Pipe Length*		Total / Each	70/25		75/25		
Max. Height Difference	Between Outdoor Unit and Each Indoor Units.		m	15		15	
	Between Indoor Units.			10		10	
Operating 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)	2.2 (1.485)		2.5 (1.688)		

*The length would not be applied when floor units are connected. For the detailed condition, please refer to the installation manual.

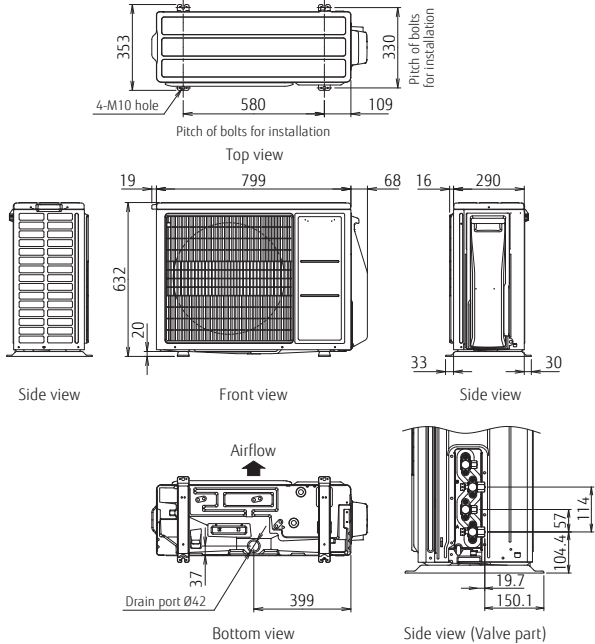
Dimensions

(Unit : mm)

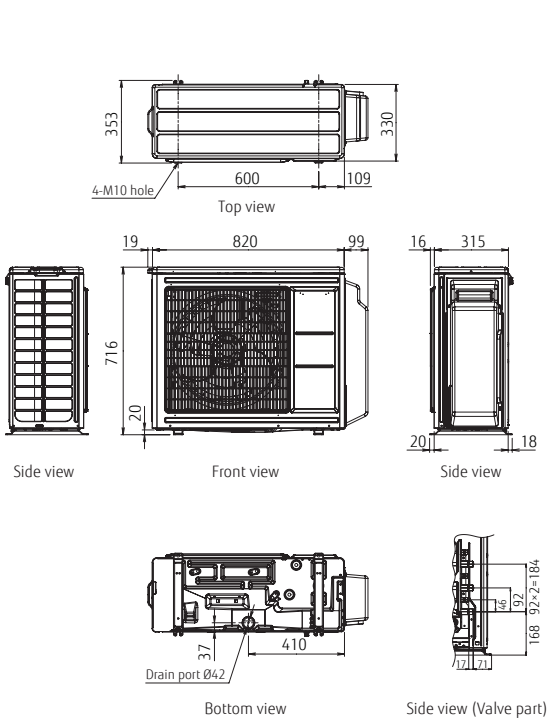
2-unit: AOYG14KBTA2



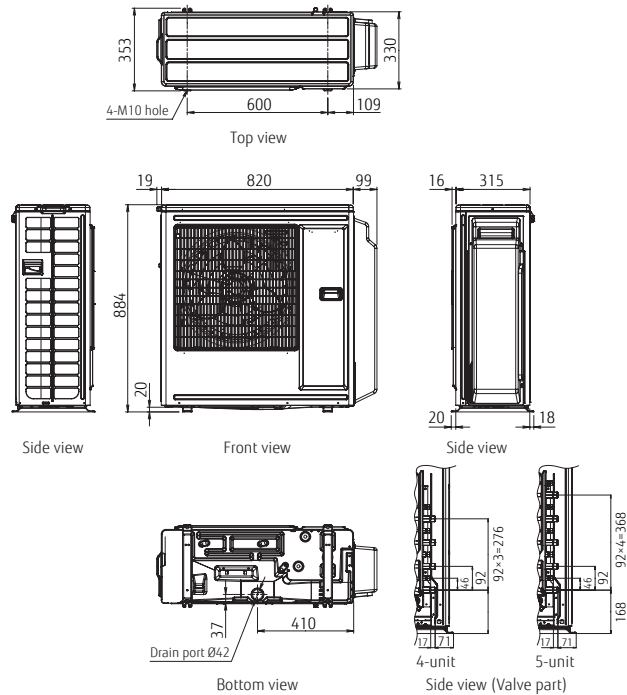
2-unit: AOYG18KBTA2



3-unit: AOYG18KBTA3 / AOYG24KBTA3



4-unit: AOYG30KBTA4
5-unit: AOYG36KBTA5

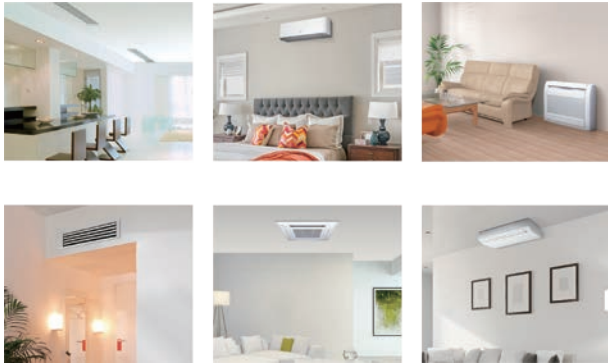


6-unit
Multi-split



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.



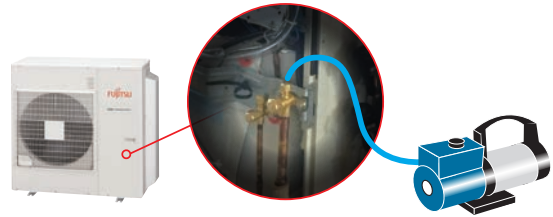
Compact design

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



6-unit: AOYG45LBLA6

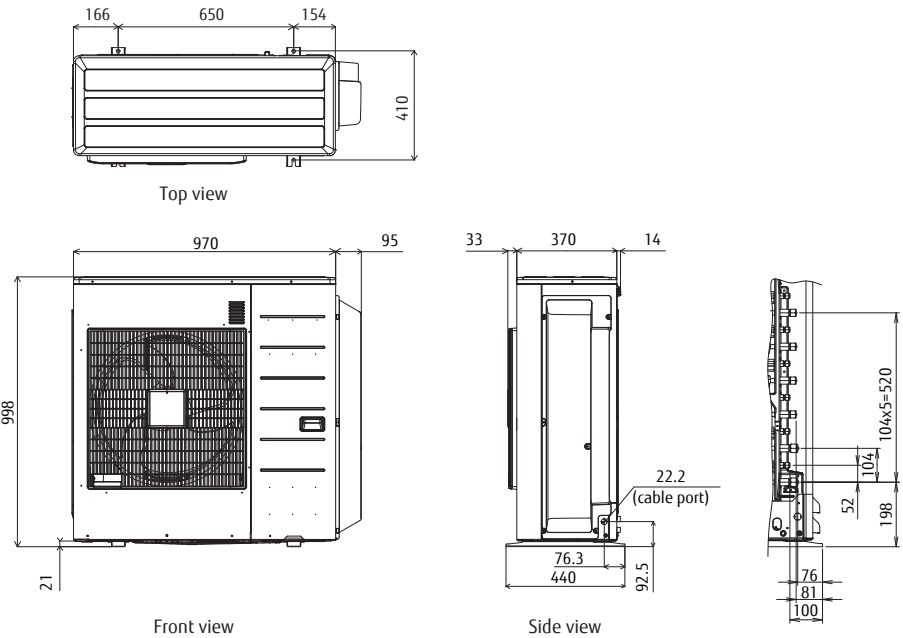


Specifications (5-unit, 6-unit)

Model No.			AOYG45LBLA6	
Power Source			Single phase, ~230V, 50Hz	
Rated Capacity (Min. - Max.)	Cooling	kW	12.5 (3.5-14.0)	
	Heating		13.5 (3.5-16.0)	
EER	Cooling	W/W	3.50	
COP	Heating		4.00	
Sound Pressure Level (High)	Cooling	dB(A)	53	
	Heating		55	
Sound Power Level (High)	Cooling		-	
	Heating		-	
Airflow Rate	Cooling/Heating	m³/h	4,200/4,200	
Net Dimensions H × W × D		mm	998 × 970 × 370	
Weight		kg(lbs)	94 (207)	
Connection Pipe Diameter	Liquid	mm	6.35×6	
	Gas		9.52 × 4, 12.70 × 2	
Max. Pipe Length	Total / Each		80 / 25	
Max. Height Difference	Between Outdoor Unit and Each Indoor Units.	m	15	
	Between Indoor Units.		10	
Operating Range	Cooling	°CDB	-10 to 46	
	Heating		-15 to 24	
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	
	Charge	kg(CO2eq-T)	4.00 (8.352)	

Dimensions

(Unit : mm)

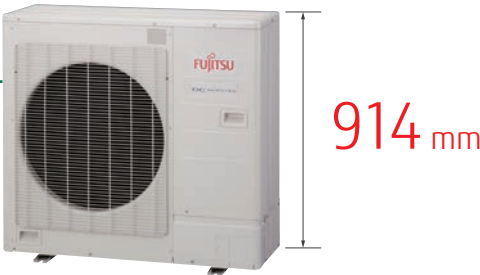


8-unit
Multi-split



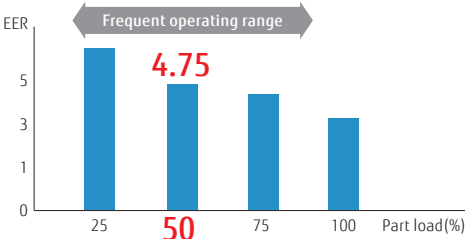
Compact outdoor unit

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.



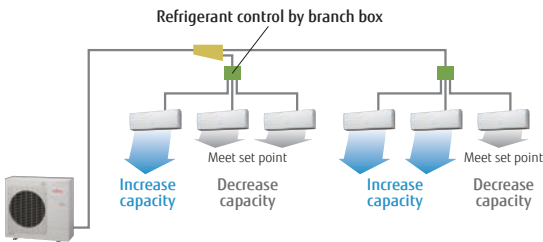
Heat exchanger:
Reduced compact size and energy saving has been realized by utilizing high density piping design and 3-Row heat exchanger.



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-unit: AOYG45LBT8

Branch Box: UTP-PY03A / UTP-PY02A



Specifications (Outdoor unit/Branch box)

Outdoor Unit Model Name			AOYG45LBT8
Maximum Connectable Indoor Unit			8
Indoor Unit Connectable Capacity		Cooling	11.2 - 18.2
		kW	
Power source			Single phase, ~230V, 50Hz
Rated Capacity	Cooling	kW	14.0
	Heating	kW	16.0
Input Power	Cooling	kW	5.20
	Heating	kW	5.07
Airflow rate	Cooling	m³/h	4,650
	Heating	m³/h	4,800
Sound Pressure Level	Cooling	dB(A)	56
	Heating	dB(A)	58
Heat Exchanger Fin			Plate fin coil
Net Dimensions H × W × D		mm	914 × 970 × 370
Weight		kg(lbs)	98 (216)
Connection Pipe Diameter (Liquid / Gas)		mm	9.52/15.88
Max. Pipe Length		m	115 (Total)
Max. Height Difference (O.U ~ I.U)		m	30
Operating Range	Cooling	°CDB	-5 to 46
	Heating	°CDB	-15 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)
	Charge	kg(CO2eq-T)	3.45 (7.204)

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
Running Current		A	0.05
Net Dimensions H × W × D		mm	195 × 433 × 370
Weight		kg(lbs)	9 (20)
Connection pipe diameter	Liquid	°CDB	Main: 9.52×1, Branch:6.35×3
	Gas	°CDB	Main: 15.88×1, Branch:12.70×3
	Method		Flare

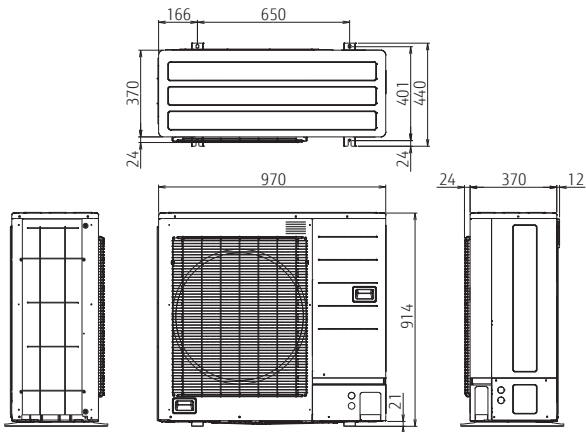
Note: Specifications are based on the following conditions.

- 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

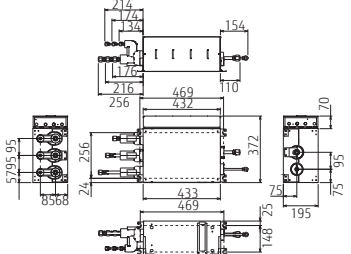
Dimensions

(Unit : mm)

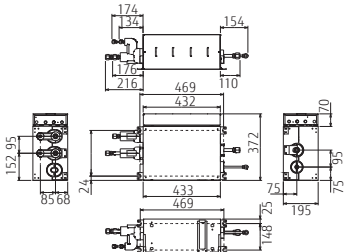
Outdoor Unit:
AOYG45LBT8



Branch Box :
UTP-PY03A (3 zones type)



Branch Box :
UTP-PY02A (2 zones type)



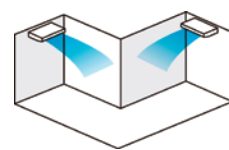
Simultaneous
Multi-split
Twin/Triple



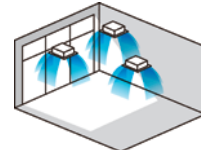
Supports various installation scenes from
office to commercial space, inside the same
room and multi connection of up to 3 indoor units.

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



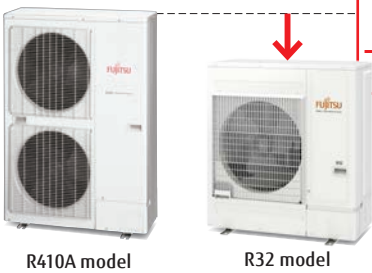
Installation according to
lighting conditions



Design flexibility

Slim & Compact design

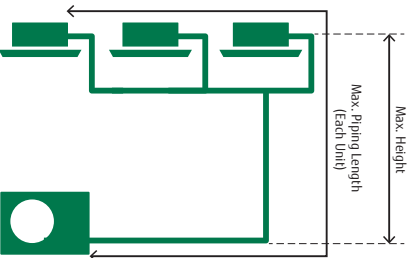
This model is much more compact than a conventional outdoor unit.
Unit. Significant reduced height of the product supports
installations in narrow spaces.



Height
-22.7%*
(* : 45/54models)

Flexible installation

Up to max. piping length of 50 m, max. height difference of 30 m
can be supported. Multi-split 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
AOYG36KRTA [3 phase] / AOYG45KRTA [3 phase] / AOYG54KRTA [3 phase]



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	m³/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	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570
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	ARXG22KMLB	ARXG24KMLA
Power Source				Single phase, ~230V, 50Hz		
Airflow Rate	Cooling	H/M/L/Q	m³/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	198 × 900 × 620	270 × 1,135 × 700	270 × 1,135 × 700
Weight			kg(lbs)	20 (44)	35 (77)	35 (77)

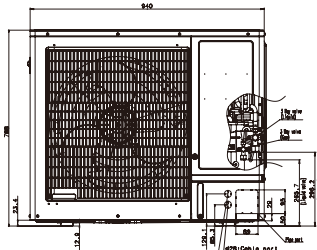
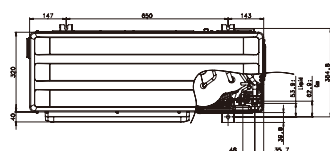
Outdoor Units Model No.			AOYG36KBTB	AOYG45KBTB	AOYG54KBTB	AOYG36KRTA	AOYG45KRTA	AOYG54KRTA
Capacity	Cooling	kW	9.5	12.1	13.4	9.5	12.1	13.4
	Heating		10.8	13.5	15.5	10.8	13.5	15.5
Power Source			Single phase, ~230V, 50Hz			3 phase, ~400V, 50Hz		
Pdesign	Cooling	kW	9.5	—	—	9.5	-	-
	Heating (-10°C)		8.7	—	—	8.7	-	-
SEER	Cooling	W/W	6.10	—	—	6.10	-	-
SCOP	Heating		4.00	—	—	4.00	-	-
Annual Energy Consumption	Cooling	kWh/a	545	—	—	545	-	-
	Heating		3,044	—	—	3,044	-	-
Energy Efficiency Class	Cooling		A++	—	—	A++	-	-
	Heating		A+	—	—	A+	-	-
Sound Pressure Level (High)	Cooling	dB(A)	55	57	57	55	57	57
	Heating		55	57	59	55	57	59
Sound Power Level (High)	Cooling		70	71	73	70	71	73
	Heating		70	71	73	70	71	73
Airflow Rate	Cooling / Heating	m³/h	3,750/3,750	4,450/4,450	4,450/4,450	3,750/3,750	4,450/4,450	4,450/4,450
Net Dimension H × W × D			mm	788 × 940 × 320	998 × 940 × 320	998 × 940 × 320	788 × 940 × 320	998 × 940 × 320
Weight			kg(lbs)	52 (115)	67 (148)	67 (148)	53 (117)	67 (148)
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
Max. Pipe Length (Pre-Charge)			m	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)
Max. Height Difference				30	30	30	30	30
Operating 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)	kg(CO2eq-T)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge		1.90(1.283)	2.70(1.823)	2.70(1.823)	1.90(1.283)	2.70(1.823)	2.70(1.823)
Separation tube			UTP-SX236A(Twin)	UTP-SX236A(Twin)	UTP-SX236A(Twin) UTP-SX354A(Triple)	UTP-SX236A (Twin)	UTP-SX236A (Twin)	UTP-SX236A(Twin) UTP-SX354A(Triple)

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

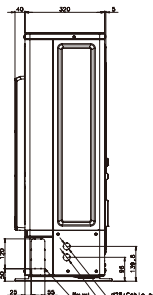
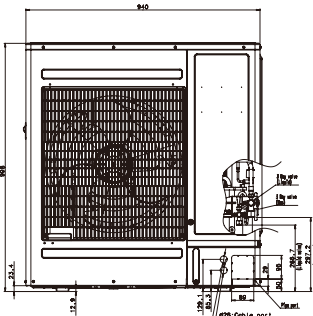
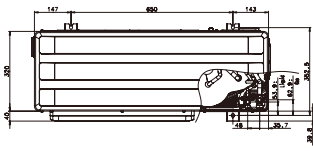
Dimensions

(Unit : mm)

AOYG36KBTB / AOYG36KRTA



AOYG45KBTB / AOYG54KBTB
AOYG45KRTA / AOYG54KRTA

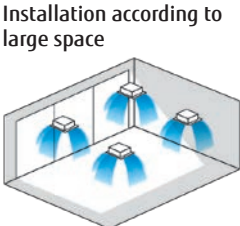
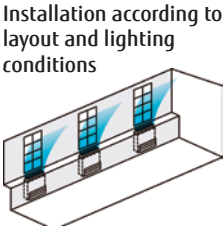
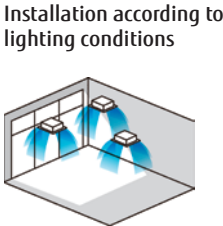
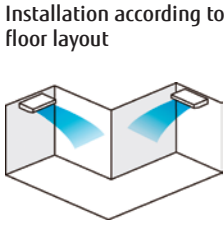


Simultaneous
Multi-split
Twin/Triple/Double Twin



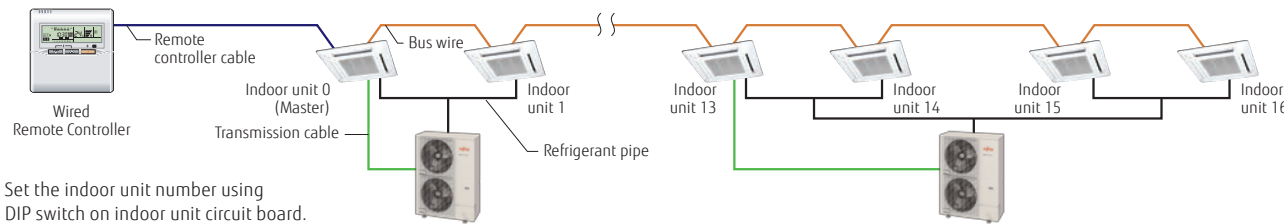
Support various applications from open plan offices to retail stores, with up to 4 indoor units.

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.



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°C 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.



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



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	m³/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	m³/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	ABYG45LRTE
Power Source				Single phase, ~230V, 50Hz					
Airflow Rate	Cooling	H/M/L/Q	m³/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)

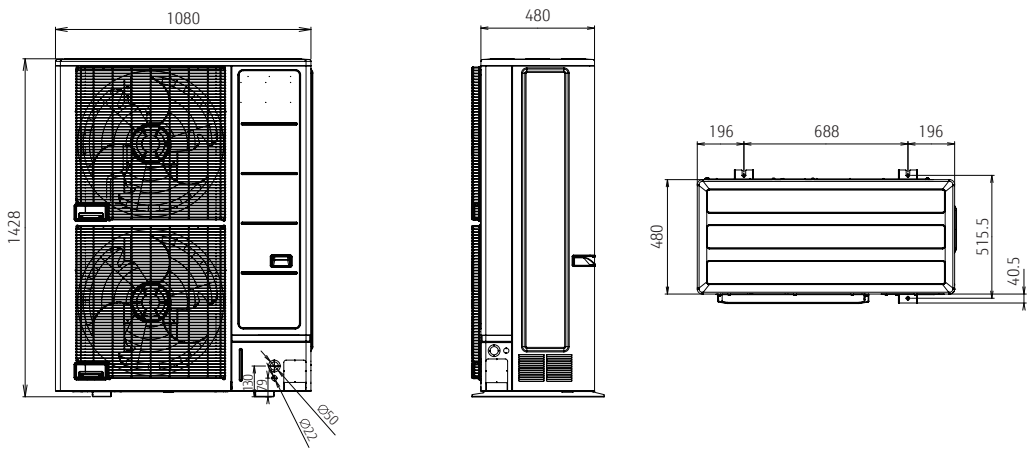
Outdoor Units Model No.			AOYG72LRLA			AOYG90LRLA		
Capacity	Cooling	kW	19.0			22.0		
	Heating		22.4			27.0		
Power Source			3 phase, ~400V, 50Hz					
Sound Pressure Level (High)	Cooling/Heating	dB(A)	55/55			55/57		
Airflow Rate	Cooling / Heating	m³/h	8,400/8,400			8,400/9,000		
Net Dimension H × W × D		mm	1,428 × 1,080 × 480			1,428 × 1,080 × 480		
Weight		kg(lbs)	163 (359)			172 (379)		
Connection Pipe Diameter (Liquid / Gas)		mm	12.7/25.4			12.7/25.4		
Max. Pipe Length (Pre-Charge)		m	100 (30)			100 (30)		
Max. Height Difference			30			30		
Operating 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 (11.693)			7.1 (14.825)		
Separation tube			UTP-SX272A × 1 (Twin)	UTP-SX372A × 1 (Triple)	UTP-SX272A × 1 UTP-236A × 2 (Double Twin)	UTP-SX272A × 1 (Twin)	UTP-SX372A × 1 (Triple)	UTP-SX272A × 1 UTP-SX254A × 2 (Double Twin)

*: That specification is not fixed yet.

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

Dimensions

(Unit : mm)



New 2-unit to 5-unit Multi-split Indoor Units Specifications

Wall mounted



Model No.	Indoor unit			ASYG07KGTB	ASYG09KGTB	ASYG12KGTB	ASYG14KGTB
kW Class				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	56	57
	Heating			56	57	58	59
Airflow Rate	Cooling	H/M/L/Q	m³/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	270 × 834 × 215	270 × 834 × 215	270 × 834 × 215
Weight				kg(lbs)	10 (22)	10 (22)	10 (22)
Connection Pipe Diameter				Liquid/Gas	6.35/9.52	6.35/9.52	6.35/9.52

Wall mounted



Model No.	Indoor unit			ASYG07KETA ASYG07KETA-B	ASYG09KETA ASYG09KETA-B	ASYG12KETA ASYG12KETA-B	ASYG14KETA ASYG14KETA-B
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	m³/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		295 × 950 (wall side : 840) × 230	295 × 950 (wall side : 840) × 230	295 × 950 (wall side : 840) × 230	295 × 950 (wall side : 840) × 230
Weight		kg(lbs)		11(24)	11(24)	11(24)	11.5(25)
Connection Pipe Diameter		Liquid/Gas		6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52

Wall mounted



Model No.	Indoor unit			ASYG07KMCC	ASYG09KMCC	ASYG12KMCC	ASYG14KMCC
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	m³/h	650/540/430/320	700/560/430/320	700/560/430/320	770/600/450/310
	Heating			720/580/460/330	750/610/470/330	780/640/520/330	820/660/520/340
Net Dimensions			mm	270 × 834 × 222	270 × 834 × 222	270 × 834 × 222	270 × 834 × 222
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			ASYG18KMTB	ASYG22KMTB	ASYG24KMTB
kW Class		kW		5.0	6.0	7.0
Power Source				Single-phase, ~230V, 50Hz		
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	45/40/35/29	48/40/35/29	49/40/35/29
	Heating			46/40/35/29	48/40/35/29	49/40/35/29
Sound Power Level	Cooling	H	dB(A)	60	62	65
	Heating			61	62	65
Airflow Rate	Cooling	H/M/L/Q	m³/h	980/810/640/510	1,060/810/640/510	1,170/850/640/510
	Heating			1,020/850/640/510	1,060/850/640/510	1,170/850/640/510
Net Dimensions		mm		280 × 980 × 240		
Weight		kg(lbs)		12.5(27)		
Connection Pipe Diameter		Liquid/Gas		6.35/12.70		

Floor



Model No.	Indoor unit			AGYG09KVCA	AGYG12KVCA	AGYG14KVCA
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	m³/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		
Weight			kg(lbs)	14(31)		
Connection Pipe Diameter			Liquid/Gas	6.35/9.52		

Ceiling



Model No.	Indoor unit			ABYG18KRTA	ABYG22KRTA
kW Class		kW		5.0	6.0
Power Source				Single-phase, ~230V, 50Hz	
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	38/36/33/31	42/37/34/31
	Heating			38/36/33/31	42/37/34/31
Sound Power Level	Cooling	H	dB(A)	53	57
	Heating			53	57
Airflow Rate	Cooling	H/M/L/Q	m³/h	840/790/710/650	900/790/710/650
	Heating			840/790/710/650	900/790/710/650
Net Dimensions		mm		235 × 1,080 × 705	235 × 1,080 × 705
Weight		kg(lbs)		24(52)	24(52)
Connection Pipe Diameter		Liquid/Gas		6.35/12.70	6.35/12.70

Compact cassette Grid type



Model No.	Indoor unit			AUXG07KVLA	AUXG09KVLA	AUXG12KVLA	AUXG14KVLA	AUXG18KVLA	AUXG22KVLA
kW Class			kW	2.0	2.5	3.5	4.0	5.0	6.0
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	38/35/32/29	44/42/36/30
	Heating			34/32/29/27	34/32/29/27	37/34/31/29	43/38/34/30	43/38/34/30	45/43/40/33
Sound Power Level	Cooling	H	dB(A)	46	46	49	50	50	56
	Heating			47	47	49	55	55	57
Airflow Rate	Cooling	H/M/L/Q	m³/h	540/490/440/390	540/490/440/390	610/530/470/410	680/580/490/410	680/580/490/410	830/740/600/450
	Heating			540/490/440/390	540/490/440/390	610/530/470/410	790/680/580/450	790/680/580/450	860/760/700/530
Net Dimensions			mm	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570
Weight			kg(lbs)	15 (33)	15 (33)	15 (33)	15 (33)	15(33)	16(35)
Panel				UTG-UFYF-W	UTG-UFYF-W	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	6.35/12.70	6.35/12.70

Mini duct



Model No.	Indoor unit			ARXG07KSLAP	ARXG09KSLAP	ARXG12KSLAP	ARXG14KSLAP	ARXG18KSLAP
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	m³/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 × 900 × 450
Weight			kg(lbs)	15.5 (34)		15.5 (34)		18.5(40)
Connection Pipe Diameter		Liquid/Gas	mm	6.35/9.52		6.35/9.52		6.35/12.70
External static pressure			Pa	0 to 30		0 to 30		0 to 50
Drain pump				Standard		Standard		Standard

Slim duct



Model No.	Indoor unit			ARXG07KLLAP	ARXG09KLLAP	ARXG12KLLAP	ARXG14KLLAP	ARXG18KLLAP
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	32/30/29/27
	Heating			28/26/25/24	28/26/25/24	29/28/27/24	32/30/28/25	32/30/29/27
Sound Power Level	Cooling	H	dB(A)	57	57	58	60	58
	Heating			57	57	58	60	58
Airflow Rate	Cooling	H/M/L/Q	m³/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 × 900 × 620
Weight			kg(lbs)	16 (35)		17 (37)		20(44)
Connection Pipe Diameter		Liquid/Gas	mm	6.35/9.52		6.35/9.52		6.35/12.70
External static pressure			Pa	0 to 90		0 to 90		0 to 90
Drain pump				Standard		Standard		Standard

Medium Static Pressure Duct



Model No.	Indoor unit			ARXG22KMLB
kW Class			kW	6.0
Power Source				Single-phase, ~230V, 50Hz
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	31/29/27/25
	Heating			31/29/27/25
Sound Power Level	Cooling	H	dB(A)	60
	Heating			62
Airflow Rate	Cooling	H/M/L/Q	m³/h	1,100/910/750/580
	Heating			1,100/910/750/580
Net Dimensions			mm	270 × 1,135 × 700
Weight			kg(lbs)	35(77)
Connection Pipe Diameter		Liquid/Gas	mm	6.35/12.70
External static pressure			Pa	30 to 150
Drain pump				Standard

6-unit to 8-unit Multi-split 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	m³/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	m³/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	
Weight			kg(lbs)	14 (31)	
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	m³/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 (19)	8.5 (19)	8.5 (19)	8.5 (19)
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	m³/h	530/440/380/270	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 (31)	14 (31)	14 (31)
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) 39/37/36/32 (Floor console)	41/38/34/32 (Under ceiling) 44/41/37/35 (Floor console)
	Heating			36/34/33/29 (Under ceiling) 39/37/36/32 (Floor console)	41/38/34/32 (Under ceiling) 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	m³/h	640/590/540/480	780/700/560/500
	Heating			640/590/540/480	780/700/560/500
Net Dimensions			mm	199 × 990 × 655	
Weight			kg(lbs)	27 (60)	
Connection Pipe Diameter		Liquid/Gas	mm	6.35/12.70	

Compact cassette



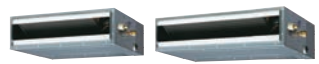
Model No.	Indoor unit			AUYG07LVLA	AUYG09LVLA	AUYG12LVLB	AUYG14LVLB	AUYG18LVLB
kW Class		kW		2.0	2.5	3.5	4.0	5.0
Power Source				Single phase, ~230V, 50Hz				
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	33/31/29/27	33/31/29/27	37/33/31/28	40/35/32/29	42/37/33/29
	Heating			34/32/29/27	34/32/29/27	37/33/31/28	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	m³/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)	15 (33)	15 (33)	15 (33)	15 (33)
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	ARYG12LSLAP	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	m³/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 (33)				
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	m³/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)	19 (42)	19 (42)	19 (42)	23 (51)
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-unit Multi-split Combination Table–Cooling/Heating

2-unit Multi-split cooling

AOYG14KBT A2	Combination of Indoor Unit		Cooling Operation							
			Cooling Capacity			Input Power (Min. - Max.)	EER	Seasonal Data		
			Unit 1	Unit 2	Total Capacity (Min. - Max.)			Pdesign	SEER	Energy efficiency class
2-unit connection	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.

AOYG18KBT A2	Combination of Indoor Unit		Cooling Operation						Seasonal Data		
			Cooling Capacity			Input Power (Min. - Max.) kW	EER				
			Unit 1 kW	Unit 2 kW	Total Capacity (Min. - Max.) kW						
2-unit connection	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-unit Multi-split heating

AOYG14KBT A2	Combination of Indoor Unit		Heating Operation							
			Heating Capacity			Input Power (Min. - Max.)	COP	Seasonal Data		
			Unit 1	Unit 2	Total Capacity (Min. - Max.)			Pdesign	SCOP	Energy efficiency class
2-unit connection	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.

AOYG18KBT A2	Combination of Indoor Unit		Heating Operation						Seasonal Data		
			Heating Capacity			Input Power (Min. - Max.) kW	COP				
			Unit 1 kW	Unit 2 kW	Total Capacity (Min. - Max.) kW						
2-unit connection	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.



3-unit Multi-split Combination Table–Cooling/Heating

3-unit Multi-split cooling

AOYG18KBTA3	Combination of Indoor Unit			Cooling Operation						Seasonal Data		
				Cooling Capacity				Input Power (Min. - Max.)	EER			
				Unit 1	Unit 2	Unit 3	Total Capacity (Min. - Max.)			Pdesign kW	SEER	Energy efficiency
2-unit connection	7	7	-	2.00	2.00	-	4.00(1.8-5.0)	0.86(0.35-1.35)	4.65	4.0	8.3	A++
	7	9	-	2.00	2.50	-	4.50(1.8-5.7)	1.03(0.35-1.54)	4.36	4.5	8.2	A++
	7	12	-	1.99	3.41	-	5.40(1.8-6.8)	1.41(0.35-1.85)	3.83	5.4	8.0	A++
	7	14	-	1.80	3.60	-	5.40(1.8-7.0)	1.41(0.35-1.90)	3.83	5.4	8.0	A++
	9	9	-	2.50	2.50	-	5.00(1.8-6.4)	1.23(0.35-1.74)	4.06	5.0	8.1	A++
	9	12	-	2.31	3.09	-	5.40(1.8-7.0)	1.41(0.35-1.90)	3.83	5.4	8.0	A++
	9	14	-	2.11	3.29	-	5.40(1.8-7.0)	1.41(0.35-1.90)	3.83	5.4	8.0	A++
	12	12	-	2.70	2.70	-	5.40(1.8-7.0)	1.41(0.35-1.90)	3.83	5.4	8.0	A++
	12	14	-	2.49	2.91	-	5.40(1.8-7.0)	1.41(0.35-1.90)	3.83	5.4	8.0	A++
	14	14	-	2.70	2.70	-	5.40(1.8-7.0)	1.41(0.35-1.90)	3.83	5.4	8.0	A++
3-unit connection	7	7	7	1.80	1.80	1.80	5.40(1.8-7.0)	1.13(0.35-1.90)	4.78	5.4	8.6	A+++
	7	7	9	1.64	1.64	2.12	5.40(1.8-7.0)	1.13(0.35-1.90)	4.78	5.4	8.6	A+++
	7	7	12	1.45	1.45	2.50	5.40(1.8-7.0)	1.13(0.35-1.90)	4.78	5.4	8.6	A+++
	7	7	14	1.35	1.35	2.70	5.40(1.8-7.0)	1.13(0.35-1.90)	4.78	5.4	8.6	A+++
	7	9	9	1.52	1.94	1.94	5.40(1.8-7.0)	1.13(0.35-1.90)	4.78	5.4	8.6	A+++
	7	9	12	1.35	1.74	2.31	5.40(1.8-7.0)	1.13(0.35-1.90)	4.78	5.4	8.6	A+++
	7	9	14	1.26	1.62	2.52	5.40(1.8-7.0)	1.13(0.35-1.90)	4.78	5.4	8.6	A+++
	9	9	9	1.80	1.80	1.80	5.40(1.8-7.0)	1.13(0.35-1.90)	4.78	5.4	8.6	A+++
	9	9	12	1.62	1.62	2.16	5.40(1.8-7.0)	1.13(0.35-1.90)	4.78	5.4	8.6	A+++
	9	9	14	1.45	1.45	2.25	5.40(1.8-7.0)	1.13(0.35-1.90)	4.78	5.4	8.6	A+++

AOYG24KBTA3	Combination of Indoor Unit			Cooling Operation						Seasonal Data		
				Cooling Capacity			Total Capacity (Min. - Max.) kW	Input Power (Min. - Max.) kW	EER			
				Unit 1 kW	Unit 2 kW	Unit 3 kW						
2-unit connection	7	7	-	2.00	2.00	-	4.00(1.8-5.0)	0.86(0.35-1.35)	4.65	4.0	8.3	A++
	7	9	-	2.00	2.50	-	4.50(1.8-5.7)	1.03(0.35-1.54)	4.36	4.5	8.2	A++
	7	12	-	2.00	3.50	-	5.50(1.8-6.8)	1.46(0.35-1.85)	3.77	5.5	8.0	A++
	7	14	-	2.00	4.00	-	6.00(1.8-7.5)	1.73(0.35-2.20)	3.48	6.0	7.6	A++
	7	18	-	1.90	4.90	-	6.80(1.8-8.5)	2.26(0.35-2.65)	3.01	6.8	6.9	A++
	9	9	-	2.50	2.50	-	5.00(1.8-6.4)	1.23(0.35-1.74)	4.06	5.0	8.1	A++
	9	12	-	2.50	3.50	-	6.00(1.8-7.5)	1.73(0.35-2.20)	3.48	6.0	7.6	A++
	9	14	-	2.50	4.00	-	6.50(1.8-8.2)	2.04(0.35-2.46)	3.19	6.5	7.2	A++
	9	18	-	2.27	4.53	-	6.80(1.8-8.5)	2.26(0.35-2.65)	3.01	6.8	6.9	A++
	12	12	-	3.40	3.40	-	6.80(1.8-8.5)	2.26(0.35-2.65)	3.01	6.8	6.9	A++
	12	14	-	3.14	3.66	-	6.80(1.8-8.5)	2.26(0.35-2.65)	3.01	6.8	6.9	A++
	12	18	-	2.72	4.08	-	6.80(1.8-8.5)	2.26(0.35-2.65)	3.01	6.8	6.9	A++
	14	14	-	3.40	3.40	-	6.80(1.8-8.5)	2.26(0.35-2.65)	3.01	6.8	6.9	A++
	14	18	-	2.98	3.82	-	6.80(1.8-8.5)	2.26(0.35-2.65)	3.01	6.8	6.9	A++
3-unit connection	7	7	7	2.00	2.00	2.00	6.00(1.8-7.5)	1.37(0.35-2.20)	4.37	6.0	8.6	A+++
	7	7	9	2.00	2.00	2.50	6.50(1.8-8.2)	1.59(0.35-2.46)	4.08	6.5	8.5	A+++
	7	7	12	1.83	1.83	3.14	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	A+++
	7	7	14	1.70	1.70	3.40	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	A+++
	7	7	18	1.49	1.49	3.82	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	A+++
	7	9	9	1.90	2.45	2.45	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	A+++
	7	9	12	1.70	2.19	2.91	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	A+++
	7	9	14	1.59	2.04	3.17	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	A+++
	7	9	18	1.40	1.80	3.60	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	A+++
	7	12	12	1.54	2.63	2.63	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	A+++
	7	12	14	1.44	2.47	2.89	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	A+++
	7	14	14	1.36	2.72	2.72	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	A+++
	9	9	9	2.27	2.27	2.27	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	A+++
	9	9	12	2.04	2.04	2.72	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	A+++
	9	9	14	1.91	1.91	2.98	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	A+++
	9	9	18	1.70	1.70	3.40	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	A+++
	9	12	12	1.86	2.47	2.47	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	A+++
	9	12	14	1.75	2.33	2.72	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	A+++
	12	12	12	2.27	2.27	2.27	6.80(1.8-8.5)	1.74(0.35-2.65)	3.90	6.8	8.5	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.

3-unit Multi-split heating

AOYG18KBTA3	Combination of Indoor Unit			Heating Operation								
				Heating Capacity				Input Power (Min. - Max.)	COP	Seasonal Data		
				Unit 1	Unit 2	Unit 3	Total Capacity (Min. - Max.)			Pdesign	SCOP	Energy efficiency
2-unit connection	7	7	-	kW	kW	kW	kW	kW	4.80	4.0	4.2	A+
	7	9	-	2.40	3.00	-	5.40(2.0-6.4)	1.21(0.25-1.48)	4.45	4.0	4.2	A+
	7	12	-	2.40	4.20	-	6.60(2.0-7.6)	1.66(0.25-1.76)	3.98	5.0	4.0	A+
	7	14	-	2.27	4.53	-	6.80(2.0-8.0)	1.77(0.25-1.85)	3.84	5.0	4.0	A+
	9	9	-	3.00	3.00	-	6.00(2.0-7.2)	1.44(0.25-1.67)	4.17	4.5	4.1	A+
	9	12	-	2.91	3.89	-	6.80(2.0-8.0)	1.77(0.25-1.85)	3.84	5.0	4.0	A+
	9	14	-	2.66	4.14	-	6.80(2.0-8.0)	1.77(0.25-1.85)	3.84	5.0	4.0	A+
	12	12	-	3.40	3.40	-	6.80(2.0-8.0)	1.77(0.25-1.85)	3.84	5.0	4.0	A+
	12	14	-	3.14	3.66	-	6.80(2.0-8.0)	1.77(0.25-1.85)	3.84	5.0	4.0	A+
	14	14	-	3.40	3.40	-	6.80(2.0-8.0)	1.77(0.25-1.85)	3.84	5.0	4.0	A+
3-unit connection	7	7	7	2.27	2.27	2.27	6.80(2.0-8.0)	1.39(0.25-1.85)	4.89	5.0	4.7	A++
	7	7	9	2.07	2.07	2.66	6.80(2.0-8.0)	1.39(0.25-1.85)	4.89	5.0	4.7	A++
	7	7	12	1.83	1.83	3.14	6.80(2.0-8.0)	1.39(0.25-1.85)	4.89	5.0	4.7	A++
	7	7	14	1.70	1.70	3.40	6.80(2.0-8.0)	1.39(0.25-1.85)	4.89	5.0	4.7	A++
	7	9	9	1.90	2.45	2.45	6.80(2.0-8.0)	1.39(0.25-1.85)	4.89	5.0	4.7	A++
	7	9	12	1.70	2.19	2.91	6.80(2.0-8.0)	1.39(0.25-1.85)	4.89	5.0	4.7	A++
	7	9	14	1.59	2.04	3.17	6.80(2.0-8.0)	1.39(0.25-1.85)	4.89	5.0	4.7	A++
	9	9	9	2.27	2.27	2.27	6.80(2.0-8.0)	1.39(0.25-1.85)	4.89	5.0	4.7	A++
	9	9	12	2.04	2.04	2.72	6.80(2.0-8.0)	1.39(0.25-1.85)	4.89	5.0	4.7	A++

AOYG24KBTA3	Combination of Indoor Unit			Heating Operation							Seasonal Data		
				Heating Capacity				Input Power (Min. - Max.) kW	COP				
				Unit 1 kW	Unit 2 kW	Unit 3 kW	Total Capacity (Min. - Max.) kW						
2-unit connection	7	7	-	2.40	2.40	-	4.80(2.0-5.6)	1.00(0.25-1.30)	4.80	4.0	4.2	A+	
	7	9	-	2.40	3.00	-	5.40(2.0-6.4)	1.21(0.25-1.48)	4.45	4.0	4.2	A+	
	7	12	-	2.40	4.20	-	6.60(2.0-7.6)	1.66(0.25-1.76)	3.98	5.0	4.0	A+	
	7	14	-	2.40	4.80	-	7.20(2.0-8.4)	1.86(0.25-2.07)	3.87	5.4	4.0	A+	
	7	18	-	2.16	5.54	-	7.70(2.0-9.2)	2.01(0.25-2.35)	3.83	5.8	4.0	A+	
	9	9	-	3.00	3.00	-	6.00(2.0-7.2)	1.44(0.25-1.67)	4.17	4.5	4.1	A+	
	9	12	-	3.00	4.20	-	7.20(2.0-8.4)	1.86(0.25-2.07)	3.87	5.4	4.0	A+	
	9	14	-	2.96	4.74	-	7.70(2.0-9.2)	2.01(0.25-2.35)	3.83	5.8	4.0	A+	
	9	18	-	2.57	5.13	-	7.70(2.0-9.2)	2.01(0.25-2.35)	3.83	5.8	4.0	A+	
	12	12	-	3.85	3.85	-	7.70(2.0-9.2)	2.01(0.25-2.35)	3.83	5.8	4.0	A+	
	12	14	-	3.55	4.15	-	7.70(2.0-9.2)	2.01(0.25-2.35)	3.83	5.8	4.0	A+	
	12	18	-	3.08	4.62	-	7.70(2.0-9.2)	2.01(0.25-2.35)	3.83	5.8	4.0	A+	
	14	14	-	3.85	3.85	-	7.70(2.0-9.2)	2.01(0.25-2.35)	3.83	5.8	4.0	A+	
	14	18	-	3.37	4.33	-	7.70(2.0-9.2)	2.01(0.25-2.35)	3.83	5.8	4.0	A+	
3-unit connection	7	7	7	2.40	2.40	2.40	7.20(2.0-8.4)	1.61(0.25-2.07)	4.48	5.4	4.7	A++	
	7	7	9	2.40	2.40	3.00	7.80(2.0-9.2)	1.76(0.25-2.35)	4.42	5.8	4.6	A++	
	7	7	12	2.15	2.15	3.70	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++	
	7	7	14	2.00	2.00	4.00	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++	
	7	7	18	1.75	1.75	4.50	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++	
	7	9	9	2.24	2.88	2.88	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++	
	7	9	12	2.00	2.57	3.43	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++	
	7	9	14	1.87	2.40	3.73	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++	
	7	9	18	1.65	2.12	4.23	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++	
	7	12	12	1.80	3.10	3.10	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++	
	7	12	14	1.70	2.91	3.39	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++	
	7	14	14	1.60	3.20	3.20	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++	
	9	9	9	2.67	2.67	2.67	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++	
	9	9	12	2.40	2.40	3.20	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++	
	9	9	14	2.25	2.25	3.50	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++	
	9	9	18	2.00	2.00	4.00	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++	
	9	12	12	2.18	2.91	2.91	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++	
	9	12	14	2.06	2.74	3.20	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++	
12	12	12	2.67	2.67	2.67	8.00(2.0-9.2)	1.82(0.25-2.35)	4.40	6.0	4.6	A++		

4-unit Multi-split Combination Table-Cooling/Heating

4-unit Multi-split cooling

AOYG30KBT4	Combination of Indoor Unit				Cooling Operation							Seasonal Data		
					Cooling Capacity				Total Capacity (Min. - Max.)	Input Power (Min. - Max.)	EER			
					Unit 1	Unit 2	Unit 3	Unit 4						
				kW	kW	kW	kW	kW	kW		Pdesign kW	SEER	Energy efficiency	
2-unit connection	7	22	-	-	2.00	6.00	-	-	8.00(2.4-10.1)	2.67(0.45-3.25)	3.00	8.0	7.5	A++
	7	24	-	-	1.81	6.19	-	-	8.00(2.4-10.1)	2.67(0.45-3.25)	3.00	8.0	7.5	A++
	9	22	-	-	2.32	5.68	-	-	8.00(2.4-10.1)	2.67(0.45-3.25)	3.00	8.0	7.5	A++
	9	24	-	-	2.18	5.82	-	-	8.00(2.4-10.1)	2.67(0.45-3.25)	3.00	8.0	7.5	A++
	12	18	-	-	3.20	4.80	-	-	8.00(2.4-10.1)	2.67(0.45-3.25)	3.00	8.0	7.5	A++
	12	22	-	-	2.82	5.18	-	-	8.00(2.4-10.1)	2.67(0.45-3.25)	3.00	8.0	7.5	A++
	12	24	-	-	2.67	5.33	-	-	8.00(2.4-10.1)	2.67(0.45-3.25)	3.00	8.0	7.5	A++
	14	18	-	-	3.50	4.50	-	-	8.00(2.4-10.1)	2.67(0.45-3.25)	3.00	8.0	7.5	A++
	14	22	-	-	3.11	4.89	-	-	8.00(2.4-10.1)	2.67(0.45-3.25)	3.00	8.0	7.5	A++
	14	24	-	-	2.95	5.05	-	-	8.00(2.4-10.1)	2.67(0.45-3.25)	3.00	8.0	7.5	A++
	18	18	-	-	4.00	4.00	-	-	8.00(2.4-10.1)	2.67(0.45-3.25)	3.00	8.0	7.5	A++
	18	22	-	-	3.60	4.40	-	-	8.00(2.4-10.1)	2.67(0.45-3.25)	3.00	8.0	7.5	A++
	18	24	-	-	3.43	4.57	-	-	8.00(2.4-10.1)	2.67(0.45-3.25)	3.00	8.0	7.5	A++
	22	22	-	-	4.00	4.00	-	-	8.00(2.4-10.1)	2.67(0.45-3.25)	3.00	8.0	7.5	A++
	22	24	-	-	3.83	4.17	-	-	8.00(2.4-10.1)	2.67(0.45-3.25)	3.00	8.0	7.5	A++
	24	24	-	-	4.00	4.00	-	-	8.00(2.4-10.1)	2.67(0.45-3.25)	3.00	8.0	7.5	A++
3-unit connection	7	7	12	-	2.00	2.00	3.50	-	7.50(2.4-9.3)	2.10(0.45-2.84)	3.57	7.5	8.1	A++
	7	7	14	-	2.00	2.00	4.00	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	7	18	-	1.75	1.75	4.50	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	7	22	-	1.56	1.56	4.88	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	7	24	-	1.47	1.47	5.06	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	9	9	-	2.00	2.50	2.50	-	7.00(2.4-8.9)	1.90(0.45-2.65)	3.69	7.0	8.2	A++
	7	9	12	-	2.00	2.50	3.50	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	9	14	-	1.87	2.40	3.73	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	9	18	-	1.64	2.12	4.24	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	9	22	-	1.47	1.89	4.64	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	9	24	-	1.40	1.80	4.80	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	12	12	-	1.80	3.10	3.10	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	12	14	-	1.70	2.91	3.39	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	12	18	-	1.51	2.59	3.90	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	12	22	-	1.37	2.34	4.29	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	12	24	-	1.30	2.23	4.47	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	14	14	-	1.60	3.20	3.20	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	14	18	-	1.44	2.87	3.69	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	14	22	-	1.30	2.60	4.10	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	14	24	-	1.24	2.49	4.27	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	18	18	-	1.30	3.35	3.35	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	18	22	-	1.19	3.06	3.75	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	7	18	24	-	1.14	2.94	3.92	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
	4-unit connection	9	9	9	-	2.50	2.50	2.50	-	7.50(2.4-9.6)	2.10(0.45-3.01)	3.57	7.5	8.1
9		9	12	-	2.40	2.40	3.20	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
9		9	14	-	2.25	2.25	3.50	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
9		9	18	-	2.00	2.00	4.00	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
9		9	22	-	1.80	1.80	4.40	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
9		9	24	-	1.71	1.71	4.58	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
9		12	12	-	2.18	2.91	2.91	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
9		12	14	-	2.06	2.74	3.20	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
9		12	18	-	1.85	2.46	3.69	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
9		12	22	-	1.67	2.23	4.10	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
9		12	24	-	1.60	2.13	4.27	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
9		14	14	-	1.94	3.03	3.03	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
9		14	18	-	1.76	2.73	3.51	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
9		14	22	-	1.60	2.49	3.91	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
9		14	24	-	1.53	2.38	4.09	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
12		12	12	-	2.67	2.67	2.67	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
12		12	14	-	2.53	2.53	2.94	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
12		12	18	-	2.29	2.29	3.42	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
12		12	22	-	2.09	2.09	3.82	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
12		12	24	-	2.00	2.00	4.00	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
12		14	14	-	2.40	2.80	2.80	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
12		14	18	-	2.18	2.55	3.27	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
12		18	18	-	2.00	3.00	3.00	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
14		14	14	-	2.67	2.67	2.67	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++
14	14	18	-	2.43	2.43	3.14	-	8.00(2.4-10.1)	2.32(0.45-3.25)	3.45	8.0	8.0	A++	
4-unit connection	7	7	7	7	2.00	2.00	2.00	2.00	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	7	7	9	1.87	1.87	1.87	2.39	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	7	7	12	1.70	1.70	1.70	2.90	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	7	7	14	1.60	1.60	1.60	3.20	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	7	7	18	1.44	1.44	1.44	3.68	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	7	9	9	1.75	1.75	2.25	2.25	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	7	9	12	1.60	1.60	2.06	2.74	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	7	9	14	1.51	1.51	1.95	3.03	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	7	9	18	1.37	1.37	1.76	3.50	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	7	12	12	1.47	1.47	2.53	2.53	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	7	12	14	1.40	1.40	2.40	2.80	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	7	12	18	1.27	1.27	2.18	3.28	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	7	14	14	1.33	1.33	2.67	2.67	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	7	14	18	1.22	1.22	2.43	3.13	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	9	9	9	1.64	2.12	2.12	2.12	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	9	9	12	1.51	1.95	1.95	2.59	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	9	9	14	1.43	1.85	1.85	2.87	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	9	9	18	1.30	1.67	1.67	3.36	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	9	12	12	1.40	1.80	2.40	2.40	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	9	12	14	1.33	1.71	2.29	2.67	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	9	12	18	1.50	1.50	2.00	3.00	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	9	14	14	1.26	1.64	2.55	2.55	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.5	A+++
	7	9	14	18	1.17	1.50	2.33	3.00	8.00(2.4-10.1)	2.05(0.45-3.25)	3.90	8.0	8.	



5-unit Multi-split Combination Table-Cooling

5-unit Multi-split cooling

AOYG36K8TA5	Combination of Indoor Unit					Cooling Operation										Seasonal Data			
						Cooling Capacity					Input Power (Min. - Max.)	EER	Pdesign	SEER	Energy efficiency				
						Unit 1	Unit 2	Unit 3	Unit 4	Unit 5									
						kW	kW	kW	kW	kW	kW	kW							
2-unit connection	7	24	-	-	-	2.00	7.00	-	-	-	9.00(3.0-11.0)	2.91(0.30-3.45)	3.09	9.0	7.9	A++			
	9	22	-	-	-	2.50	6.00	-	-	-	8.50(3.0-11.0)	2.67(0.30-3.45)	3.18	8.5	7.9	A++			
	9	24	-	-	-	2.50	7.00	-	-	-	9.50(3.0-11.0)	3.17(0.30-3.45)	3.00	9.5	7.8	A++			
	12	22	-	-	-	3.50	6.00	-	-	-	9.50(3.0-11.0)	3.17(0.30-3.45)	3.00	9.5	7.8	A++			
	12	24	-	-	-	3.17	6.33	-	-	-	9.50(3.0-11.0)	3.17(0.30-3.45)	3.00	9.5	7.8	A++			
	14	22	-	-	-	3.69	5.81	-	-	-	9.50(3.0-11.0)	3.17(0.30-3.45)	3.00	9.5	7.8	A++			
	14	24	-	-	-	3.50	6.00	-	-	-	9.50(3.0-11.0)	3.17(0.30-3.45)	3.00	9.5	7.8	A++			
	18	18	-	-	-	4.75	4.75	-	-	-	9.50(3.0-11.0)	3.17(0.30-3.45)	3.00	9.5	7.8	A++			
	18	22	-	-	-	4.27	5.23	-	-	-	9.50(3.0-11.0)	3.17(0.30-3.45)	3.00	9.5	7.8	A++			
	18	24	-	-	-	4.07	5.43	-	-	-	9.50(3.0-11.0)	3.17(0.30-3.45)	3.00	9.5	7.8	A++			
	22	22	-	-	-	4.75	4.75	-	-	-	9.50(3.0-11.0)	3.17(0.30-3.45)	3.00	9.5	7.8	A++			
	22	24	-	-	-	4.54	4.96	-	-	-	9.50(3.0-11.0)	3.17(0.30-3.45)	3.00	9.5	7.8	A++			
	24	24	-	-	-	4.75	4.75	-	-	-	9.50(3.0-11.0)	3.17(0.30-3.45)	3.00	9.5	7.8	A++			
	7	7	14	-	-	2.00	2.00	4.00	-	-	8.00(3.0-10.0)	2.26(0.30-2.88)	3.54	8.0	8.2	A++			
	7	7	18	-	-	2.00	2.00	5.00	-	-	9.00(3.0-11.0)	2.68(0.30-3.45)	3.36	9.0	8.1	A++			
	7	7	22	-	-	1.85	1.85	5.80	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++			
7	7	24	-	-	1.75	1.75	6.00	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
7	9	12	-	-	2.00	2.50	3.50	-	-	8.00(3.0-10.0)	2.26(0.30-2.88)	3.54	8.0	8.2	A++				
7	9	14	-	-	2.00	2.50	4.00	-	-	8.50(3.0-10.7)	2.46(0.30-3.27)	3.45	8.5	8.1	A++				
7	9	18	-	-	2.00	2.50	5.00	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
7	9	22	-	-	1.75	2.25	5.50	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
7	9	24	-	-	1.66	2.14	5.70	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
7	12	12	-	-	2.00	3.50	3.50	-	-	9.00(3.0-11.0)	2.68(0.30-3.45)	3.36	9.0	8.1	A++				
7	12	14	-	-	2.00	3.50	4.00	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
7	12	18	-	-	1.80	3.08	4.62	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
7	12	22	-	-	1.62	2.78	5.10	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
7	12	24	-	-	1.55	2.65	5.30	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
7	14	14	-	-	1.90	3.80	3.80	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
7	14	18	-	-	1.71	3.41	4.38	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
7	14	22	-	-	1.55	3.09	4.86	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
7	14	24	-	-	1.47	2.96	5.07	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
7	18	18	-	-	1.54	3.98	3.98	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
7	18	22	-	-	1.41	3.64	4.45	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
7	18	24	-	-	1.36	3.49	4.65	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
9	9	9	-	-	2.50	2.50	2.50	-	-	7.50(3.0-9.6)	2.07(0.30-2.70)	3.63	7.5	8.2	A++				
9	9	12	-	-	2.50	2.50	3.50	-	-	8.50(3.0-10.7)	2.46(0.30-3.27)	3.45	8.5	8.1	A++				
9	9	14	-	-	2.50	2.50	4.00	-	-	9.00(3.0-11.0)	2.68(0.30-3.45)	3.36	9.0	8.1	A++				
9	9	18	-	-	2.38	2.38	4.74	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
9	9	22	-	-	2.14	2.14	5.22	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
9	9	24	-	-	2.04	2.04	5.42	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
9	12	12	-	-	2.50	3.50	3.50	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
9	12	14	-	-	2.44	3.26	3.80	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
9	12	18	-	-	2.19	2.92	4.39	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
9	12	22	-	-	1.99	2.65	4.86	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
9	12	24	-	-	1.90	2.53	5.07	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
9	14	14	-	-	2.32	3.59	3.59	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
9	14	18	-	-	2.09	3.24	4.17	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
9	14	22	-	-	1.90	2.96	4.64	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
9	14	24	-	-	1.82	2.83	4.85	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
9	18	18	-	-	1.90	3.80	3.80	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
9	18	22	-	-	1.74	3.49	4.27	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
9	18	24	-	-	1.68	3.35	4.47	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
12	12	12	-	-	3.17	3.17	3.17	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
12	12	14	-	-	3.00	3.00	3.50	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
12	12	18	-	-	2.71	2.71	4.08	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
12	12	22	-	-	2.48	2.48	4.54	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
12	12	24	-	-	2.38	2.38	4.74	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
12	14	14	-	-	2.84	3.33	3.33	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
12	14	18	-	-	2.59	3.02	3.89	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
12	14	22	-	-	2.38	2.77	4.35	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
12	14	24	-	-	2.28	2.66	4.56	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
12	18	18	-	-	2.38	3.56	3.56	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
12	18	22	-	-	2.19	3.29	4.02	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
12	18	24	-	-	2.11	3.17	4.22	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
14	14	14	-	-	3.17	3.17	3.17	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
14	14	18	-	-	2.89	2.89	3.72	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
14	14	22	-	-	2.66	2.66	4.18	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
14	14	24	-	-	2.56	2.56	4.38	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
14	18	18	-	-	2.66	3.42	3.42	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
18	18	18	-	-	3.17	3.17	3.17	-	-	9.50(3.0-11.0)	2.91(0.30-3.45)	3.27	9.5	8.0	A++				
4-unit connection	7	7	7	7	-	2.00	2.00	2.00	2.00	-	8.00(3.0-10.0)	2.11(0.30-2.88)	3.80	8.0	8.5	A++			
	7	7	7	9	-	2.00	2.00	2.00	2.50	-	8.50(3.0-10.7)	2.29(0.30-3.27)	3.71	8.5	8.4	A++			
	7	7	7	12	-	2.00	2.00	2.00	3.50	-	9.50(3.0-11.0)	2.69(0.30-3.45)	3.53	9.5	8.3	A++			
	7	7	7	14	-	1.90	1.90	1.90	3.80	-	9.50(3.0-11.0)	2.69(0.30-3.45)	3.53	9.5	8.3	A++			
	7	7	7	18	-	1.71	1.71	1.71	4.37	-	9.50(3.0-11.0)	2.69(0.30-3.45)	3.53	9.5	8.3	A++			
	7	7	7	22	-	1.55	1.55	1.55	4.85	-	9.50(3.0-11.0)	2.69(0.30-3.45)	3.53	9.5	8.3	A++			
	7	7	7	24	-	1.48	1.48	1.48	5.06	-	9.50(3.0-11.0)	2.69(0.30-3.45)	3.53	9.5	8.3	A++			
	7	7	9	9	-	2													



5-unit Multi-split Combination Table-Heating

5-unit Multi-split heating

AOYG36K8TA5	Combination of Indoor Unit					Heating Operation										Seasonal Data		
						Heating Capacity					Input Power (Min. - Max.)	COP	Pdesign kW	SCOP	Energy efficiency			
						Unit 1	Unit 2	Unit 3	Unit 4	Unit 5								
2-unit connection	7	24	-	-	-	2.39	8.21	-	-	-	10.60(3.5-12.0)	2.65(0.25-3.25)	4.00	7.0	4.3	A+		
	9	22	-	-	-	3.00	7.20	-	-	-	10.20(3.5-12.0)	2.52(0.25-3.25)	4.04	6.8	4.3	A+		
	9	24	-	-	-	2.89	7.71	-	-	-	10.60(3.5-12.0)	2.65(0.25-3.25)	4.00	7.0	4.3	A+		
	12	22	-	-	-	3.74	6.86	-	-	-	10.60(3.5-12.0)	2.65(0.25-3.25)	4.00	7.0	4.3	A+		
	12	24	-	-	-	3.53	7.07	-	-	-	10.60(3.5-12.0)	2.65(0.25-3.25)	4.00	7.0	4.3	A+		
	14	22	-	-	-	4.12	6.48	-	-	-	10.60(3.5-12.0)	2.65(0.25-3.25)	4.00	7.0	4.3	A+		
	14	24	-	-	-	3.91	6.69	-	-	-	10.60(3.5-12.0)	2.65(0.25-3.25)	4.00	7.0	4.3	A+		
	18	18	-	-	-	5.30	5.30	-	-	-	10.60(3.5-12.0)	2.65(0.25-3.25)	4.00	7.0	4.3	A+		
	18	22	-	-	-	4.77	5.83	-	-	-	10.60(3.5-12.0)	2.65(0.25-3.25)	4.00	7.0	4.3	A+		
	18	24	-	-	-	4.54	6.06	-	-	-	10.60(3.5-12.0)	2.65(0.25-3.25)	4.00	7.0	4.3	A+		
	22	22	-	-	-	5.30	5.30	-	-	-	10.60(3.5-12.0)	2.65(0.25-3.25)	4.00	7.0	4.3	A+		
	22	24	-	-	-	5.07	5.53	-	-	-	10.60(3.5-12.0)	2.65(0.25-3.25)	4.00	7.0	4.3	A+		
	24	24	-	-	-	5.30	5.30	-	-	-	10.60(3.5-12.0)	2.65(0.25-3.25)	4.00	7.0	4.3	A+		
	7	7	14	-	-	2.40	2.40	4.80	-	-	9.60(3.5-11.2)	2.25(0.25-2.87)	4.26	6.5	4.5	A+		
	7	7	18	-	-	2.32	2.32	5.96	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+		
	7	7	22	-	-	2.06	2.06	6.48	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+		
	7	7	24	-	-	1.95	1.95	6.70	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+		
	7	9	12	-	-	2.40	3.00	4.20	-	-	9.60(3.5-11.2)	2.25(0.25-2.87)	4.26	6.5	4.5	A+		
	7	9	14	-	-	2.40	3.00	4.80	-	-	10.20(3.5-12.0)	2.42(0.25-3.25)	4.21	6.8	4.4	A+		
	7	9	18	-	-	2.18	2.81	5.61	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+		
7	9	22	-	-	1.95	2.51	6.14	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
7	9	24	-	-	1.85	2.39	6.36	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
7	12	12	-	-	2.40	4.10	4.10	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
7	12	14	-	-	2.25	3.85	4.50	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
7	12	18	-	-	2.00	3.44	5.16	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
7	12	22	-	-	1.81	3.10	5.69	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
7	12	24	-	-	1.72	2.96	5.92	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
7	14	14	-	-	2.12	4.24	4.24	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
7	14	18	-	-	1.90	3.81	4.89	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
7	14	22	-	-	1.73	3.45	5.42	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
7	14	24	-	-	1.65	3.30	5.65	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
7	18	18	-	-	1.72	4.44	4.44	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
7	18	22	-	-	1.58	4.06	4.96	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
7	18	24	-	-	1.51	3.89	5.20	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
9	9	9	-	-	3.00	3.00	3.00	-	-	9.00(3.5-10.8)	2.09(0.25-2.70)	4.31	6.0	4.5	A+			
9	9	12	-	-	3.00	3.00	4.20	-	-	10.20(3.5-12.0)	2.42(0.25-3.25)	4.21	6.8	4.4	A+			
9	9	14	-	-	2.98	2.98	4.64	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
9	9	18	-	-	2.65	2.65	5.30	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
9	9	22	-	-	2.39	2.39	5.82	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
9	9	24	-	-	2.27	2.27	6.06	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
9	12	12	-	-	2.90	3.85	3.85	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
9	12	14	-	-	2.73	3.63	4.24	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
9	12	18	-	-	2.45	3.26	4.89	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
9	12	22	-	-	2.22	2.96	5.42	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
9	12	24	-	-	2.12	2.83	5.65	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
9	14	14	-	-	2.58	4.01	4.01	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
9	14	18	-	-	2.33	3.62	4.65	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
9	14	22	-	-	2.12	3.30	5.18	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
9	14	24	-	-	2.03	3.16	5.41	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
9	18	18	-	-	2.12	4.24	4.24	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
9	18	22	-	-	1.95	3.89	4.76	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
9	18	24	-	-	1.87	3.74	4.99	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
12	12	12	-	-	3.53	3.53	3.53	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
12	12	14	-	-	3.35	3.35	3.90	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
12	12	18	-	-	3.03	3.03	4.54	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
12	12	22	-	-	2.77	2.77	5.06	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
12	12	24	-	-	2.65	2.65	5.30	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
12	14	14	-	-	3.18	3.71	3.71	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
12	14	18	-	-	2.89	3.37	4.34	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
12	14	22	-	-	2.65	3.09	4.86	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
12	14	24	-	-	2.54	2.97	5.09	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
12	18	18	-	-	2.64	3.98	3.98	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
12	18	22	-	-	2.45	3.67	4.48	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
12	18	24	-	-	2.36	3.53	4.71	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
14	14	14	-	-	3.53	3.53	3.53	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
14	14	18	-	-	3.23	3.23	4.14	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
14	14	22	-	-	2.97	2.97	4.66	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
14	14	24	-	-	2.85	2.85	4.90	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
14	18	18	-	-	2.96	3.82	3.82	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
18	18	18	-	-	3.53	3.53	3.53	-	-	10.60(3.5-12.0)	2.54(0.25-3.25)	4.18	7.0	4.4	A+			
4-unit connection	7	7	7	7	-	2.40	2.40	2.40	2.40	-	9.60(3.5-11.2)	2.17(0.25-2.87)	4.42	6.5	4.6	A++		
	7	7	7	9	-	2.40	2.40	2.40	3.00	-	10.20(3.5-12.0)	2.33(0.25-3.25)	4.37	6.8	4.5	A+		
	7	7	7	12	-	2.25	2.25	2.25	3.85	-	10.60(3.5-12.0)	2.44(0.25-3.25)	4.34	7.0	4.5	A+		
	7	7	7	14	-	2.12	2.12	2.12	4.24	-	10.60(3.5-12.0)	2.44(0.25-3.25)	4.34	7.0	4.5	A+		
	7	7	7	18	-	1.90	1.90	1.90	4.90	-	10.60(3.5-12.0)	2.44(0.25-3.25)	4.34	7.0	4.5	A+		
	7	7	7	22	-	1.73	1.73	1.73	5.41	-	10.60(3.5-12.0)	2.44(0.25-3.25)	4.34	7.0	4.5	A+		
	7	7	7	24	-	1.65	1.65	1.65	5.65	-	10.60(3.5-12.0)	2.44(0.25-3.25)	4.34	7.0	4.5	A+		
	7	7	9	9	-	2.32	2.32	2.98	2.98	-	10.60(3.5-12.0)	2.44(0.25-3.25)	4.34	7.0	4.5	A+		
	7	7	9	12	-	2.12	2.12	2.73	3.63	-	10.60(3.5-12.0)	2.44(0.25-3.25)	4.34	7.0	4.5	A+		
	7	7	9	14	-	2.01	2.01	2.57	4.01	-	10.60(3.5-12.0)	2.44(0.25-3.25)	4.34	7.0	4.5	A+		
	7	7	9	18	-	1.81	1.81	2.33										

6-unit Multi-split Combination Table-Cooling

6-unit Multi-split cooling

AOYG45L6LA6	Combination of Indoor Unit						Cooling Operation					Input Power (Min. - Max.)	EER	
							Cooling Capacity							
							Unit 1	Unit 2	Unit 3	Unit 4	Unit 5			Unit 6
2-unit connection							kW	kW	kW	kW	kW	kW	kW	
	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
	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)	3.57
	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
3-unit connection	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	-	-	-	4.50	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
	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)	3.71 (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)	3.76 (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	9	-	-	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	-	11.5 (3.5-12.7)	3.27 (0.8-4.08)	3.52
	7	12	12	14	-	-	1.94	3.33	3.33	3.90	-	12.0 (3.5-13.4)	3.51 (0.8-4.46)	3.42
	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	4.72	-	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	9	-	-	2.50	2.50	2.50	2.50	-	10.0 (3.5-11.5)	2.59 (0.8-3.32)	3	



6-unit Multi-split Multi Combination Table-Cooling/Heating

6-unit Multi-split cooling

AOYG45LBLA6	Combination of Indoor Unit							Cooling Operation								Input Power (Min. - Max.)	EER
								Cooling Capacity						Total Capacity (Min. - Max.)			
								Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6				
6-unit connection	7	7	7	7	7	7	kW	kW	kW	kW	kW	kW	kW	12.0 (3.5-13.4)	3.32 (0.8-4.46)	3.61	
							2.00	2.00	2.00	2.00	2.00	2.00	2.00				
							2.00	2.00	2.00	2.00	2.00	2.50	2.50				
							1.86	1.86	1.86	1.86	1.86	3.20	3.20				
							1.79	1.79	1.79	1.79	1.79	3.55	3.55				
							1.65	1.65	1.65	1.65	1.65	4.25	4.25				
							1.48	1.48	1.48	1.48	1.48	5.10	5.10				
							1.90	1.90	1.90	1.90	2.45	2.45	2.45				
							1.79	1.79	1.79	1.79	2.29	3.05	3.05				
							1.72	1.72	1.72	1.72	2.20	3.42	3.42				
							1.59	1.59	1.59	1.59	2.05	4.09	4.09				
							1.43	1.43	1.43	1.43	1.85	4.93	4.93				
							1.68	1.68	1.68	1.68	2.89	2.89	2.89				
							1.62	1.62	1.62	1.62	2.78	3.24	3.24				
							1.51	1.51	1.51	1.51	2.59	3.87	3.87				
							1.56	1.56	1.56	1.56	3.13	3.13	3.13				
							1.46	1.46	1.46	1.46	2.92	3.74	3.74				
							1.79	1.79	1.79	1.79	2.34	2.34	2.34				
							1.72	1.72	1.72	1.72	2.21	2.21	2.92				
							1.65	1.65	1.65	1.65	2.12	2.12	3.31				
							1.54	1.54	1.54	1.54	1.97	1.97	3.94				
							1.62	1.62	1.62	1.62	2.08	2.78	2.78				
							1.56	1.56	1.56	1.56	2.01	2.68	3.13				
							1.46	1.46	1.46	1.46	1.88	2.50	3.74				
							1.51	1.51	1.51	1.51	1.93	3.02	3.02				
							1.54	1.54	1.54	1.54	2.63	2.63	2.63				
							1.48	1.48	1.48	1.48	2.54	2.54	2.98				
							1.43	1.43	1.43	1.43	2.47	2.87	2.87				
							1.75	1.75	2.25	2.25	2.25	2.25	2.25				
							1.65	1.65	2.12	2.12	2.12	2.84	2.84				
							1.59	1.59	2.05	2.05	2.05	3.17	3.17				
							1.48	1.48	1.91	1.91	1.91	3.81	3.81				
							1.56	1.56	2.01	2.01	2.68	2.68	3.50				
							1.51	1.51	1.94	1.94	2.59	3.01	3.01				
							1.41	1.41	1.81	1.81	2.42	3.64	3.64				
							1.46	1.46	1.88	1.88	2.91	2.91	2.91				
							1.48	1.48	1.92	2.54	2.54	2.54	2.54				
							1.43	1.43	1.85	2.46	2.46	2.87	2.87				
							1.41	1.41	2.42	2.42	2.42	2.42	2.42				
							1.70	2.16	2.16	2.16	2.16	2.16	2.16				
							1.59	2.05	2.05	2.05	2.05	2.71	2.71				
							1.54	1.97	1.97	1.97	3.08	3.08	3.08				
							1.94	1.94	1.94	1.94	2.59	2.59	2.59				
							1.46	1.88	1.88	1.88	2.50	2.90	2.90				
							1.44	1.84	2.46	2.46	2.46	2.46	2.46				
							2.08	2.08	2.08	2.08	2.08	2.08	2.08				
							1.97	1.97	1.97	1.97	1.97	2.65	2.65				
							1.88	1.88	1.88	1.88	2.49	2.49	2.49				

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-unit Multi-split heating

AOYG45LBA6	Combination of Indoor Unit							Heating Operation								Input Power (Min. - Max.)	COP
								Heating Capacity							Total Capacity (Min. - Max.)		
								Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	kW			
2 Units	12	24	-	-	-	-	-	kW	kW	kW	kW	kW	kW	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	
	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)	3.50 (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)	3.61	
	7	18	24	-	-	-	-	1.93	4.96	6.61	-	-	-	13.5 (3.5-16.0)	3.74 (0.7-4.41)	3.60	
	7	24	24	-	-	-	-	1.72	5.89	5.89	-	-	-	13.5 (3.5-16.0)	3.75 (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		
3-unit connection	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-unit connection	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	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	3.95	-	-	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	-	-	-	1.91	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	-	-	-	2.05	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)	3.78	
7		14	14	24	-	-	-	1.60	3.20	3.20	5.50	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.41)	3.76	
7		14	18	18	-	-	-	1.66	3.32	4.25	4.25	-	-	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									

6-unit Multi-split Combination Table-Heating

6-unit Multi-split heating

AOYG45LBLA6	Combination of Indoor Unit						Heating Operation							Input Power (Min. - Max.)	COP
							Heating Capacity						Total Capacity (Min. - Max.)		
							Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6			
							kW	kW	kW	kW	kW	kW	kW		
4-unit connection	12	12	12	12	-	-	3.38	3.38	3.38	3.38	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.4)	3.75
	12	12	12	14	-	-	3.24	3.24	3.24	3.78	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.4)	3.75
	12	12	12	18	-	-	3.00	3.00	3.00	4.50	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.4)	3.77
	12	12	12	24	-	-	2.70	2.70	2.70	5.40	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.4)	3.78
	12	12	14	14	-	-	3.12	3.12	3.63	3.63	-	-	13.5 (3.5-16.0)	3.59 (0.7-4.4)	3.76
	12	12	14	18	-	-	2.89	2.89	3.38	4.34	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.4)	3.77
	12	12	14	24	-	-	2.61	2.61	3.05	5.23	-	-	13.5 (3.5-16.0)	3.56 (0.7-4.4)	3.79
	12	12	18	18	-	-	2.70	2.70	4.05	4.05	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.4)	3.78
	12	14	14	14	-	-	3.00	3.50	3.50	3.50	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.4)	3.77
	12	14	14	18	-	-	2.79	3.26	3.26	4.19	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.4)	3.78
	12	14	18	18	-	-	2.61	3.05	3.92	3.92	-	-	13.5 (3.5-16.0)	3.56 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	3.88
	7	7	9	9	24	-	1.75	1.75	2.25	2.25	6.00	-	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90
	7	7	9	12	12	-	2.10	2.10	2.10	3.60	3.60	-	13.5 (3.5-16.0)	3.49 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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	3.44	-	13.5 (3.5-16.0)	3.49 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	3.91	
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 (0.7-4.4)	3.87	
7	9	9	9	14	-	1.97	2.53	2.53	2.53	3.94	-	13.5 (3.5-16.0)	3.48 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	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 (0.7-4.4)	3.89	
9	9	9	12	18	-	2.13	2.13	2.13	2.84</						

8-unit Multi-split Combination Table-Cooling

8-unit Multi-split cooling

AOYG45LB18	Combination of Indoor Unit								Cooling Operation										Input power	
																				Total
									Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	kW			
									kW	kW	kW	kW	kW	kW	kW	kW	kW			
2-unit connection	24	24	-	-	-	-	-	-	7.03	7.03	-	-	-	-	-	-	14.06	5.20		
	18	24	-	-	-	-	-	-	5.27	7.03	-	-	-	-	-	-	12.30	4.24		
	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**	14**	14**	-	-	-	-	-	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		
3-unit connection	12**	14**	14**	-	-	-	-	-	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		
4-unit connection	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		
	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	3.09	6.18	-	-	-	-	15.45	5.89		
	12	12	12	18	-	-	-	-	3.35	3.35	3.35	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	6.54	-	-	-	-	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	7.07	-	-	-	-	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	-	-	-	-													

8-unit Multi-split Combination Table–Cooling/Heating

8-unit Multi-split cooling

AOYG45LBT8	Combination of Indoor Unit								Cooling Operation									Input power	
									Cooling Capacity										
									Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total		
6-unit connection	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	3.35	3.90	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	2.30	6.12	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-unit connection	7	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	14	-	-	1.77	1.77	1.77	2.28	2.28	2.28	3.54	-	15.69	5.87
		7	7	7	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	-	-	1.91	1.91	1.91	2.46	2.46	2.46	2.46	-	15.55	5.90
7		7	7	9	12	12	-	-	1.79	1.79	1.79	2.30	3.07	3.07	3.07	-	15.57	5.88	
7		7	7	9	9	14	-	-	1.80	1.80	1.80	1.80	2.32	3.60	3.60	-	15.45	5.89	
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	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	12	14	-	-	1.79	1.79	1.79	1.79	3.07	3.57	-	-	15.57	5.88	
7		7	7	7	12	12	-	-	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	2.28	4.55	-	15.68	5.87	
7		7	7	7	7	9	14	-	-	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	2.47	3.30	-	15.38	5.90	
7		7	7	7	7	9	9	-	-	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	4.63	-	15.45	5.89	
7		7	7	7	7	7	14	-	-	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	3.35	-	15.04	5.90	
7		7	7	7	7	7	9	-	-	2.05	2.05	2.05	2.05	2.05	2.64	-	14.94	5.65	
8-unit connection		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
		7	7	7	7	7	7	9	-	2.05	2.05	2.05	2.05	2.05	2.05	2.05	2.28	15.69	5.87
		7	7	7	7	7	7	9	9	-	1.80	1.80	1.80	1.80	1.80	2.32	15.45	5.89	
		7	7	7	7	7	7	7	12	-	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	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	15.37	5.90	
	7	7	7	7	7	7	7	9	9	-	1.96	1.96	1.96	1.96	1.96	2.53	14.87	5.90	
	7	7	7	7	7	7	7	7	18	-	1.80	1.80	1.80	1.80	1.80	4.63	15.45	5.89	

MULTI-SPLIT

8-unit Multi-split heating

AOYG45LB78	Combination of Indoor Unit								Heating Operation											
									Heating Capacity								Total	Input power		
									Unit 1 kW	Unit 2 kW	Unit 3 kW	Unit 4 kW	Unit 5 kW	Unit 6 kW	Unit 7 kW	Unit 8 kW				
6-unit connection	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	14	-	-	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	14	18	-	-	2.27	2.27	2.86	2.86	4.37	3.78	-	-	18.22	5.98		
	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	12	-	-	-	2.35	2.35	2.35	2.97	2.97	3.93	-	-	15.92	5.65		
	7	7	7	9	9	9	-	-	2.37	2.37	2.37	2.99	2.99	2.99	-	-	16.02	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	7	24	-	-	2.12	2.12	2.12	2.12	2.67	7.06	-	-	18.19	5.98		
	7	7	7	7	7	18	-	-	2.28	2.28	2.28	2.28	2.87	5.63	-	-	17.60	5.56		
	7	7	7	7	7	14	-	-	2.35	2.35	2.35	2.35	2.96	4.76	-	-	17.11	5.16		
	7	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	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	2.98	-	-	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-unit connection	7	9	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	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	2.63	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	2.67	2.67	3.53	-	-	18.10	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	7	18	-	2.10	2.10	2.10	2.10	2.10	2.65	5.19	-	18.35	5.98		
	7	7	7	7	7	7	14	-	2.15	2.15	2.15	2.15	2.15	2.71	4.36	-	17.82	5.98		
	7	7	7	7	7	7	12	-	2.25	2.25	2.25	2.25	2.25	2.87	2.87	-	17.23	5.70		
	7	7	7	7	7	7	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	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	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	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	7	9	-	2.35	2.35	2.35	2.35	2.35	2.35	2.96	-	17.06	5.16	
	8-unit connection	7	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	
		7	7	7	7	7	7	9	9	2.09	2.09	2.09	2.09	2.64	2.64	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	7	7	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		
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		
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 Summary

Type	Wall Mounted								Cassette			Duct						Floor		Floor/ Ceiling	Ceiling		
Series	Designer Series		Standard Series		Designer Series	Standard Series		Compact 4-way Flow Grid type Series		Compact 4-way Flow Series	4-way Flow Series	Mini (With drain pump)		Slim (With drain pump)		Medium Static Pressure							
Model No.																							
	ASYG 07/09/12/14 KGTB	ASYG 07/09/12/14 KETA, ASYG 07/09/12/14 KETA-B	ASYG 07/09/12/14 KMCC	ASYG 18/22/24 KMTB	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG18LFCA, ASYG24LFCC	AUXG 07/09/12/14/18/22/24 KVLA	AUYG 07/09/12/14/18 LVLB, AUYG 22/24LVL A	AUYG 30/36LRLE, AUYG 36/45LRLA	ARXG 07/09/12/14/18 KSLAP	ARYG 07/09/12/14/18 LSLAP	ARXG 07/09/12/14/18 KLLAP	ARYG 07/09/12/14/18 LLTB	ARXG22KMLB, ARXG24KMLA	ARYG 22/24/36/45 LMLA, ARYG 30/36LMLE	AGYG 09/12/14 KVCA	AGYG 09/12/14 LVCA	ABYG 14/22/24 LVTA, ABYG18LVTB	ABYG 18/22KRTA	ABYG 30/36LRTE, ABYG 36/45LRTA		
Refrigerant																							
Energy Saving Function	 Save human sensor	●																					
	 Economy mode	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●
	 Room temperature set point limitation	○	○	○	○	○	○	○	○		○	○	●	●	○	○	○	○	○	○	○	●	○
	 Set temperature auto return	○	○	○	○	○	○	○	●		○	○	●	●	○	○	○	○	○	○	○	●	○
Comfortable Function	 Power diffuser						●	●															
	 Powerful mode	●	●	●	●	●	●										●						
	 10°C HEAT operation	●	●	●	●	●	●	●	●		●	○	○	○	○	○	○	○	○	○	○	○	●
	 Low noise mode	●	●	●	●	●	●										○ (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																●	●					
Convenient Function	 Auto off timer	○	○	○	○	○	○	○	○			○	○	●	●	○	○	○	○	○	○	●	○
	 Sleep timer	●	●	●	●	●	●	●	●		●	○	○	○	○	○	○	○	○	○	○	○	●
	 Program timer	●	●	●	●	●	●	●	●		●	○	○	○	○	○	○	○	○	○	○	○	●
	 Weekly timer	●	●	○	●	●						●	●					●			●		
	 Weekly + setback timer	○	○	○	○	○	○	○	○		○	●			●	●	●	●		○	○		○
	 Filter sign	●	●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●
	 External error output	○	○	○	○	○	○	○				○	○					○			○		
	 External ON/OFF input	○	○	○	○	○	○	○	○		○	○	●	●	○	○	○	○	○	○	○	●	○
	 Wireless LAN control	○	○	○	○	○	○	○	○		○	○	○	○	○	○	○	○	○	○	○	○	○
Clean Function	 Ion deodorization filter	○	○	○	●	●	●	●									●	●					
	 Apple-catechin filter	○	○	○	●	●	●	●									●	●					
	 Long life filter															○	○	●	●				
	 Washable panel				●			●	●														
Installation	 Drain pump as standard							●		●	●	●	●	●	○	○					○	○	
	 Blue fin						● (30)			● (45/54)						● (45)						● (45)	

○ : Optional function

Light Commercial & Commercial, Residential VRF

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.

V-002 AIRSTAGE™ J Series Overview
V-004 AIRSTAGE™ V Series Overview
V-006 VRF Outdoor Units Lineup
V-008 Feature

VRF Outdoor Units



AIRSTAGE™ J Series Heat Pump for Small Capacity Type

V-022 AIRSTAGE™ J-IVL
V-028 AIRSTAGE™ J-IV
V-032 AIRSTAGE™ J-IVS



AIRSTAGE™ V Series Heat Recovery Modular Type

V-036 AIRSTAGE™ VR-IV

Heat Pump Modular Type

V-046 AIRSTAGE™ V-III
V-052 AIRSTAGE™ V-III Tropical

VRF INDOOR UNITS

V-060 VRF Indoor Units Lineup
V-062 VRF Indoor Units

AIRSTAGE™

VRF

Light Commercial &
Commercial,
Residential



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

FUJITSU GENERAL LIMITED

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.



Maximum 18 HP Heat Pump AIRSTAGE™ J-IVL

J-IVL 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 models. 14/16/18 HP models are also ideal for hospitals and educational facilities with many rooms.

*: 18 HP model

Slim Outdoor Unit

Although the new 14/16/18 HP models that can handle slightly larger capacity requirements, they have a slim depth of 480 mm. These models 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 achieved. Highly suited for densely populated areas thanks to their low operating sound.

Maximum 6 HP Heat Pump AIRSTAGE™ J-IV

J-IV allows the condenser to connect 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 or 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.



Maximum 6 HP Heat Pump, Compact Design AIRSTAGE™ J-IVS

J-IVS has a compact design with a height of 998 mm that does not obstruct visibility even when installed near waist-level 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 achieved 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-IVS Series can be installed easily at a 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.



8-12 HP models

14/16/18 HP models

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.



Maximum **48 HP** Heat Recovery

AIRSTAGE™ VR-IV

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 Different temperature requirements.

Annual cooling operation

Usage of 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.

Maximum **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

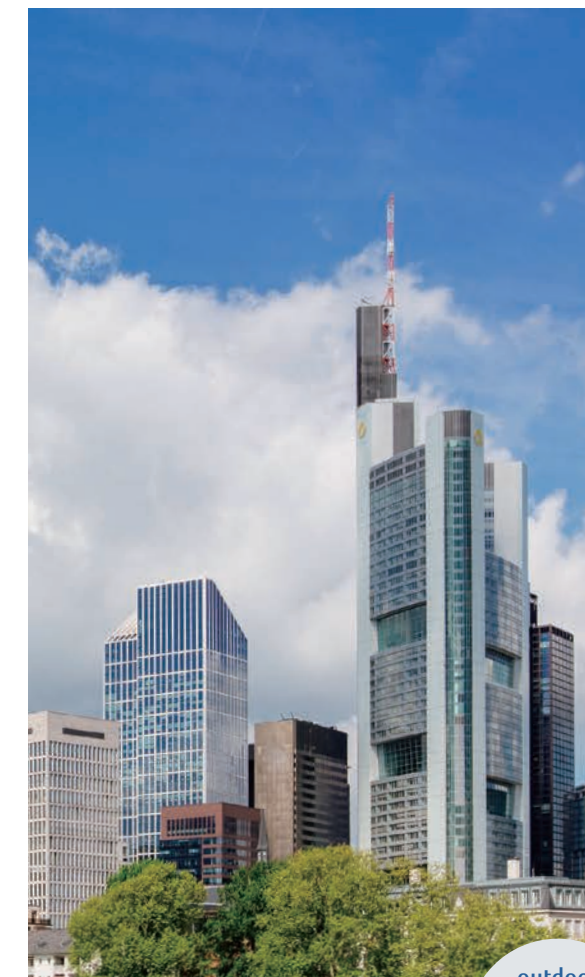
Heat pump inverter type achieves high energy savings for individual cooling or heating operation by all inverter technology for seasonal efficiency.

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.



outdoor temperature
Up to 52°C
at Cooling

Maximum **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



VRF Outdoor Units Lineup

Capacity (kW)		12.1	14.0	15.1-15.5	22.4	28.0	33.5	40.0	45.0	50.0-50.4	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-IVL Series																												
					AJY072 LELBH	AJY090 LELBH	AJY108 LELBH	AJY126 LELBH	AJY144 LELBH	AJY162 LELBH																		
J-IV Series																												
		AJY040 LBLBH, AJY040 LELBH	AJY045 LBLBH, AJY045 LELBH	AJY054 LBLBH, AJY054 LELBH																								
J-IVS Series																												
		AJY040 LCLBH	AJY045 LCLBH	AJY054 LCLBH																								
VR-IV Series	Space Saving																											
	Set Model				AJY072 GALBH	AJY090 GALBH	AJY108 GALBH	AJY126 GALBH	AJY144 GALBH	AJY162 GALBH	AJY180 GALBH	AJY198 GALBH	AJY216 GALBH	AJY234 GALBH	AJY252 GALBH	AJY270 GALBH	AJY288 GALBH	AJY306 GALBH	AJY324 GALBH	AJY342 GALBH	AJY360 GALBH	AJY378 GALBH	AJY396 GALBH	AJY414 GALBH	AJY432 GALBH			
	Energy Efficiency																											
	Set Model								AJY144 GALBHH		AJY198 GALBHH	AJY216 GALBHH	AJY234 GALBHH		AJY252 GALBHH	AJY270 GALBHH	AJY288 GALBHH	AJY306 GALBHH	AJY324 GALBHH	AJY342 GALBHH	AJY360 GALBHH	AJY378 GALBHH	AJY396 GALBHH					
V-III Series	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	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 LNLBHH	AJY270 LNLBHH	AJY288 LNLBHH	AJY306 LNLBHH	AJY324 LNLBHH	AJY342 LNLBHH	AJY360 LNLBHH	AJY378 LNLBHH	AJY396 LNLBHH	AJY414 LNLBHH				

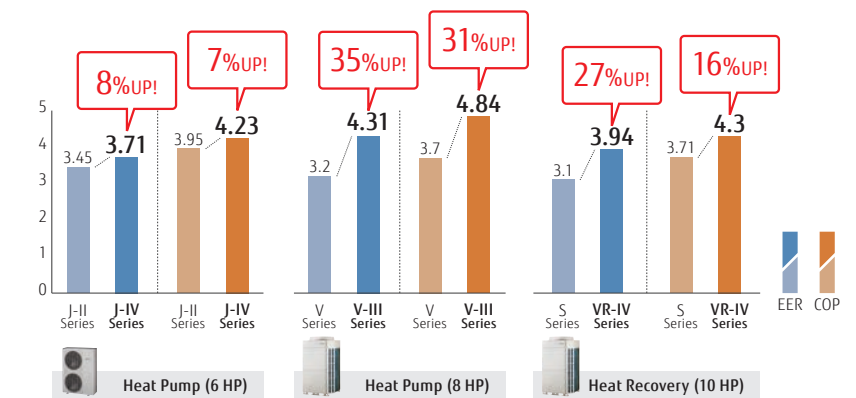
Feature

High Efficiency

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



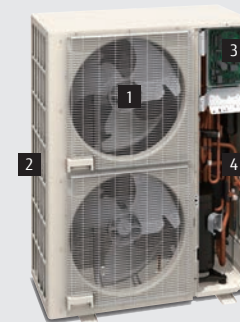
DC twin rotary compressor



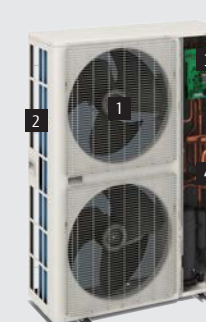
* These specifications are determined by ducted combination.

ALL DC High efficiency design with top class SEER/SCOP

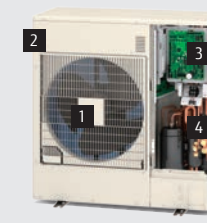
All VRF Series including J-IVL Series have DC technology to achieve high efficiency operation. This enhances the durability and reliability of VRF Series.



J-IVL Series



J-IV Series



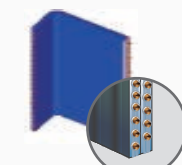
J-IVS Series



1 DC fan motor



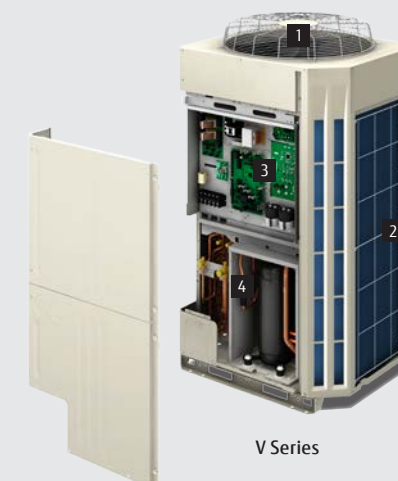
3 DC inverter control



2 Large heat exchanger



4 Subcool heat exchanger



V Series



1 3 phase DC fan motor



3 Sine-wave DC inverter control



2 Large heat exchanger

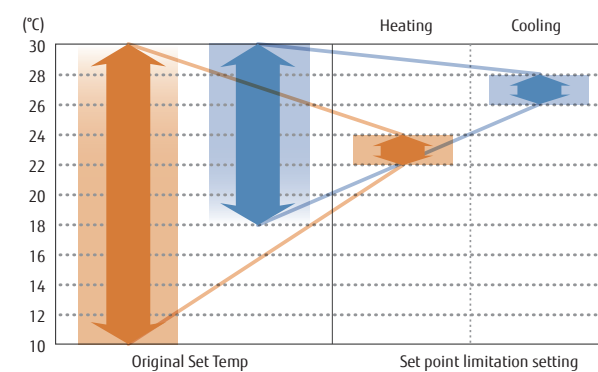


4 Subcool heat exchanger

Operation Performance is Efficiently Controlled.

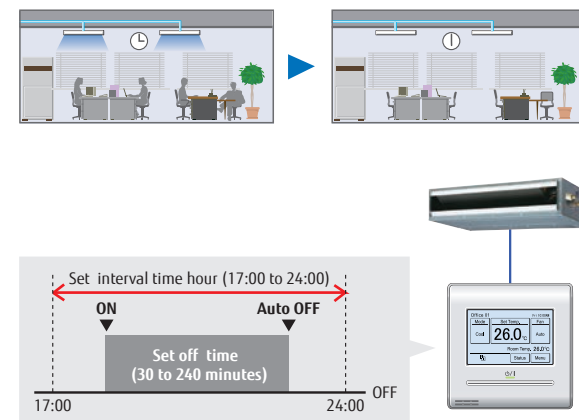
Room temperature set point limitation

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



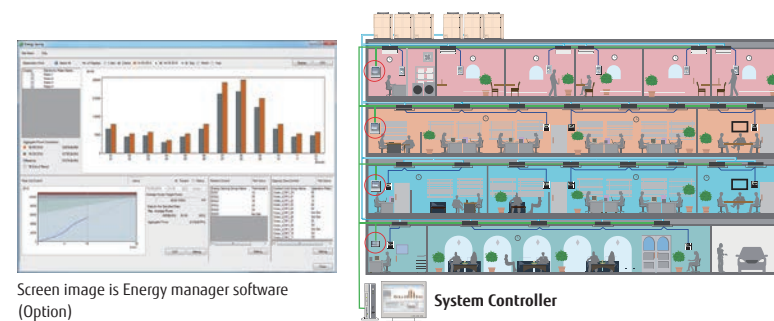
Auto-off timer

New wired remote controller is equipped with an OFF timer function that automatically stops operation when a fixed time has elapsed from the start of operation. This prevents waste of energy. Furthermore a new wired remote controller can set up the interval of time in case operation stops.



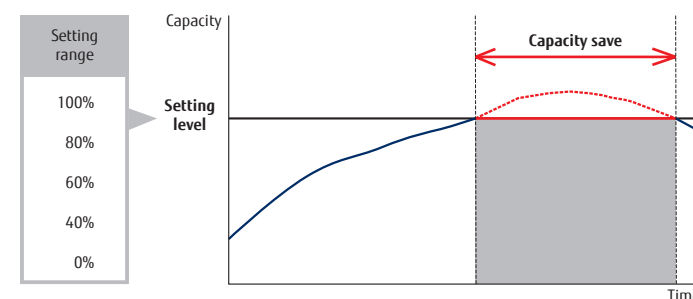
Energy saving management

A variety energy saving operations can be set and managed depending on the season, weather, and time period. Excellent energy saving operation is performed by using System Controller.



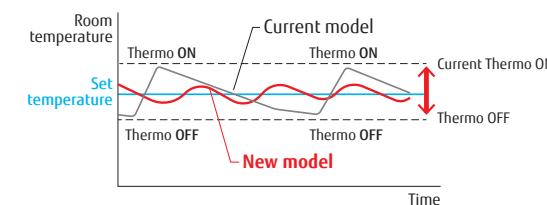
Capacity save operation

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.



New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control. New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.



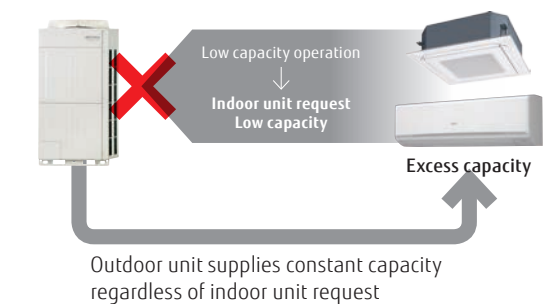
Current refrigerant control

Thermostat-ON/OFF occurs frequently.
→ The comfort is not good since room temperature often changes. Energy saving is not good since compressor is repeated starting and stopping frequently.

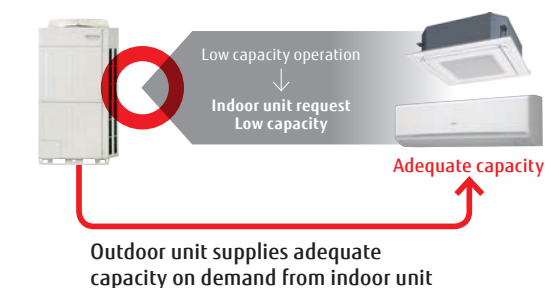
New refrigerant control

Room temperature keep target temperature since thermostat-ON/OFF occurs less than Current control. Energy saving is good since compressor continues operation for a longer time than Current control.

Current model



New model



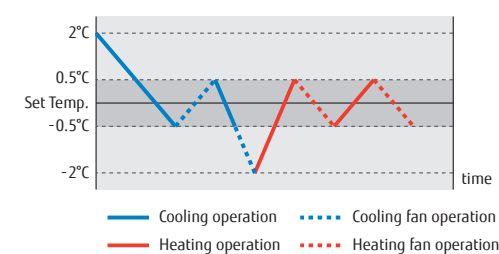
* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

More Comfort



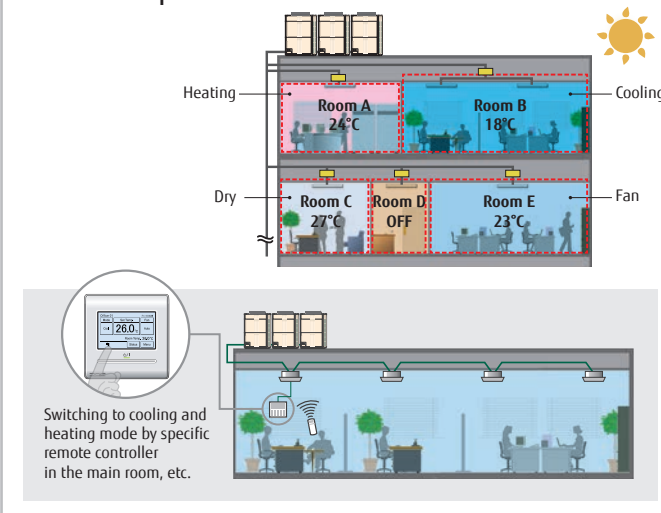
Auto changeover function

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



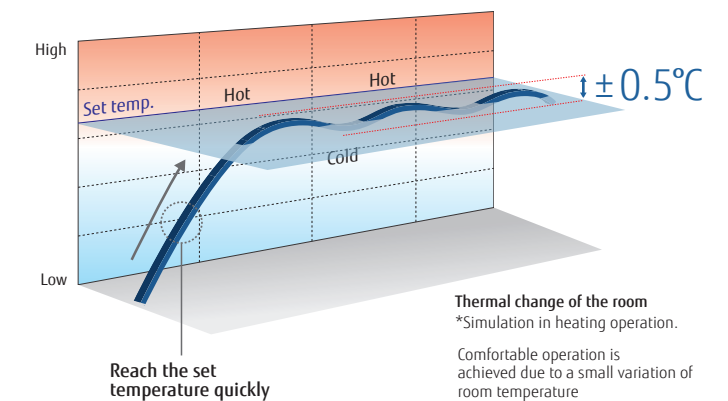
Auto changeover setting allows for the indoor unit to easily switch between cooling and heating regardless of the operation mode of other indoor units. This can be done via specific indoor unit with wired remote controller. This ensures comfortable operation all year round.

Automatic cooling/heating operation for each room is possible



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 $\pm 0.5^\circ\text{C}$.

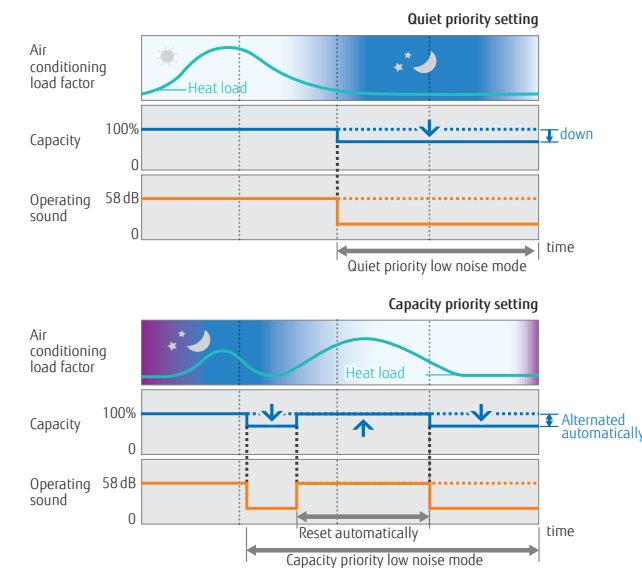


Quiet operation



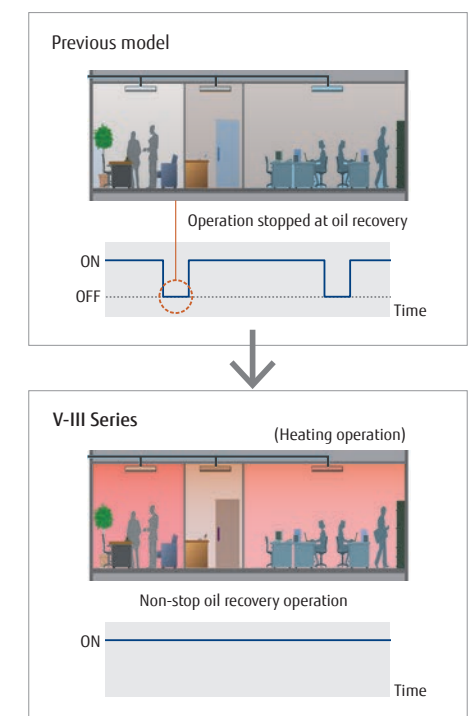
Quiet operation

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.



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.



Low sound level design

Small capacity indoor units respond to the demands of several applications.

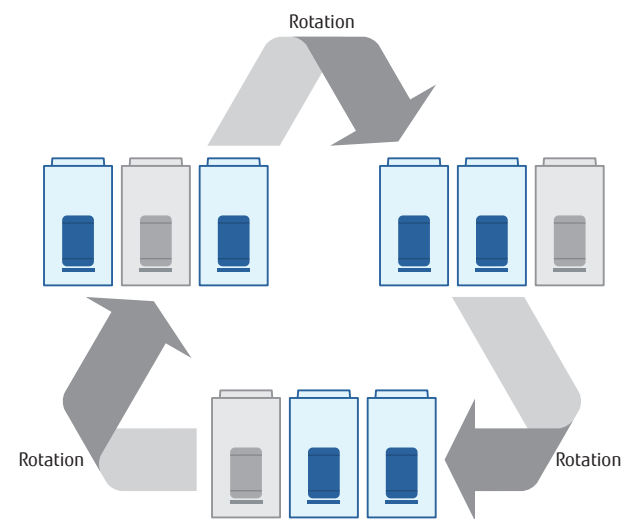
These models will be able to offer greater audibility comfort by operating at super low sound levels. Especially, Wall mounted (EEV external) type is 19dB(A) when low mode heating operation.



High Reliability

Outdoor unit rotational operation

The compressor starting order is rotated so that the running time is shared.

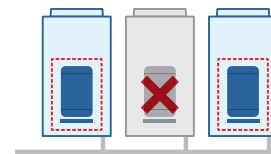


Note: Rotational operation is alternated by the start / stop timing of the compressor.

Backup operation

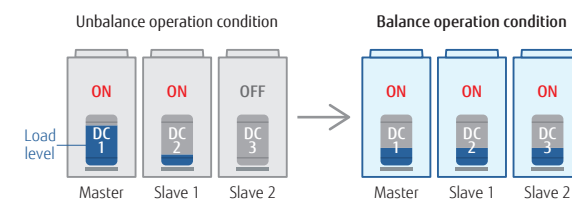
If one compressor fails, backup operation will be performed by the remaining compressors*.

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



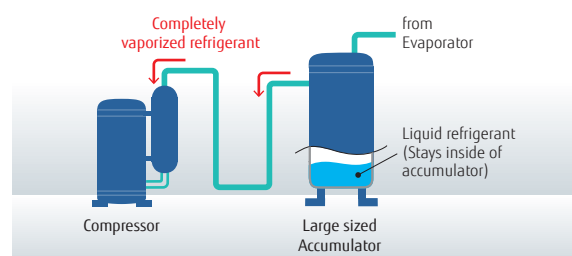
Advanced refrigerant control

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.



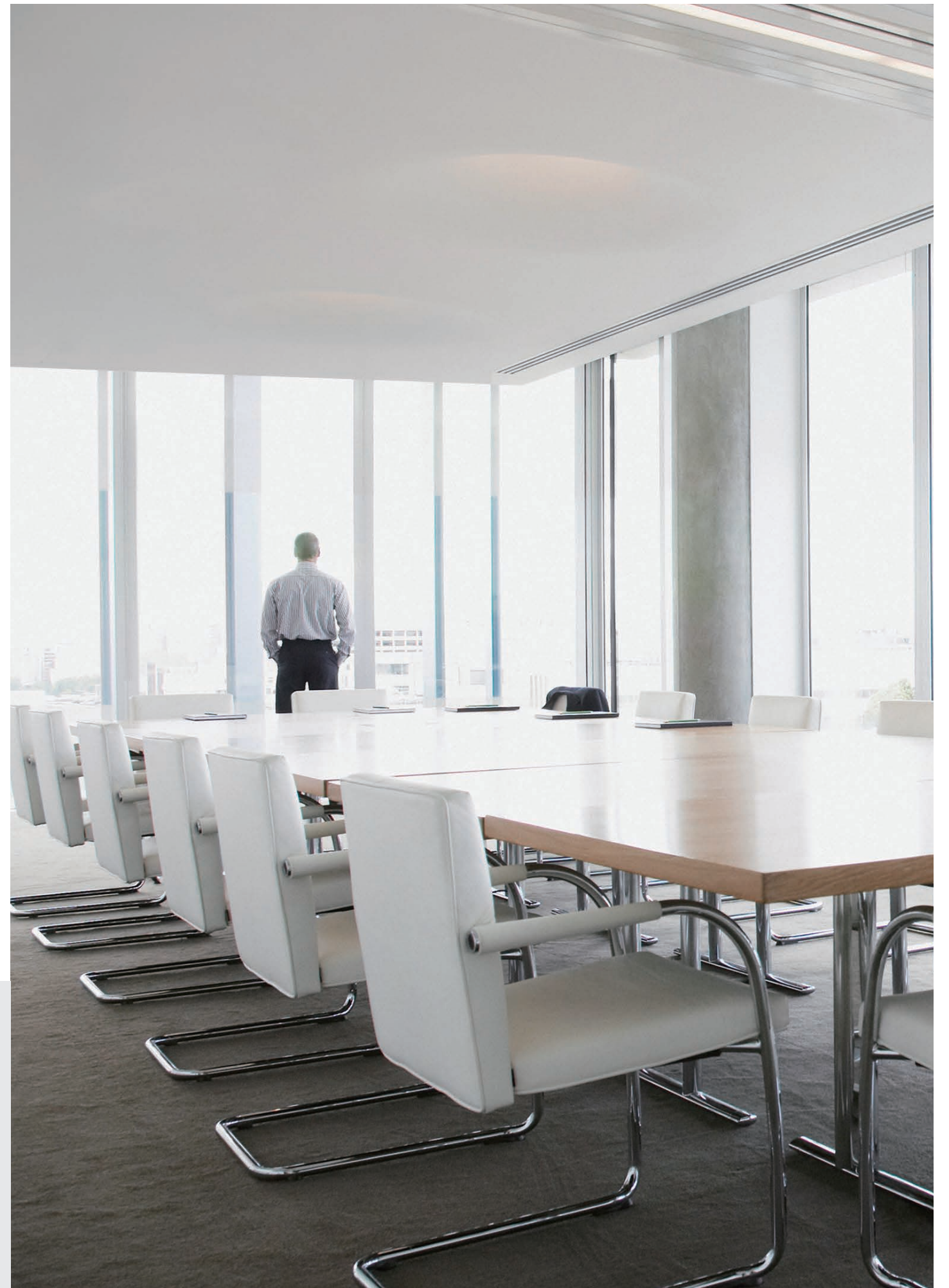
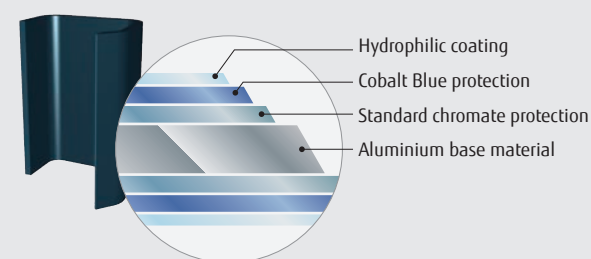
Liquid flow back protection

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.



Adoption of blue fin heat exchanger

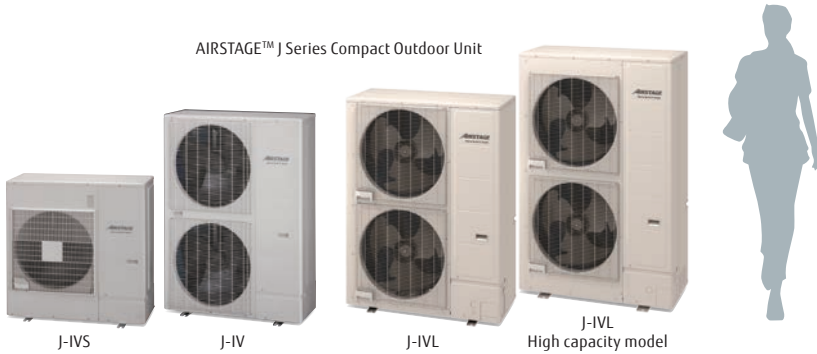
Corrosion resistant of the heat exchanger has been improved by the introduction of blue fin treatment to the outdoor unit's heat exchanger.



Design Flexibility

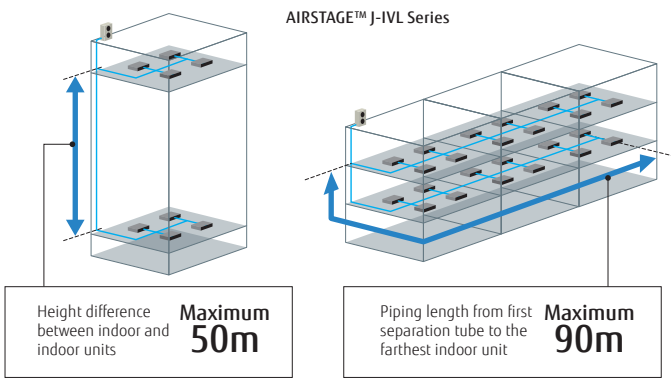
Top class Compact design

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



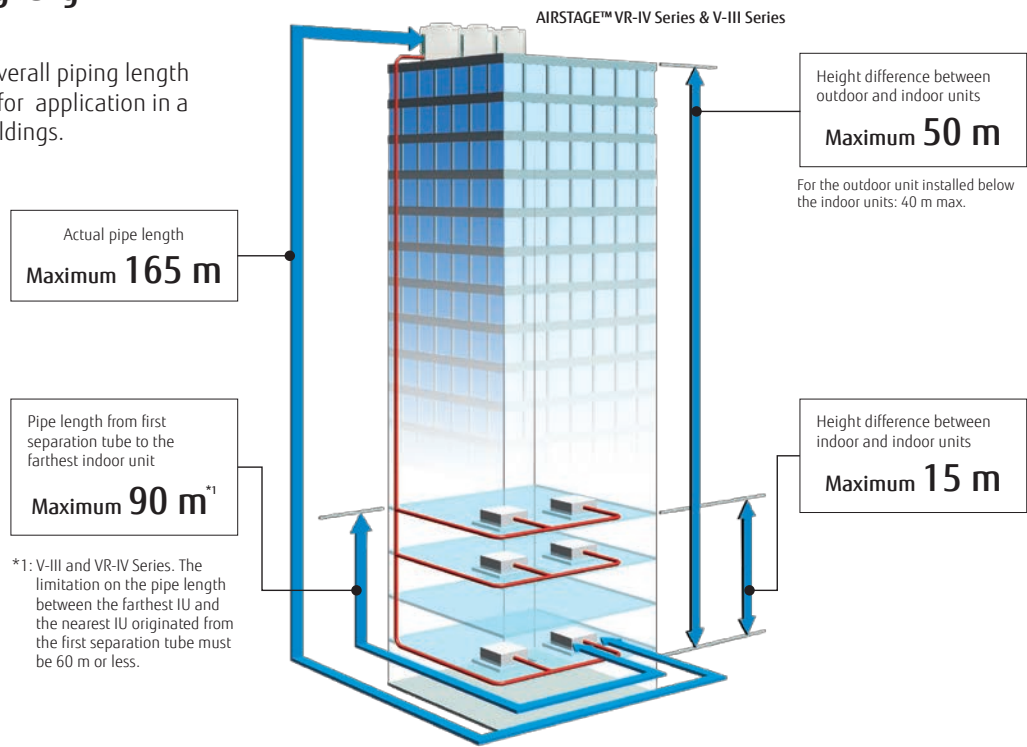
Long piping design

Piping design suitable for long, narrow office buildings with a difference in height and low-rise shops with high distance (AIRSTAGE™ J-IVL 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.



High capacity connection

Series		Connectable indoor unit capacity range	Connectable indoor unit number
	AIRSTAGE™ J-IVL Series 14/16/18 HP Heat Pump type	50% to 150% ^{*2}	up to 42 ^{*4}
	AIRSTAGE™ J-IVL Series 8/10/12 HP Heat Pump type	50% to 150% ^{*2}	up to 30 ^{*5}
	AIRSTAGE™ J-IV Series Heat Pump type	50% to 150% ^{*2}	up to 14 ^{*6}
	AIRSTAGE™ J-IVS Series Heat Pump type	50% to 130% ^{*2}	up to 13
	AIRSTAGE™ VR-IV Series Heat Recovery Modular type	25% ^{*7} to 150% ^{*2}	up to 64
	AIRSTAGE™ V-III Series Heat Pump Modular type	50% to 150% ^{*3}	up to 64

^{*2}: Conditions of maximum connectable indoor unit capacity ratio is as the chart.
^{*3}: Max. capacities in the combinations including the 18 HP outdoor unit fall below 150%.
^{*4}: J-IVL Series 18 HP model only.
^{*5}: J-IVL Series 12 HP model only.
^{*6}: J-IV Series 6 HP model only.
^{*7}: For modular type, 25% to 49.9% operation in the entire system is available. (by one unit operation)

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



Low ambient operation

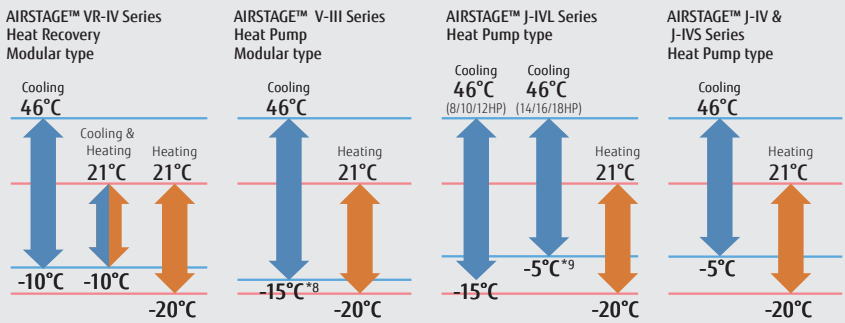
Refrigeration cycle technology allows cooling operation even at -15°C.



Wide operating range

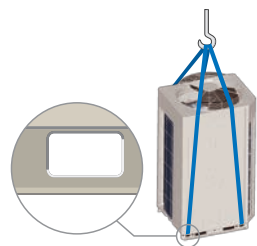
Installation in extreme temperature conditions is possible due to an increase in operating range.

^{*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 operating range is -15°C to 46°C.

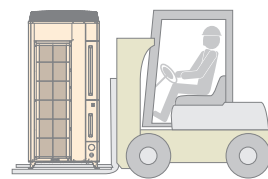


Easy Installation

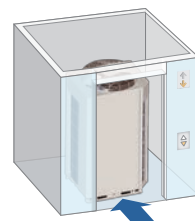
Easily transported



Easily craned using lifting belt hooks
Design of outdoor unit allows for lifting straps to be used



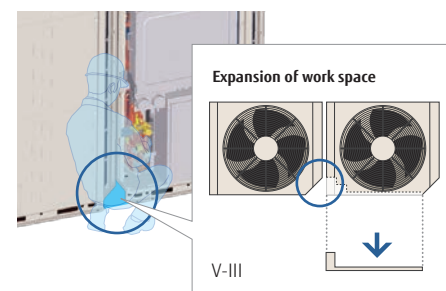
Transporting by forklift
Transport with forklift is possible.



Can be transported in a small lift

Easy access

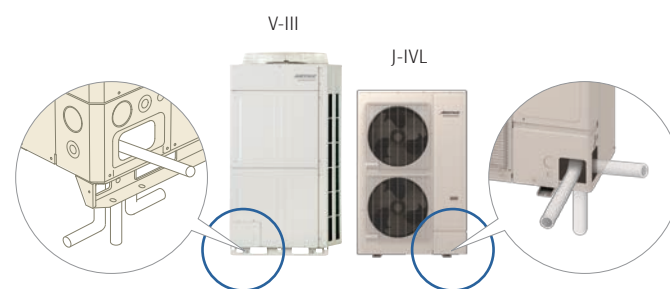
By adopting a L-Shape front panel that can be removed, the work space for installation and service has been significantly expanded by this new design. For multiple installations, work is performed easily and efficiently even in a narrow space.



Reduced installation intervals by front access

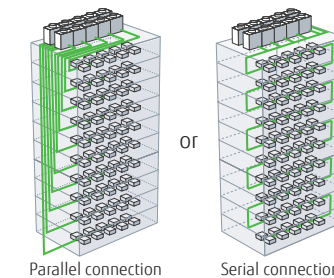
Flexible piping connection

Piping and wiring are available to the front, left right and bottom.



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.

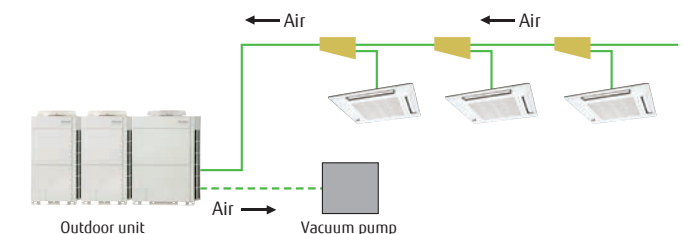


Up to maximum length
3,600 m

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

Easy evacuation - using vacuum mode function

The vacuum mode function enables all expansion valves of indoor units to be fully opened, making it easy to evacuate all the air inside pipe lines and indoor units.

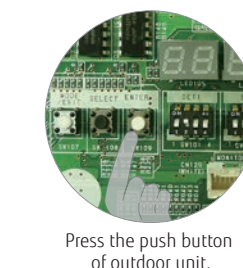


Automatic address setting

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

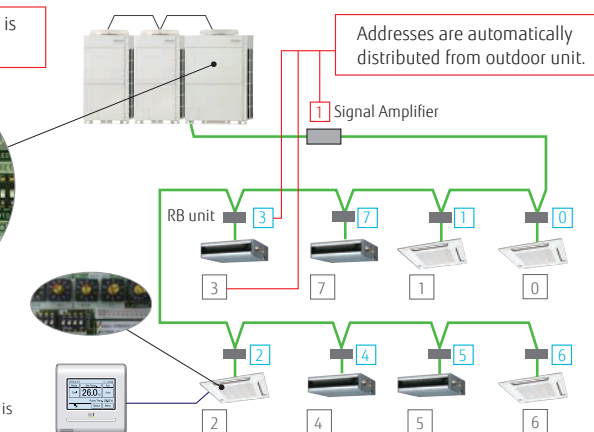
Automatic address setting is performed at outdoor unit

Addresses are automatically distributed from outdoor unit.



Press the push button of outdoor unit.

Manual address setting from indoor unit and remote controller is also possible.



Easy commissioning by Service Tool

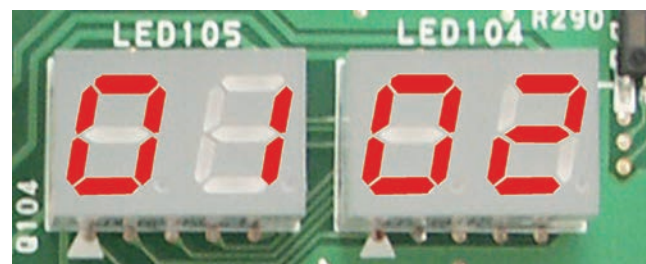
Service tools can be used to check the refrigerant temperature, pressure, and the operating status of the electronic expansion valve, making it easy to determine whether the units are connected properly.



Easy Service & Maintenance

Design for Easy Maintenance

7 segment LED is used to make it easy to check the details about the function setting status, refrigerant temperature, pressure, compressor operation time, and other factors for each model to make it easy to perform self-diagnostics.

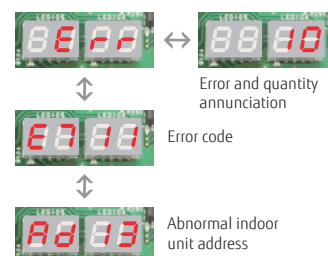


Easy to read 7-segment LED :

Confirm detailed operational and error status without using any specific equipment.

Error status can be checked easily by outdoor unit display

- Operation mode status
- Discharge temperature/Pressure status
- Compressor operation indication
- Address/type/number of outdoor unit



- Error status can be checked easily by outdoor unit display

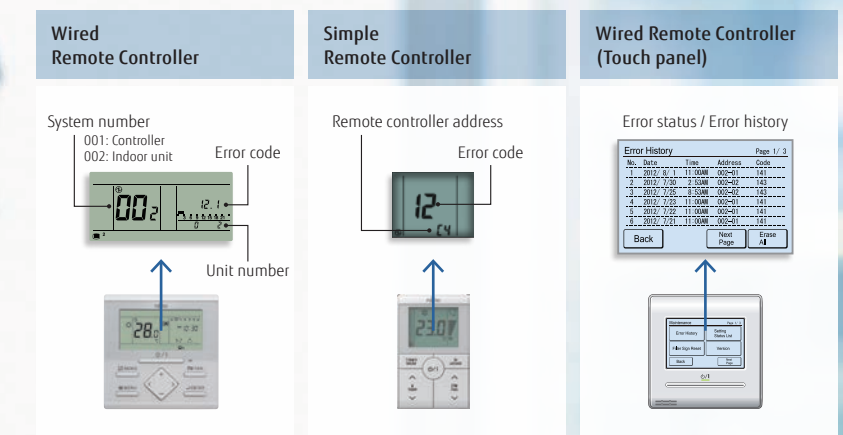
Movable PCB panel

Easier for maintenance work behind the PCB



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

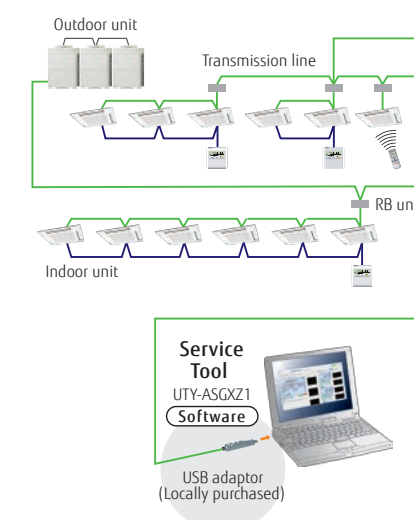
An error code is displayed on a liquid crystal screen.



Error diagnosis by Service Tool

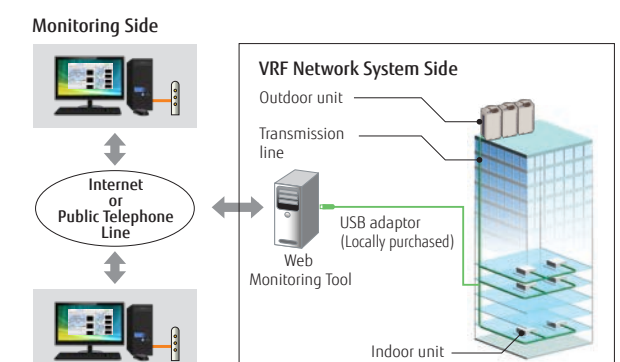
Connection to Service Tool

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



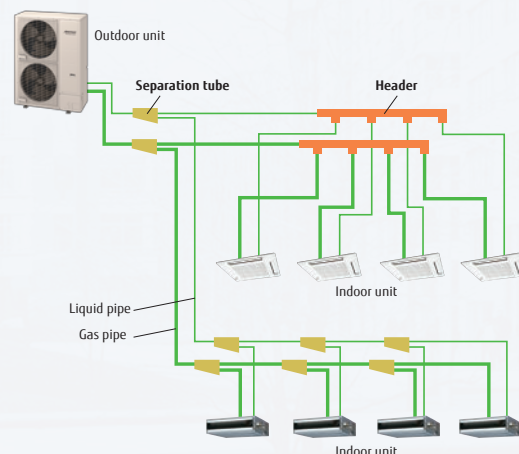
Heat Pump

for Small Capacity Type

AIRSTAGE™ J-IVL

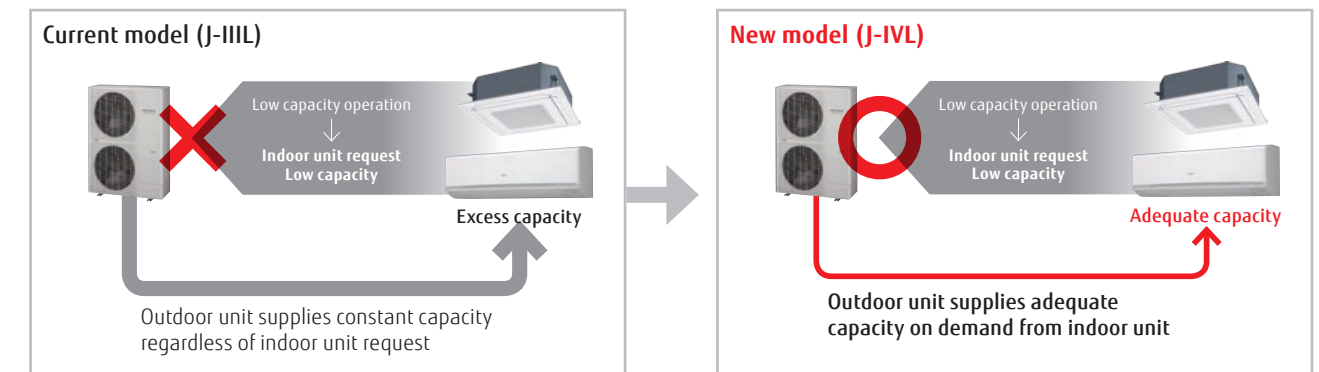
System configuration example

- This system is used for small and medium-sized buildings. 1 refrigerant system is used for each outdoor unit.
- Connection of multiple indoor units using separation tubes and headers.



New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control. New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.



* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

External static pressure

External static pressure is available up to 60Pa for 14/16/18HP. (30Pa for 8/10HP, 40Pa for 12HP)

* Capacities are slightly decreased for rated values during high static pressure operation.



Advanced high efficiency technology

Ø570 mm

Large propeller fan

The high efficiency and the low sound operation are mutually realized by reduction of a draft loss which are enabled by the Fujitsu General's original blade design and a large diameter propeller fan.

DC fan motor

Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.

Large heat exchanger

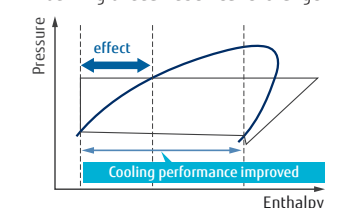
Heat exchange performance is substantially improved by mounting of 2.6-row large heat exchanger.

DC inverter control

Efficiency is improved by mounting of new active filter module.

Subcool heat exchanger

Cooling performance is improved by mounting of dual tube heat exchanger.



Scroll compressor

The equipment of scroll compressor with a wide range of rotational frequency from 15 to 130 rps together with Fujitsu General's unique sensorless sine wave control method which smoothly control the input power run into the motor realized a mutual improvement on the energy efficient operation and the low sound operation.

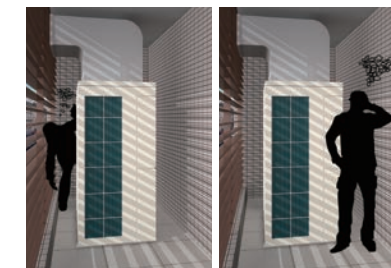
15-130 rps



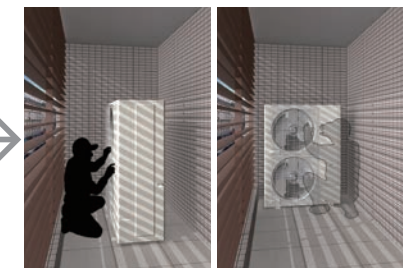
Slim & Compact Design



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 air discharge 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

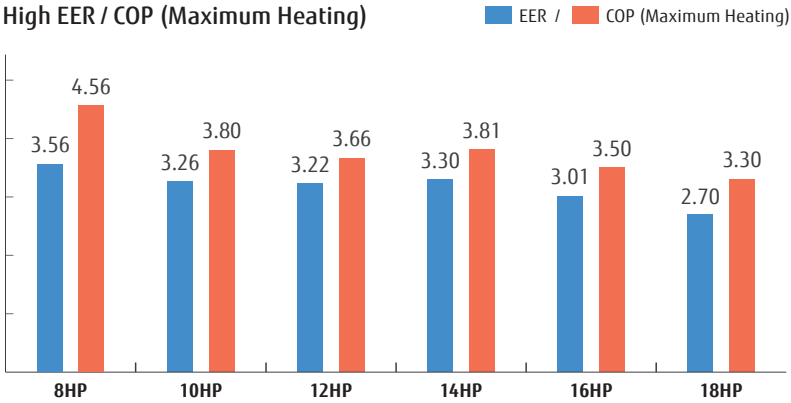
Installation at back street of building

Flexible installation

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

Efficiency in actual operation

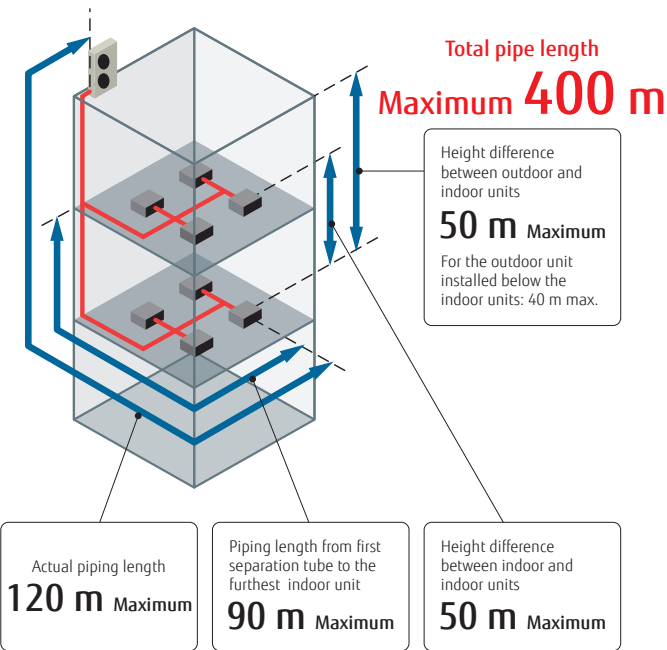
Top class high EER/COP(Max. Heating) is achieved for all models by large heat exchanger, high efficient Scroll compressor, and our own technologies.



* These specifications are determined by cassette combination.

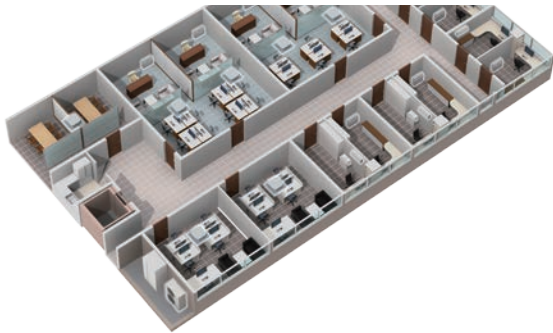
Long piping length

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.



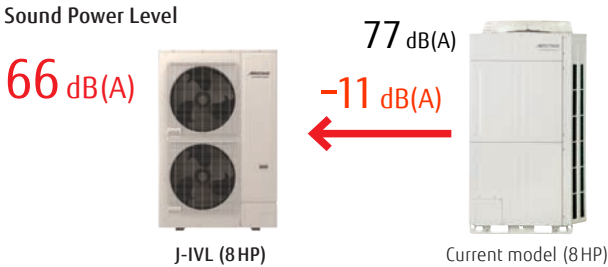
Up to 42 indoor units* can be connected

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



Top Class Low Operating Sound

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



8,10,12 HP: AJY072LELBH / AJY090LELBH / AJY108LELBH
14,16,18 HP: AJY126LELBH / AJY144LELBH / AJY162LELBH



Specifications

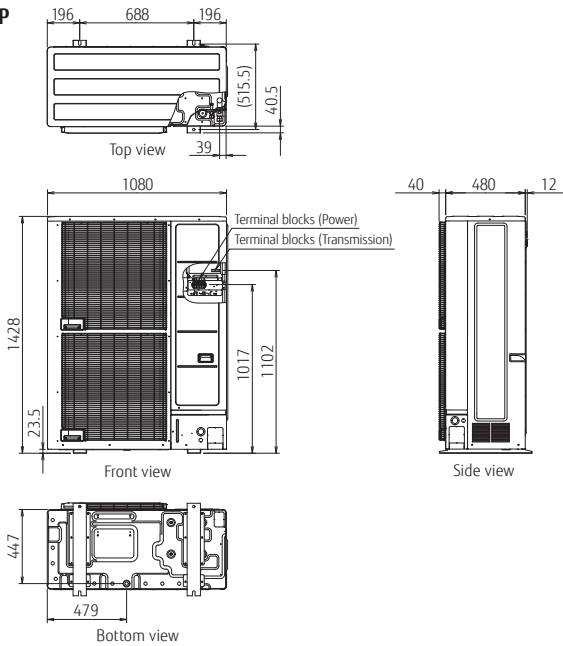
Rating Capacity range		HP	8	10	12	14	16	18
Model name			AJY072LELBH	AJY090LELBH	AJY108LELBH	AJY126LELBH	AJY144LELBH	AJY162LELBH
Maximum Connectable Indoor Unit			1-20	1-25	1-30	1-36	1-40	1-42
Power source			3 phase, ~400V, 50Hz					
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0
	Nominal Heating		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
	Nominal Heating		4.82	4.24	4.10	4.12	3.81	3.66
COP	Max. Heating		4.56	3.80	3.66	3.81	3.50	3.30
Airflow rate		m³/h	8,400	9,000	11,000/12,100	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/-	62/-	63/-	65/-	68/-
	Height		1,428	1,428	1,428	1,638	1,638	1,638
Net Dimensions	Width	mm	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)					
Operating 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 operating 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.
* These specifications are determined by cassette combination.

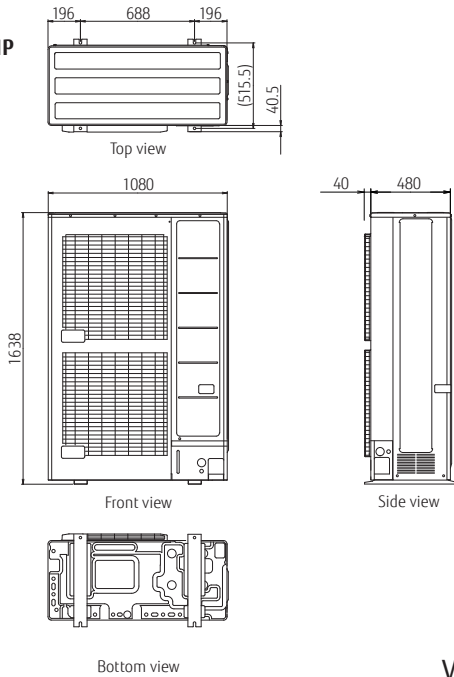
Dimensions

(Unit : mm)

8, 10, 12 HP



14, 16, 18 HP



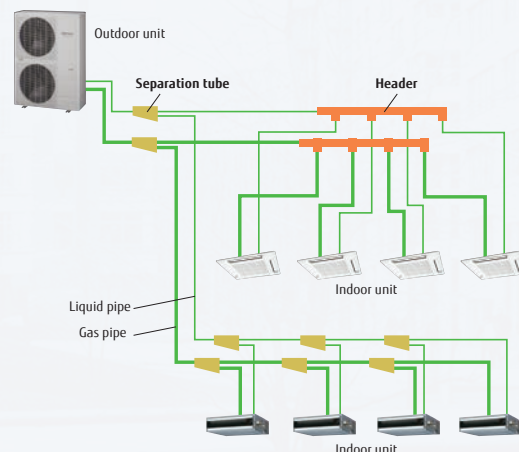
Heat Pump

for Small Capacity Type

AIRSTAGE™ J-IV

System configuration example

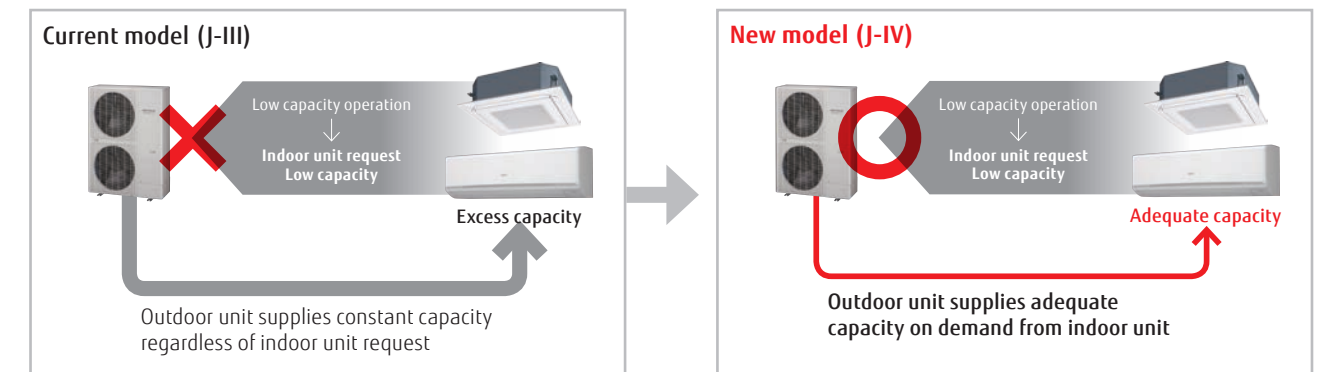
- This system is used for small and medium-sized buildings. 1 refrigerant system is used for each outdoor unit.
- Connection of multiple indoor units using separation tubes and headers.



New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control.

New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.



* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

External static pressure

External static pressure is available up to 30Pa for 4/5/6HP.



Advanced high efficiency technology



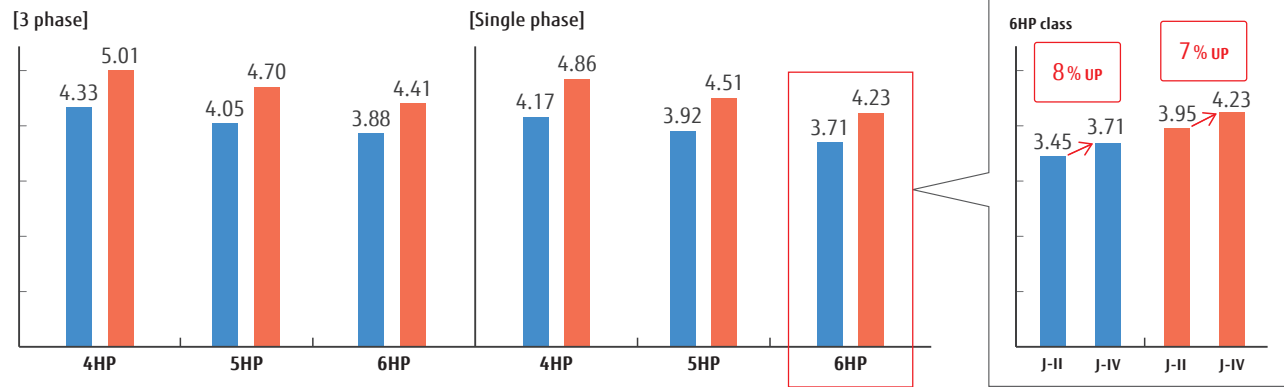
4,5,6HP : AJY040LBLBH / AJY045LBLBH / AJY054LBLBH
AJY040LELBH [3 phase] / AJY045LELBH [3 phase] / AJY054LELBH [3 phasee]



Efficiency in actual operation

Top class high COP (Max. Heating) is achieved for all models by large heat exchanger, high efficient DC twin compressor, and our own technologies.

High EER / COP (Maximum Heating)



* These specifications are determined by cassette combination.

Specifications

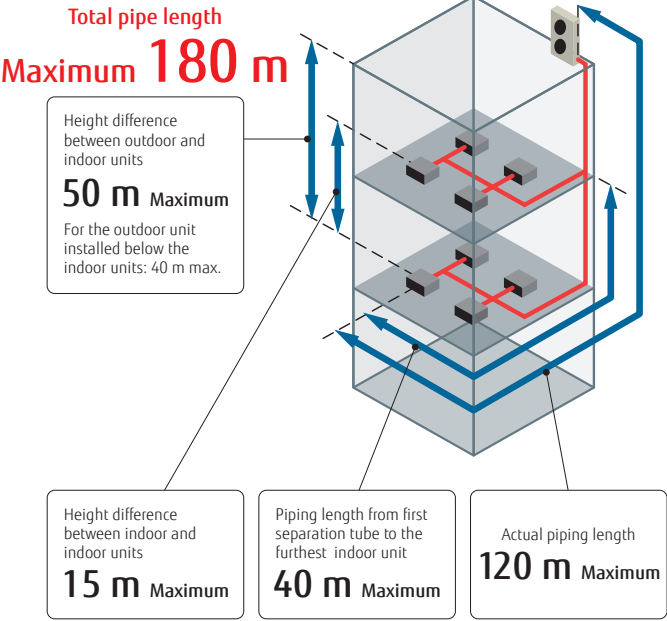
Rating Capacity range		HP	4	5	6
Model name			AJY040LBLBH	AJY045LBLBH	AJY054LBLBH
Maximum Connectable Indoor Unit			1-11	1-12	1-14
Power source			Single phase, ~230V, 50Hz		
Capacity	Cooling	kW	12.1	14.0	15.5
	Nominal Heating		12.1	14.0	15.5
	Max. Heating		13.6	16.0	18.0
Input power	Cooling	kW	2.90	3.57	4.18
	Nominal Heating		2.39	2.97	3.50
	Max. Heating		2.80	3.55	4.26
EER	Cooling	W/W	4.17	3.92	3.71
	Nominal Heating		5.06	4.71	4.43
	Max. Heating		4.86	4.51	4.23
Airflow rate		m³/h	6,200	6,400	6,900
Sound pressure level / Power level	Cooling	dB(A)	50 / 65	51 / 65	53 / 66
	Heating		52 / 67	55 / 69	56 / 69
Heat exchanger fin			Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,334	1,334	1,334
	Width		970	970	970
	Depth		370	370	370
Weight		kg	117	117	119
	Refrigerant	Type (Global Warming Potential)	R410A (2,088)	R410A (2,088)	R410A (2,088)
Connection pipe diameter	Charge	kg(CO2eq-T)	4.8 (10.0)	5.3 (11.1)	5.3 (11.1)
	Liquid	mm	9.52	9.52	9.52
	Gas	mm	15.88	15.88	19.05
Total pipe length		m	180	180	180
Max. height difference			50/40 (Outdoor unit: Upper/Lower)		
Operating 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 operating range.

* These specifications are determined by cassette combination.

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.



Up to 14 units* can be connected

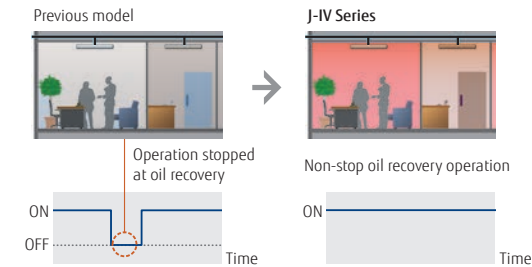
Up to 14 units* can be connected The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 14 units.

*: 6 HP model

Model	Current model (J-III)			New model (J-IV)		
	4	5	6	4	5	6
Rating Capacity range (HP)	4	5	6	4	5	6
Max. Connectable indoor unit	1-9	1-10	1-13	1-11	1-12	1-14

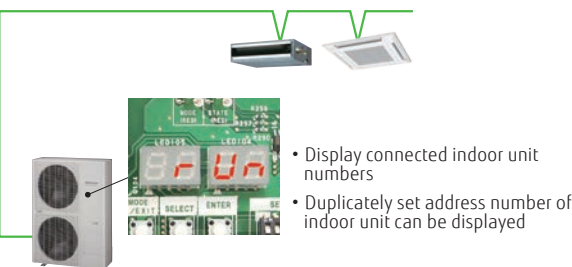
Non-stop oil recovery operation

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



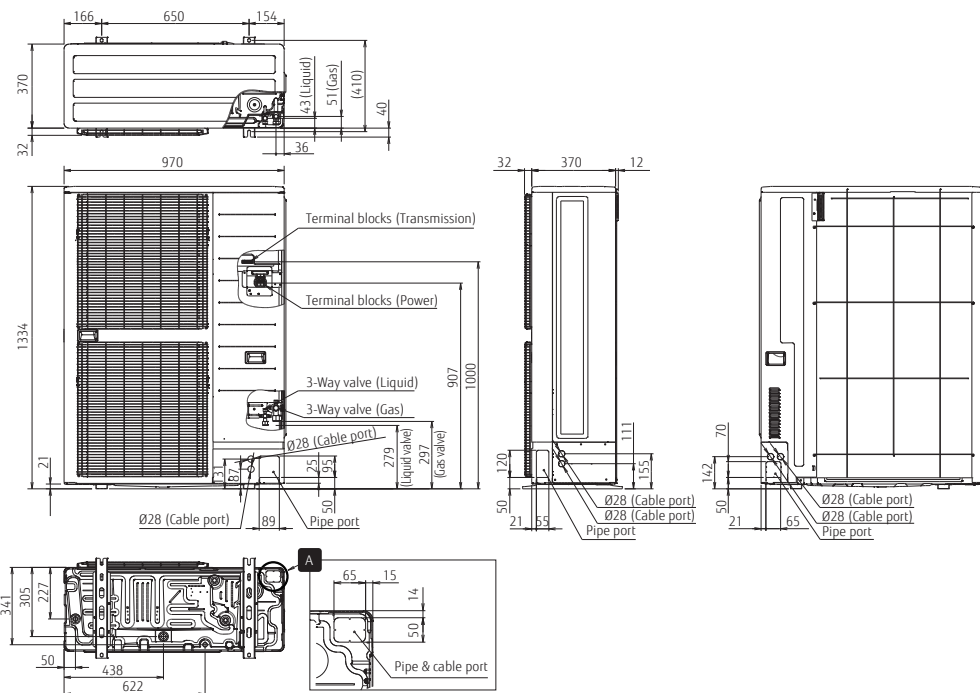
Easier Installation

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



Dimensions

(Unit : mm)



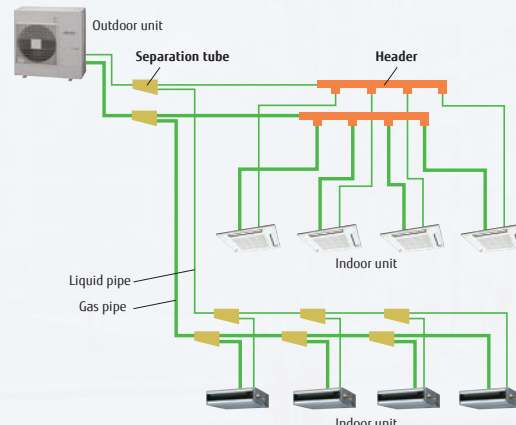
Heat Pump

for Small Capacity Type

AIRSTAGE™ J-IVS

System configuration example

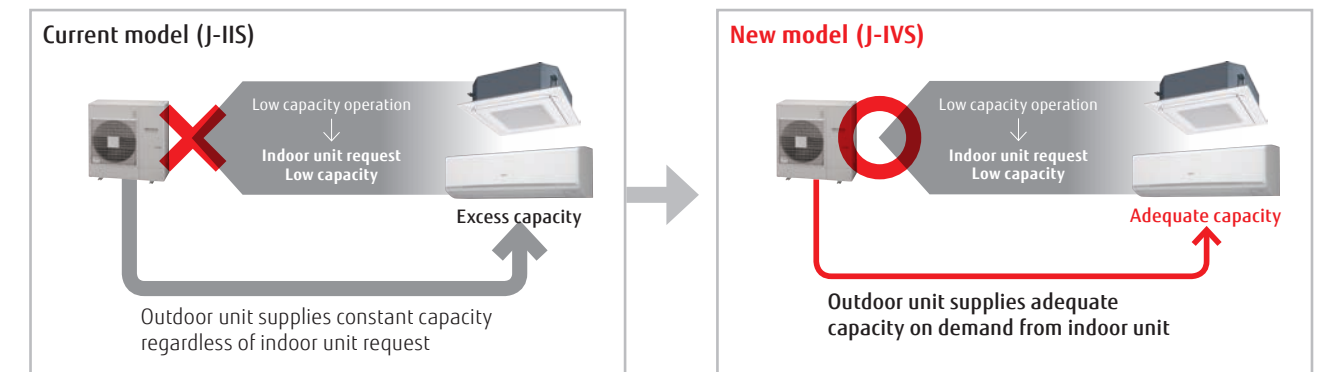
- This system is used for small and medium-sized buildings. 1 refrigerant system is used for each outdoor unit.
- Connection of multiple indoor units using separation tubes and headers.



New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control.

New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.



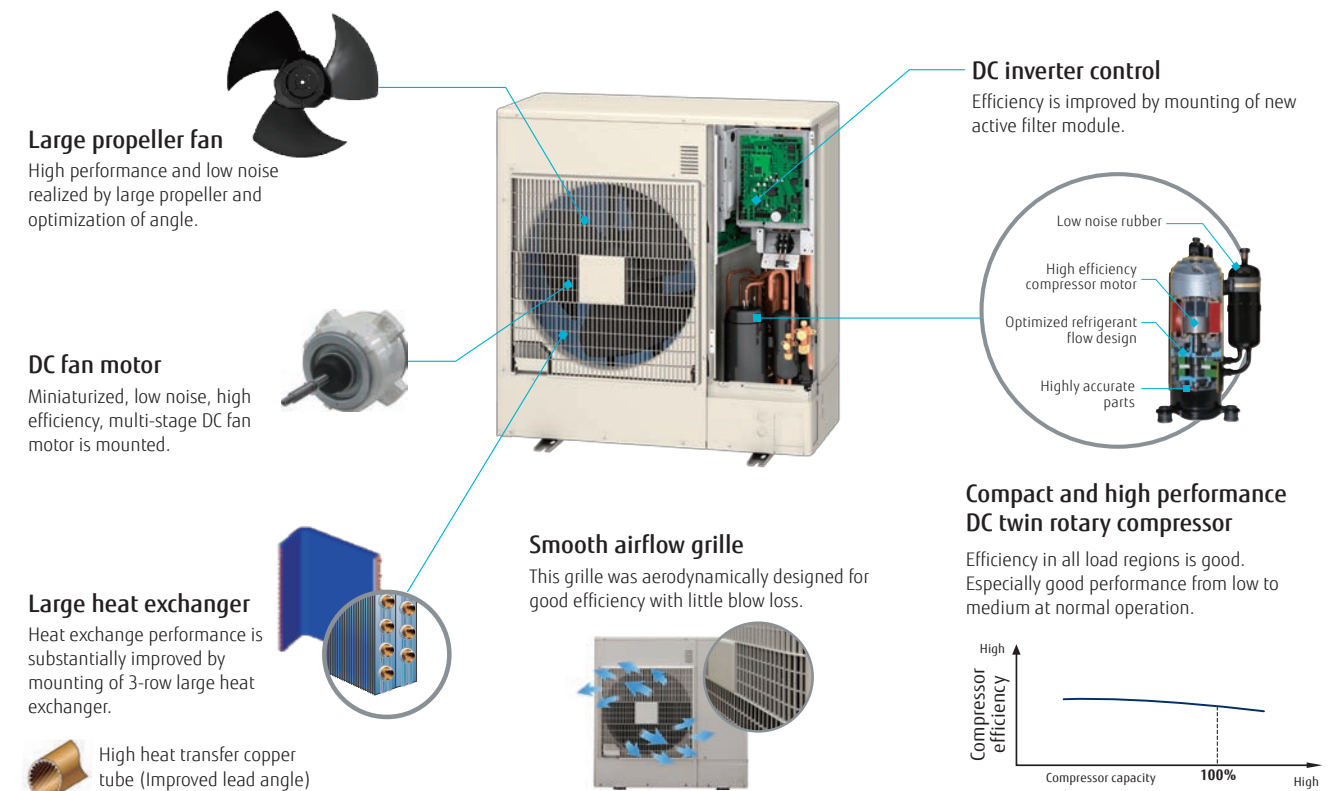
* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

External static pressure

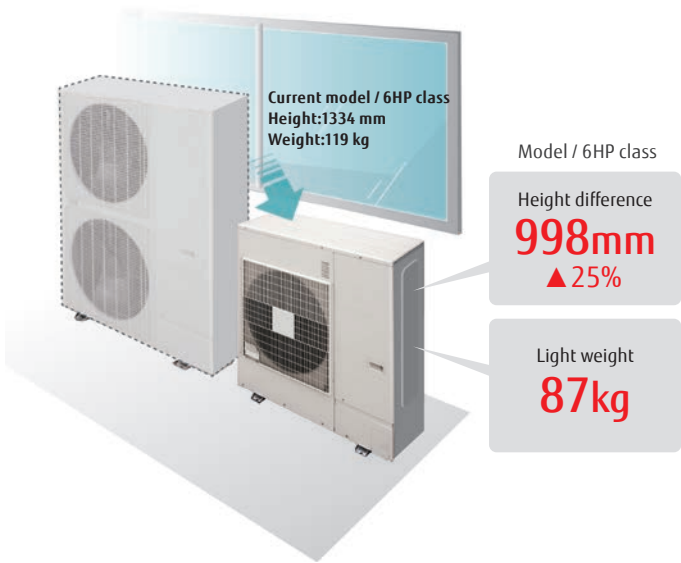
External static pressure is available up to 25Pa for 4/5/6HP.



Advanced high efficiency technology

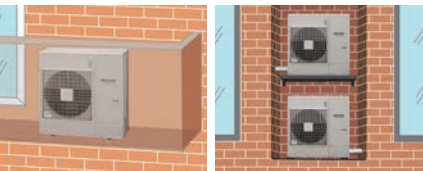


It Can be Easily Carried and Installed



Small and light weight outdoor unit

This model is much more compact than conventional 6HP comparable outdoor units. Even when installed on the balcony it fits within the height of the fence. The compact size with a height of less than 1 m allows it to be installed under windows and in tight spaces



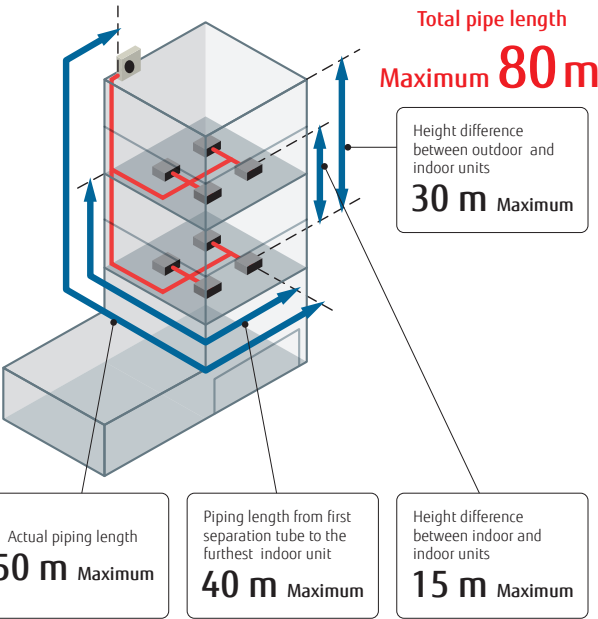
Low sound level design

Significantly low sound level is improved by using DC twin rotary compressor, inverter technology, and advanced airflow structure design.



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.



Up to 13 units* can be connected

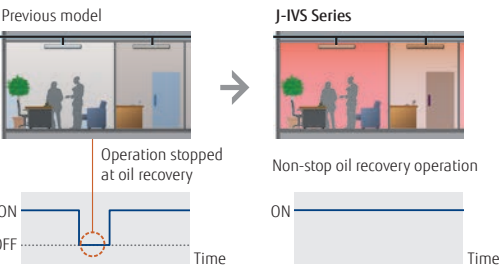
The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 13 units.

*: 6 HP model

Model	Current model (J-IIS)			New model (J-IVS)		
Rating Capacity range (HP)	4	5	6	4	5	6
Max. Connectable indoor unit	1-7	1-8	1-8	1-11	1-12	1-13

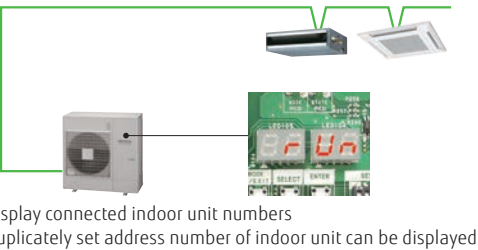
Non-stop oil recovery operation

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.



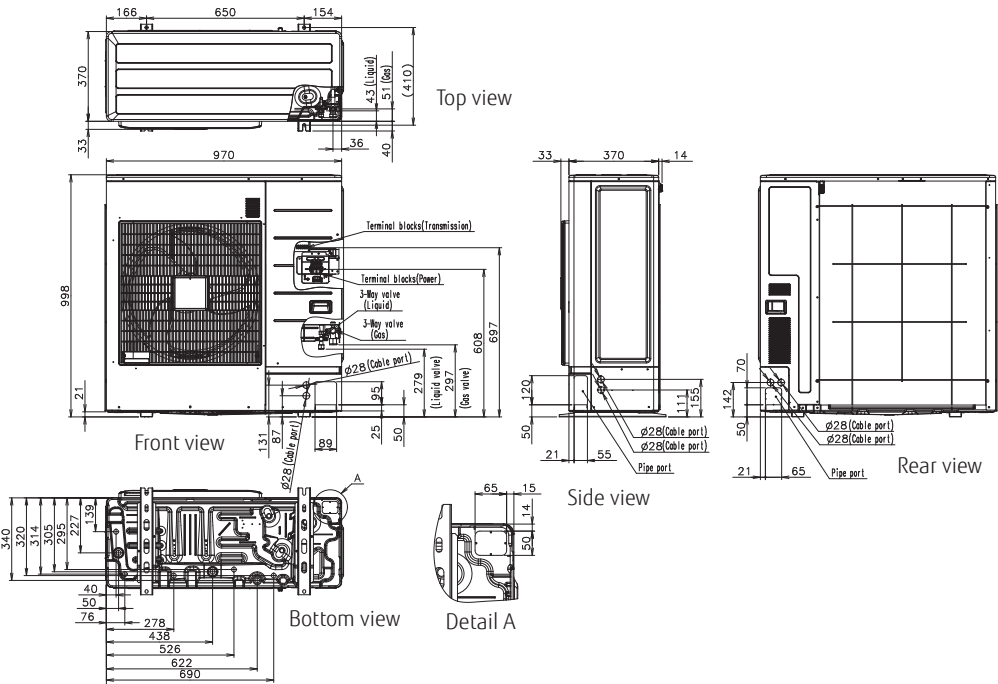
Specifications

Rating Capacity range		HP	4	5	6
Model name			AJY040LCLBH	AJY045LCLBH	AJY054LCLBH
Maximum Connectable Indoor Unit			1-11	1-12	1-13
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		2.55	3.11	3.52
	Max. Heating		3.27	3.93	4.11
EER	Cooling	W/W	3.52	3.16	3.00
COP	Nominal Heating		4.74	4.51	4.30
	Max. Heating		4.16	4.07	4.01
Airflow rate		m³/h	4,040	4,200	4,200
Sound pressure level / Power level	Cooling	dB(A)	51 / 67	53 / 69	54 / 70
	Heating		54 / 68	56 / 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
Operating 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 operating range.
* These specifications are determined by cassette combination.

Dimensions

(Unit : mm)



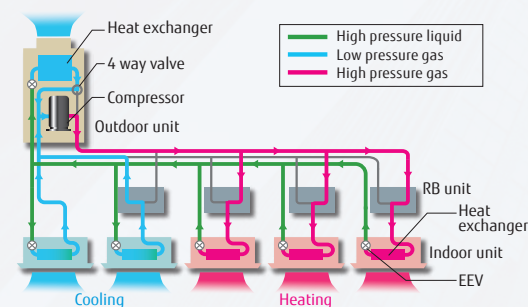
Heat Recovery

Modular Type

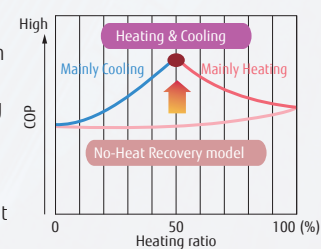
AIRSTAGE[™] VR-IV

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.



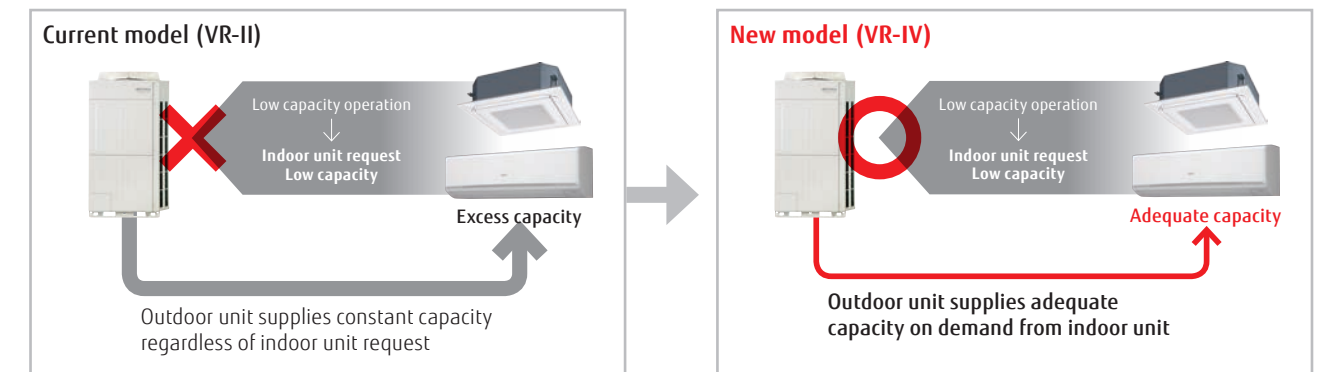
Our Heat recovery systems achieve high operating energy efficiency by drawing heat from the room to be cooled and transferring it as energy for rooms that are to be heated.



New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control.

New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.



* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

Improvement in the number of connectable indoor units

Connectable indoor unit capacity range

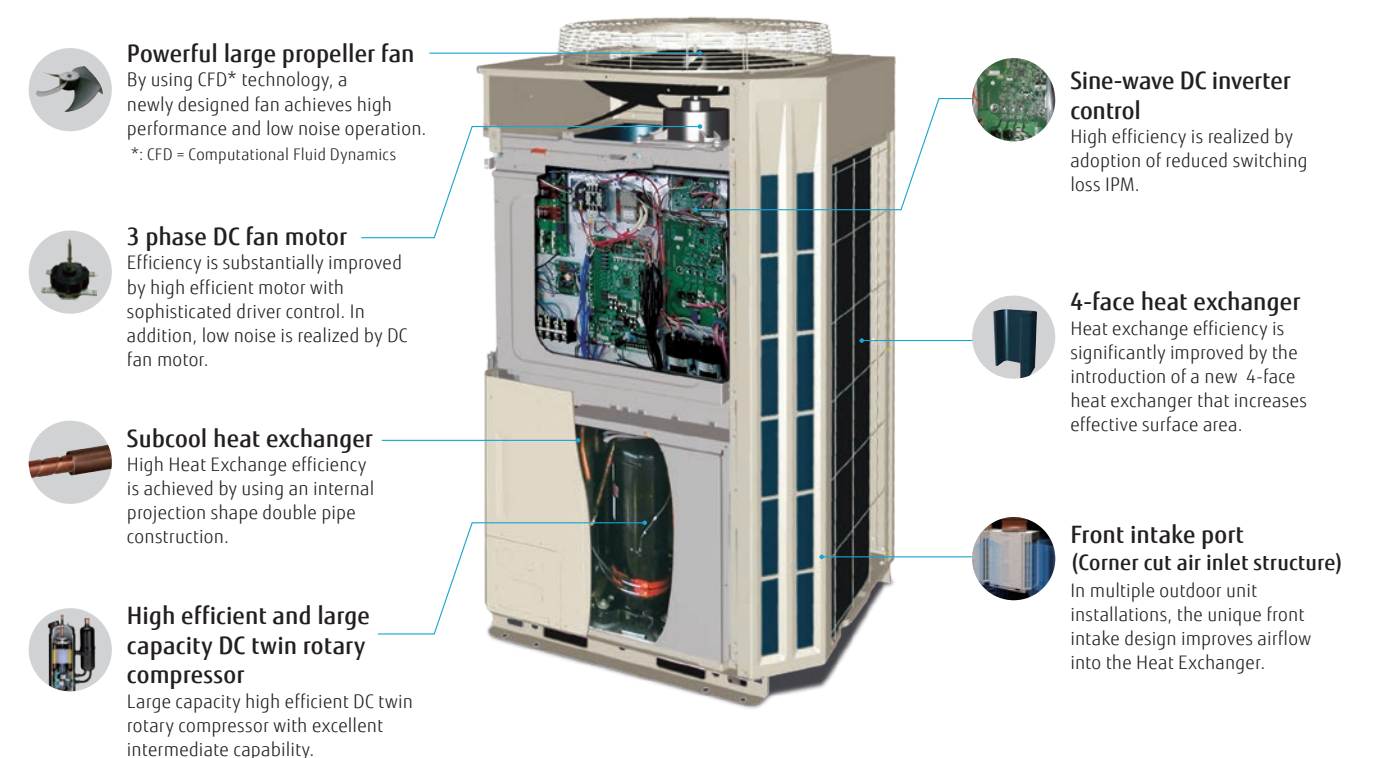
New model (VR-IV)	25%* to 150%
Current model (VR-II)	50% to 150%

*: For modular type, 25% to 49.9% operation in the entire system is available. (by one unit operation)

Connectable indoor unit number Space Saving Combination (Unit)

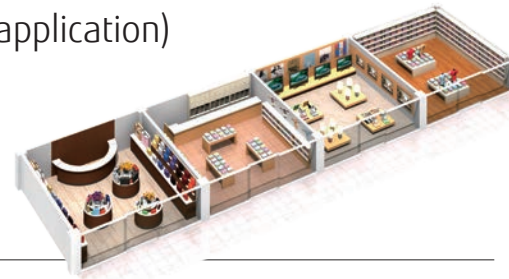
HP	8	10	12	14	16	...	28	30	32	...	48
New model (VR-IV)	17	21	26	30	34	...	60	64	64	...	64
Current model (VR-II)	15	16	17	21	24	...	42	45	48	...	64

Energy saving technology that boosted operation efficiency



Extended connection ratio (for Multi-tenant application)

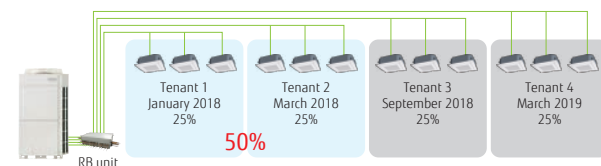
This function is especially effective when partial air-conditioning starts at the building under construction. Installation work can be added flexibly for each tenant.



Stand alone

Current model (VR-II)

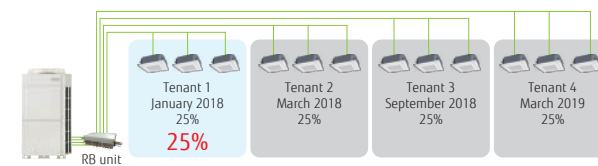
Example) for 12HP: 6HP operations for 50% are required.



Construction work is required even at the tenant which is not yet open.

New model (VR-IV)

Example) for 12HP: 3HP operations for 25% are enabled.

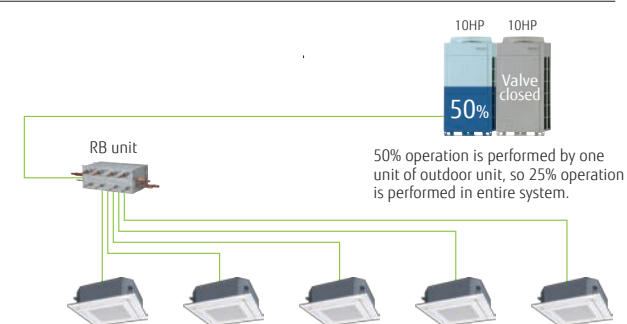


Installation and commissioning can be added flexibly according to the opening date of other tenants.

Modular type

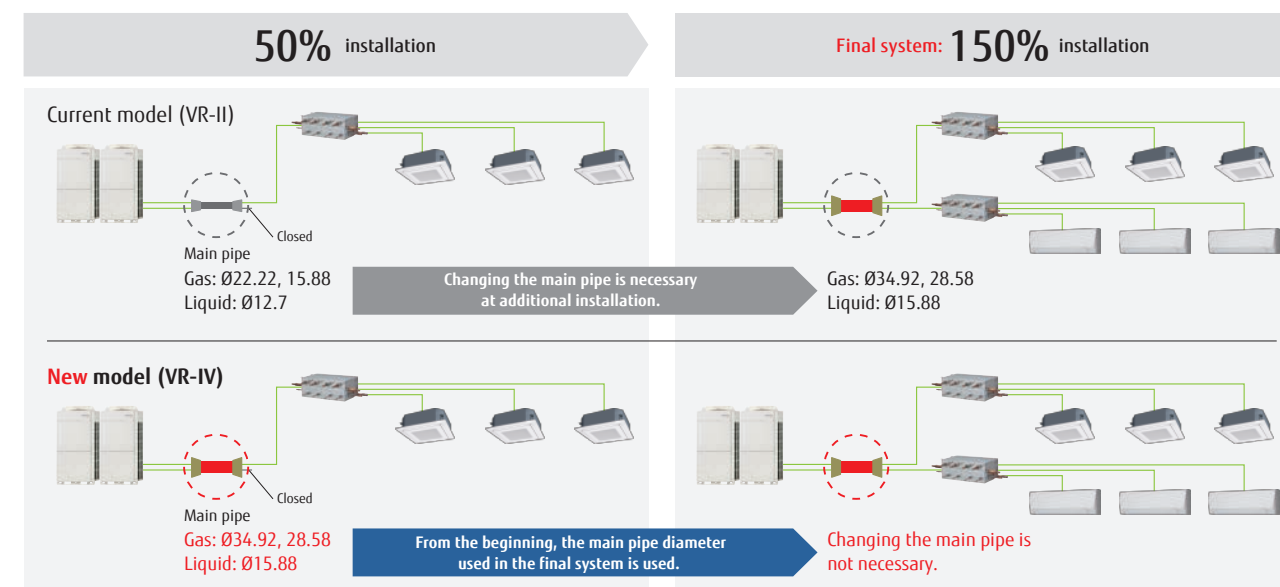
One outdoor unit operates effectively for the connectable indoor unit capacity in the entire system. (25% operation by multiple units is not available.)

Example) for 25% operation (5HP) of 20HP (10HP x 2 units)
5HP operation by 50% of one 10HP outdoor unit is performed.
→25% operation by 2 units is not performed.



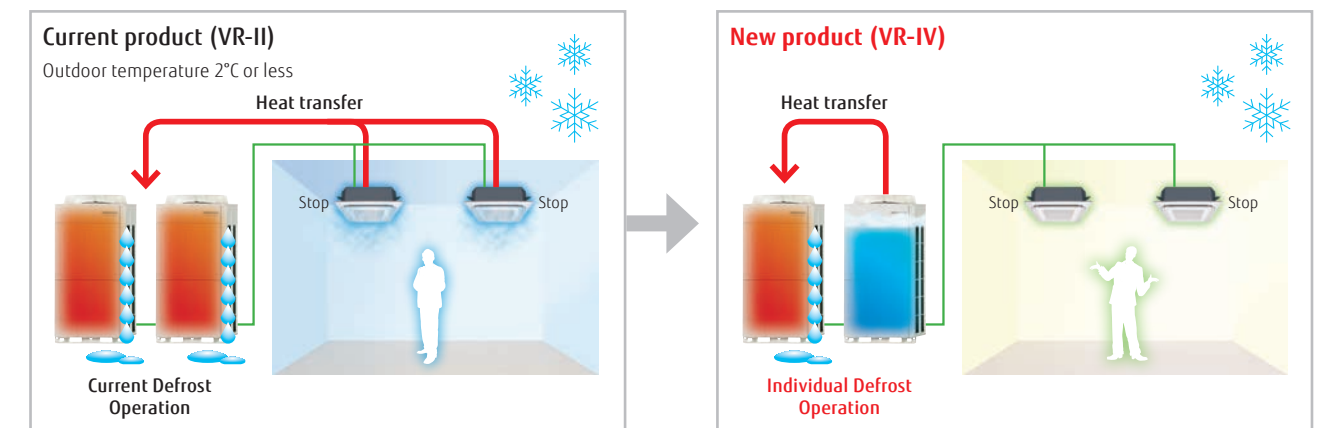
Additional installation without changing the main pipe

Installation work can be performed from the beginning by the main pipe diameter used in the final system. Unlike current model, changing the main pipe is not necessary, so duplication of work is resolved.



New Individual Defrost Operation

"Individual Defrost Operation" is a function to maintain the indoor comfort while under defrost operation.

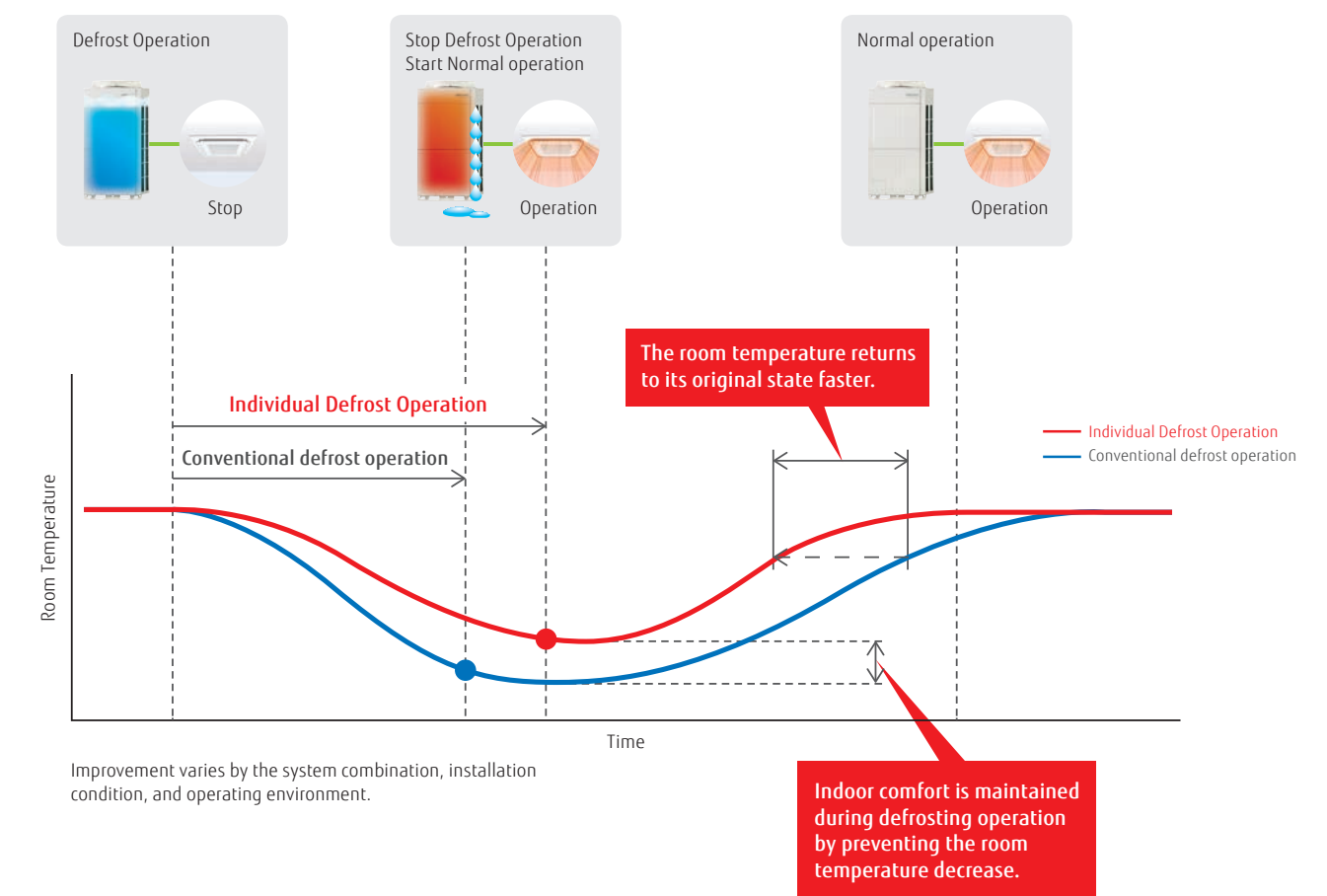


When under the defrost operation, the heat is absorbed from the indoor dropping the room temperature.

With the "Individual Defrost operation", the heat is absorbed from outdoor by the other unit to avoid excessive room temperature drop.

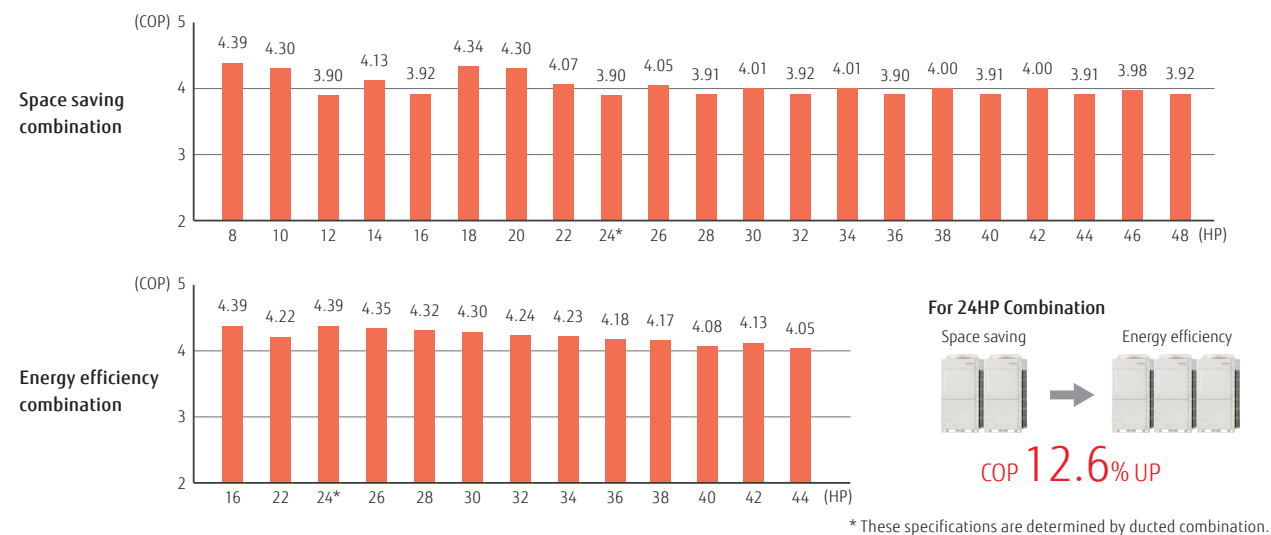
* It can be used only when the outdoor unit has a modular connection.

In the case of individual defrost operation, indoor unit returns to its original state quickly after defrost operation.



Efficiency in actual operation

Top class high COP(Max. Heating) is achieved for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and our own technologies.



All inverter compressor

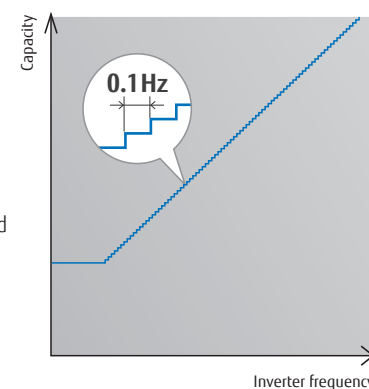
Large capacity DC inverter compressor

Large capacity high efficient DC twin rotary compressor with excellent intermediate capability.



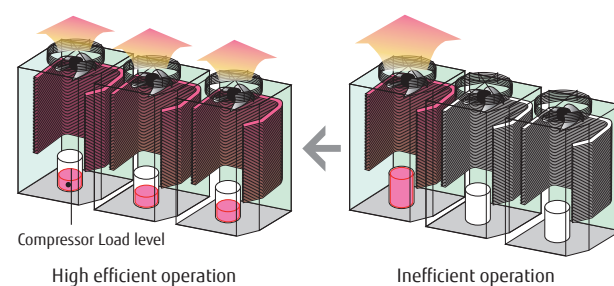
High efficient compressor speed control

Comfortable space with small room temperature changes and little energy loss is created by 0.1Hz steps compressor speed control.



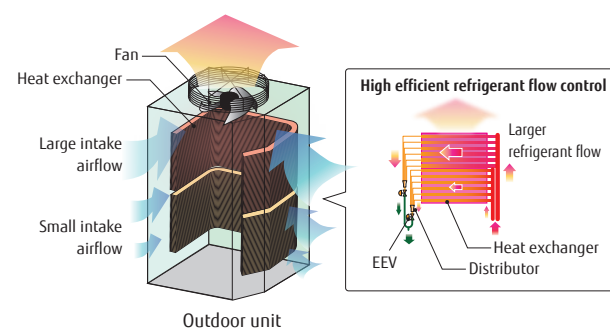
Multiple outdoor operation control

When multiple outdoor units are connected a sophisticated operation is performed by each compressor. Rather than running one compressor at full load and distributing refrigerant to one heat exchanger, this control method operates all compressors at part load and distributes refrigerant to all of the heat exchangers which allows for the overall system efficiency to be improved.



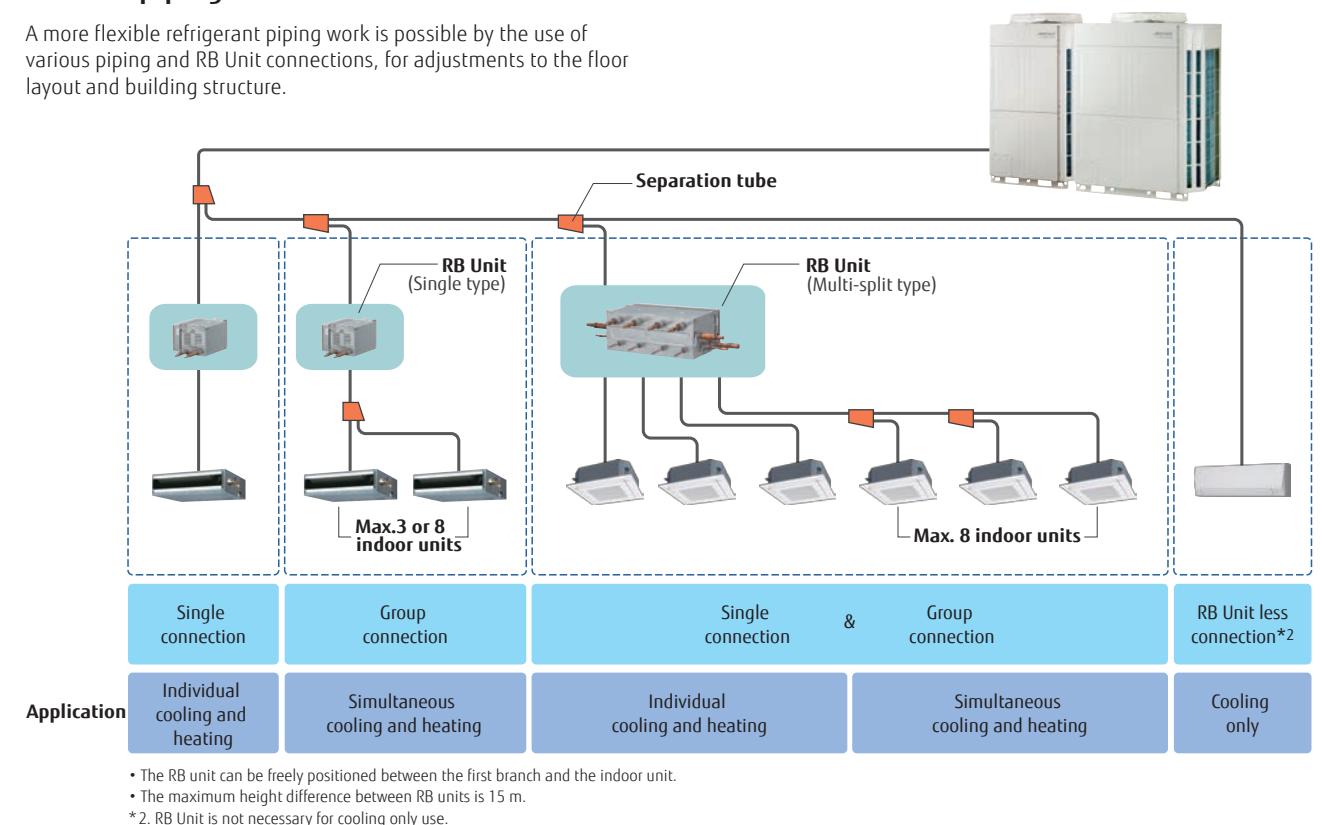
Heat exchanger refrigerant control

The heat exchanger in the outdoor unit is split into two parts (Top and Bottom). The efficiency of the heat exchanger has been improved by adopting an optimum refrigerant path control where the refrigerant is distributed more into the top heat exchanger as this is where there is a greater air flow intake.

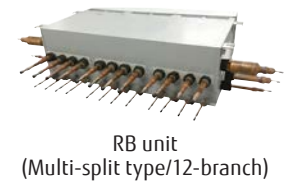
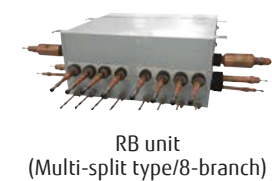


Flexible piping connection

A more flexible refrigerant piping work is possible by the use of various piping and RB Unit connections, for adjustments to the floor layout and building structure.

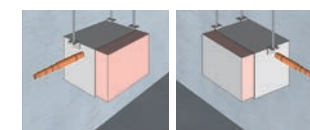


Flexible installation of RB unit



Small & slim design saves space. Height 198 mm*!

- A drain pipe is not required
 - The control box position can be changed to meet the installation conditions
 - Simple installation series connection design
- *: RB Unit (Single type)



Installation possible from either side for freedom of the control box

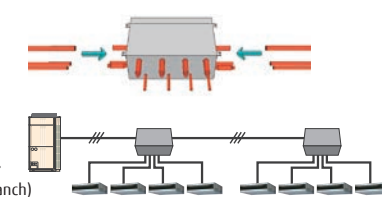


Installation possible on the upper-side for use in narrow space*
*: RB Unit (Single type)

2-way connection

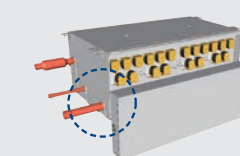
- Up to 2 units can be connected in series*.

*: RB Unit (Single type/4-branch)



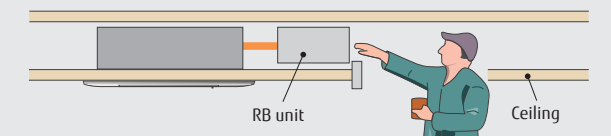
Easy to maintenance in a narrow space

Maintenance can be performed from the side.



Electric box can be temporarily fixed by sliding down.

Parts can be replaced easily even at narrow space in the ceiling.



Outdoor units lineup • Combinations other than the followings are not recommended.

Space saving Combinations

22.4kW (8HP)  AJY072GALBH UNIT : AJY072GALBH	28.0kW (10HP)  AJY090GALBH UNIT : AJY090GALBH	33.5kW (12HP)  AJY108GALBH UNIT : AJY108GALBH	40.0kW (14HP)  AJY126GALBH UNIT : AJY126GALBH	45.0kW (16HP)  AJY144GALBH UNIT : AJY144GALBH
50.4kW (18HP)  AJY162GALBH UNIT : AJY090/072GALBH	56.0kW (20HP)  AJY180GALBH UNIT : AJY090/090GALBH	61.5kW (22HP)  AJY198GALBH UNIT : AJY108/090GALBH	67.0kW (24HP)  AJY216GALBH UNIT : AJY108/108GALBH	73.0kW (26HP)  AJY234GALBH UNIT : AJY144/090GALBH
78.5kW (28HP)  AJY252GALBH UNIT : AJY144/108GALBH	85.0kW (30HP)  AJY270GALBH UNIT : AJY144/126GALBH	90.0kW (32HP)  AJY288GALBH UNIT : AJY144/144GALBH	95.0kW (34HP)  AJY306GALBH UNIT : AJY108/108/090GALBH	100.5kW (36HP)  AJY324GALBH UNIT : AJY108/108/108GALBH
106.5kW (38HP)  AJY342GALBH UNIT : AJY144/108/090GALBH	112.0kW (40HP)  AJY360GALBH UNIT : AJY144/108/108GALBH	118.0kW (42HP)  AJY378GALBH UNIT : AJY144/144/090GALBH	123.5kW (44HP)  AJY396GALBH UNIT : AJY144/144/108GALBH	130.0kW (46HP)  AJY414GALBH UNIT : AJY144/144/126GALBH
135.0kW (48HP)  AJY432GALBH UNIT : AJY144/144/144GALBH				

Energy efficiency Combinations

44.8kW (16HP)  AJY144GALBHH UNIT : AJY072/072GALBH	62.4kW (22HP)  AJY198GALBHH UNIT : AJY126/072GALBH	67.2kW (24HP)  AJY216GALBHH UNIT : AJY072/072/072GALBH	72.8kW (26HP)  AJY234GALBHH UNIT : AJY090/072/072GALBH	78.4kW (28HP)  AJY252GALBHH UNIT : AJY090/090/072GALBH
84.0kW (30HP)  AJY270GALBHH UNIT : AJY090/090/090GALBH	90.4kW (32HP)  AJY288GALBHH UNIT : AJY126/090/072GALBH	96.0kW (34HP)  AJY306GALBHH UNIT : AJY126/090/090GALBH	102.4kW (36HP)  AJY324GALBHH UNIT : AJY126/126/072GALBH	108.0kW (38HP)  AJY342GALBHH UNIT : AJY126/126/090GALBH
113.0kW (40HP)  AJY360GALBHH UNIT : AJY144/126/090GALBH	120.0kW (42HP)  AJY378GALBHH UNIT : AJY126/126/126GALBH	125.0kW (44HP)  AJY396GALBHH UNIT : AJY144/126/126GALBH		

8,10,12HP : AJY072GALBH / AJY090GALBH / AJY108GALBH
14,16HP : AJY126GALBH / AJY144GALBH



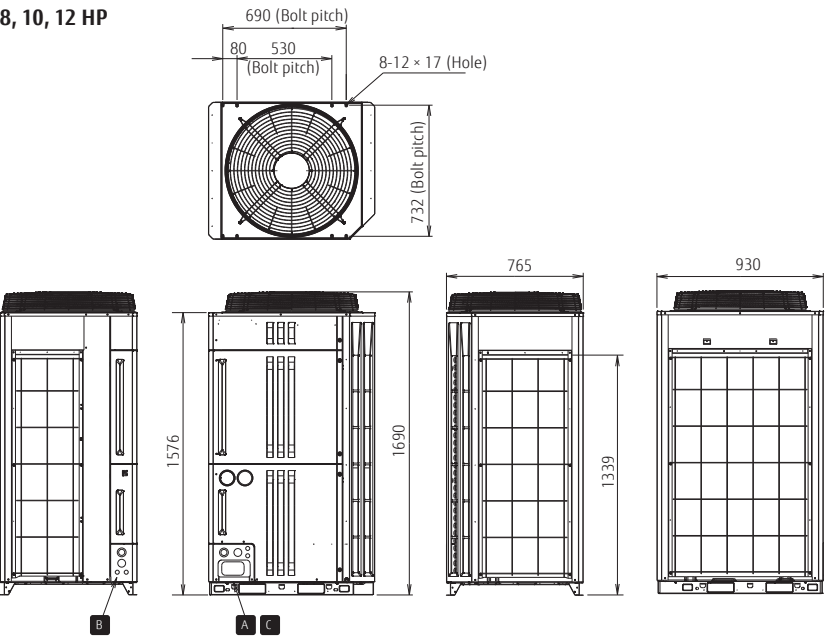
8, 10, 12 HP

14, 16 HP

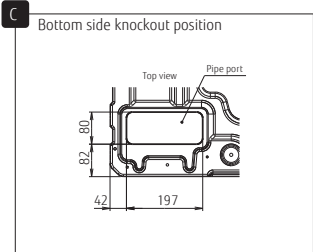
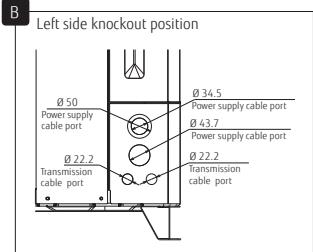
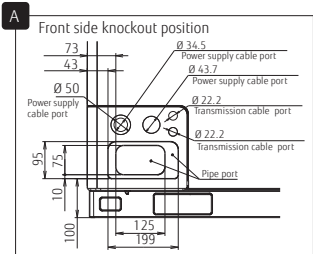
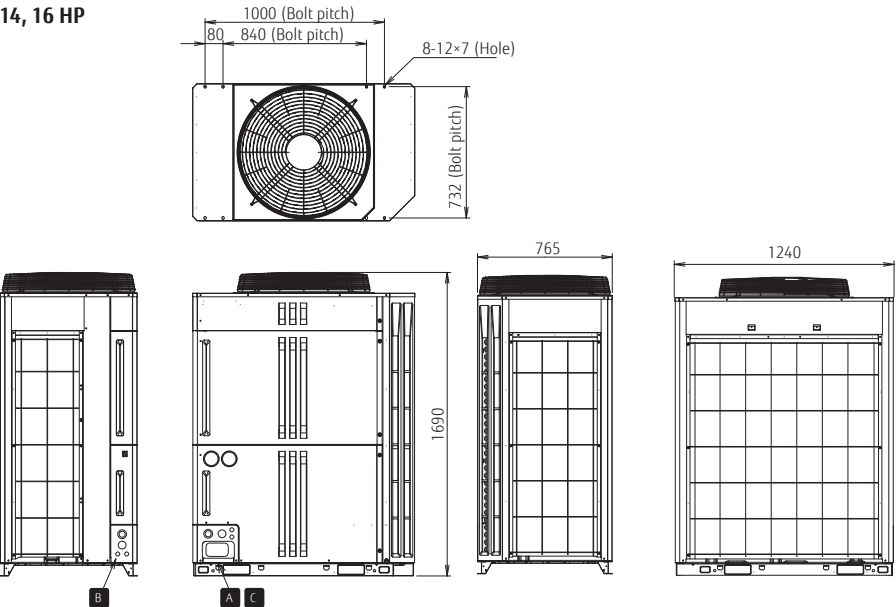
Dimensions

(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			AJY072GALBH	AJY090GALBH	AJY108GALBH	AJY126GALBH	AJY144GALBH	AJY162GALBH	AJY180GALBH	AJY198GALBH	AJY216GALBH	AJY234GALBH	AJY252GALBH	AJY270GALBH	AJY288GALBH	AJY306GALBH	AJY324GALBH	AJY342GALBH	AJY360GALBH	AJY378GALBH	AJY396GALBH	AJY414GALBH	AJY432GALBH		
Unit 1 Unit 2 Unit 3			AJY072GALBH	AJY090GALBH	AJY108GALBH	AJY126GALBH	AJY144GALBH	AJY090GALBH AJY072GALBH	AJY090GALBH AJY090GALBH	AJY108GALBH AJY090GALBH	AJY108GALBH AJY108GALBH	AJY108GALBH AJY108GALBH	AJY144GALBH AJY090GALBH	AJY144GALBH AJY108GALBH	AJY144GALBH AJY126GALBH	AJY144GALBH AJY144GALBH	AJY108GALBH AJY108GALBH AJY090GALBH	AJY108GALBH AJY108GALBH AJY108GALBH	AJY144GALBH AJY108GALBH AJY108GALBH	AJY144GALBH AJY144GALBH AJY108GALBH	AJY144GALBH AJY144GALBH AJY090GALBH	AJY144GALBH AJY144GALBH AJY108GALBH	AJY144GALBH AJY144GALBH AJY126GALBH	AJY144GALBH AJY144GALBH	
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		
Indoor unit connectable capacity			kW	5.6-33.6	7.0-42.0	8.4-50.2	10.0-60.0	11.3-67.5	12.6-75.6*3	14.0-84.0*3	15.4-92.2*3	16.8-100.5*3	18.3-109.5*3	19.7-117.7*3	21.3-127.5*3	22.5-135.0*3	23.8-142.5*3	25.2-150.7*3	26.7-159.7*3	28.0-168.0*3	29.5-177.0*3	30.9-185.2*3	32.5-195.0*3	33.8-202.5*3	
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	14.42	12.56	14.22	16.86	19.50	21.53	24.17	25.76	28.84	26.61	29.25	31.28	33.92	35.95	38.59	40.18	43.26		
	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		4.11	3.94	3.44	3.53	3.12	4.01	3.94	3.65	3.44	3.39	3.25	3.30	3.12	3.57	3.44	3.40	3.30	3.28	3.20	3.24	3.12		
COP	Nominal Heating	W/W	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			m³/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			dB(A)	Cooling	56 / 75	58 / 76	59 / 79	60 / 81	61 / 81	60 / 79	61 / 79	62 / 81	62 / 82	63 / 82	63 / 83	64 / 84	64 / 84	63 / 83	64 / 84	64 / 84	65 / 85	65 / 85	65 / 85	66 / 86	66 / 86
				Heating	58 / 76	59 / 77	62 / 82	62 / 82	62 / 82	62 / 80	62 / 80	63 / 83	64 / 85	63 / 83	64 / 85	64 / 85	64 / 85	65 / 86	67 / 87	65 / 86	67 / 87	66 / 86	67 / 87	67 / 87	67 / 87
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	1,690	
	Width		930	930	930	1,240	1,240	930 × 2	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	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)	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)	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	
	Discharge Gas		15.88	19.05	19.05	22.22	22.22	22.22	22.22	22.22	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	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	41.27	
Operating 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	-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	-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	-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			AJY144GALBHH	AJY198GALBHH	AJY216GALBHH	AJY234GALBHH	AJY252GALBHH	AJY270GALBHH	AJY288GALBHH	AJY306GALBHH	AJY324GALBHH	AJY342GALBHH	AJY360GALBHH	AJY378GALBHH	AJY396GALBHH	
Unit 1 Unit 2 Unit 3			AJY072GALBH AJY072GALBH	AJY126GALBH AJY072GALBH	AJY072GALBH AJY072GALBH AJY072GALBH	AJY090GALBH AJY090GALBH AJY072GALBH	AJY090GALBH AJY090GALBH AJY072GALBH	AJY090GALBH AJY090GALBH AJY090GALBH	AJY126GALBH AJY090GALBH AJY072GALBH	AJY126GALBH AJY126GALBH AJY090GALBH	AJY126GALBH AJY126GALBH AJY072GALBH	AJY126GALBH AJY126GALBH AJY090GALBH	AJY126GALBH AJY126GALBH AJY090GALBH	AJY144GALBH AJY126GALBH AJY090GALBH	AJY126GALBH AJY126GALBH AJY126GALBH	AJY144GALBH AJY126GALBH AJY126GALBH
Maximum Connectable Indoor Unit*1			34	47	52	56	60	64	64	64	64	64	64	64	64	
Indoor unit connectable capacity		kW	11.2-67.2*3	15.6-93.6*3	16.8-100.8*3	18.2-109.2*3	19.6-117.6*3	21.0-126.0*3	22.6-135.6*3	24.0-144.0*3	25.6-153.6*3	27.0-162.0*3	28.3-169.5*3	30.0-180.0*3	31.3-187.5*3	
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	32.87	34.02	37.10	
	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		4.11	3.72	4.11	4.04	3.99	3.94	3.78	3.76	3.64	3.63	3.44	3.53	3.37	
COP	Nominal Heating	W/W	-	-	-	-	-	-	-	-	-	-	-	-	-	
	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		m³/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 / 78	61 / 82	61 / 80	62 / 80	62 / 80	63 / 81	63 / 83	64 / 83	64 / 85	64 / 85	65 / 85	65 / 86	65 / 86	
	Heating		61 / 79	63 / 83	63 / 81	64 / 82	65 / 84	66 / 86	67 / 87	68 / 88	69 / 89	70 / 90	71 / 91	72 / 92	73 / 93	
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 + 930 × 3	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 + 262 × 2	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-1)	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	34.92	41.27	41.27	41.27	41.27	41.27
Operating 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	-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

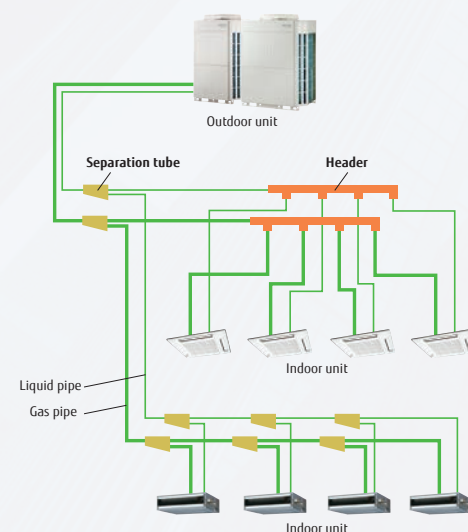
Heat Pump

Modular Type

AIRSTAGE™ V-III

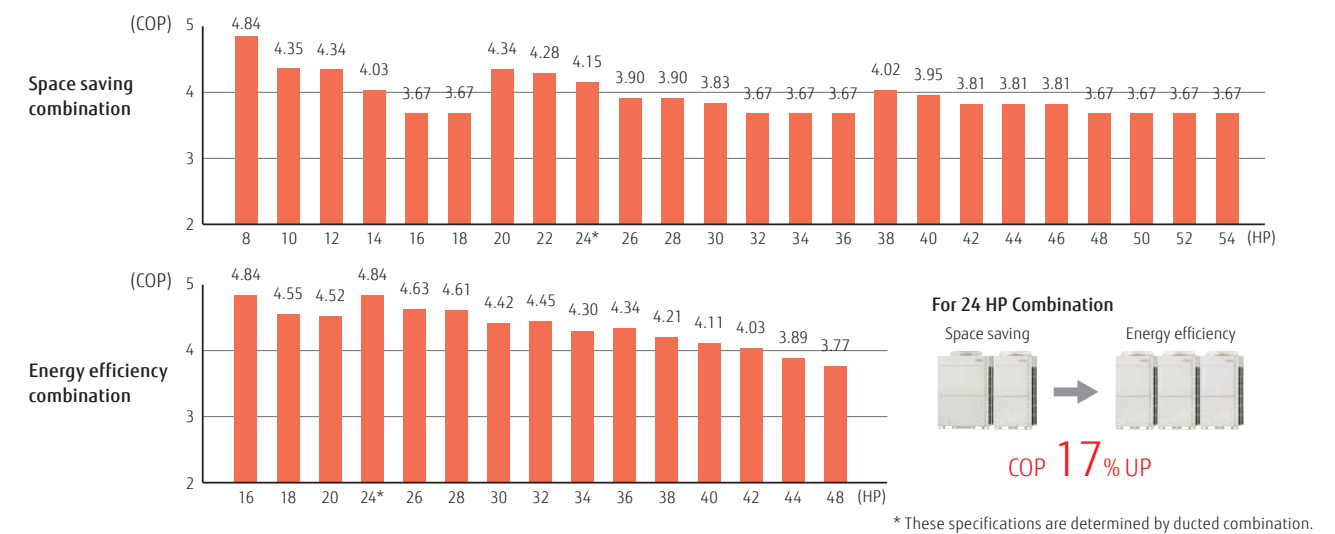
System configuration example

- 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.

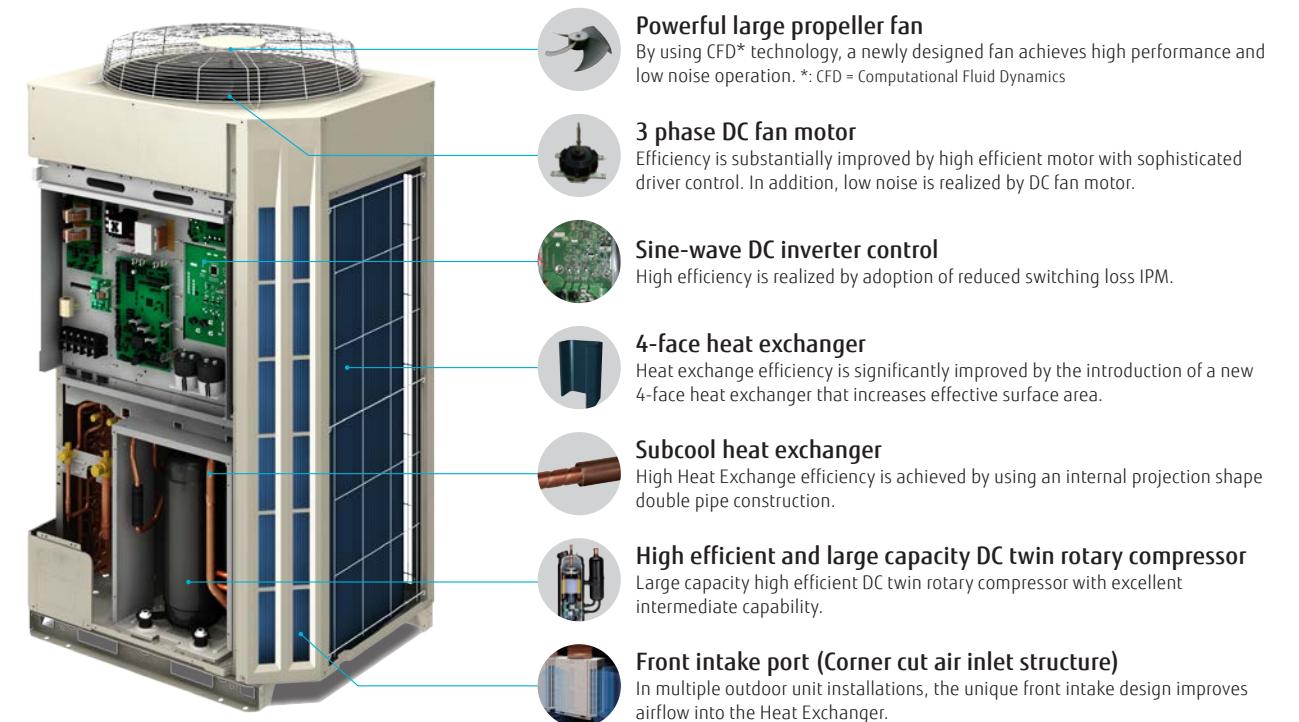


Efficiency in actual operation

Top class high COP is achieved for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and our own technologies.



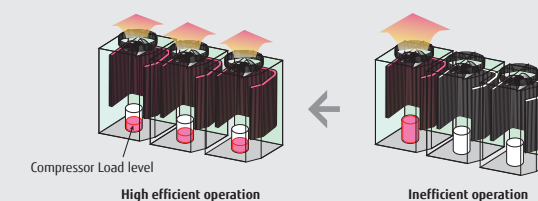
Energy saving technology that boosted operation efficiency



Advanced energy saving control

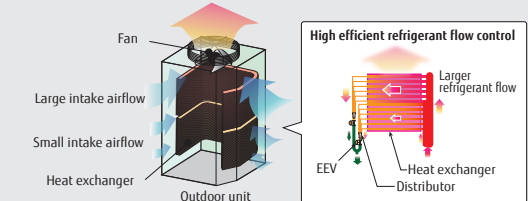
Multiple outdoor operation control

This control method operates all compressors at part load and distributes refrigerant to all heat exchangers to improve the overall system efficiency.



Heat exchanger refrigerant control

The efficiency of the top and bottom heat exchanger in the outdoor unit has been improved by adopting an optimum refrigerant path control.



Outdoor units lineup • Combinations other than the followings are not recommended.

Space saving Combinations

22.4kW (8HP)  AJY072LALBH UNIT : AJY072LALBH	28.0kW (10HP)  AJY090LALBH UNIT : AJY090LALBH	33.5kW (12HP)  AJY108LALBH UNIT : AJY108LALBH	40.0kW (14HP)  AJY126LALBH UNIT : AJY126LALBH	45.0kW (16HP)  AJY144LALBH UNIT : AJY144LALBH
50.0 kW (18HP)  AJY162LALBH UNIT : AJY162LALBH	56.0kW (20HP)  AJY180LALBH UNIT : AJY090/090LALBH	62.4 kW (22HP)  AJY198LALBH UNIT : AJY126/072LALBH	68.0 kW (24HP)  AJY216LALBH UNIT : AJY126/090LALBH	73.0 kW (26HP)  AJY234LALBH UNIT : AJY144/090LALBH
78.0 kW (28HP)  AJY252LALBH UNIT : AJY162/090LALBH	85.0 kW (30HP)  AJY270LALBH UNIT : AJY144/126LALBH	90.0 kW (32HP)  AJY288LALBH UNIT : AJY144/144LALBH	95.0 kW (34HP)  AJY306LALBH UNIT : AJY162/144LALBH	100.0 kW (36HP)  AJY324LALBH UNIT : AJY162/162LALBH
106.0 kW (38HP)  AJY342LALBH UNIT : AJY162/090/090LALBH	113.0 kW (40HP)  AJY360LALBH UNIT : AJY144/126/090LALBH	118.0 kW (42HP)  AJY378LALBH UNIT : AJY144/144/090LALBH	123.0 kW (44HP)  AJY396LALBH UNIT : AJY162/144/090LALBH	128.0 kW (46HP)  AJY414LALBH UNIT : AJY162/162/090LALBH
135.0 kW (48HP)  AJY432LALBH UNIT : AJY144/144/144LALBH	140.0 kW (50HP)  AJY450LALBH UNIT : AJY162/144/144LALBH	145.0 kW (52HP)  AJY468LALBH UNIT : AJY162/162/144LALBH	150.0 kW (54HP)  AJY486LALBH UNIT : AJY162/162/162LALBH	

Energy efficiency Combinations

44.8 kW (16HP)  AJY144LALBHH UNIT : AJY072/072LALBH	50.4kW (18HP)  AJY162LALBHH UNIT : AJY090/072LALBH	55.9 kW (20HP)  AJY180LALBHH UNIT : AJY108/072LALBH	67.2 kW (24HP)  AJY216LALBHH UNIT : AJY072/072/072LALBH	72.8 kW (26HP)  AJY234LALBHH UNIT : AJY090/072/072LALBH
78.3 kW (28HP)  AJY252LALBHH UNIT : AJY108/072/072LALBH	84.8 kW (30HP)  AJY270LALBHH UNIT : AJY126/072/072LALBH	89.4 kW (32HP)  AJY288LALBHH UNIT : AJY108/108/072LALBH	95.9 kW (34HP)  AJY306LALBHH UNIT : AJY126/108/072LALBH	100.5 kW (36HP)  AJY324LALBHH UNIT : AJY108/108/108LALBH
107.0 kW (38HP)  AJY342LALBHH UNIT : AJY126/108/108LALBH	113.5 kW (40HP)  AJY360LALBHH UNIT : AJY126/126/108LALBH	120.0 kW (42HP)  AJY378LALBHH UNIT : AJY126/126/126LALBH	125.0 kW (44HP)  AJY396LALBHH UNIT : AJY144/126/108LALBH	130.0 kW (46HP)  AJY414LALBHH UNIT : AJY144/144/126LALBH

8,10HP: AJY072LALBH / AJY090LALBH
12,14,16,18HP: AJY108LALBH / AJY126LALBH / AJY144LALBH / AJY162LALBH

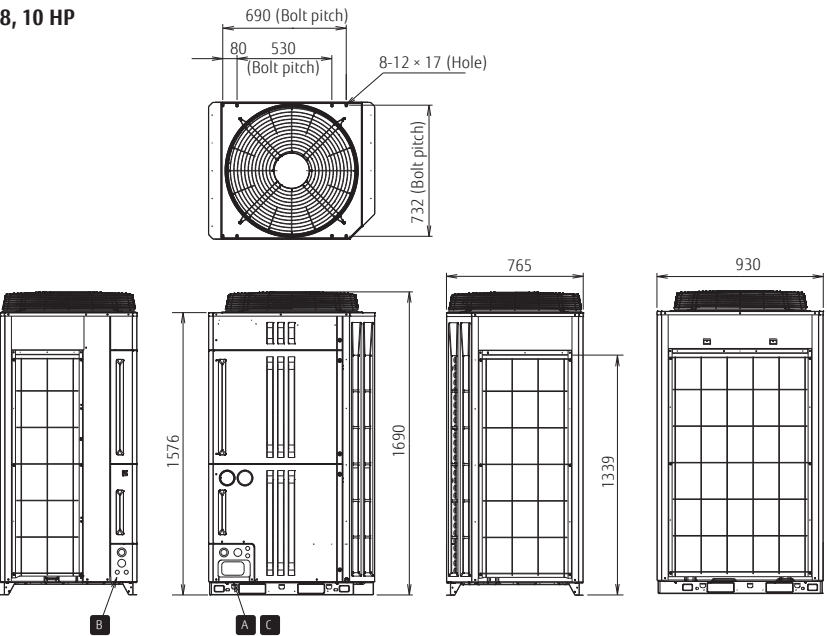


8, 10 HP 12, 14, 16, 18 HP

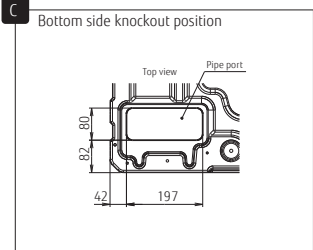
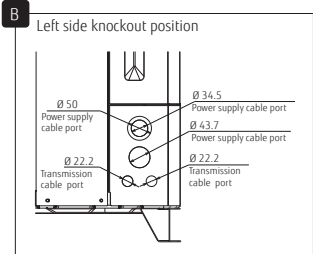
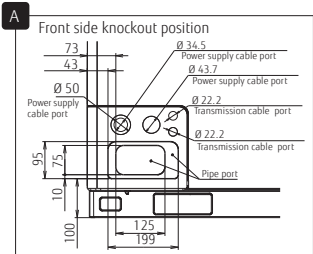
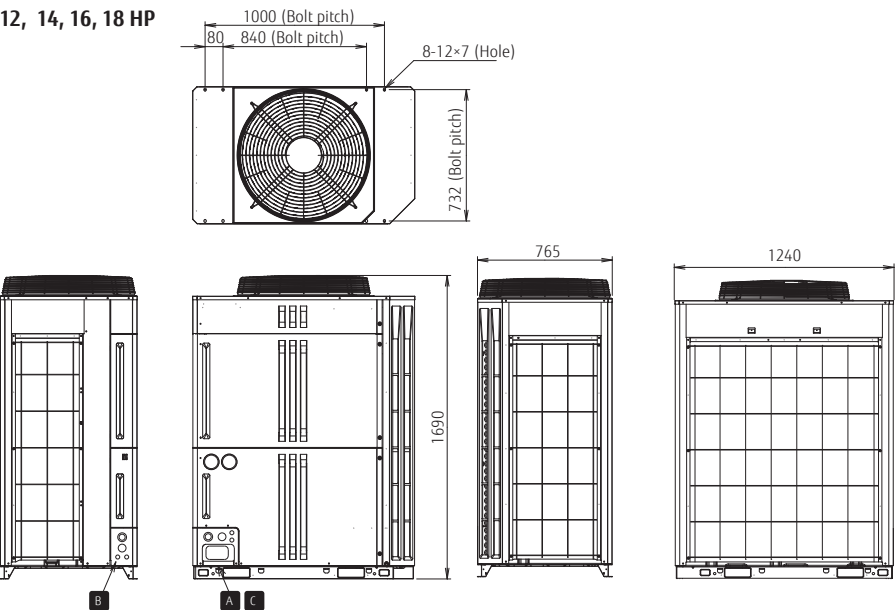
Dimensions

(Unit : mm)

8, 10 HP



12, 14, 16, 18 HP



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 Unit 2 Unit 3			AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY090LALBH AJY090LALBH	AJY126LALBH AJY072LALBH	AJY126LALBH AJY090LALBH	AJY144LALBH AJY090LALBH	AJY162LALBH AJY090LALBH	AJY144LALBH AJY126LALBH		AJY144LALBH	AJY162LALBH AJY144LALBH	AJY162LALBH AJY144LALBH	AJY162LALBH AJY162LALBH	AJY162LALBH AJY162LALBH AJY090LALBH	AJY144LALBH AJY144LALBH AJY090LALBH	AJY144LALBH AJY144LALBH AJY090LALBH	AJY162LALBH AJY144LALBH AJY090LALBH	AJY162LALBH AJY144LALBH AJY090LALBH	AJY162LALBH AJY144LALBH AJY144LALBH	AJY144LALBH AJY144LALBH AJY144LALBH	AJY162LALBH AJY162LALBH AJY162LALBH	AJY162LALBH AJY162LALBH 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	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	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	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	3.67	4.02	3.95	3.81	3.81	3.81	3.67	3.67	3.67	3.67	
Airflow rate		High	m³/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 × 2	13,700 × 2	13,700 × 2	13,700 × 2	13,700 × 2	13,700 × 3	13,700 × 3	13,700 × 3	13,700 × 3	
Sound pressure level**/Power level		Cooling Heating	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	66 / 87	65 / 86	65 / 86	66 / 87	66 / 87	67 / 87	67 / 88	67 / 88	68 / 89	
Maximum external static pressure		Pa		82	82	82	82	84	84	82	82	82	82	82	82	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
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 × 7.5	11.0 × 2		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	
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	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 × 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	
		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	765
Weight		kg	252	252	275	275	275	275	252 × 2	275 × 252	275 × 252	275 × 252	275 × 252	275 × 252	275 × 2		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)	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 × 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 × 2 × 11.7 (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 × 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	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	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	
Operating 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	-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 Unit 2 Unit 3			AJY072LABH AJY072LABH	AJY090LABH AJY072LABH	AJY108LABH AJY072LABH	AJY072LABH AJY072LABH AJY072LABH	AJY090LABH AJY072LABH AJY072LABH	AJY108LABH AJY072LABH AJY072LABH	AJY126LABH AJY072LABH AJY072LABH	AJY108LABH AJY072LABH AJY072LABH	AJY126LABH AJY108LABH AJY072LABH	AJY126LABH AJY108LABH AJY072LABH	AJY108LABH AJY108LABH AJY108LABH	AJY126LABH AJY108LABH AJY108LABH	AJY126LABH AJY126LABH AJY108LABH	AJY126LABH AJY126LABH AJY126LABH	AJY144LABH AJY144LABH AJY126LABH	AJY144LABH AJY144LABH AJY126LABH
Maximum Connectable Indoor Unit*1			34	39	43	52	56	60	64	64	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	m³/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**/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	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	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	
Operating 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.
* These specifications are determined by ducted combination.

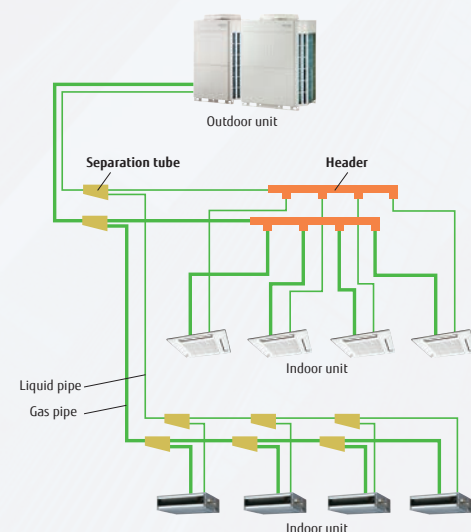
Heat Pump

Modular Type



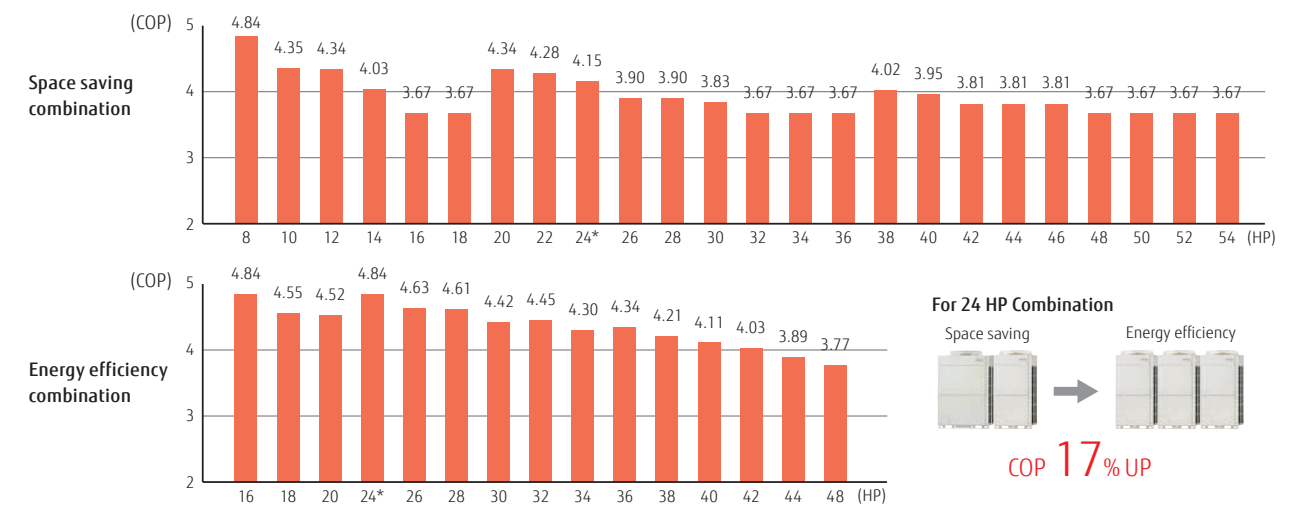
System configuration example

- 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.



Efficiency in actual operation

Top class high COP(Max. Heating) is realized for all combinations by our unique heat exchanger structure, high efficient DC twin compressor, and other our own technologies.



* These specifications are determined by ducted combination.

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.



High ambient & corrosion compatible

PCB components
Refrigerant cycle component

Blue fin heat exchanger

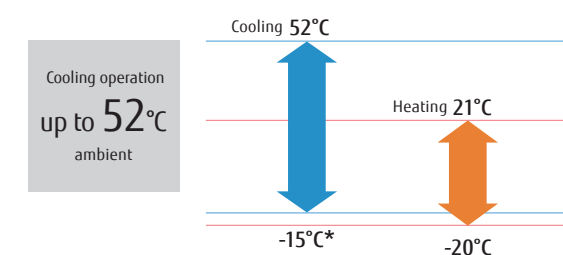
- Hydrophilic coating
- Cobalt Blue protection
- Standard chromate protection
- Aluminium base material

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.



*: When a multiple outdoor unit connection is used, operating range is from -5°C to 52°C in cooling.

Outdoor units lineup • Combinations other than the followings are not recommended.

Space saving Combinations

22.4kW (8HP)  AJY072LNLBH UNIT : AJY072LNLBH	28.0kW (10HP)  AJY090LNLBH UNIT : AJY090LNLBH	33.5kW (12HP)  AJY108LNLBH UNIT : AJY108LNLBH	40.0kW (14HP)  AJY126LNLBH UNIT : AJY126LNLBH	45.0kW (16HP)  AJY144LNLBH UNIT : AJY144LNLBH
50.0kW (18HP)  AJY162LNLBH UNIT : AJY162LNLBH	56.0kW (20HP)  AJY180LNLBH UNIT : AJY090/090LNLBH	62.4kW (22HP)  AJY198LNLBH UNIT : AJY126/072LNLBH	68.0kW (24HP)  AJY216LNLBH UNIT : AJY126/090LNLBH	73.0kW (26HP)  AJY234LNLBH UNIT : AJY144/090LNLBH
78.0kW (28HP)  AJY252LNLBH UNIT : AJY162/090LNLBH	85.0kW (30HP)  AJY270LNLBH UNIT : AJY144/126LNLBH	90.0kW (32HP)  AJY288LNLBH UNIT : AJY144/144LNLBH	95.0kW (34HP)  AJY306LNLBH UNIT : AJY162/144LNLBH	100.0kW (36HP)  AJY324LNLBH UNIT : AJY162/162LNLBH
106.0kW (38HP)  AJY342LNLBH UNIT : AJY162/090/090LNLBH	113.0kW (40HP)  AJY360LNLBH UNIT : AJY144/126/090LNLBH	118.0kW (42HP)  AJY378LNLBH UNIT : AJY144/144/090LNLBH	123.0kW (44HP)  AJY396LNLBH UNIT : AJY162/144/090LNLBH	128.0kW (46HP)  AJY414LNLBH UNIT : AJY162/162/090LNLBH
135.0kW (48HP)  AJY432LNLBH UNIT : AJY144/144/144LNLBH	140.0kW (50HP)  AJY450LNLBH UNIT : AJY162/144/144LNLBH	145.0kW (52HP)  AJY468LNLBH UNIT : AJY162/162/144LNLBH	150.0kW (54HP)  AJY486LNLBH UNIT : AJY162/162/162LNLBH	

Energy efficiency Combinations

44.8kW (16HP)  AJY144LNLBHH UNIT : AJY072/072LNLBH	50.4kW (18HP)  AJY162LNLBHH UNIT : AJY090/072LNLBH	55.9kW (20HP)  AJY180LNLBHH UNIT : AJY108/072LNLBH	67.2kW (24HP)  AJY216LNLBHH UNIT : AJY072/072/072LNLBH	72.8kW (26HP)  AJY234LNLBHH UNIT : AJY090/072/072LNLBH
78.3kW (28HP)  AJY252LNLBHH UNIT : AJY108/072/072LNLBH	84.8kW (30HP)  AJY270LNLBHH UNIT : AJY126/072/072LNLBH	89.4kW (32HP)  AJY288LNLBHH UNIT : AJY108/108/072LNLBH	95.9kW (34HP)  AJY306LNLBHH UNIT : AJY126/108/072LNLBH	100.5kW (36HP)  AJY324LNLBHH UNIT : AJY108/108/108LNLBH
107.0kW (38HP)  AJY342LNLBHH UNIT : AJY126/108/108LNLBH	113.5kW (40HP)  AJY360LNLBHH UNIT : AJY126/126/108LNLBH	120.0kW (42HP)  AJY378LNLBHH UNIT : AJY126/126/126LNLBH	125.0kW (44HP)  AJY396LNLBHH UNIT : AJY144/126/126LNLBH	130.0kW (46HP)  AJY414LNLBHH UNIT : AJY144/144/126LNLBH

8,10HP : AJY072LNLBH / AJY090LNLBH
12,14,16,18HP : AJY108LNLBH / AJY126LNLBH / AJY144LNLBH / AJY162LNLBH

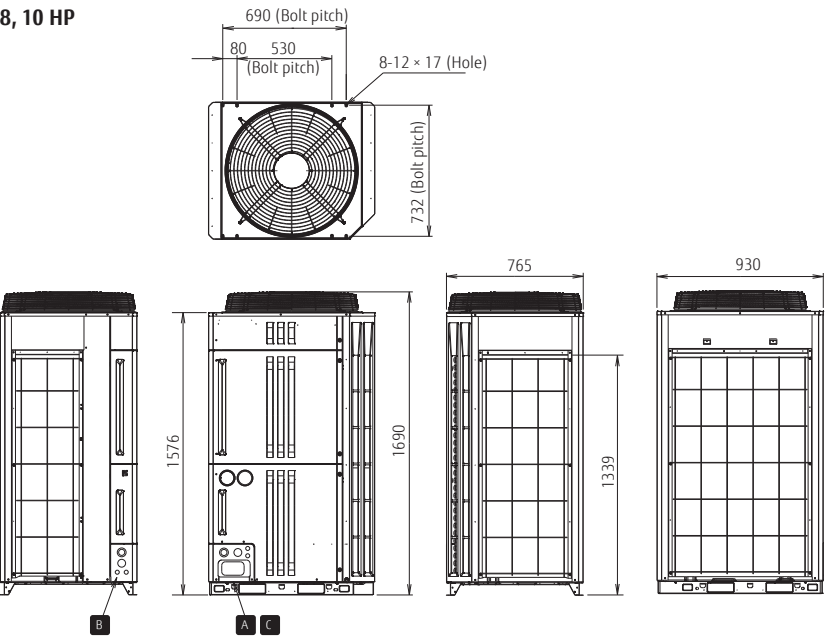


8, 10 HP 12, 14, 16, 18 HP

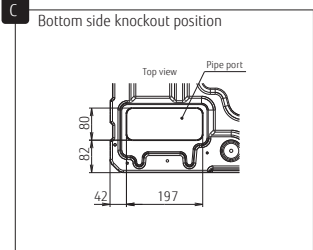
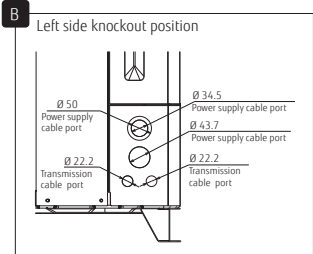
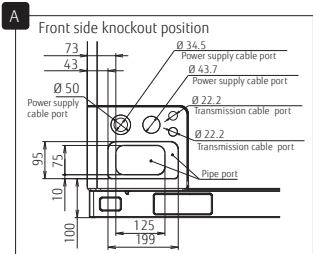
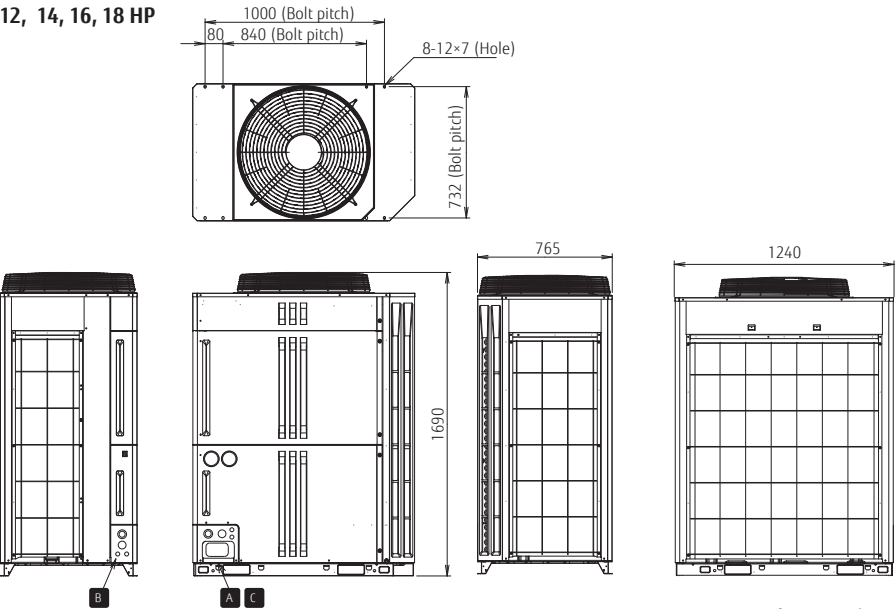
Dimensions

(Unit : mm)

8, 10 HP



12, 14, 16, 18 HP



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 Unit 2 Unit 3				AJY072LNLBH	AJY090LNLBH	AJY108LNLBH	AJY126LNLBH	AJY144LNLBH	AJY162LNLBH	AJY090LNLBH AJY090LNLBH	AJY126LNLBH AJY072LNLBH	AJY126LNLBH AJY090LNLBH	AJY144LNLBH AJY090LNLBH	AJY162LNLBH AJY090LNLBH	AJY144LNLBH AJY090LNLBH					AJY162LNLBH AJY162LNLBH	AJY144LNLBH AJY144LNLBH	AJY162LNLBH AJY144LNLBH	AJY162LNLBH AJY090LNLBH	AJY144LNLBH AJY090LNLBH	AJY162LNLBH AJY144LNLBH	AJY162LNLBH AJY144LNLBH	AJY144LNLBH AJY144LNLBH	AJY162LNLBH AJY162LNLBH	AJY162LNLBH AJY162LNLBH	AJY162LNLBH AJY162LNLBH		
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															3 phase 4 wire, 400 V, 50Hz													
T1 condition	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		
		Cooling	Btu/h	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	215000	238800	261000	278100	278100	278100	324100				341200	341200	341200	385600	431600	448700	448700	448700	511800	511800	511800			
		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	42.58	46.13	49.68			
	Input power	Nominal Heating	kW	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		
		Cooling		9.2	12.0	15.0	17.7	20.7	26.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Current	Heating	A	9.2	12.2	14.6	18.2	21.5	21.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
		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		
		Nominal Heating		5.20	4.69	4.72	4.46	4.06	3.67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	COP	Max. Heating	W/W	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		
		Heating		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		
		Cooling		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	13.0	13.7	13.5	13.0	13.0	13.0	12.5	12.5	12.5	12.5		
T3 condition	Capacity	Cooling	kW	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		
			Btu/h	68900	86000	97200	109200	119800	120100	172000	178100	195200	205800	206100	229000				239600	239900	240200	292100	315000	325900	325900	326200	359400	359700	360000	360300		
			kW	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		
	Input power	Cooling	A	10.8	14.5	14.7	16.9	18.6	19.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
			W/W	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		
			Btu/h/W	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	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Airflow rate				m³/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 × 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				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	66 / 87	65 / 86	66 / 87	66 / 87	67 / 88	67 / 88	67 / 88	68 / 89	68 / 89	
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 × 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	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	1690	1690	1690	1690	
		Width		930	930	1240	1240	1240	1240	930 × 2	1240 + 930	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	765	765
Weight			kg	255	255	279	279	279	279	255 × 2	279 + 255	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	
				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)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
				Charge	11.7 (24.4)	11.7 (24.4)	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 × 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 + 11.7 (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 × 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	34.92	34.92	34.92	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	41.2				

VRF INDOOR UNITS

20 types and 97 models available to meet the requirements of any building design.

The AIRSTAGE™ indoor units were developed to be highly efficient, compact, low noise and to have user friendly operation. With a variety of indoor units and capacities available, Fujitsu General has an indoor unit to match any requirement which is easy to install and maintain. Further, a variety of options are available to achieve an air conditioning environment that is more desirable from the user's perspective.

- Vn-060 INDOOR UNITS LINE-UP
- Vn-062 1-Way Flow Cassette
- Vn-064 3D Flow Cassette
- Vn-066 Compact Cassette (Grid type / Standard type)
- Vn-068 Cassette Slim type (Circular Flow / 4-way Flow)
- Vn-072 Cassette Large type (Circular Flow / 4-way Flow)
- Vn-076 Low Static Pressure Duct / Mini Duct
- Vn-078 Low Static Pressure Duct / Slim Duct / Slim Concealed Floor
- Vn-082 Medium Static Pressure Duct
- Vn-088 High Static Pressure Duct
- Vn-092 Compact Floor
- Vn-094 Floor / Ceiling
- Vn-096 Ceiling
- Vn-098 Wall Mounted (EEV Internal / external)



VRF Indoor Unit Lineup

Capacity range (kW)				1.1	2.2	2.8	3.6		4.0	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	14	18	24	30	34	36	45	54	60	72	90	96
Cassette	Compact type	Compact 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									
	Slim type	Circular Flow				AUXN 009 GLAH**4*6	AUXN 012 GLAH**4*6			AUXN 014 GLAH**4*6	AUXM 018 GLEH	AUXM 024 GLEH	AUXM 030 GLEH								
		4-way Flow									AUXD 18 GALH	AUXD 24 GALH									
	Large type	Circular Flow									AUXK 018 GLEH	AUXK 024 GLEH	AUXK 030 GLEH	AUXK 034 GLEH	AUXK 036 GLEH	AUXK 045 GLEH	AUXK 054 GLEH				
		4-way Flow									AUXA 18 GALH*2	AUXA 24 GALH*2	AUXA 30 GALH	AUXA 34 GALH	AUXA 36 GALH	AUXA 45 GALH	AUXA 54 GALH				
	One-way Flow type	One-way Flow	 004 - 012 014 - 024	AUXV 004 GLEH	AUXV 007 GLEH	AUXV 009 GLEH	AUXV 012 GLEH			AUXV 014 GLEH	AUXV 018 GLEH	AUXV 024 GLEH									
	3D Flow type	3D Flow									AUXS 018 GLEH	AUXS 024 GLEH									
Duct	Low Static Pressure Duct	Mini Duct (With drain pump)	 004 - 014 018 024	ARXK 004 GLGH	ARXK 007 GLGH	ARXK 009 GLGH	ARXK 012 GLGH			ARXK 014 GLGH	ARXK 018 GLGH	ARXK 024 GLGH									
		Slim Duct (With drain pump)	 04 / 007 - 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									
		Slim Duct High Efficiency*6	 009 - 014 018			ARXP 009 GLAH*5	ARXP 012 GLAH*5			ARXP 014 GLAH*5	ARXP 018 GLAH*7										
	Medium Static Pressure Duct	Normal										ARXA 024 GLEH	ARXA 030 GLEH		ARXA 036 GLEH	ARXA 045 GLEH					
		High Efficiency*6									ARXQ 018 GTAH*2	ARXQ 024 GTAH*2									
		High Efficiency*6										ARXP 024 GTAH*7	ARXP 030 GTAH*7								
	High Static Pressure Duct	Normal	 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
		High Efficiency*6											ARXQ 030 GTAH*2								
Floor	Floor (*Same as Ceiling models)						ABYA 012 GTEH			ABYA 014 GTEH	ABYA 018 GTEH	ABYA 024 GTEH									
	Slim Concealed Floor (*Same as Slim Duct models)	 04 / 007 - 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 GCGH	AGYA 007 GCGH	AGYA 009 GCGH	AGYA 012 GCGH		AGYA 014 GCGH												
	Compact Floor (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 - 024 030 - 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 - 014 18 - 24 030 - 034		ASYA 004 GCGH	ASYA 007 GCGH	ASYA 009 GCGH	ASYA 012 GCGH		ASYA 014 GCGH		ASYA 18 GBCH	ASYA 24 GBCH	ASYA 030 GTEH	ASYA 034 GTEH							
	Wall Mounted (EEV external)	 004 - 014		ASYE 004 GCEH	ASYE 007 GCEH	ASYE 009 GCEH	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-IVS / J-IV Series.

*2: AUXA18/24GALH, ARXQ018/024/030GTAH type can be connected to VR-IV / V-III Series only.

*3: ARXD04GALH cannot be connected to J-IVS / J-IV / J-IVL / VR-IV Series.

*4: AUXN009/012/014GLAH can be connected to J-IVS / J-IV Series only.

*5: ARXP009/012/014GLAH can be connected to J-IVS / J-IV / J-IVL Series only.

*6: Production by order

*7: ARXP018GLAH, ARXP024/030GTAH can be connected to J-IVL Series only.

Specifications and design are subject to change without notice.

Cassette

One-way Flow type



Compact chassis size

Their compact sizes make it easy to install them in a variety of commercial locations and environments.

- The chassis is less than 200 mm high in every model.
- All 4 to 12kBtu models are less than 1,000 mm wide.
- The chassis depth is 570 mm, which fits nicely into a grid ceiling.

Dimensions (Panel size)							(Unit : mm)
	4	7	9	12	14	18	24
H		198 (43)				198 (43)	
W		785 (950)				1,190 (1,360)	
D		570 (620)				570 (620)	



Wide airflow range

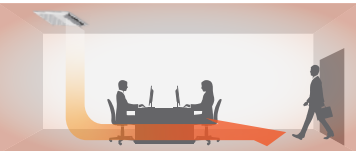
The large flap with triangularly arrayed louvers has a wider movable range and directs an airflow to the furthest corners of the room.



In cooling mode, the horizontal airflow reaches the furthest corners of the room and avoids hitting human bodies directly in order to provide comfortable air conditioning.



In heating mode, the warm air is directed downward toward the floor to warm the occupants' feet and lower bodies while keeping their heads relatively cool.



Note: This is a conceptual drawing. Air conditioning performance may vary depending on installation, room size, and the distance from the wall.

Low noise operation

They produce little noise during operation, which makes them an ideal choice for use in hotel rooms.



Model : AUXV004GLEH / AUXV007GLEH / AUXV009GLEH
AUXV012GLEH / AUXV014GLEH / AUXV018GLEH
AUXV024GLEH



AUXV004/007/009/012GLEH



AUXV014/018/024GLEH

Specifications

Model name			AUXV004GLEH	AUXV007GLEH	AUXV009GLEH	AUXV012GLEH	AUXV014GLEH	AUXV018GLEH	AUXV024GLEH
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	30/30	42/42	42/42	60/60	38/38	56/56	99/99
Airflow rate*	High	m³/h	460	550	550	670	720	890	1,150
	Med-High		440	440	440	520	660	840	1,020
	Med		420	420	420	480	630	770	940
	Med-Low		400	400	400	450	600	710	790
	Low		380	380	380	410	580	660	700
	Quiet		360	360	360	360	550	580	610
Sound pressure level*	High	dB(A)	38	42	42	45	37	44	49
	Med-High		37	37	37	41	36	43	47
	Med		36	36	36	39	35	40	45
	Med-Low		35	35	35	38	34	38	42
	Low		33	33	33	36	33	36	39
	Quiet		32	32	32	32	32	34	36
Net Dimensions (H × W × D)		mm	198 × 785 × 570	198 × 785 × 570	198 × 785 × 570	198 × 785 × 570	198 × 1,190 × 570	198 × 1,190 × 570	198 × 1,190 × 570
Weight		kg(lbs)	18 (40)	19 (42)	19 (42)	19 (42)	26 (57)	26 (57)	27 (60)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32						
Cassette Grille	Model name		UTG-UNYA-W				UTG-UNYB-W		
	Net Dimensions (H×W×D)		mm				43 × 950 × 620		
	Weight		kg(lbs)				6.5 (14.5)		

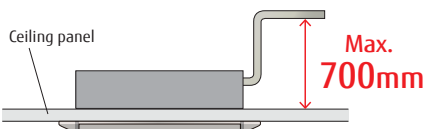
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Optional parts

Wireless LAN Interface: UTY-TFSXZ1
IR Receiver Unit: UTY-TRHX
Cassette Grille: UTG-UNYA-W / UTG-UNYB-W
External Power Supply Unit: UTZ-GXXA

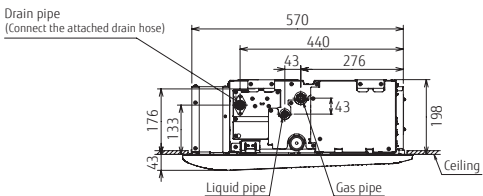
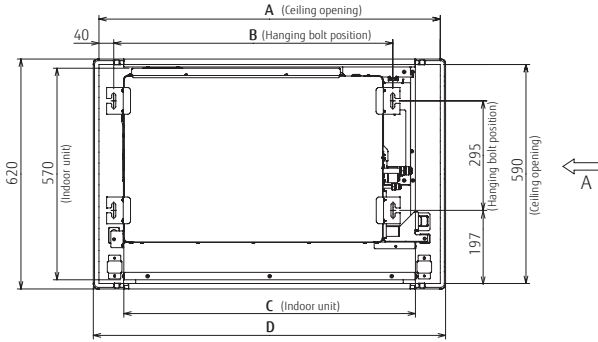
Flexible Installation

By using new L-type piping kit, more flexible installation is possible.
Built-in drain pump as standard accessory, which enable to have maximum 700m piping height difference from the ceiling.



Dimensions

(Unit : mm)



VIEW A

	AUXV004-012	AUXV014-024
A	920	1,330
B	752	1,152
C	785	1,190
D	950	1,360

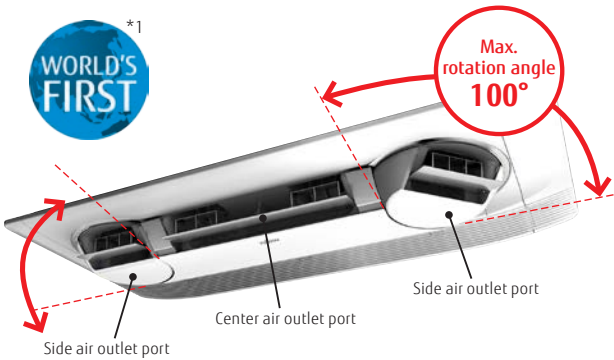
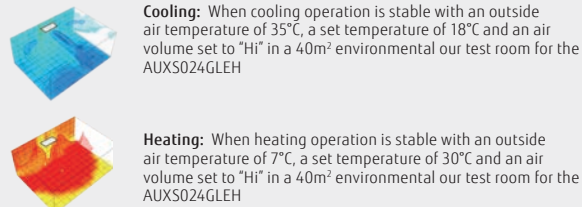
3D Flow Cassette



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.

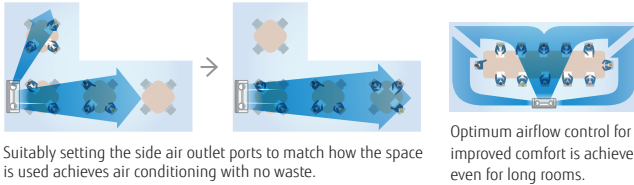
Temperature distribution during cooling and heating (when set to comfortable airflow)



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

Individual airflow setting

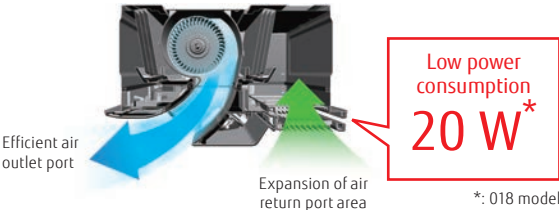
Equipped with an “Individual airflow setting” function that optimizes the airflow setting in accordance with the installation location.



*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.



Model : AUXS018GLEH / AUXS024GLEH



Specifications

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	m³/h	750/870		950/1,040	
	Med-High		710/830		890/990	
	Med		690/780		860/930	
	Med-Low		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-High		36/40		42/45	
	Med		35/39		41/43	
	Med-Low		35/37		40/42	
	Low		33/36		38/40	
	Quiet		29/29		29/29	
Net Dimensions (H × W × D)		mm	200 × 1,240 × 500		200 × 1,240 × 500	
Weight		kg(lbs)	25 (55)		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)		85 × 1,350 × 580			
	Weight		11.5 (25)			

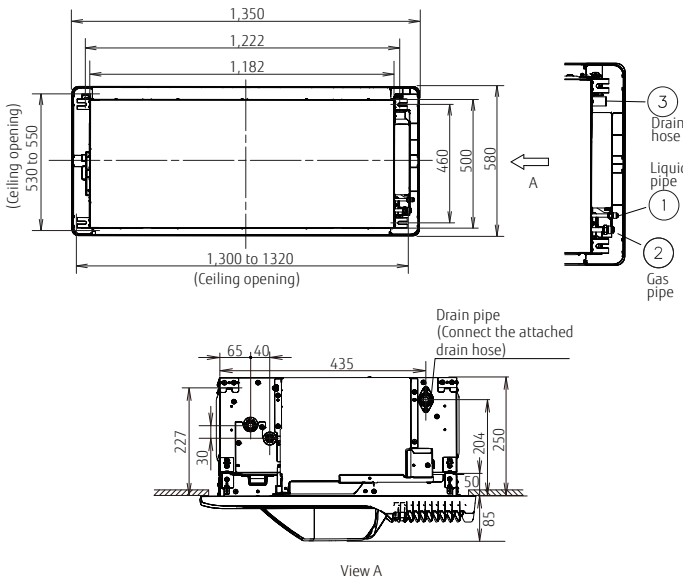
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*: This value is “cooling operation / heating operation”.

Optional parts

- Wireless LAN Interface: UTY-TFSXZ1
- IR Receiver Unit: UTY-TRHX
- Cassette Grille: UTG-USYA-W
- External Power Supply Unit: UTZ-GXXA

Dimensions

(Unit : mm)

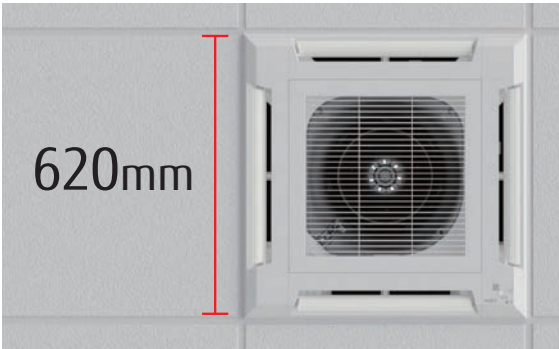


Compact
Cassette
Grid type



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 620mm × 620mm 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.



High ceiling mode

The compact cassette can be installed up to a height of 3.0m (012/014/018/024).

Model code	The maximum height from floor to ceiling (m)	
	Standard mode	High ceiling mode
004	2.7	-
007	2.7	-
009	2.7	-
012	2.7	3.0
014	2.7	3.0
018	2.7	3.0
024	2.7	3.0

Model : AUXB004GLEH / AUXB007GLEH / AUXB009GLEH
AUXB012GLEH / AUXB014GLEH / AUXB018GLEH
AUXB024GLEH



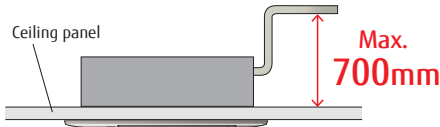
Specifications

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	kW	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	m³/h	530/530	540	550	600	680	710	1,030
	Med-High		490/480	500	520	560	620	660	910
	Med		450/430	460	480	520	560	590	790
	Med-Low		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-High		32/31	32	33	34	37	39	46
	Med		30/29	30	31	33	34	36	43
	Med-Low		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	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570
Weight		kg(lbs)	14.5 (32)	15 (33)	15 (33)	15 (33)	15 (33)	17 (37)	17 (37)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	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	50 × 620 × 620 / 50 × 700 × 700						
	Weight	kg(lbs)	2.3(5.1) / 2.6(6)						

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.

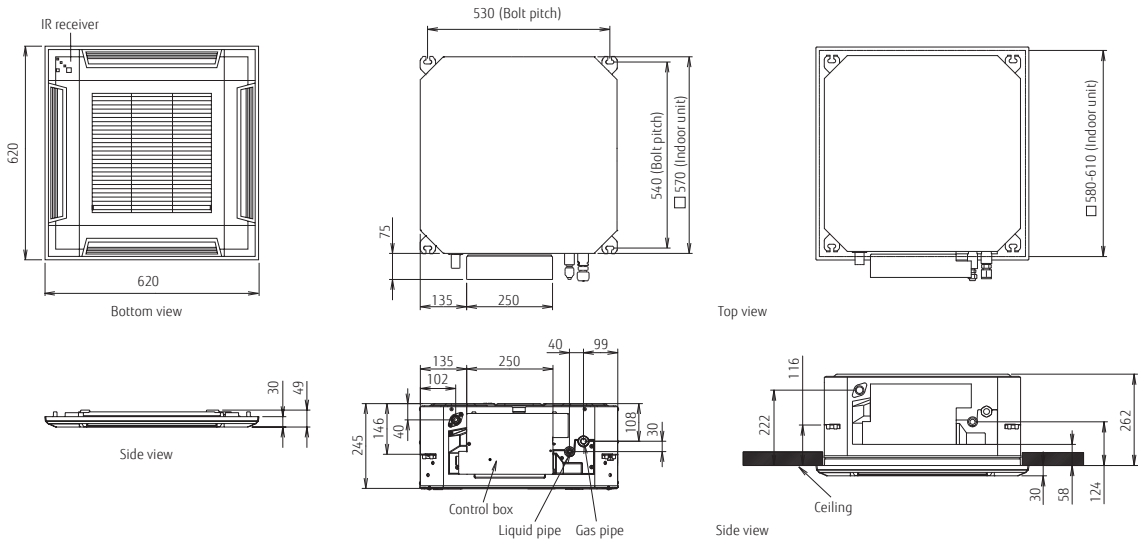
Optional parts

Air Outlet Shutter Plate:	UTR-YDZB	Cassette Grille:	UTG-UFYC-W, UTG-UFYE-W
Fresh Air Intake Kit:	UTZ-VXAA	External Power Supply Unit:	UTZ-GXXA
Insulation Kit for High Humidity:	UTZ-KXGC	Wireless LAN Interface:	UTY-TFSXZ1



Dimensions

(Unit : mm)



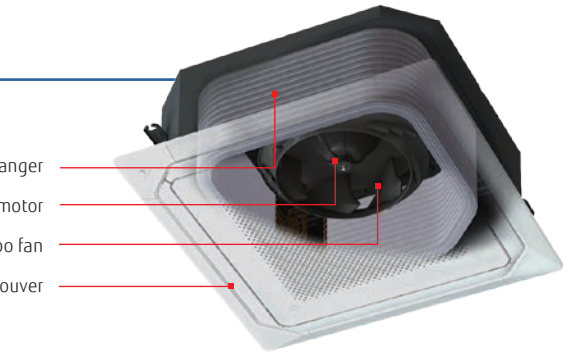
Cassette Slim type
Circular Flow



Unique Circular Flow design

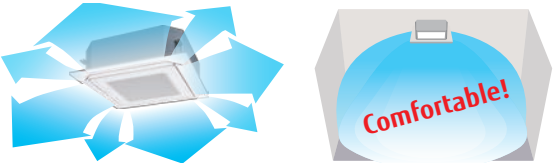
New Cassette type achieves a Circular airflow discharge in 360° direction by means of a high performance DC fan motor, new turbo fan and unique seamless airflow louver design.

- Ø7mm high density heat exchanger
- New DC fan motor
- High efficient turbo fan
- Seamless airflow louver



Uniform temperature air conditioning

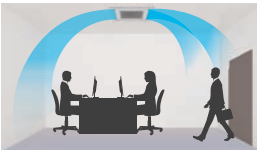
Achieve a comfortable air conditioning spread to every corner of the room by circular flow & wide vertical airflow.



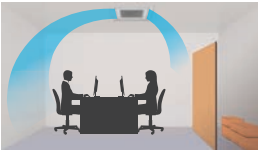
Individual louver control

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.

*Touch Panel Wired RC (UTY-RNRYZ3) only



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.

Model : AUXN009GLAH* / AUXN012GLAH* / AUXN014GLAH* * AUXN**GLAH: Production by order
AUXM018GLEH / AUXM024GLEH / AUXM030GLEH



Specifications

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	m³/h	1,050	1,050	1,050	1,050	1,120	1,470
	Med-High		930	930	930	930	1,050	1,160
	Med		900	900	900	900	930	1,070
	Med-Low		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-High		32	32	32	32	33	36
	Med		31	31	31	31	32	34
	Med-Low		30	30	30	30	31	32
	Low		29	29	29	29	30	31
	Quiet		28	28	28	28	28	28
Dimensions (H × W × D)		mm	246 × 840 × 840					
Weight		kg(lbs)	24.5 (54)	24.5 (54)	24.5 (54)	24.0 (53)	24.5 (54)	24.5 (54)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	9.52	9.52
	Gas (Flare)		12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32					
Cassette Grille	Model name		UTG-UKYC-W / UTG-UKYA-B					
	Dimensions (H×W×D)	mm	53 × 950 × 950					
	Weight	kg(lbs)	6.0 (13)					

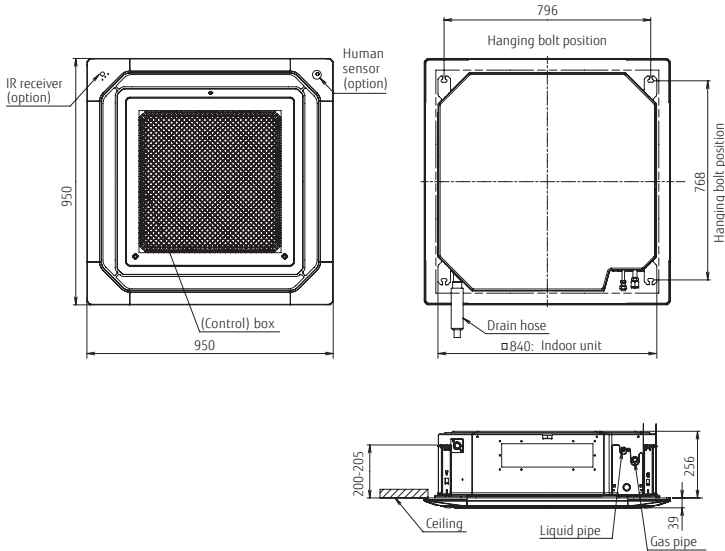
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When AUX*018GLEH is connected to the outdoor unit other than J-IVL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas)
When AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø19.05.
*: AUXN009/012/014GLAH can be connected to J-IVS / J-IV Series only.

Optional parts

Human Sensor Kit: UTY-SHZXC	Fresh Air Intake Kit: UTZ-VXRA	Cassette Grille: UTG-UKYC-W, UTG-UKYA-B	Wireless LAN Interface: UTY-TFSXZ1
Wide Panel: UTG-AKXA-W	Air Outlet Shutter Plate: UTR-YDZK	External Power Supply Unit: UTZ-GXXA	
Panel Spacer: UTG-BKXA-W	Insulation Kit for High Humidity: UTZ-KXRA	IR Receiver Unit: UTY-LBH XD	

Dimensions

(Unit : mm)

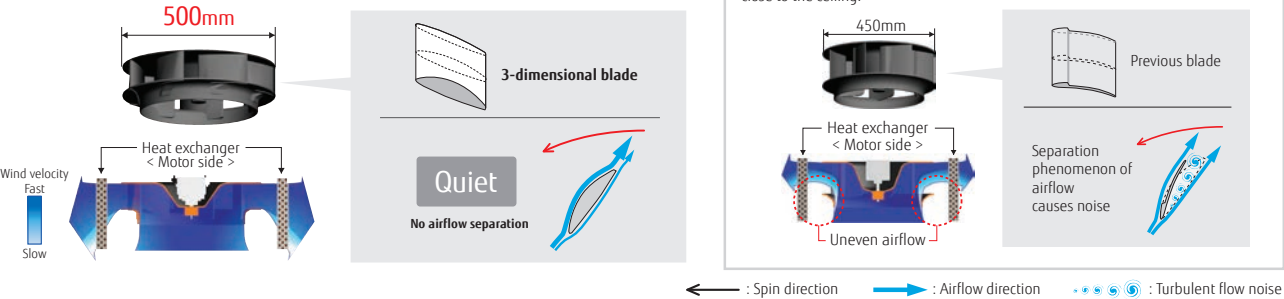


Cassette
Slim type
4-way Flow



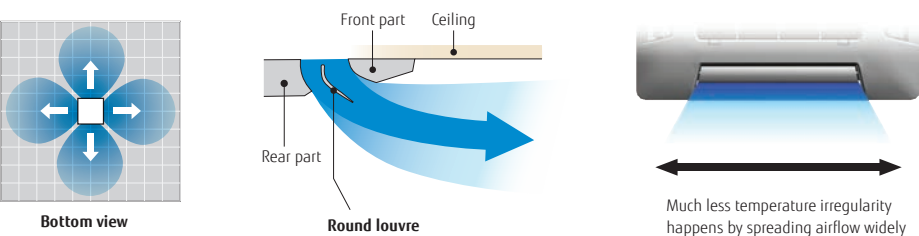
High efficiency turbo fan with 3-dimensional blade

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

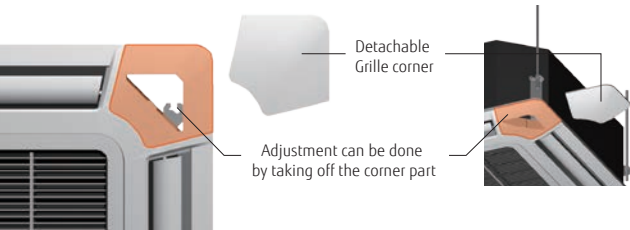


Improvement of the airflow distribution

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



Adjustment of hanger position is possible after installation



Model : AUXD18GALH / AUXD24GALH



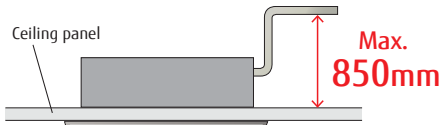
Specifications

Model name			AUXD18GALH	AUXD24GALH
Power source			Single phase, ~230V, 50Hz	
Capacity	Cooling	kW	5.6	7.1
	Heating		6.3	8.0
Input power		W	39	46
Airflow rate	High	m³/h	1,150 (319)	1,280 (356)
	Med		940 (261)	1,040 (289)
	Low		870 (242)	870 (242)
Sound pressure level	High	dB(A)	36	38
	Med		30	33
	Low		29	29
Net Dimensions (H × W × D)		mm	246 × 840 × 840	246 × 840 × 840
Weight		kg(lbs)	22 (49)	22 (49)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52
	Gas (Flare)		15.88	15.88
Drain hose diameter (I.D./O.D.)			25/32	
Cassette Grille	Model name		UTG-UGYA-W	
	Net Dimensions (H×W×D)	mm	50 × 950 × 950	
	Weight	kg(lbs)	5.5 (12)	

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].

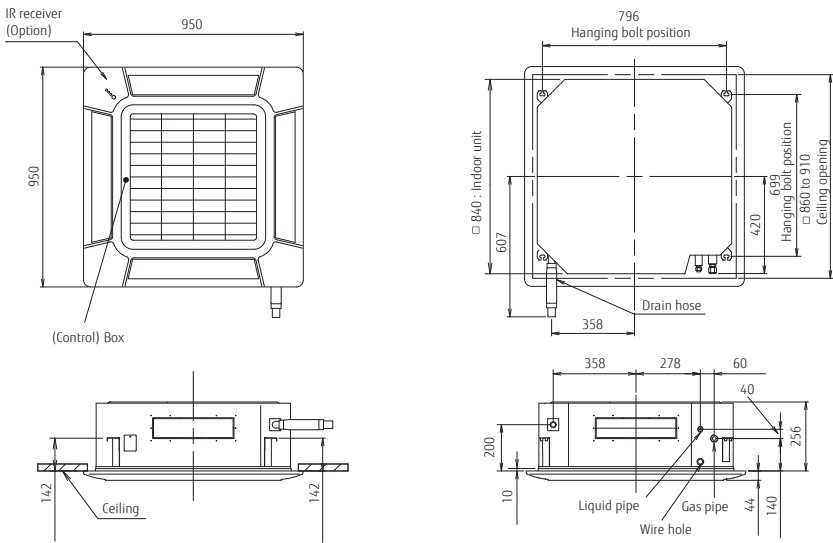
Optional parts

- IR receiver unit: UTY-LRHYB1
- Air outlet shutter plate: UTR-YDZC
- Panel spacer: UTG-BGYA-W
- Insulation kit for high humidity: UTZ-KXGB
- Wide panel: UTG-AGYA-W
- Fresh air intake kit: UTZ-VXGA
- Cassette Grille: UTG-UGYA-W
- Wireless LAN Interface: UTY-TFSXZ1



Dimensions

(Unit : mm)

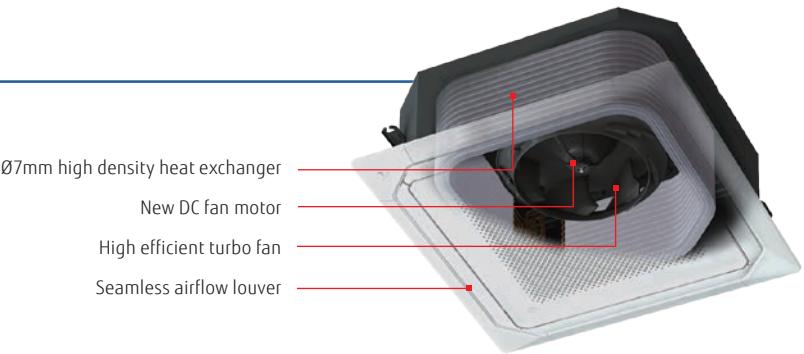


Cassette
Large type
Circular Flow



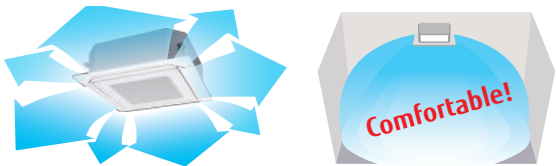
Unique Circular Flow design

New Cassette type achieves a Circular airflow discharge in 360° direction by means of a high performance DC fan motor, new turbo fan and unique seamless airflow louver design.



Uniform temperature air conditioning

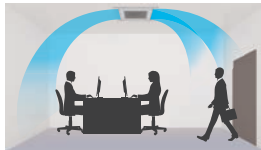
Achieve a comfortable air conditioning spread to every corner of the room by circular flow & wide vertical airflow.



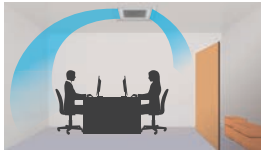
Individual louver control

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.

*Touch Panel Wired RC (UTY-RNRYZ3) only



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.

Model : AUXK018GLEH / AUXK024GLEH / AUXK030GLEH
AUXK034GLEH / AUXK036GLEH / AUXK045GLEH
AUXK054GLEH



Specifications

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	m³/h	1,420	1,420	1,440	1,440	1,620	1,820	2,040
	Med-High		1,360	1,360	1,400	1,400	1,500	1,590	1,800
	Med		1,300	1,300	1,340	1,340	1,400	1,500	1,590
	Med-Low		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-High		37	37	38	38	40	42	45
	Med		36	36	37	37	38	40	42
	Med-Low		35	35	36	36	37	38	39
	Low		34	34	35	35	36	36	36
	Quiet		33	33	33	33	33	33	33
Dimensions (H × W × D)		mm	288 × 840 × 840						
Weight		kg(lbs)	26.5 (58)	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	9.52	9.52	9.52	9.52	9.52
	Gas (Flare)		12.70	15.88	15.88	15.88	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32						
Cassette Grille	Model name		UTG-UKYC-W / UTG-UKYA-B						
	Dimensions (H×W×D)	mm	53 × 950 × 950						
	Weight	kg(lbs)	6.0 (13)						

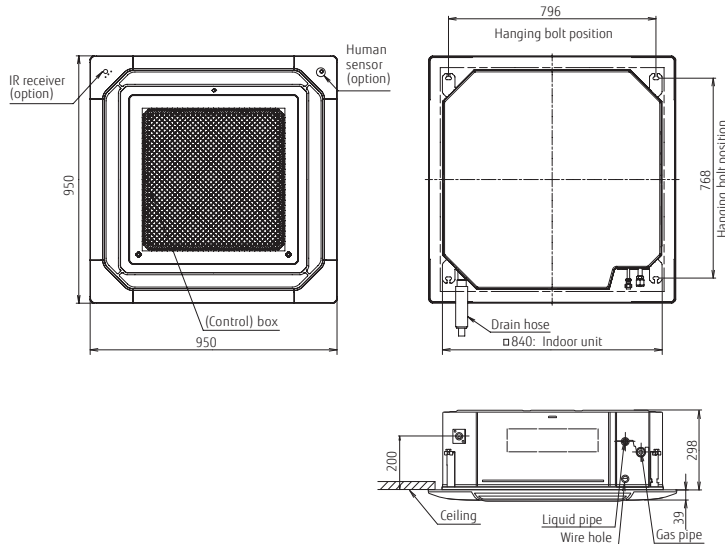
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When AUX*018GLEH is connected to the outdoor unit other than J-IVL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas)
When AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø19.05.

Optional parts

Human Sensor Kit:	UTY-SHZXC	Fresh Air Intake Kit:	UTZ-VXRA	Cassette Grille:	UTG-UKYC-W, UTG-UKYA-B	Wireless LAN Interface:	UTY-TFSXZ1
Wide Panel:	UTG-AKXA-W	Air Outlet Shutter Plate:	UTR-YDZK	External Power Supply Unit:	UTZ-GXXA		
Panel Spacer:	UTG-BKXA-W	Insulation Kit for High Humidity:	UTZ-KXRA	IR Receiver Unit:	UTY-LBHXD		

Dimensions

(Unit : mm)

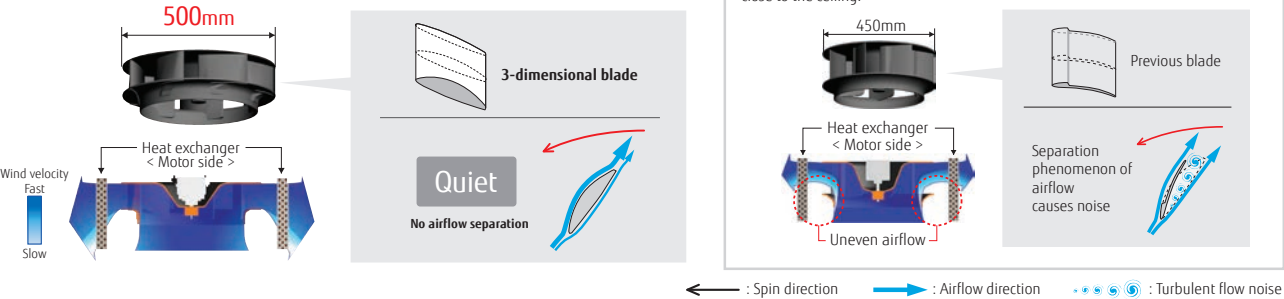


Cassette
Large type
4-way Flow



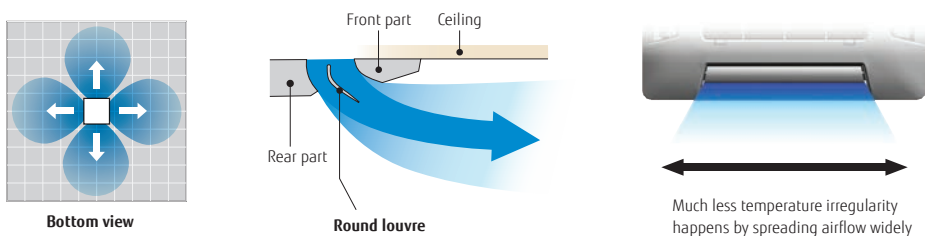
High efficiency turbo fan with 3-dimensional blade

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

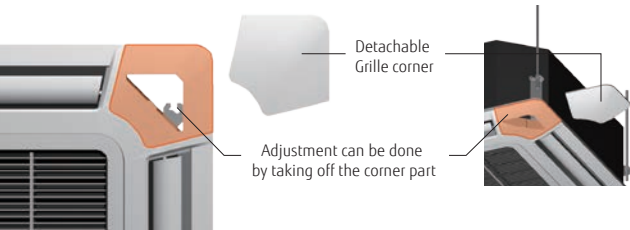


Improvement of the airflow distribution

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



Adjustment of hanger position is possible after installation



High ceiling mode

This cassette can be installed up to a height of 4.2m (36/45/54).

Model code	The maximum height from floor to ceiling (m)	
	Standard mode	High ceiling mode
18	3.2	3.5
24	3.2	3.5
30	3.2	3.6
34	3.2	3.6
36	3.2	4.2
45	3.2	4.2
54	3.2	4.2

Model : AUXA18GALH / AUXA24GALH / AUXA30GALH
AUXA34GALH / AUXA36GALH / AUXA45GALH
AUXA54GALH



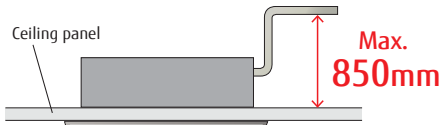
Specifications

Model name		AUXA18GALH*	AUXA24GALH*	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH
Power source		Single phase, ~230V, 50Hz						
Capacity	Cooling	kW						
	Heating	kW						
Input power		W						
		W						
Airflow rate	High	m³/h						
	Med	m³/h						
	Low	m³/h						
Sound pressure level	High	dB(A)						
	Med	dB(A)						
	Low	dB(A)						
Net Dimensions (H × W × D)		mm						
Weight		kg(lbs)						
Connection pipe diameter	Liquid (Flare)	mm						
	Gas (Flare)	mm						
Drain hose diameter (I.D./O.D.)		mm						
Cassette Grille	Model name	UTG-UGYA-W						
	Net Dimensions (H×W×D)	mm						
	Weight	kg(lbs)						

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.
*:AUXA18/24GALH can be connected to VR-IV / V-III Series only.

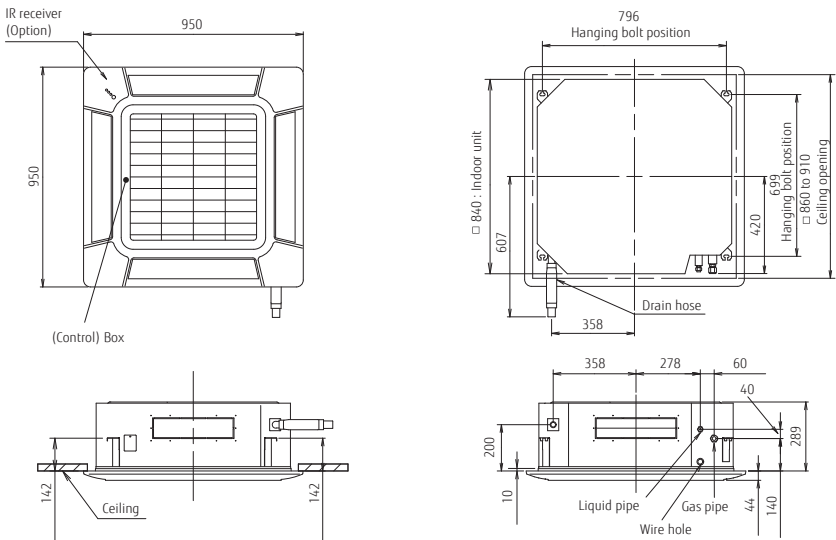
Optional parts

- IR receiver unit: UTY-LRHYB1
- Air outlet shutter plate: UTR-YDZC
- Panel spacer: UTG-BGYA-W
- Insulation kit for high humidity: UTZ-KXGA
- Wide panel: UTG-AGYA-W
- Fresh air intake kit: UTZ-VXGA
- Wireless LAN Interface: UTY-TFSXZ1
- Cassette Grille: UTG-UGYA-W



Dimensions

(Unit : mm)

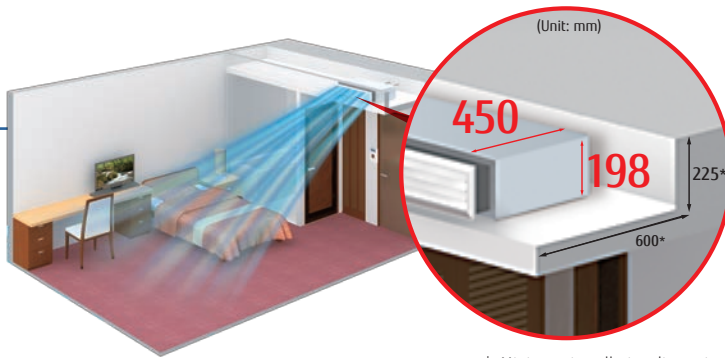


Low Static Pressure Duct Mini Duct (With drain pump)



Large living space available

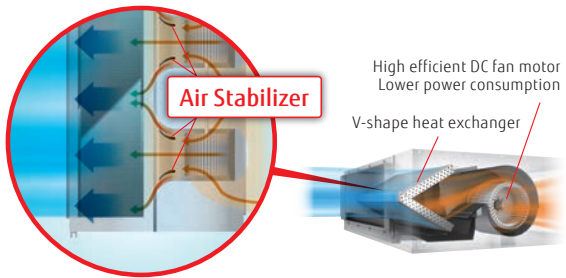
- Installation space can be reduced down to minimum depth 450mm height 198 mm and compact design
- Minimum size: Depth 450mm, Height 198mm
- Volume 30% down compared with current model
- Lightweight: 16kg 10%down



*: Minimum installation dimension

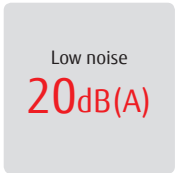
Optimum airflow path and low noise operation

Low noise is realized drastically by stabilized airflow design

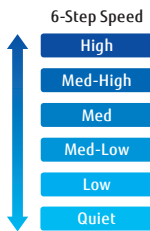


6-speed control*

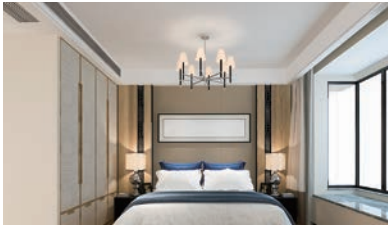
Multistep airflow speed control allows this model to install in a quiet location.



at 04 model

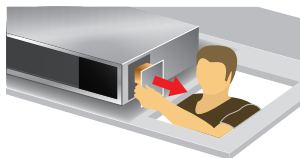


* Compatible Remote Controller is as follows:
UTY-RNRYZ3/UTY-RLRY/UTY-RSRY/UTY-RHRY/UTY-DCGYZ1/UTY-ALGXZ1/UTY-APGXZ1



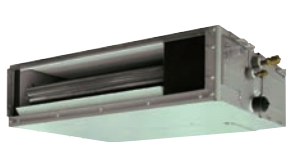
Easy design and maintenance for drain

Maintenance is easy by easy design indoor unit. Parts can be replaced from the side of the unit where maintenance is easier.



Built-in drain pump as standard :
Maintenance is easy

Model : ARXK004GLGH / ARXK007GLGH / ARXK009GLGH
ARXK012GLGH / ARXK014GLGH / ARXK018GLGH
ARXK024GLGH



ARXK004/007/009/012/014GLGH



ARXK018GLGH



ARXK024GLGH

Specifications

Model name			ARXK004GLGH	ARXK007GLGH	ARXK009GLGH	ARXK012GLGH	ARXK014GLGH	ARXK018GLGH	ARXK024GLGH
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	m³/h	460	460	460	550	760	930	1,160
	Med-High		440	440	440	520	660	840	1,060
	Med		420	420	420	480	560	740	960
	Med-Low		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 30	0 to 30	0 to 30	0 to 50	0 to 50	0 to 50
Standard static pressure		Pa	10	10	10	10	15	15	15
Sound pressure level	High	dB(A)	25	26	26	29	34	33	32
	Med-High		24	25	25	27	31	30	30
	Med		23	24	24	26	28	28	28
	Med-Low		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 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 900 × 450	198 × 1,100 × 450
Weight		kg(lbs)	14.5 (32)	15.5 (34)	15.5 (34)	16 (35)	16 (35)	19 (42)	22.5 (50)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32						

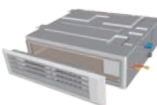
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Optional parts

Remote Sensor Unit : UTY-XSZX Auto Louver Grille Kit: UTD-GXTA-W (004/007/009/012/014)
IR Receiver Unit : UTB-YWC UTD-GXTB-W (018)
External Power Supply Unit: UTZ-GXXA UTD-GXTC-W (024)

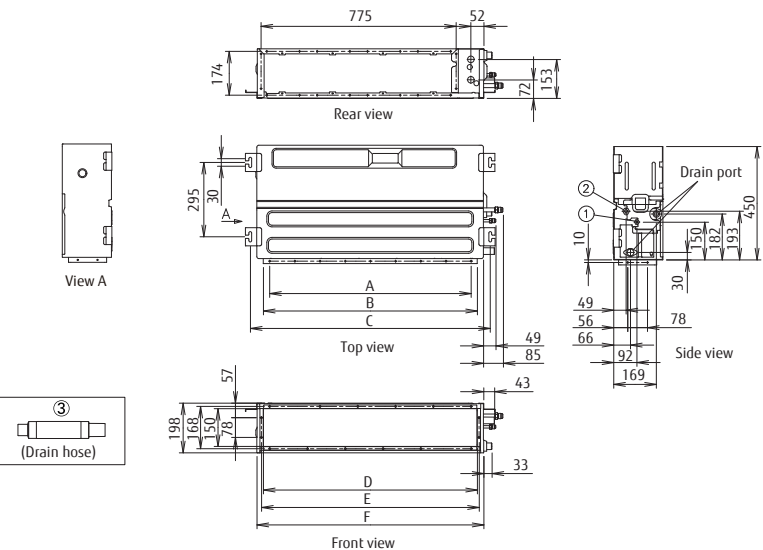
Auto Louver Grille Kit (Option)

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)



Dimensions

(Unit : mm)



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

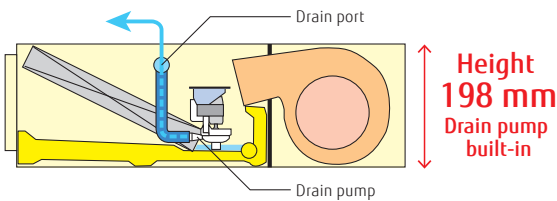
	ARXK004-014	ARXK018	ARXK024
A	P100×6=600	P100×8=800	P100×10=1000
B	650	850	1050
C	752	952	1152
D	650	850	1050
E	665	864	1064
F	700	900	1100

Low Static Pressure Duct
Slim Duct /
Slim Concealed Floor



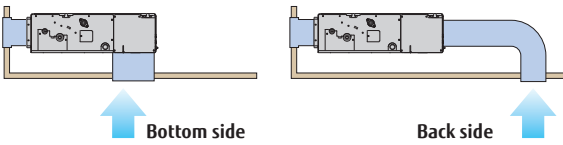
Slim design

With a slim design, this indoor unit can be installed in narrow ceiling spaces.



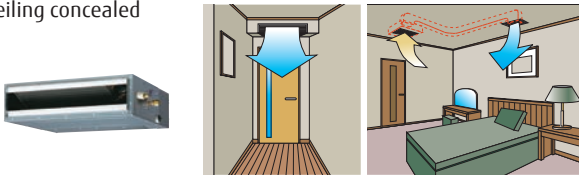
Air-intake

Air intake direction can be selected to match the installation site.

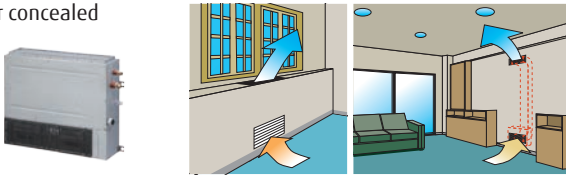


Flexible installation

Ceiling concealed



Floor concealed



Selectable with a wide range of static pressure

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

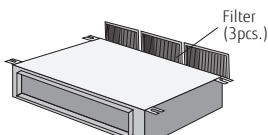
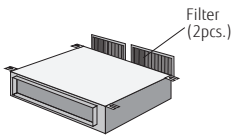


Static pressure range
0 to 90Pa

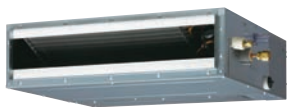
*024 model is 0 to 50Pa

Filter (Accessory)

ARXD04/007/009/012/014/018 ARXD024



Model : ARXD04GALH / ARXD007GLEH / ARXD009GLEH
ARXD012GLEH / ARXD014GLEH / ARXD018GLEH
ARXD024GLEH



ARXD04GALH
ARXD007/009/012/014GLEH



ARXD018GLEH



ARXD024GLEH

Slim
Concealed
Floor



Specifications

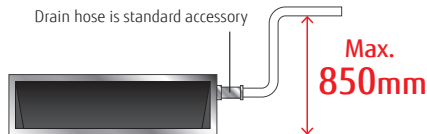
Model name			ARXD04GALH*	ARXD007GLEH	ARXD009GLEH	ARXD012GLEH	ARXD014GLEH	ARXD018GLEH	ARXD024GLEH
Power source			Single phase, ~230V, 50Hz						
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		1.3	2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	40	44	50	54	92	83	122
Airflow rate	High	m³/h	510	550	600	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 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 900 × 620	198 × 1,100 × 620	
Weight		kg(lbs)	17 (37)	17 (37)	17 (37)	18 (40)	18 (40)	22 (48)	26 (57)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)		12.70	9.52	9.52	12.70	12.70	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.
*:ARXD04GALH cannot be connected to J-IVS / J-IV / J-IVL / VR-IV Series.

Optional parts

Remote Sensor Unit : UTY-XSZX
IR Receiver Unit : UTB-YWC (004)
UTY-TRHX (007/009/012/014/018/024)
External Power Supply Unit : UTZ-GXXA

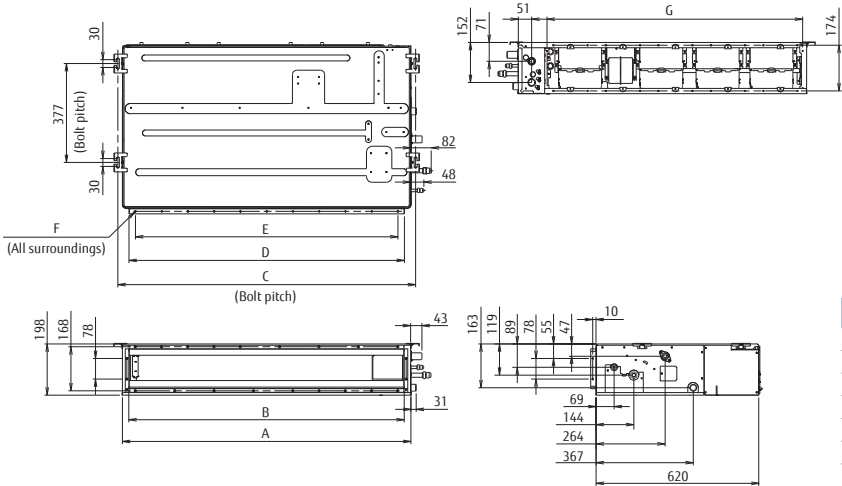
Auto Louver Grille Kit: UTD-GXTA-W (04/007/009/012/014)
UTD-GXTB-W (018)
UTD-GXTC-W (024)



Dimensions

(Unit : mm)

*Service accessibility must be allowed for when installing the product.
Please consult the installation manual for the necessary service access size.



	ARXD04-014	ARXD018	ARXD024
A	700	900	1100
B	650	850	1050
C	734	934	1134
D	650	850	1050
E	P100×6=600	P100×8=800	P100×10=1000
F	18×Ø5	22×Ø5	26×Ø5
G	574	774	974

Low Static Pressure Duct
Slim Duct
High Efficiency

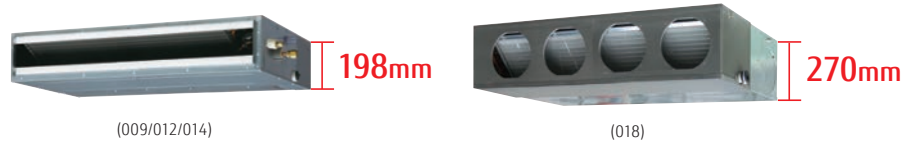


Large airflow volume

It can be installed in places such as early replacement of air required by large airflow volume.

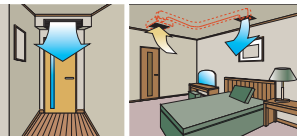


Slim & Compact design



Flexible installation

Ceiling concealed

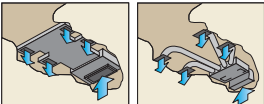


Floor concealed

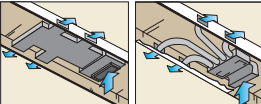


Installation styles

Embedded in Ceiling



Hanging from Ceiling



Model : ARXP009GLAH / ARXP012GLAH / ARXP014GLAH / ARXP018GLAH * Production by order



Specifications

Model name			ARXP009GLAH	ARXP012GLAH	ARXP014GLAH	ARXP018GLAH
Power source			Single phase, ~230V, 50Hz			
Capacity	Cooling	kW	2.8	3.6	4.5	5.6
	Heating		3.2	4.0	5.0	6.3
Input power		W	88	122	122	173
Airflow rate	High	m³/h	1,100	1,330	1,330	1,720
	Med-High		-	-	-	-
	Med		1,010	1,240	1,240	1,470
	Med-Low		-	-	-	-
	Low		880	1,100	1,100	1,360
	Quiet		-	-	-	-
Static pressure range		Pa	0 to 50	0 to 50	0 to 50	0 to 80
Standard static pressure			25	25	25	50
Sound pressure level	High	dB(A)	32	35	35	36
	Med-High		-	-	-	-
	Med		30	32	32	33
	Med-Low		-	-	-	-
	Low		28	29	29	30
	Quiet		-	-	-	-
Net Dimensions (H × W × D)		mm	198 × 1,100 × 620	198 × 1,100 × 620	198 × 1,100 × 620	270 × 1,135 × 700
Weight		kg(lbs)	26(57)	26(57)	26(57)	40 (88)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35
	Gas (Flare)		12.70	12.70	12.70	12.70
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].
Low Static Pressure Duct Slim Duct High Efficiency can be connected to J-IVS / J-IV / J-IVL Series only.

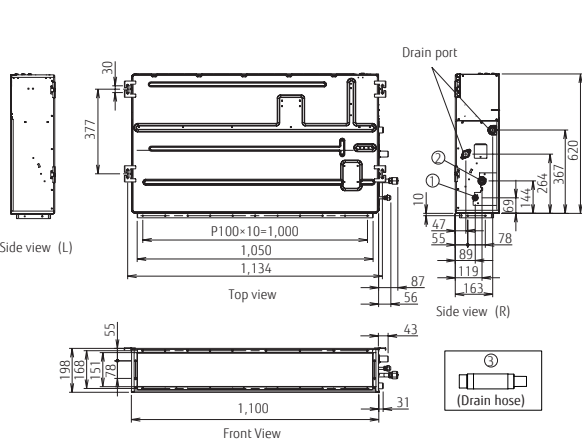
Optional parts

IR receiver unit: UTB-YWC
Long life filter: UTD-LF25NA (018)
UTD-SF045T (018)
Flange: UTD-RF204 (018)
Drain pump unit: UTZ-PX1NBA (018)
Remote sensor unit: UTY-XSZX
Auto Louver Grille Kit: UTD-GXTC-W (009/012/014)

Dimensions

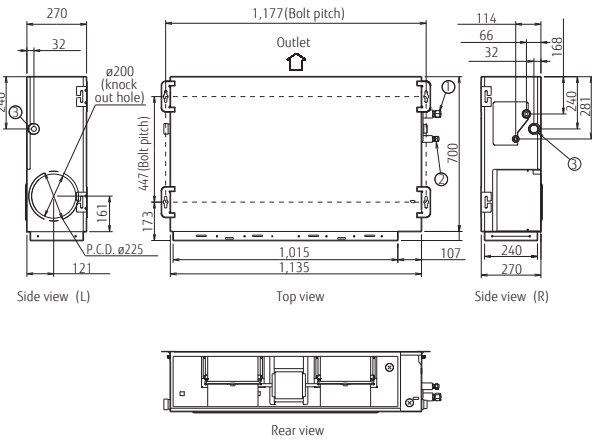
(Unit : mm)

Models: ARXP009 / ARXP012 / ARXP014



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

Models: ARXP018



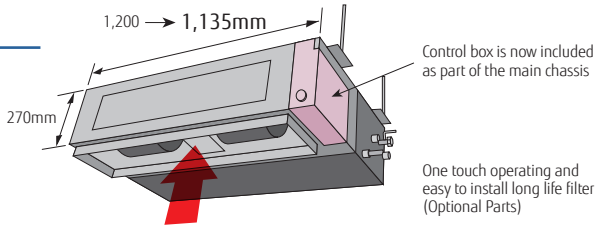
- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection

Medium Static Pressure Duct Normal



Slim & Compact design

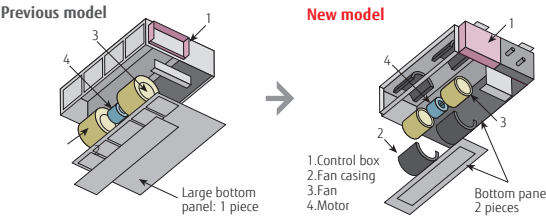
The slim and compact design of the indoor unit, with the control box mounted on the side of the unit, allows installation in narrow spaces.



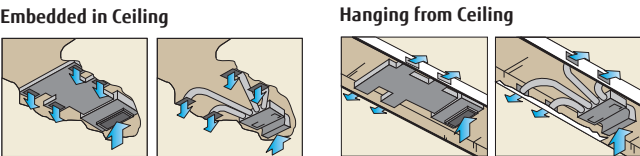
Easy maintenance

Structural improvement has been developed 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.

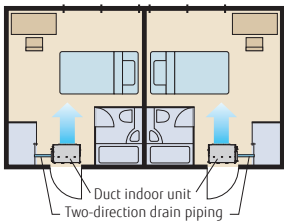
See below for the case of rear suction type



Installation styles

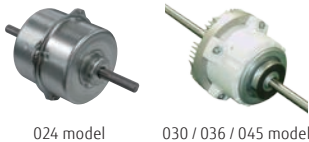


Two-direction drain piping



Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.



Selectable with a wide range of static pressure

It is possible to change of static pressure range 0 to 150Pa.

Static pressure range
0 to 150Pa

Model : ARXA024GLEH / ARXA030GLEH / ARXA036GLEH / ARXA045GLEH



Specifications

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	m³/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	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700
Weight		kg(lbs)	36 (79)	40 (88)	40 (88)	40 (88)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	15.88	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].

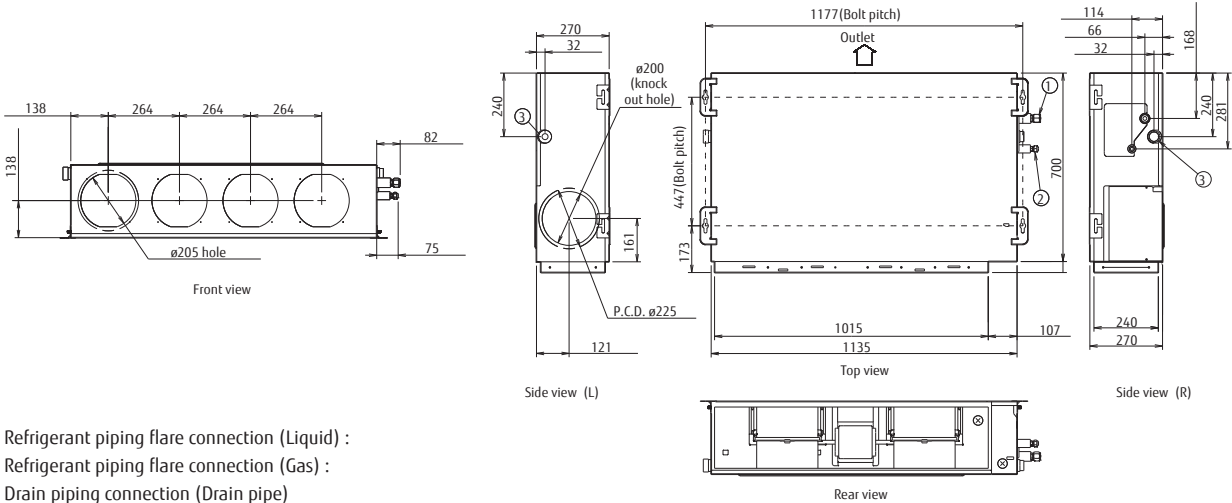
Optional parts

Long Life Filter : UTD-LF25NA
Flange (Square) : UTD-SF045T
Flange (Round) : UTD-RF204
External Power Supply Unit: UTZ-GXXA
IR Receiver Unit : UTY-TRHX
Drain Pump Unit : UTZ-PX1NBA
Wireless LAN Interface : UTY-TFSXZ1

Dimensions

(Unit : mm)

*Service accessibility must be allowed for when installing the product.
Please consult the installation manual for the necessary service access size.



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

Medium Static Pressure Duct High Efficiency



Large airflow volume

It can be installed in places such as early replacement of air required by large airflow volume.

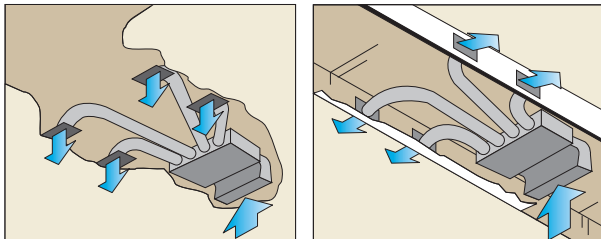


Selectable with a wide range of static pressure

Static pressure range
50 to 150Pa

(ARXN024)

Installation styles



Model : ARXQ018GTAH / ARXQ024GTAH * Production by order



Specifications

Model name			ARXQ018GTAH	ARXQ024GTAH
Power source			Single phase, ~230V, 50Hz	
Capacity	Cooling	kW	5.6	7.1
	Heating	kW	6.3	8.0
Input power		W	154	205
Airflow rate	High	m³/h	2,280	2,640
	Med	m³/h	—	—
	Low	m³/h	—	—
Static pressure range		Pa	50 to 100	50 to 150
Standard static pressure		Pa	50	50
Sound pressure level	High	dB(A)	35	37
	Med	dB(A)	—	—
	Low	dB(A)	—	—
Net Dimensions (H × W × D)		mm	450 × 1,587 × 700	450 × 1,587 × 700
Weight		kg(lbs)	84 (185)	84 (185)
Connection pipe diameter	Liquid	mm	9.52 (Flare)	9.52 (Flare)
	Gas	mm	15.88 (Flare)	15.88 (Flare)
Drain hose diameter (I.D./O.D.)			25/32	

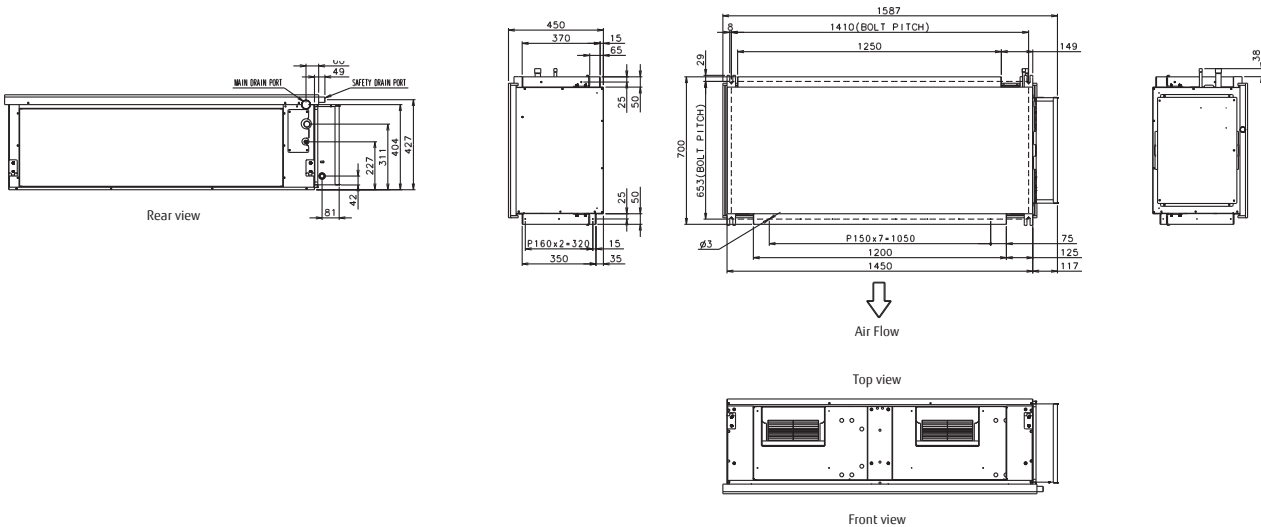
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*Medium Static Pressure Duct High Efficiency can be connected to V-III Series and VR-IV Series.

Optional parts

Remote Sensor Unit : UTY-XSZX

Dimensions

(Unit : mm)



Medium Static
Pressure Duct
High Efficiency



Large airflow volume

It can be installed in places such as early replacement of air required by large airflow volume.



Quiet operation

Multistep airflow speed control allows this model to be installed in a quiet location.

Low noise

26dB(A)

at 024/030 models

6-Step Speed

High

Med-High

Med

Med-Low

Low

Quiet

Slim & Compact design



Model : ARXP024GTAH / ARXP030GTAH * Production by order



Specifications

Model name			ARXP024GTAH	ARXP030GTAH
Power source			Single phase, ~230V, 50Hz	
Capacity	Cooling	kW	7.1	9.0
	Heating		8.0	10.0
Input power		W	180	273
Airflow rate	High	m³/h	2,100	2,700
	Med-High		2,050	2,390
	Med		1,860	2,080
	Med-Low		1,660	1,770
	Low		1,470	1,470
	Quiet		1,260	1,260
Static pressure range		Pa	0 to 100	0 to 100
Standard static pressure			50	50
Sound pressure level	High	dB(A)	37	41
	Med-High		35	38
	Med		33	34
	Med-Low		31	31
	Low		28	28
	Quiet		26	26
Net Dimensions (H × W × D)		mm	300 × 1,400 × 700	300 × 1,400 × 700
Weight		kg(lbs)	48 (106)	48 (106)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52
	Gas (Flare)		15.88	15.88
Drain hose diameter (I.D./O.D.)			25/32	

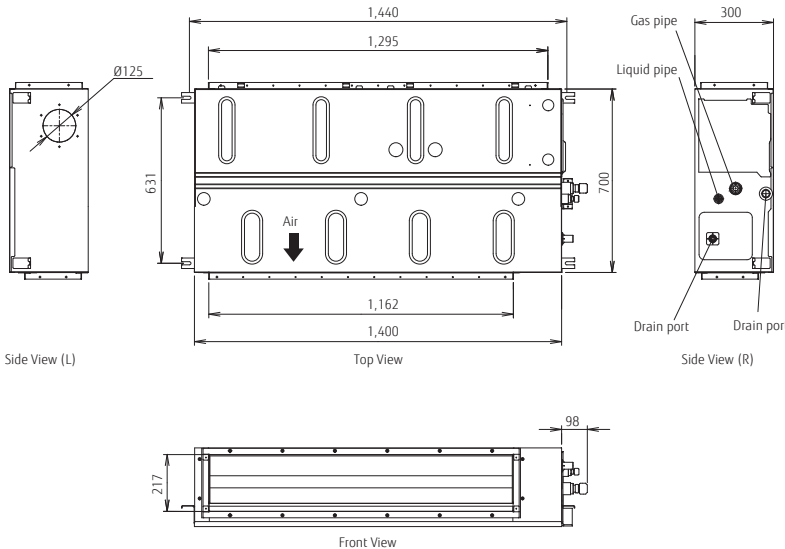
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Optional parts

- IR receiver unit: UTB-YWC
- Long life filter: UTD-LFNA
- Remote sensor unit: UTY-XSZX

Dimensions

(Unit : mm)

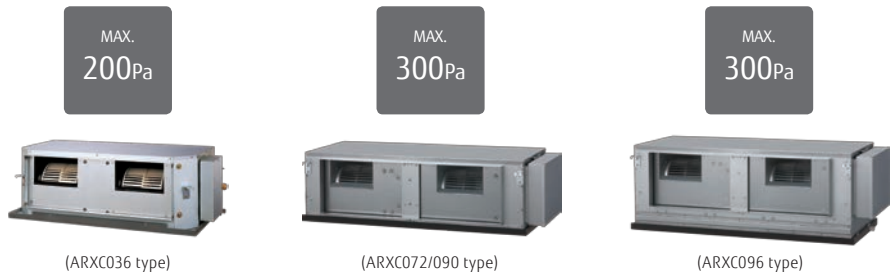


High Static Pressure Duct Normal



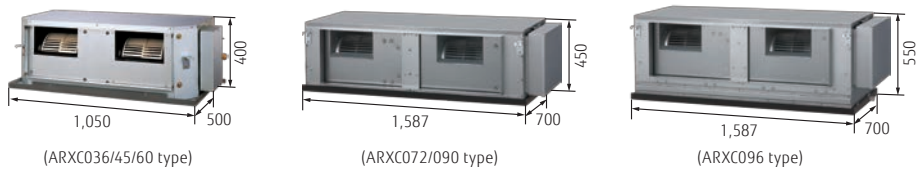
Static pressure selection

By using DC fan motor, it is possible to change static pressure range from 0 to 200Pa (ARXC036) / 300Pa (ARXC072 / 090 / 096).



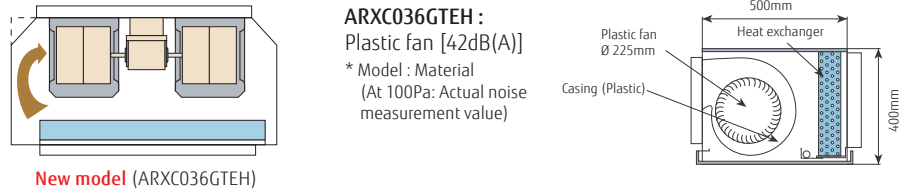
Easy installation (Compact size & Lightweight)

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



Low noise

Models : ARXC036 / ARXC45 / ARXC60
Cutting off the corners of the conventional indoor unit front panel and fan casing, has enabled less turbulent air flow. Low noise is realized by adopting a plastic case and a plastic fan.



Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.



Model : ARXC036GTEH / ARXC45GATH / ARXC60GATH
ARXC072GTEH / ARXC090GTEH / ARXC096GTEH



Specifications

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	m³/h	1,990	3,500	3,500	3,900	4,300	4,850
	Med		1,680	3,000	3,000	3,300	4,000	4,250
	Low		1,330	2,460	2,460	3,000	3,500	3,600
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	49	49	47	48	48
	Med		36	45	45	43	46	45
	Low		32	42	42	40	44	42
Net Dimensions (H × W × D)		mm	400 × 1,050 × 500	400 × 1,050 × 500	400 × 1,050 × 500	450 × 1,587 × 700	450 × 1,587 × 700	550 × 1,587 × 700
Weight		kg(lbs)	40 (88)	46 (101)	46 (101)	84 (185)	84 (185)	105 (231)
Connection pipe diameter	Liquid	mm	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	9.52 (Brazing)
	Gas		15.88 (Flare)	19.05 (Flare)	19.05 (Flare)	19.05 (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].
*: ARXC60/072/090/096G cannot be connected to J-IVJ-IVS Series.

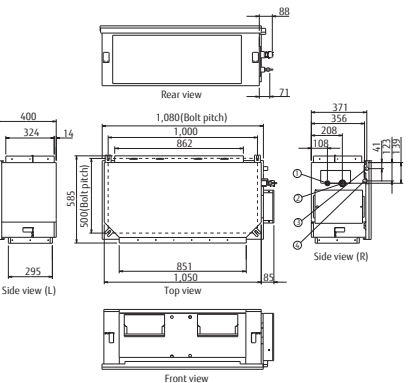
Optional parts

Long-Life Filter : UTD-LF60KA (036/45/60)
IR Receiver Unit : UTB-YWC (45/60)
UTY-TRHX (036/072/090/096)
External Power Supply Unit : UTZ-GXXA (036/072/090/096)
Wireless LAN Interface : UTY-TFSXZ1 (036/072/090/096)

Dimensions

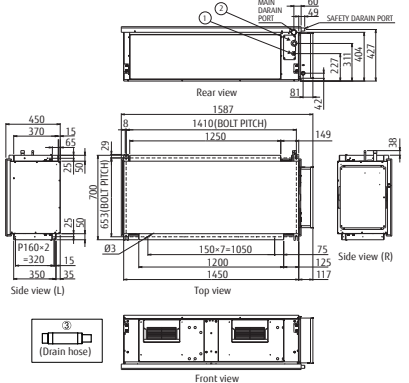
(Unit : mm)

Models: ARXC036 / ARXC45 / ARXC60



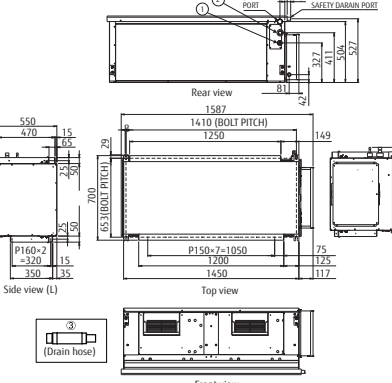
- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection (safety drain pan)
- ④ Drain piping connection (Main drain pan)

Models: ARXC072 / ARXC090



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

Models: ARXC096



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

High Static
Pressure Duct
High Efficiency



Large airflow volume

It can be installed in places such as early replacement of air required by large airflow volume.

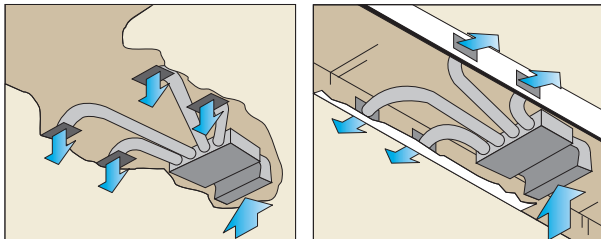


Selectable with a wide range of static pressure

Static pressure range
50 to 250Pa



Installation styles



Model : ARXQ030GTAH * Production by order



Specifications

Model name			ARXQ030GTAH	
Power source			Single phase, ~230V, 50Hz	
Capacity	Cooling	kW	9.0	
	Heating		10.0	
Input power		W	306	
Airflow rate	High	m³/h	3,200	
	Med		—	
	Low		—	
Static pressure range		Pa	50 to 250	
Standard static pressure			50	
Sound pressure level	High	dB(A)	40	
	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)	
Drain hose diameter (I.D./O.D.)			25/32	

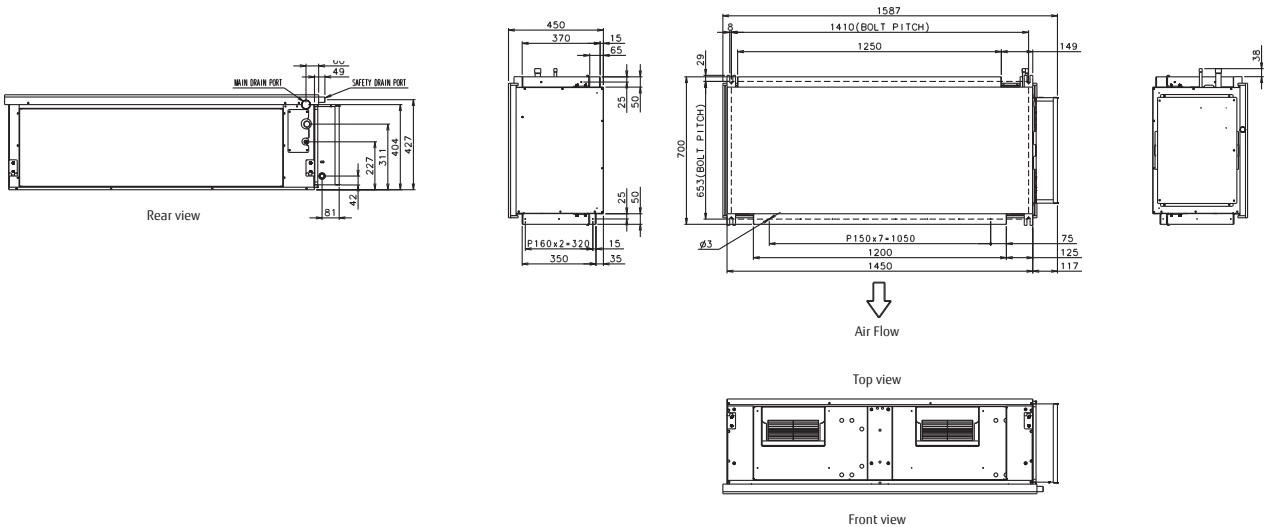
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*High Static Pressure Duct High Efficiency can be connected to V-III Series and VR-IV Series.

Optional parts

Remote Sensor Unit : UTY-XSZX
IR Receiver unit : UTY-TRHX

Dimensions

(Unit : mm)

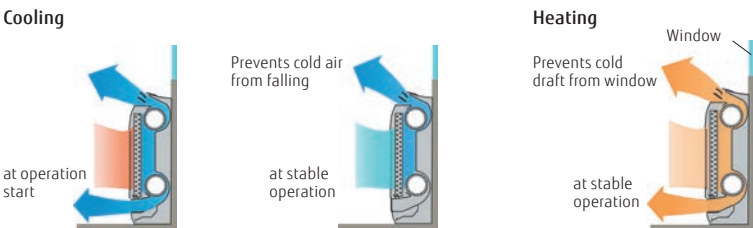


Compact floor



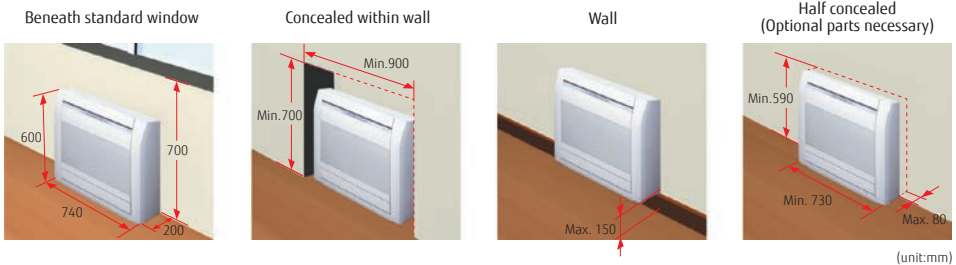
2-Fan & Wide airflow

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



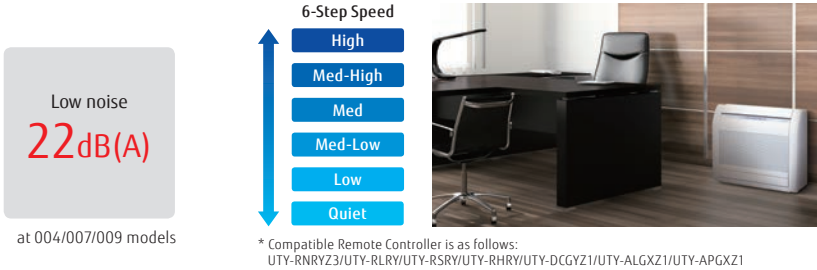
Flexible & easy installation

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.



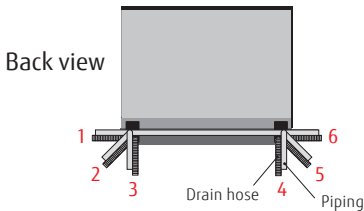
Quiet operation

Quiet operation is realized by 6 fan speed control. (via 2 wire controller)



Flexible piping connection 6 direction of drain & piping

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



Model : AGYA004GCGH / AGYA007GCGH / AGYA009GCGH
AGYA012GCGH / AGYA014GCGH
[EEV external]
AGYE004GCEH / AGYE007GCEH / AGYE009GCEH
AGYE012GCEH / AGYE014GCEH



Specifications

Model name			AGYA004GCGH	AGYA007GCGH	AGYA009GCGH	AGYA012GCGH	AGYA014GCGH	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	14	16	17	22	29
Airflow rate	High	m³/h	380 / 430	470	500	590	670	380 / 430	470	500	590	670
	Med-High		350	420	450	520	590	350	420	450	520	590
	Med		320	390	400	470	520	320	390	400	470	520
	Med-Low		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-High		33	35	36	39	42	33	35	36	39	42
	Med		31	33	34	37	39	31	33	34	37	39
	Med-Low		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 × 740 × 200						600 × 740 × 200			
Weight		kg(lbs)	15.0 (33.0)	15.0 (33.0)	15.0 (33.0)	15.0 (33.0)	15.0 (33.0)	14.5 (32.0)	14.5 (32.0)	14.5 (32.0)	14.5 (32.0)	14.5 (32.0)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	9.52	9.52	9.52	12.70	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	

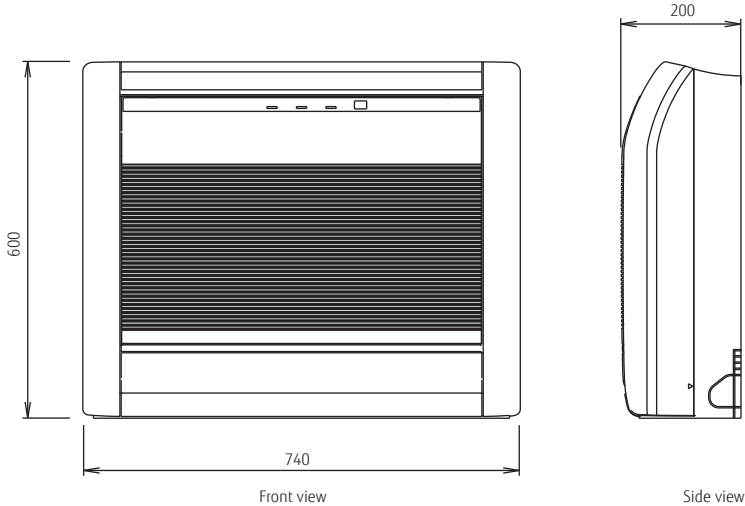
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When AGYA004/007/009GCGH, AGYE004/007/009GCEH are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø12.70.

Optional parts

Half concealed kit: UTR-STA
External Power Supply Unit : UTZ-GXXA
Wireless LAN Interface : UTY-TFSXZ1

Dimensions

(Unit : mm)



Floor / Ceiling



Flexible installation

Example for floor installation
Floor console

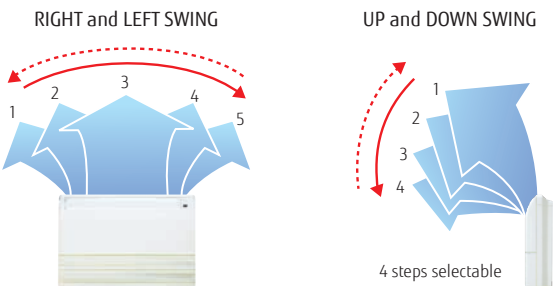


Example for ceiling installation
Under ceiling



Double auto swing

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



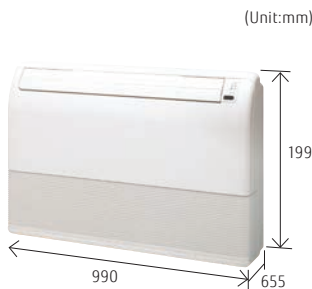
High power DC fan motor

- High power
- Wide rotation range
- High efficiency



Compact design

Symmetrical, slim and compact design.



(Unit:mm)

Model : ABYA012GTEH / ABYA014GTEH / ABYA018GTEH / ABYA024GTEH



Specifications

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	m³/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	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655
Weight		kg(lbs)	25 (55)	26 (57)	26 (57)	27 (60)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	9.52
	Gas (Flare)		12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32			

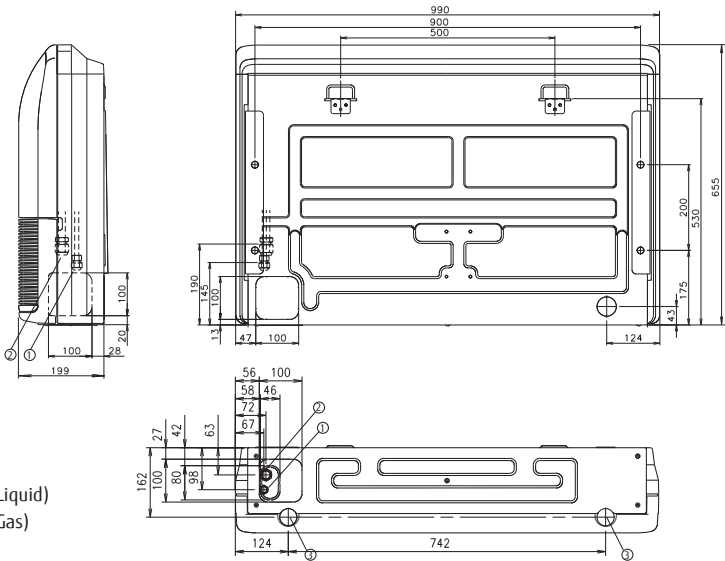
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Optional parts

External Power Supply Unit : UTZ-GXXA
Wireless LAN Interface : UTY-TFSXZ1

Dimensions

(Unit : mm)



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

Ceiling



Installation

Open

General installation pattern which suspends the indoor unit from the ceiling.

Concealed

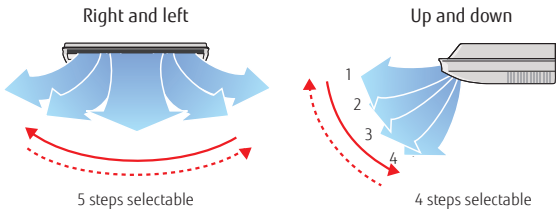
Installation pattern where part of the indoor unit is embedded into the ceiling.

Wall mounted (Field Supplied)

Installation which fixes the indoor unit to the wall by the use of wall brackets (Field supplied). This type of installation can be used when the ceiling space is insufficient.

Double auto swing and wide airflow

Auto airflow direction and auto swing



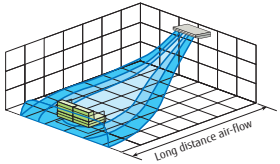
High power DC fan motor

- High power
- Wide rotation range
- High efficiency

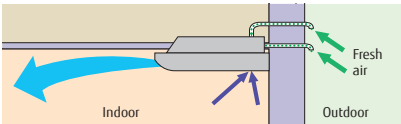


Long airflow

Long Airflow ensures comfort to every corner of a large room.



Fresh air intake



Slim & Compact design



Model : ABYA030GTEH / ABYA036GTEH / ABYA045GTEH / ABYA054GTEH



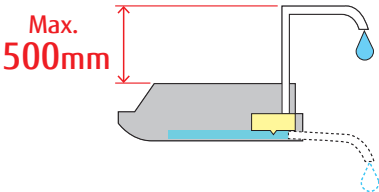
Specifications

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	m³/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	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700
Weight		kg(lbs)	46 (101)	48 (106)	48 (106)	48 (106)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	15.88	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].

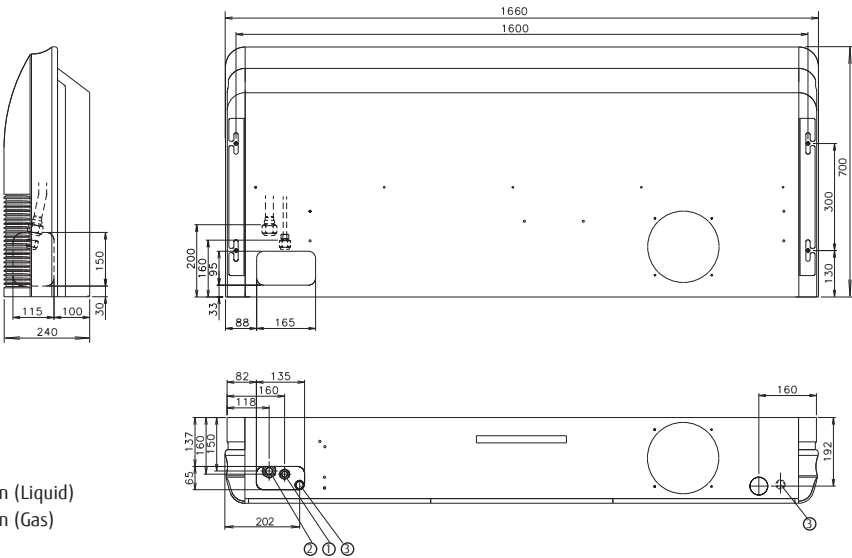
Optional parts

- Drain Pump Unit : UTR-DPB24T
Flange : UTD-RF204
External Power Supply Unit : UTZ-GXXA
Wireless LAN Interface : UTY-TFSX21



Dimensions

(Unit : mm)



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

Wall Mounted



High efficient compact design

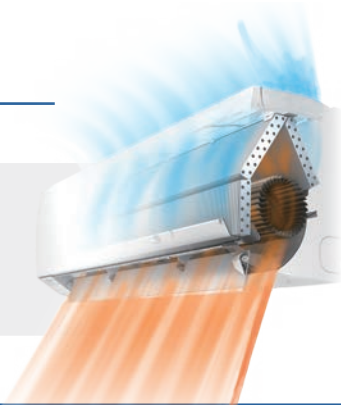
The 004-014 model has a common design. High efficient compact design has been achieved by mounting a high density and large heat exchanger. Compact body makes it possible to install discretely even in a meeting or office room and comfortable air conditioning is provided.

High density heat exchanger



Making the tube thin: 5mm

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

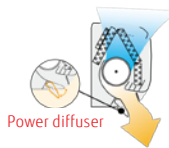


More comfort airflow

Comfortable air conditioning is provided by mounting our unique power diffuser.

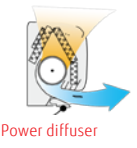
Heating

Vertical airflow provides powerful floor level heating



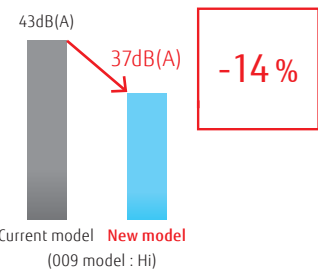
Cooling

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



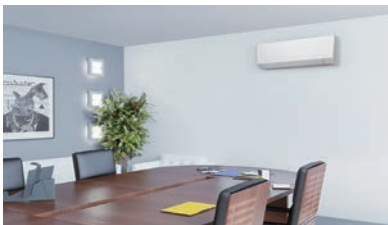
Quiet operation & 6 Fan Speed Control

Drastic low noise is achieved by new airflow structure. Multistep airflow control is possible to suit the environment.



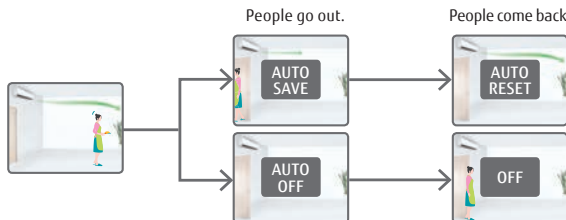
- 6-Step Speed
- High
 - Med-High
 - Med
 - Med-Low
 - Low
 - Quiet

* Compatible Remote Controller is as follows:
UTY-RNRVZ3/UTY-RLRV/UTY-RSRV/UTY-RHRY/UTY-DCGVZ1/UTY-ALGXZ1/UTY-APGXZ1



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.



Model : ASYA004GCGH / ASYA007GCGH / ASYA009GCGH
ASYA012GCGH / ASYA014GCGH
[EEV external]
ASYE004GCEH / ASYE007GCEH / ASYE009GCEH
ASYE012GCEH / ASYE014GCEH



Specifications

Model name			ASYA004GCGH	ASYA007GCGH	ASYA009GCGH	ASYA012GCGH	ASYA014GCGH	ASYE004GCEH	ASYE007GCEH	ASYE009GCEH	ASYE012GCEH	ASYE014GCEH	
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	19	20	25	36	12	19	34	25	36
Airflow rate	High	m³/h	450	550	610	690	800	450	550	610	690	800	
	Med-High		430	510	560	610	740	430	510	560	610	740	
	Med		400	470	510	560	680	400	470	510	560	680	
	Med-Low		380	410	440	530	610	380	410	440	530	610	
	Low		360	360	360	470	550	360	360	360	470	550	
	Quiet		310	310	310	330	330	310	310	310	330	330	
Sound pressure level	High	dB(A)	31	34	37	40	44	31	35	43	40	44	
	Med-High		30	32	35	37	42	30	32	38	37	42	
	Med		28	30	32	35	40	28	30	34	35	40	
	Med-Low		27	28	29	33	37	27	27	29	33	37	
	Low		26	26	26	30	34	26	24	24	30	34	
	Quiet		22	22	22	24	24	22	22	22	24	24	
Net Dimensions (H × W × D)		mm	268 × 840 × 203					268 × 840 × 203					
Weight		kg(lbs)	8.0 (18.0)	8.5 (19.0)	8.5 (19.0)	8.5 (19.0)	8.5 (19.0)	8.0 (18.0)	8.5 (19.0)	8.5 (19.0)	8.5 (19.0)	8.5 (19.0)	
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	9.52	9.52	9.52	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-EV09XB		UTR-EV14XB			

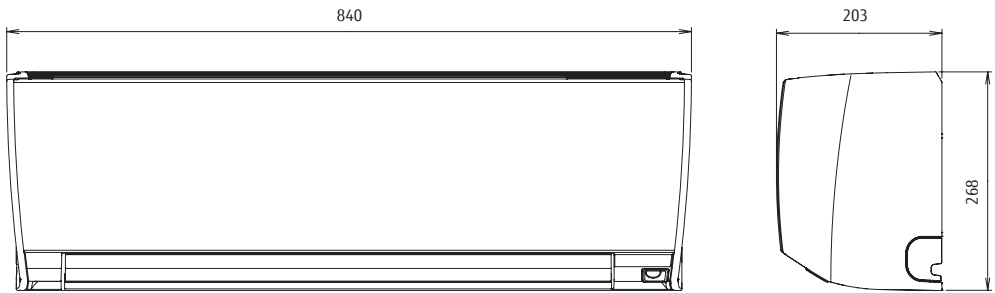
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
When ASY*004G**H, ASY*007G**H, ASY*009G**H are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø12.70.

Optional parts

External Power Supply Unit : UTZ-GXXA
Wireless LAN Interface : UTY-TFSXZ1

Dimensions

(Unit : mm)

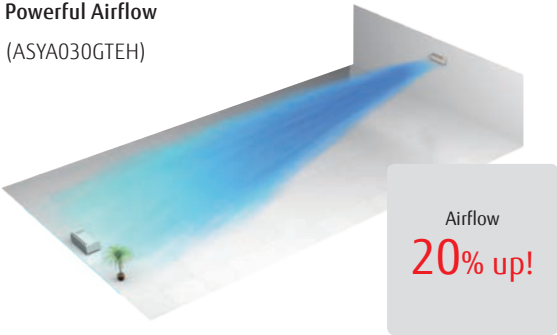


Wall Mounted

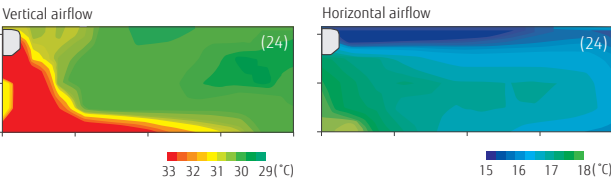


Powerful & Comfort airflow

Powerful Airflow
(ASYA030GTEH)

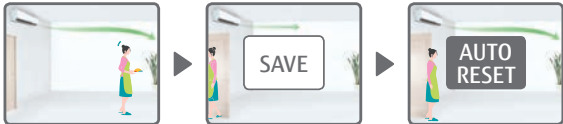


Power diffuser
(ASYA18/24GBCH)



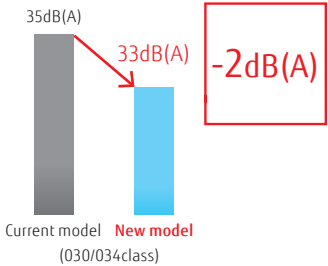
Human sensor (ASYA030/034GTEH only)

A human sensor senses the movement of humans to reduce operation when one is in the room. the energy consumption is reduced automatically to keep down electricity bills.
(Available to wired remote controller as UTY-RNRYZ3)



Quiet operation & 6 Fan speed control

Drastic low noise is achieved by new airflow structure. In addition, multistep quiet operation is available by 6-step sound level settings.



- 6-Step Speed
- High
 - Med-High
 - Med
 - Med-Low
 - Low
 - Quiet



* Compatible Remote Controller is as follows:
UTY-RNRYZ3/UTY-RLRY/UTY-RSRY/UTY-RHRY/UTY-DCGYZ1/UTY-ALGXZ1/UTY-APGXZ1

Model : ASYA18GBCH / ASYA24GBCH
ASYA030GTEH / ASYA034GTEH



ASYA18/24GBCH



ASYA030/034GTEH

Specifications

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	m³/h	840	1,100	1,440	1,620 / 1,520
	Med-High		-	-	1,200	1,300
	Med		770	910	1,050	1,120
	Med-Low		-	-	940	980
	Low		690	730	890	890
	Quiet		-	-	700	700
Sound pressure level	High	dB(A)	41	48	53	55 / 54
	Med-High		-	-	49	51
	Med		39	43	45	47
	Med-Low		-	-	42	43
	Low		35	35	39	39
	Quiet		-	-	33	33
Net Dimensions (H × W × D)		mm	320 × 998 × 238	320 × 998 × 238	340 × 1,150 × 280	340 × 1,150 × 280
Weight		kg(lbs)	15 (33)	15 (33)	18 (40)	18 (40)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52	9.52	9.52
	Gas (Flare)		12.70	15.88	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-IVL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas).

Optional parts

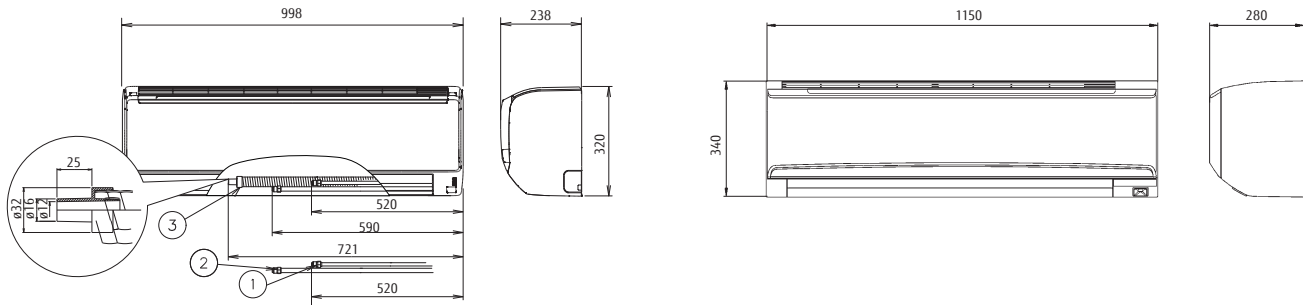
External Power Supply Unit : UTZ-GXXA (030/034)
Wireless LAN Interface : UTY-TFSXZ1 (030/034)

Dimensions

(Unit : mm)

Models: ASYA18 / ASYA24

Models: ASYA030 / ASYA034



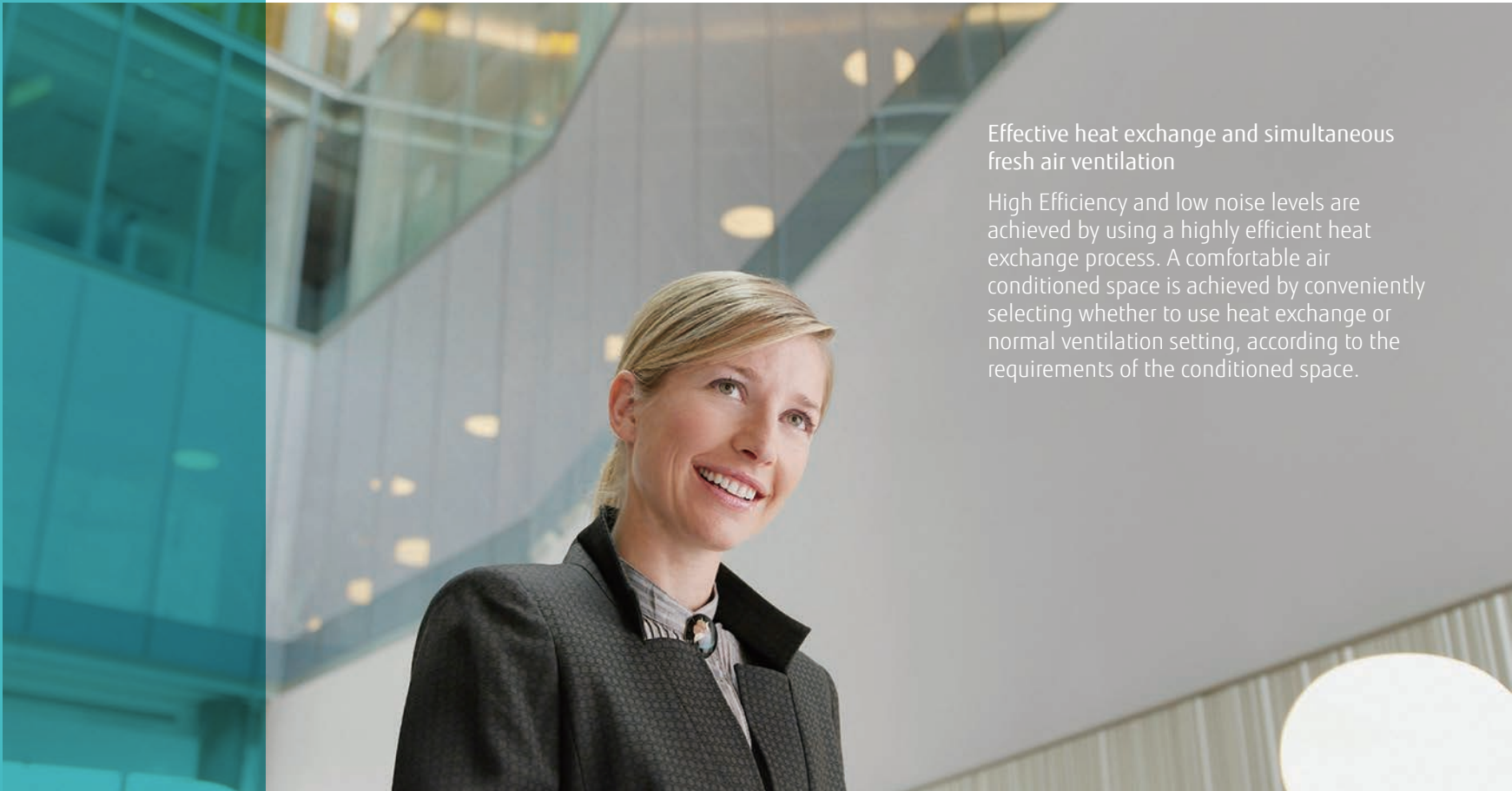
- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection

Residential, Commercial & Light Commercial

VENTILATION

VENTILATION Lineup

- Vn-002 Energy Recovery Ventilator
- Vn-004 DX Kit for Air Handling Application
 - for VRF Outdoor Unit
- Vn-006 DX Kit for Air Handling Application
 - for Single Split Outdoor Unit
- Vn-008 AIR HANDLING UNIT



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.

Lineup

Airflow rate (m³/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	 UTY-XDZX															
Connectable capacity class (kW)	25 - 96															
Air Handling Unit	 AHYA / AHYB / AHYC / AHYD / AHYE															

Energy Recovery Ventilator

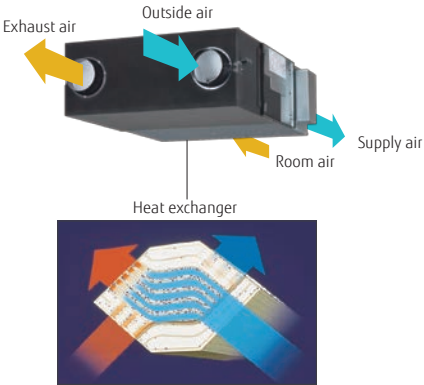


Energy recovery ventilator unit offers maximum comfort and greater energy savings.

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.



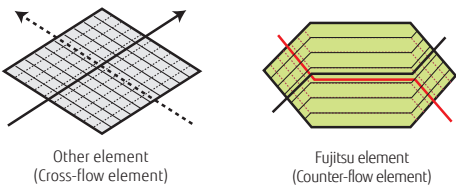
Adopts a highly efficient counter-flow heat exchange element

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.



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.

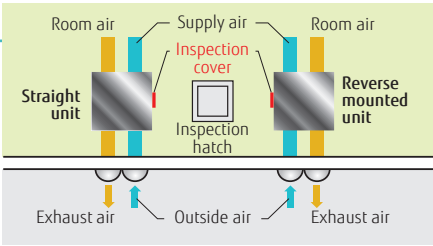
Slim shape and easier installation

Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.



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



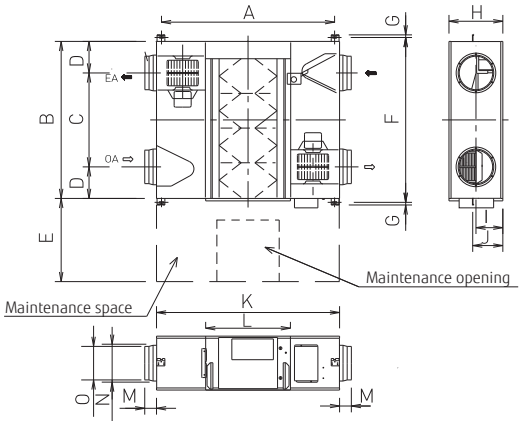
Specifications

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
Operating range				°C	-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)



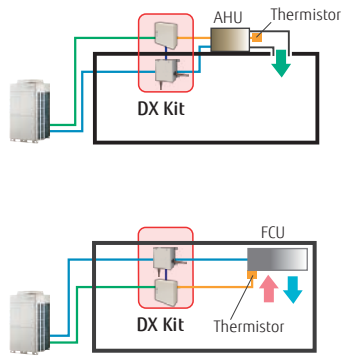
	UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100C
A	810	978	1,018	1,250	1,250
B	599	804	904	884	1,134
C	315	580	640	428	678
D	142	112	132	228	228
E	600	600	600	600	600
F	655	860	960	940	1,190
G	19	19	19	19	19
H	270	317	317	388	388
I	135	159	159	194	194
J	159	182	182	218	218
K	882	1,050	1,090	1,322	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).

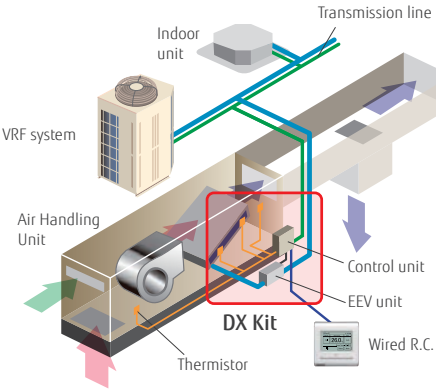
Multiple temperature sensors optimally control the air handling unit and fan coil unit.



When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.

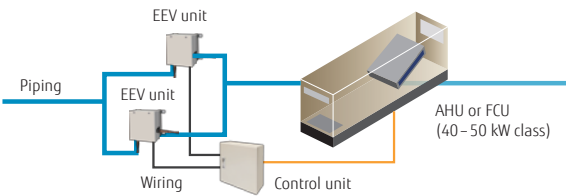
When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

Arrangement as part of a VRF system



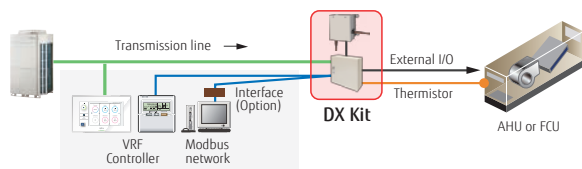
Supports a wide range of capacity classes

- 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

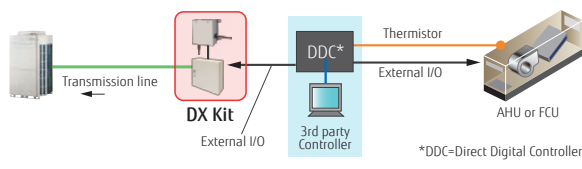


A variety of controls to match the application

Central control using our VRF controllers or central management controllers



Central control from external controllers



*DDC=Direct Digital Controller

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

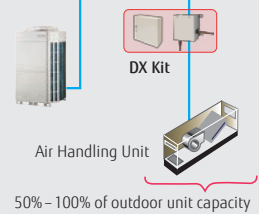
Possible to control via a MODBUS enabled BMS by using optional interface.

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.

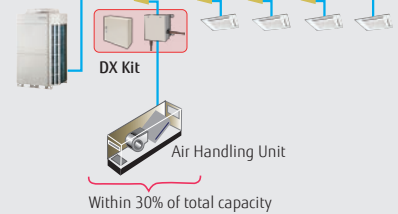
Connectable capacity

• Single connection



50% - 100% of outdoor unit capacity

• Mixed connection

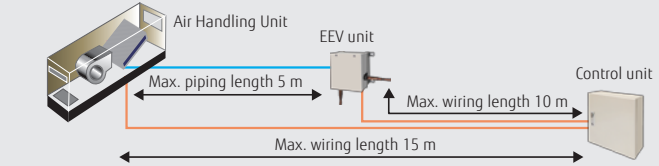


Within 30% of total capacity
50% - 100% of outdoor unit capacity

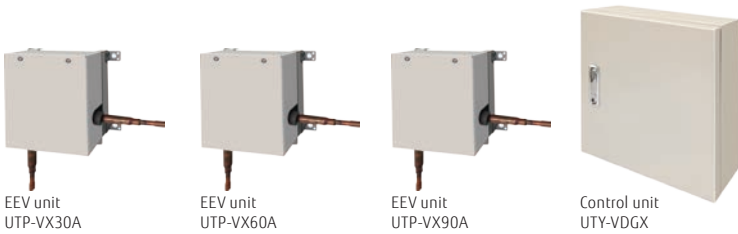
For 2 EEV units connection (option) Separation Tube: UTP-LX180A



Piping and wiring length



Control unit: UTY-VDGX EEV unit: UTP-VX30A / UTP-VX60A / UTP-VX90A



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	kW	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			230/1/50									
Dimensions (H × W × D)			400 × 400 × 120									
EEV unit			UTP-VX30A		UTP-VX60A		UTP-VX90A		UTP-VX90A×2			
Connection pipe diameter (Liquid)			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].

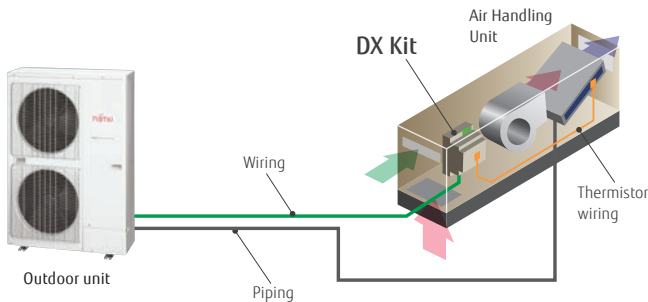
DX Kit for Air Handling Application for Single Split Outdoor Unit



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.



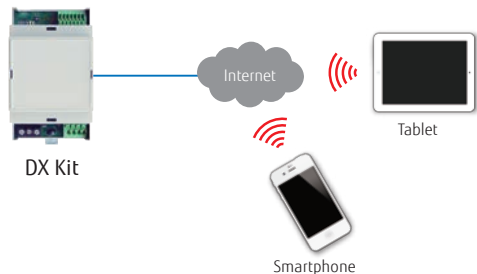
Supports a wide range of capacity class

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

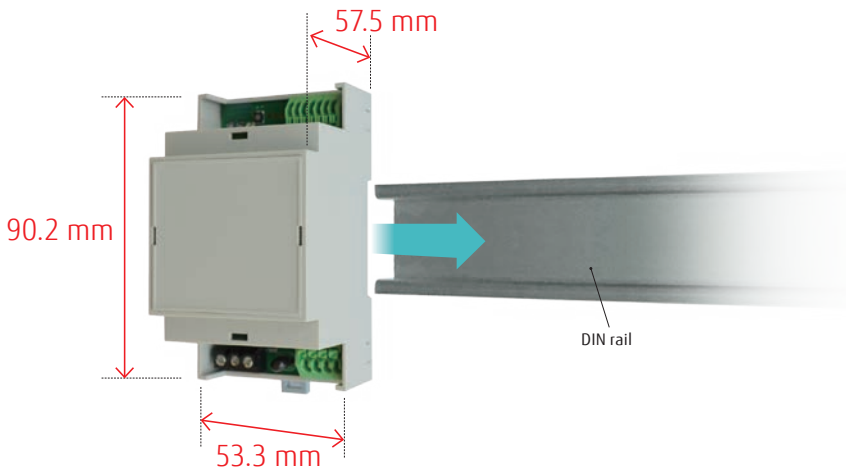
- Status of Compressor, Defrost, Error (Potential free relays)
- LED status indication

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



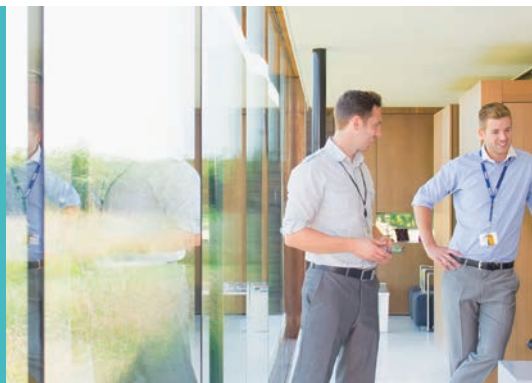
Model: UTY-XDZX



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	kW	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 AIR HANDLING UNIT

- Vn-010 System Overview
- Vn-012 AIRSTAGE™ Lineup
- Vn-014 Air Handling Units Overview
- Vn-016 Features
 - Structure
 - Filtration
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 - Humidifier
 - Heat Recovery Section
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- Vn-030 Specifications
- Vn-032 Control System
 - AHU Controller
 - System Controller, System Controller Lite



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



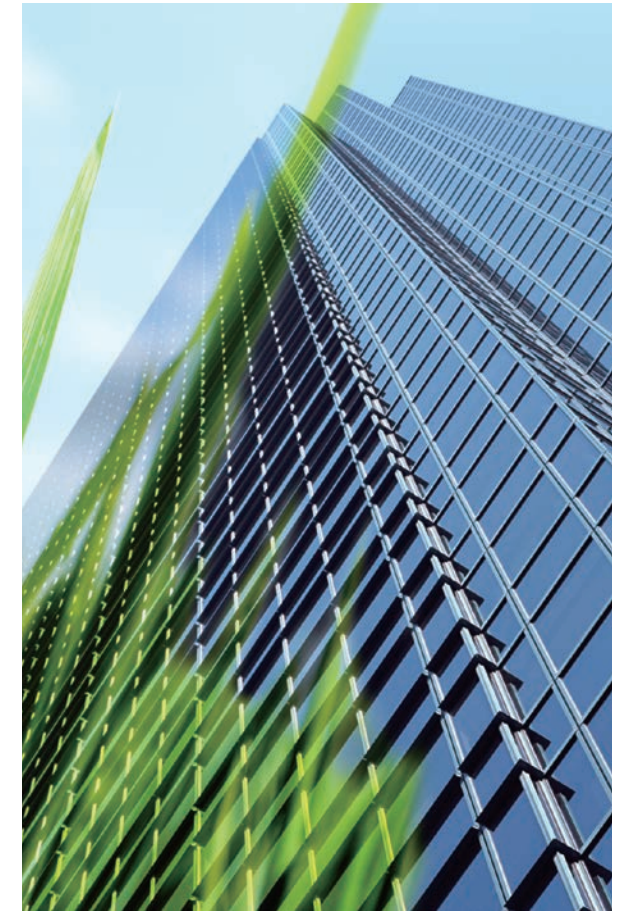
System Overview

The Air handling applications for AIRSTAGE™ system is the Fujitsu general offer to the most demanding installations, where energy efficiency meets with the highest comfort.

The system is composed of AIRSTAGE™ outdoor unit from 10 to 54 HP and Air handling unit for civil and industrial buildings for thermo-ventilation and air conditioning purposes, covering air flow ranges from 4,300 to 18,100 m³/h and cooling capacities from 25 to 96 kW.



- For AHU control: AHU controller (Only For AHU)
- For mixed connection control: System controller, or 3rd party controller with Modbus convertor



The Advantages of the System

Full comfort

The system offers full comfort and air quality in the buildings providing clean treated air thanks to the advanced filtration and balanced temperature.

Easy design and installation

The system is Simple design and installation. No additional external kit is required as the Air Handling Unit includes DX Kit (Expansion valve and control PCB) AHU model selection is easy by using Selection Software.

Total solution concept

Integrating an Air Handling Unit into the total building climate system simplifies both design and installation procedures based on a single common technology. From project follow-up to installation, commissioning and maintenance, all procedures are simplified. There is a requirement for not more than one installer.

AIRSTAGE™ Lineup

Fujitsu General provides multi air conditioning systems for buildings AIRSTAGE™ Series matched to the size and application of the property.

Capacity (kW)		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		10	12	14	16	18	20	22	24	26	28	30	32		34	36	38	40	42	44	46	48	50	52	54
J-IVL Series																									
		AJY090 LELBH	AJY108 LELBH	AJY126 LELBH	AJY144 LELBH	AJY162 LELBH																			
V-III Series Heat Pump	Space Saving																								
	Set Model	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					



AIRSTAGE™ J-IVL

for Small Office

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



AIRSTAGE™ V-III

for Large Office

Smart and cutting edge design. Extensive line-up from 10 HP to 54 HP in 2 HP increment. Connectable indoor unit capacity ratio up to 100%

Air Handling Units Overview



AHU is the range of Air Handling Units for civil and industrial buildings for thermo-ventilation and air conditioning purposes, designed to be connected with AIRSTAGE™ Series Outdoor units. Units are available in different models and several additional modular sections to meet all installation needs, with air flow ranges varying from 4,300 to 18,100m³/h and covering a cooling capacity from 25 to 96kW.

AHU is made of extruded aluminium profiles and nylon angle bars. The "sandwich-type" double-skin panels (50 mm thick) with galvanised sheets, externally pre-painted, and thermal insulation in high density polyurethane foam are fastened on the units by means of an aluminium snap-in locking system.

AHU fan section is equipped with EC Inverter Plug-Fans and is provided with Automatic Regulation Control Systems for Constant Air Flow and Constant Available Static Pressure. An electronic device with pressure sensors on the system and control sensors on EC Plug-Fans adjust the flow rate and the available static pressure to keep the air flow constant.

5 configurations are Available

Configuration A

In line with Front Damper

For fresh air operation up to 100% external air

Configuration B

In line with Top Inlet Damper

For fresh air operation up to 100% external air

Configuration C

In line with Inlet Mixing Box

For fresh air operation up to 20% external air

Configuration D

Double Deck with Cross-Flow Heat Exchanger

Configuration E

Double Deck with Heat Wheel

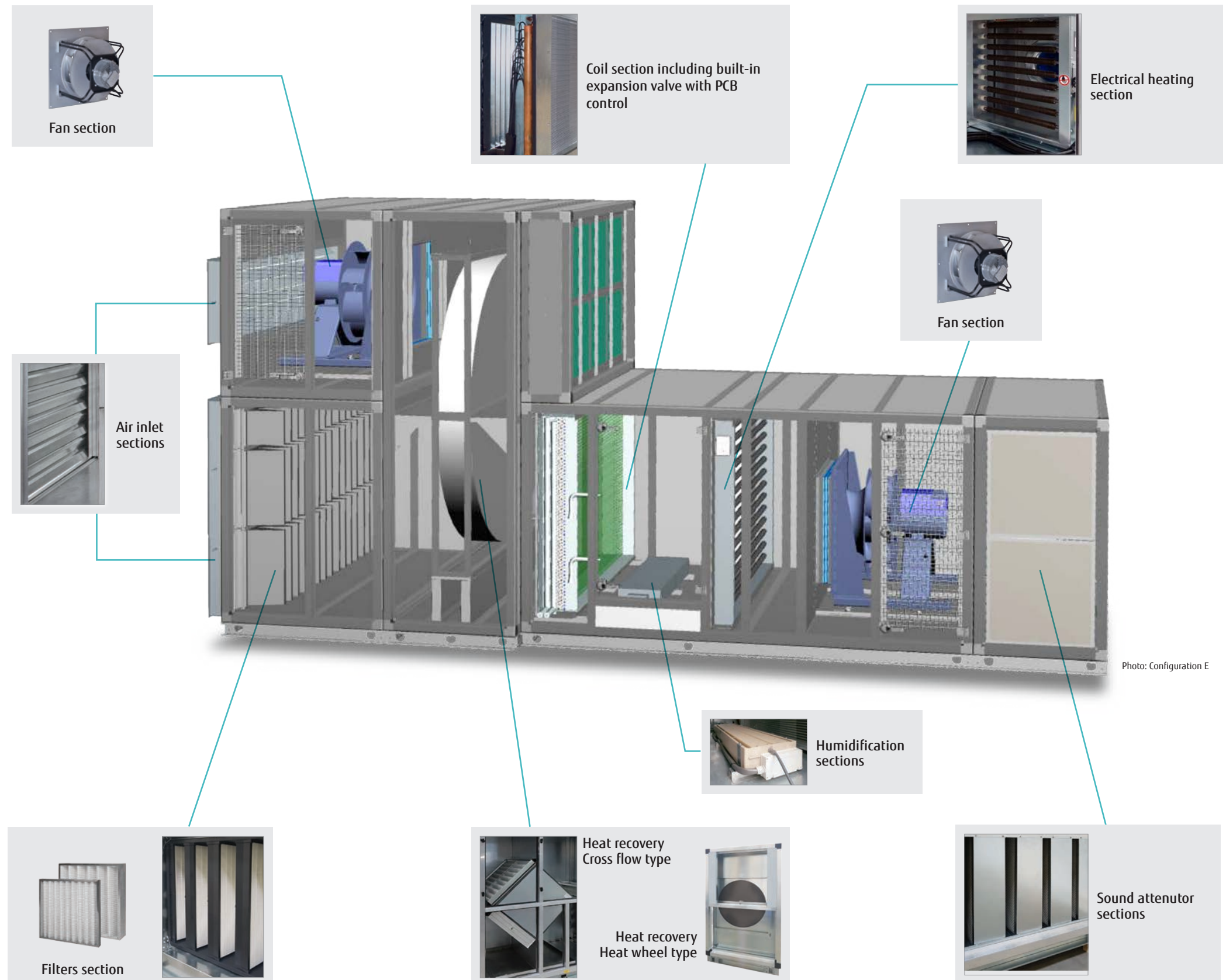


Photo: Configuration E

Feature



Structure

Section of extruded profile 62 × 62 mm (SNAP-IN system)

- The Air Handling Units are manufactured with bearing framework and sandwich paneling.
- The frame is made of extruded anticorodal aluminium alloy profiles of AlMgSi 0,5- UNI 9006/1 type.

Mechanical characteristics of extruded aluminium alloy

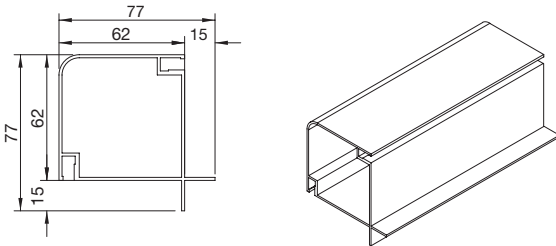
Denomination	Specific weight (kg/dm ³)	Unitary load of traction break R (kg/mm ²)	Yielding load S (0,2) (kg/mm ²)	Stretch (%)	Brinell hardness (kg/mm ²)
ANTICORODAL 050 UNI 9006/1 EX UNI 3569 (6060) ISO = Al Mg Si 0.5	2,70	20 ÷ 23	16 ÷ 20	12 ÷ 15	60 ÷ 70

Profile

- The exclusive bearing structure made by Fujitsu General, having actual dimension of 62 x 62 mm, uses the lock panel system in aluminium (SNAP-IN system). This system permits to reach paneling tightnesses beyond 2500 Pa (10 in WG), because of the homogeneity of the pressure over the paneling perimeter, not achievable with the traditional system (selfdrilling screw fastening). This profile doesn't require the aid of internal and external screws, giving therefore a solider and aesthetically more pleasant appearance.
- Because of the dimensions of the profile, the used panel has actual dimensions of 50 mm.
- The profile hasn't got external sharp edges, as foreseen by the safety and accident-prevention rules in force.
- Air Handling Units are certified for the highest performance standards.



- Fujitsu General units and all internal components are compliant to ErP EcoDesign 2018 LOT6 Regulation.
- Fujitsu General units comply with UNI EN 1886 European Regulation about thermal and mechanical performance.



(Unit : mm)

Panelling

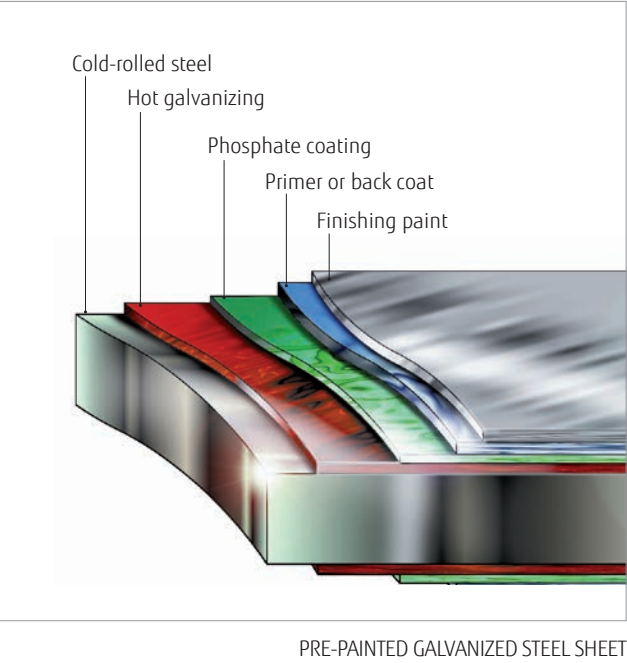
The panelling is double skin sandwich type made of galvanized sheet, with polyurethane foam insulation of minimum density 45 kg/m³, actual thickness: -50 mm

Panels are made as follows:

Inner skin: Hot dipped galvanized sheet (galvanization not less than 140 g/m²), 5/10 mm thick.

Insulation: Rigid polyurethane foam minimum density 45 kg/m³, thermal conductivity 0,018 ÷ 0,024 w/m² °c.

Outer skin: Hot dipped pre-painted galvanized sheet (galvanization not less than 140 g/m²), 6/10 mm thick.



Steel Sheet Features

Hot dipped galvanized steel sheet type Fe P02 GZ 140 UNI En 10142 with galvanization not less than 140 g/m². The thickness is 6/10 mm.

Pre-painted steel sheet 6/10 mm thick with base support made of hot dipped galvanized steel (galvanization not less than 140 g/m²) EURONORM 142-79 and coating, colour white-grey for a special resistance to weathering. The protective system consists of a dry film of 25 µm on the exposed skin and of a dry film of 5 µm on the non-exposed skin.

Hardness of film: F on the Koh - i - Noor's scale.

Other chemical-physical characteristics:

- Resistance beyond 250 h in salty mist (ECCA T8)
- Resistance beyond 1000 h in high humidity conditions (ASTM D 714)
- Film resistance to the cleaving and adhesion after bending (ECCA T7).

A self-adhesive PVC film is laid on the steel sheet exposed surface in order to avoid damages during the manufacturing procedures and transport.

Baseframe

The bearing baseframe is made of galvanized steel with pressure bent, bolted or welded profile, according to the configuration of the unit.

It is arranged for the sections lifting and suitable for water piping passage and drain.

Perimeter baseframes heights and profiles are dimensioned as follows: H = 100 mm with bolted C profile for all units

The baseframes of all the above solutions are made of galvanized steel sheet with minimum thickness 2.0 mm.



SECTION VIEW.
The baseframe is flush with the panelling

Covering Roof (TT - Accessory)

- All units that must be positioned outside or generally speaking are exposed to the weather may be equipped with a hot galvanized steel sheet roof (galvanization not less than 140 g/m²) as accessory element.
- The roof overhang with regard to the unit outer dimensions is of about 100 mm.
- All roof corners are equipped with accident prevention corners protections.

Filtration

Plate Filters COARSE 55%

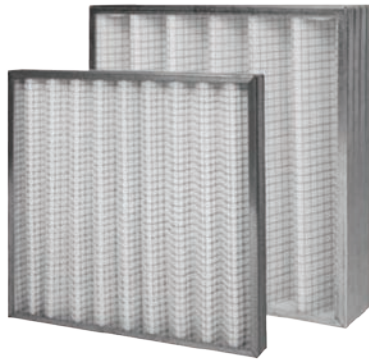


Plate filters filter the air at a low and medium efficiency.

- Plate filters are commonly used as prefilters in order to keep a longer efficiency of filters installed downstream.
- Plate filters are installed on guides fastened inside the unit. In this case the air by-pass is minimum.

Plate filters are highly used because of the following features

- Easy removal
- Easy availability on spare parts market
- Regenerability (they can be washed with warm water and soap or common domestic detergents).

Plate filters are made of

- Galvanized steel sheet frame 48 mm th.
- Support containing net made of galvanized electrowelded wire
- Filtering stuff made of synthetic fiber with filtration efficiency COARSE 55%.

Filtration

Bag Filters ePM1 50%



N.B. ePM1 50% bag filters are mandatory for ECODESIGN ErP 2016 compliance

Bag filters have the characteristic of giving a wide filtering area thanks to their bag shape and therefore they highly reduce the crossing air speed.

The bags are installed on galvanized slides for side extraction. This filtering section includes the access door.

Soft bag filter features

- Efficiency, ePM1 50%
- Depth 287 mm
- Fiberglass filtering stuff
- Galvanized steel sheet frame
- 80% of the material is recyclable
- Limit relative humidity 100%.

Thermal Exchange Sections

DX Coil



The section consists of

- DX coil with copper tubes and aluminium fins, specifically designed to guarantee an high thermal exchange and an excellent ratio between sensible and latent heat;
- One distributor and one electronic expansion valve for each circuit connected to its control PCB, which is located in close proximity to avoid every possible interference, immunity and electromagnetic disturbance problems;
- Temperature probes installed at the front, at the rear and in the middle of the coil provide the data to the control PCB, which consequently determines the opening of the electronic expansion valve, depending on the work point and the set point;

On multi-module units the cooling circuits are interlaced to guarantee a full exploitation of the exchange surface and air treated uniformity also at partial loads. The section includes the PCB control.

Thermal Exchange Sections

Electrical Heating



Electrical heating section is used for the execution of heating and post-heating treatment

They are manufactured as follows

- galvanized steel sheet flanged containing frame
- finned steel tubular heaters on base insulators
- safety fix thermostat with manual reset
- electrical heating is foreseen for 3-Stage 400V/3P/50 up to 36 kW capacity.

Fan Section

EC Inverter Plug-Fan



The fan section is equipped with EC Inverter Plug-Fan.

- The EC Inverter Plug-Fans are managed by an electronic control adjusting fans rotational speed to adapt air flow and static pressure to the system capacity. They supply a variable air flow according to the requested thermal load, providing important benefits in terms of energy consumption and low noise operation especially when the unit is operating at partial load.
- The EC Inverter Plug-Fans can be set to different working conditions, according to the unit needs, directly on site through the control panel installed on the Electrical Board section.
- Compared to traditional Plug-Fans, thanks to EC Inverter technology the overall efficiency and acoustic behaviour of the fans has been significantly improved. The blade geometry with a diagonal trailing edge has positive effects on the aerodynamic performance and on the running smoothness of the fans. The same is true for the implemented nozzle contour.
- The overall dimension of the section can be kept at minimum thanks to the fan dimension: the EC motor is integrated directly in the impeller. A belt drive between the motor and the fan, which is commonly used otherwise, is not necessary. This reduces the required installation volume and the associated installation effort.
- The EC Plug-Fans significantly exceed the ErP 2015 norm and the requirements of energy efficiency class A+ stated in German manufacturer's association RLT Directive 01, "General Requirements for Ventilation and Air-conditioning Devices".
- AHU fan section equipped with EC Inverter Plug-Fans is provided with the Automatic Regulation Control Systems for Constant Air Flow and Constant Available Static Pressure. An electronic device with pressure sensors on the system and control sensors on EC Plug-Fans adjust the flow rate and the available static pressure to keep the air flow constant.

Humidifier



Electrode humidifiers specifically designed for installation inside air handling units.

- The humidifier is constituted by two parts connected together electrically: the hydraulic part and the control unit based on a microprocessor board. The hydraulic part is completely inserted into the AHU, lying on the condensate drain tank immediately downstream of the cooling coil.
- The control is fully integrated in the microprocessor installed aboard the AHU.
- The hydraulic boiler is made up of plastic polypropylene "channel" having a section of 33 cm x 16 cm height, and having a length proportional to the width of the AHU. Inside the boiler are arranged longitudinally the stainless steel electrodes, connected to the power supply phases and easily removable. The lid is made of plastic sections with slope, so as to allow any condensation that falls by gravity into the boiler in order to avoid power losses.
- Between the plastic sections is obtained a narrow longitudinal slot which allows the output of the steam produced, that meets the air for the whole length of the AHU section.
- This solution prevents the formation of condensate in the pipes and also prevents any increase in steam pressure in the boiler due to blockages in the pipes conveying steam.

On one side of the kettle (the easiest to access once installed) you have the body of hydraulic management of the system

- Maximum water level sensor
- Draining bloc the draining bloc has been specially designed to empty the tank from water and limestone pieces without having to block and having to be able to work without pressure.

A electronic rotation sensor, rigidly grafted on the pivot motor, communicating with the microprocessor which manage the correct operation and shown in the display any faults that may appear.

Heat Recovery Section

Cross Flow Heat Recovery



The recovery unit efficiency has values up to 85%.

- The fixed plates static recovery units are air to air type, without moving parts, therefore working in a reliable and safe way. The air movement is in a crossed flow with heat transfer directly from higher temperature flow to the lower temperature one. The recovery unit efficiency has values up to 85%.
- This type of heat exchanger is made of pressed aluminium sheets, housed in a variable spacing depending on the use type.
- Sealings are made along the edges in order to prevent contamination on renewal air from polluting agents contained in exhaust air.

The normal supply foresees

- Recovery units with aluminium fins
- Cell prefilters COARSE 55% type (85% eff.) on fresh air side
- Galvanized steel sheet drain pan to collect possible condensation.

Heat Recovery Section

Heat Wheel Recovery Units



The working principle is the following

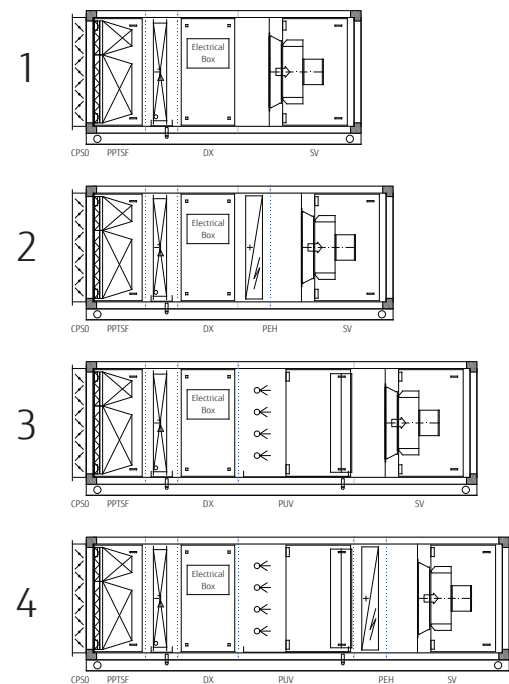
- The exhaust air crosses half circular rotor sector and gives part of its heat to the metallic mass. This, slowly wheeling, is invested from cold renewal air crossing in counterflow the other half of the exchanger, taking the heat given from the exhaust air. When rotor is hygroscopic type, also humidity contained into the exhaust air will be partially transferred to the renewal air.
- The words "warm air" and "cold air" of the above description are valid for winter working cycle; in summer cycle the functions of transfer and absorption of heat and humidity are evidently inverted.

Usually these type of recovery units are made as follows

- aluminium rotor
- galvanized steel sheet frame
- constant speed electric gearmotor

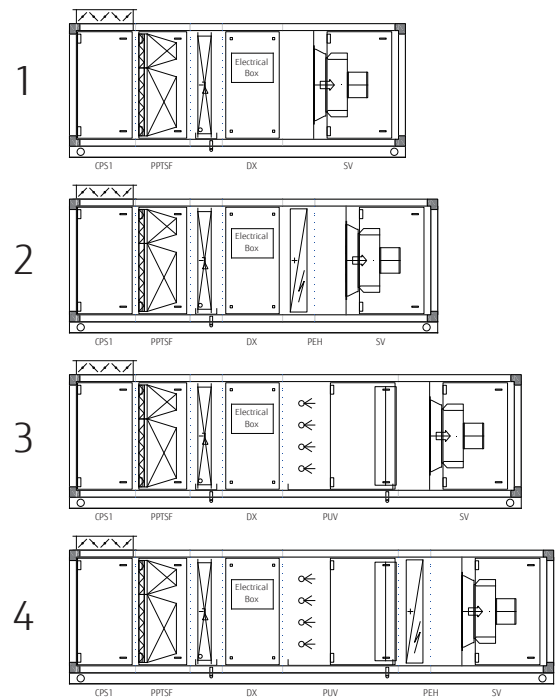
Dimensions

Configurations A



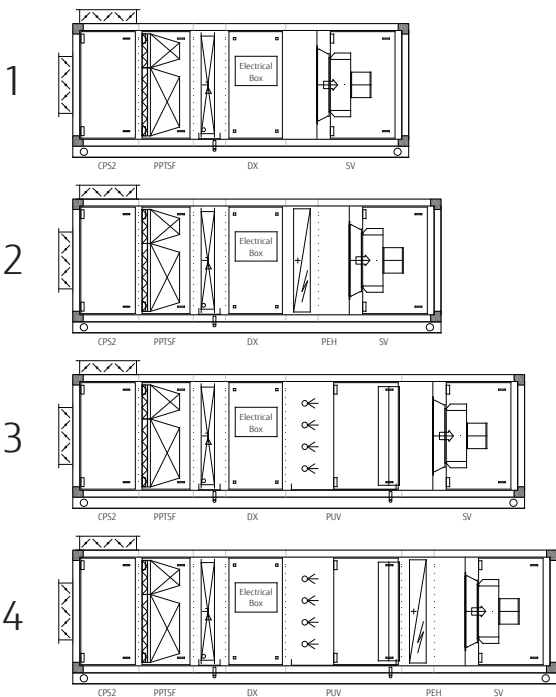
Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYA025GWAA	1	1,064	1,154	2,619	611	3,529
AHYA025GWAB	2	1,064	1,154	3,109	679	4,019
AHYA025GWAC	3	1,064	1,154	2,619	629	3,529
AHYA025GWAD	4	1,064	1,154	3,109	697	4,019
AHYA040GWAA	1	1,199	1,354	2,749	844	3,659
AHYA040GWAB	2	1,199	1,354	3,319	931	4,229
AHYA040GWAC	3	1,199	1,354	2,749	865	3,659
AHYA040GWAD	4	1,199	1,354	3,319	952	4,229
AHYA048GWAA	1	1,309	1,574	2,749	921	3,659
AHYA048GWAB	2	1,309	1,574	3,319	1,023	4,229
AHYA048GWAC	3	1,309	1,574	2,749	944	3,659
AHYA048GWAD	4	1,309	1,574	3,319	1,046	4,229
AHYA080GWAA	1	1,544	2,074	3,189	1,542	4,099
AHYA080GWAB	2	1,544	2,074	3,839	1,701	4,749
AHYA080GWAC	3	1,544	2,074	3,189	1,570	4,099
AHYA080GWAD	4	1,544	2,074	3,839	1,729	4,749
AHYA096GWAA	1	1,789	2,250	3,189	1,691	4,099
AHYA096GWAB	2	1,789	2,250	3,839	1,869	4,749
AHYA096GWAC	3	1,789	2,250	3,189	1,724	4,099
AHYA096GWAD	4	1,789	2,250	3,839	1,899	4,749

Configurations B



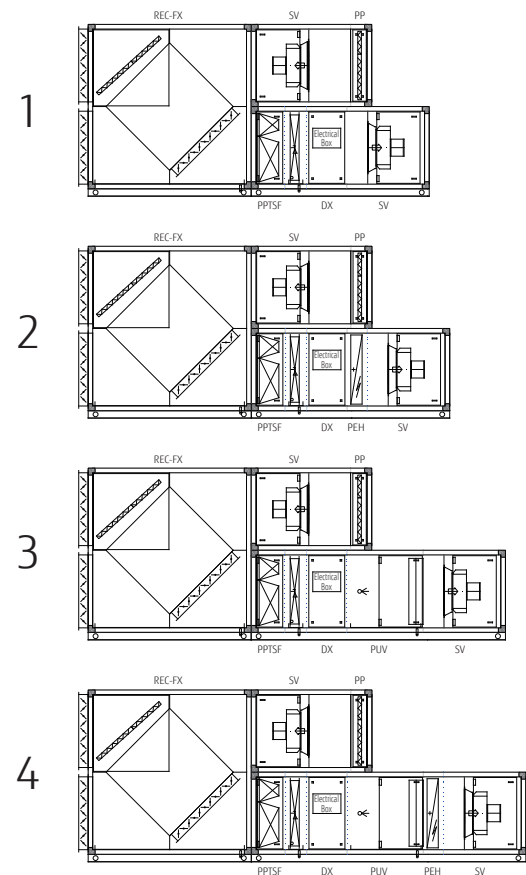
Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYB025GWAA	1	1,179	1,154	2,854	628	3,764
AHYB025GWAB	2	1,179	1,154	3,344	696	4,254
AHYB025GWAC	3	1,179	1,154	2,854	646	3,764
AHYB025GWAD	4	1,179	1,154	3,344	714	4,254
AHYB040GWAA	1	1,314	1,354	3,084	873	3,994
AHYB040GWAB	2	1,314	1,354	3,654	960	4,564
AHYB040GWAC	3	1,314	1,354	3,084	894	3,994
AHYB040GWAD	4	1,314	1,354	3,654	981	4,564
AHYB048GWAA	1	1,424	1,574	3,084	953	3,994
AHYB048GWAB	2	1,424	1,574	3,654	1,055	4,564
AHYB048GWAC	3	1,424	1,574	3,084	976	3,994
AHYB048GWAD	4	1,424	1,574	3,654	1,078	4,564
AHYB080GWAA	1	1,659	2,074	3,624	1,591	4,534
AHYB080GWAB	2	1,659	2,074	4,274	1,749	5,184
AHYB080GWAC	3	1,659	2,074	3,624	1,619	4,534
AHYB080GWAD	4	1,659	2,074	4,274	1,777	5,184
AHYB096GWAA	1	1,904	2,250	3,724	1,760	4,634
AHYB096GWAB	2	1,904	2,250	4,374	1,936	5,284
AHYB096GWAC	3	1,904	2,250	3,724	1,790	4,634
AHYB096GWAD	4	1,904	2,250	4,374	1,966	5,284

Configurations C



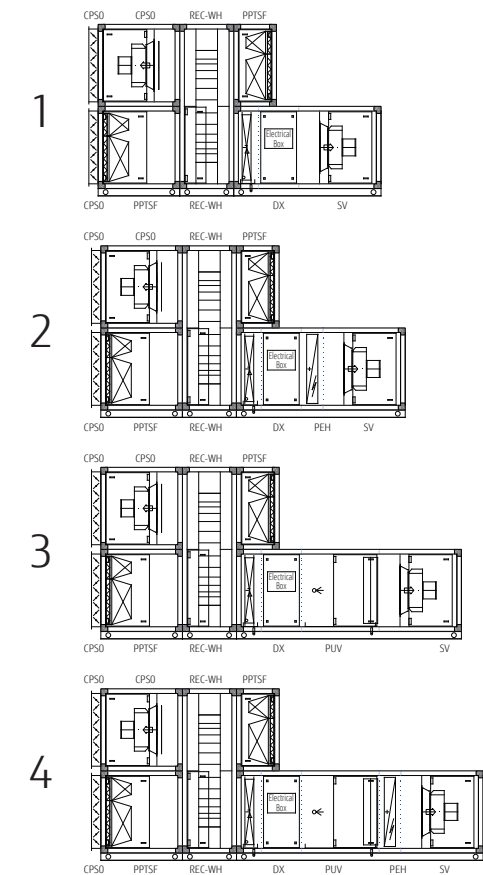
Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYC025GWAA	1	1,179	1,154	2,969	650	3,879
AHYC025GWAB	2	1,179	1,154	3,459	718	4,369
AHYC025GWAC	3	1,179	1,154	2,969	668	3,879
AHYC025GWAD	4	1,179	1,154	3,459	736	4,369
AHYC040GWAA	1	1,314	1,354	3,199	899	4,109
AHYC040GWAB	2	1,314	1,354	3,769	986	4,679
AHYC040GWAC	3	1,314	1,354	3,199	920	4,109
AHYC040GWAD	4	1,314	1,354	3,769	1,007	4,679
AHYC048GWAA	1	1,424	1,574	3,199	980	4,109
AHYC048GWAB	2	1,424	1,574	3,769	1,082	4,679
AHYC048GWAC	3	1,424	1,574	3,199	1,003	4,109
AHYC048GWAD	4	1,424	1,574	3,769	1,105	4,679
AHYC080GWAA	1	1,659	2,074	3,739	1,624	4,649
AHYC080GWAB	2	1,659	2,074	4,389	1,782	5,299
AHYC080GWAC	3	1,659	2,074	3,739	1,652	4,649
AHYC080GWAD	4	1,659	2,074	4,389	1,810	5,299
AHYC096GWAA	1	1,904	2,250	3,839	1,799	4,749
AHYC096GWAB	2	1,904	2,250	4,489	1,975	5,399
AHYC096GWAC	3	1,904	2,250	3,839	1,829	4,749
AHYC096GWAD	4	1,904	2,250	4,489	2,005	5,399

Configurations D



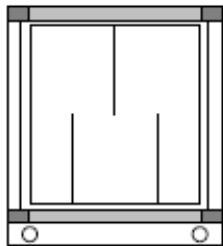
Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYD025GWAA	1	2028/1064	1424/1154	4,311	1,259	5,221
AHYD025GWAB	2	2028/1064	1424/1154	4,801	1,327	5,711
AHYD025GWAC	3	2028/1064	1424/1154	4,311	1,277	5,221
AHYD025GWAD	4	2028/1064	1424/1154	4,801	1,345	5,711
AHYD040GWAA	1	2298/1199	1574/1354	4,871	1,750	5,781
AHYD040GWAB	2	2298/1199	1574/1354	5,441	1,837	6,351
AHYD040GWAC	3	2298/1199	1574/1354	4,871	1,771	5,781
AHYD040GWAD	4	2298/1199	1574/1354	5,441	1,858	6,351
AHYD048GWAA	1	2518/1309	1824/1574	4,871	1,978	5,781
AHYD048GWAB	2	2518/1309	1824/1574	5,348	2,080	6,258
AHYD048GWAC	3	2518/1309	1824/1574	4,778	2,001	5,688
AHYD048GWAD	4	2518/1309	1824/1574	5,348	2,103	6,258
AHYD080GWAA	1	2988/1544	2,074	6,161	3,361	7,071
AHYD080GWAB	2	2988/1544	2,074	6,811	3,520	7,721
AHYD080GWAC	3	2988/1544	2,074	6,161	3,389	7,071
AHYD080GWAD	4	2988/1544	2,074	6,811	3,548	7,721
AHYD096GWAA	1	3478/1789	2,250	6,451	3,849	7,361
AHYD096GWAB	2	3478/1789	2,250	7,008	4,025	7,918
AHYD096GWAC	3	3478/1789	2,250	6,451	3,879	7,268
AHYD096GWAD	4	3478/1789	2,250	7,008	4,055	7,918

Configurations E



Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYE025GWAA	1	2028/1064	1429/1154	3,813	1,150	4,723
AHYE025GWAB	2	2028/1064	1429/1154	4,303	1,226	5,213
AHYE025GWAC	3	2028/1064	1429/1154	3,813	1,168	4,723
AHYE025GWAD	4	2028/1064	1429/1154	4,303	1,244	5,213
AHYE040GWAA	1	2298/1199	1729/1354	4,073	1,571	4,983
AHYE040GWAB	2	2298/1199	1729/1354	4,643	1,658	5,553
AHYE040GWAC	3	2298/1199	1729/1354	4,073	1,592	4,983
AHYE040GWAD	4	2298/1199	1729/1354	4,643	1,679	5,553
AHYE048GWAA	1	2518/1309	1829/1574	4,073	1,696	4,983
AHYE048GWAB	2	2518/1309	1829/1574	4,643	1,798	5,553
AHYE048GWAC	3	2518/1309	1829/1574	4,073	1,719	4,983
AHYE048GWAD	4	2518/1309	1829/1574	4,643	1,821	5,553
AHYE080GWAA	1	2988/1544	2374/2074	4,953	2,753	5,863
AHYE080GWAB	2	2988/1544	2374/2074	5,603	2,912	6,513
AHYE080GWAC	3	2988/1544	2374/2074	4,953	2,781	5,863
AHYE080GWAD	4	2988/1544	2374/2074	5,603	2,940	6,513
AHYE096GWAA	1	3478/1789	2582/2250	4,953	3,035	5,863
AHYE096GWAB	2	3478/1789	2582/2250	5,603	3,211	6,513
AHYE096GWAC	3	3478/1789	2582/2250	4,953	3,065	5,863
AHYE096GWAD	4	3478/1789	2582/2250	5,603	3,241	6,513

Silencer PI



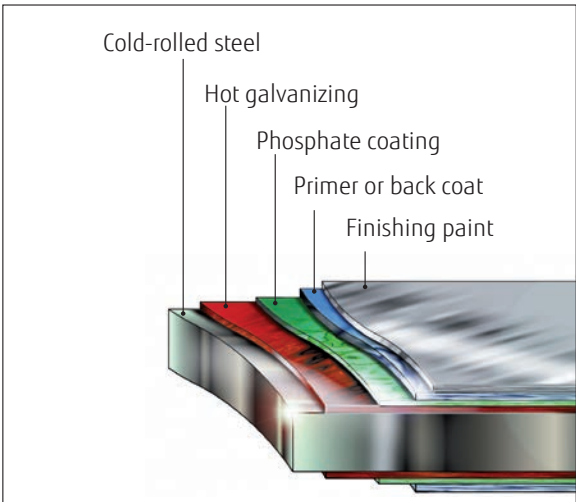
Connectable AHU model name	H (mm)	L (mm)	W (mm)	Kg
AHY* 025GWA*	1064	910	1154	209
AHY* 040GWA*	1199	910	1354	233
AHY* 048GWA*	1309	910	1574	274
AHY* 080GWA*	1544	910	2074	280
AHY* 096GWA*	1789	910	2250	444



Loose Accessories

Galvanized metal sheet roof

All units that must be positioned outside or generally speaking are exposed to the weather may be equipped with a hot-galvanized metal sheet roof (galvanization not less than 140 g/ m²) as accessory element. The roof overhang with regard to the unit outer dimensions is of about 100 mm. All roof corners are equipped with accident prevention protections.



Total Pressure Drops Calculation

AHU units, being controlled by EC Inverter Plug-Fans, can satisfy a high range of required air flow rate and static pressure.

The EC Inverter Plug-Fans can be set to different working conditions, according to the unit needs, directly on site through the control panel installed on the Electrical Board section.

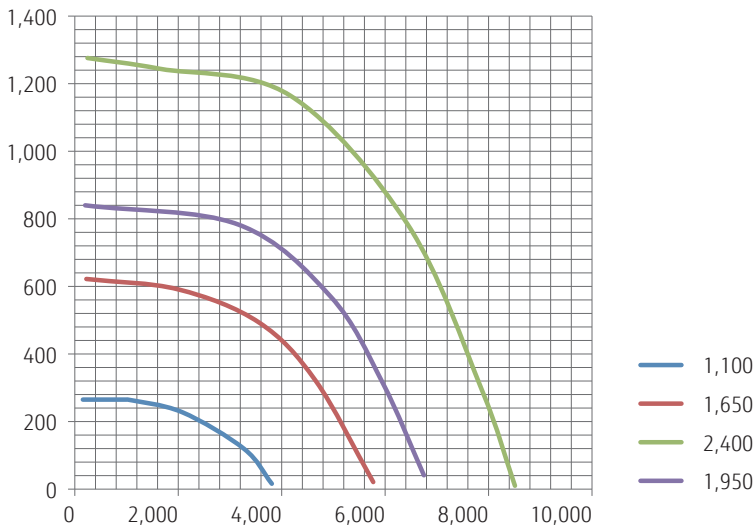
Procedure for selection

- Select the AHU model most suitable according the air volume.
 - Check the air flow static pressure operating point on the curve of the chosen fan by crossing the required air flow rate with the value of the overall static pressure.
- To calculate the total static pressure value refer to the Components Pressure Drop table and add the net static pressure required for the plant.



Fan Characteristic Curves

Fan type 400 mm

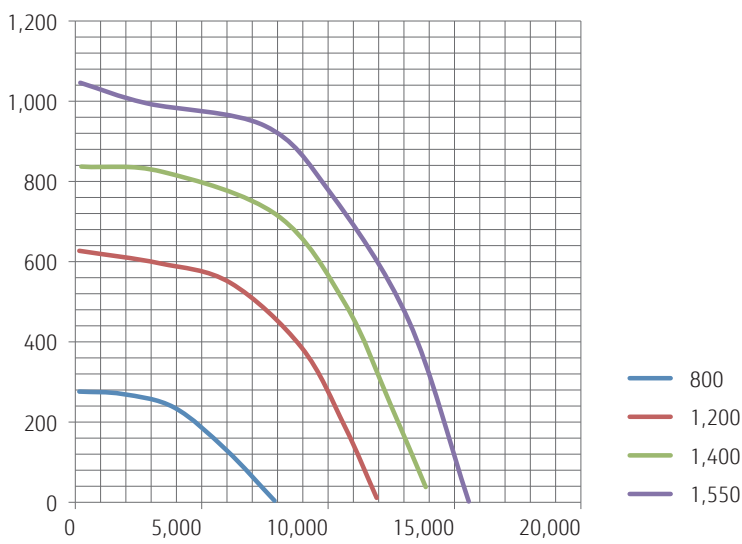


Components Pressure Drop table

ODU	AHU SIZE	MIN. NOM. MAX.	Airflow	Inlet damper (Config. A-E)	Inlet damper (Config. B-C)	COARSE 55% filters - supply	ePM1 50% filters	DX coil	Silencer	PHE + dampers + COARSE 55% filters-supply	PHE + damper -exhaust	COARSE 55% filters - exhaust (Config. D)	Heat wheel - supply	COARSE 55% filters - supply (Config. E)	ePM1 50% filters (Config. E)	Heat wheel - exhaust	COARSE 55% filters - exhaust (Config. E)	Exhaust damper (Config. E)	Humidifier	Electrical heater
			m³/h	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa
10HP	025	MIN.	4,300	1	12	91	156	55	26	206	120	91	162	93	144	159	84	7	-	-
		NOM.	4,500	1	13	98	158	59	28	210	122	95	167	93	146	165	95	8	-	-
		MAX.	5,000	2	16	99	164	71	36	235	147	96	187	95	150	185	96	10	-	-
14HP	040	MIN.	5,000	1	4	91	138	37	4	154	70	91	116	89	135	114	91	4	-	-
		NOM.	7,200	2	13	87	149	68	10	240	145	87	172	93	144	169	94	8	-	-
		MAX.	8,000	2	16	96	153	82	12	243	165	96	193	94	147	190	96	9	-	-
18HP	048	MIN.	8,100	1	12	96	153	50	10	225	139	92	167	94	147	165	92	9	-	-
		NOM.	8,600	1	13	97	156	55	11	241	155	93	178	95	149	176	93	10	-	-
		MAX.	9,100	2	15	98	159	60	13	257	171	93	189	95	152	187	93	11	-	-
2X 14HP	080	MIN.	11,000	1	8	91	140	30	9	148	62	90	121	90	137	119	90	6	-	-
		NOM.	14,500	2	14	94	148	47	16	188	101	93	163	93	143	161	93	10	-	-
		MAX.	16,100	2	17	96	153	56	19	209	122	94	183	94	147	180	94	13	-	-
2X 18HP	096	MIN.	16,000	1	10	96	152	37	16	157	74	91	146	92	142	144	91	10	-	-
		NOM.	17,300	1	11	97	156	42	19	168	86	92	159	93	145	157	92	11	-	-
		MAX.	18,100	1	13	98	158	46	21	175	93	92	167	93	146	165	92	13	-	-

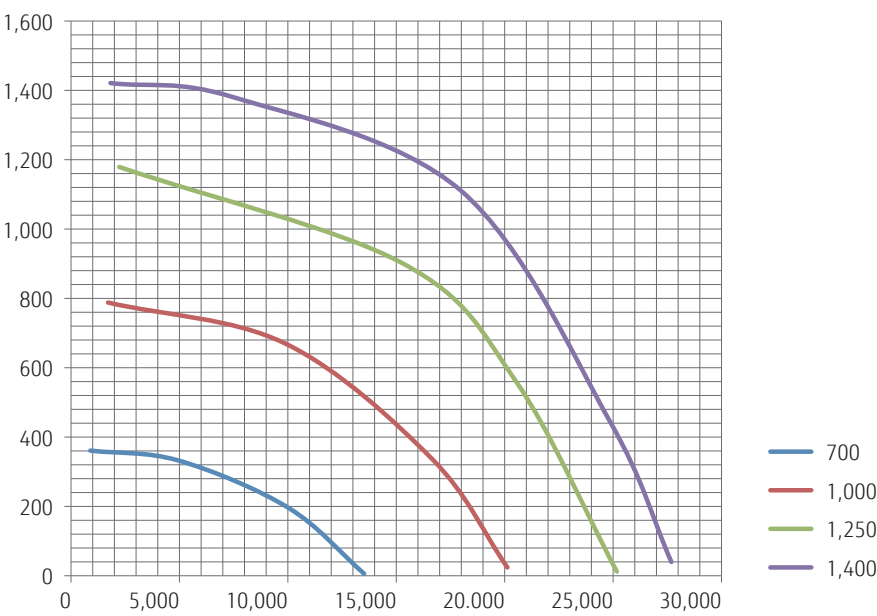
fan type	m³/h	Pa Total static pressure	W	n	LwAin	LwAout
				[1/min]	[dB]	[dB]
400 mm	156	265	124	1100	63	71
400 mm	334	265	134	1100	63	70
400 mm	1002	265	187	1100	62	69
400 mm	1025	265	181	1100	62	69
400 mm	2072	228	234	1100	58	66
400 mm	3275	119	224	1100	62	69
400 mm	3809	16	173	1100	69	74
400 mm	223	622	352	1650	75	82
400 mm	2005	591	642	1650	72	79
400 mm	3564	493	767	1650	68	75
400 mm	4656	321	708	1650	71	77
400 mm	5770	21	487	1650	79	83
400 mm	200	840	509	1950	79	86
400 mm	3163	783	1154	1950	74	81
400 mm	4946	570	1223	1950	74	80
400 mm	5948	316	1027	1950	78	83
400 mm	6750	41	773	1950	83	87
400 mm	245	1276	921	2400	85	92
400 mm	1649	1244	1497	2400	86	92
400 mm	4163	1165	2223	2400	81	87
400 mm	6438	783	2237	2400	81	87
400 mm	7864	296	1738	2400	86	91
400 mm	8510	10	1389	2392	89	93

Fan type 560 mm



fan type	m³/h	Pa Total static pressure	W	n	LwAin	LwAout
				[1/min]	[dB]	[dB]
560 mm	158	276	209	800	65	72
560 mm	1861	270	345	800	65	71
560 mm	3921	236	438	800	61	67
560 mm	5980	130	452	800	62	67
560 mm	7881	4	313	800	69	74
560 mm	158	627	591	1200	77	83
560 mm	3327	596	1164	1200	75	82
560 mm	6139	547	1471	1200	71	77
560 mm	8950	386	1473	1200	72	78
560 mm	10653	190	1212	1200	76	82
560 mm	11921	11	936	1200	80	85
560 mm	238	837	901	1400	80	87
560 mm	3446	824	1743	1400	80	87
560 mm	8000	715	2403	1400	75	81
560 mm	10693	493	2260	1400	76	82
560 mm	12475	243	1859	1400	80	86
560 mm	13861	38	1521	1400	85	89
560 mm	198	1046	1210	1550	84	90
560 mm	2812	995	2086	1550	84	91
560 mm	7485	939	3131	1550	78	84
560 mm	10059	774	3249	1550	77	84
560 mm	13188	453	2901	1550	82	88
560 mm	15564	2	1948	1550	91	94

Fan type 710 mm



fan type	m³/h	Pa Total static pressure	W	n	LwAin	LwAout
				[1/min]	[dB]	[dB]
710 mm	891	361	744	700	71	77
710 mm	4975	332	1290	700	69	74
710 mm	10025	196	1427	700	69	75
710 mm	13515	6	880	700	77	83
710 mm	1708	788	1693	1000	81	88
710 mm	9876	670	3179	1000	77	83
710 mm	16634	338	3084	1000	80	86
710 mm	20124	24	2177	1000	87	93
710 mm	2228	1179	3015	1250	87	94
710 mm	15297	901	6054	1250	83	89
710 mm	20495	563	5794	1250	86	92
710 mm	25173	12	3857	1250	92	98
710 mm	1821	1421	3716	1400	89	96
710 mm	7500	1380	5851	1400	89	95
710 mm	17996	1110	8301	1400	86	92
710 mm	24855	445	6916	1400	91	98
710 mm	27685	40	5271	1400	95	101

Specifications

Configuration A-B-C						
Model FG		025	040	048	080	096
Model name		AHYA025GWA* AHYB025GWA* AHYC025GWA*	AHYA040GWA* AHYB040GWA* AHYC040GWA*	AHYA048GWA* AHYB048GWA* AHYC048GWA*	AHYA080GWA* AHYB080GWA* AHYC080GWA*	AHYA096GWA* AHYB096GWA* AHYC096GWA*
Casing						
Material		Outer skin in 0.6 mm pre-painted galvanized sheet; inner skin in 0.6 mm galvanized sheet				
Insulation		PU foam, 50 mm thickness, 45 kg/m³				
Performances						
Cooling capacity	kW	25	40	48	78	96
Heating capacity	kW	31.5	45	50	81.5	100
Available static pressure	Pa	200	200	200	200	200
Power supply	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Air flow						
Max.	m³/h	5000	8000	9100	16100	18100
Rated	m³/h	4500	7200	8600	14500	17300
Min.	m³/h	4300	5000	8100	11000	16000
Cross flow heat recovery						
Efficiency (*)	%	—	—	—	—	—
DX Coil						
Rows	n°	4				
Coil type		25x22 - 3/8"				
Coil duty		Cooling - Heating				
Fluid		R410A				
Pipes material		Copper				
Fins material		Aluminium				
Electrical heating						
Stages	n°	3				
Heating capacity	kW	9	15	18	30	36
Humidifier						
Fix steam capacity	kg/h	15	25	30	45	60
Fan						
Type		EC Plug Fan				
Motor data	mm	400	560	560	710	710
	kW	2.4	3.4	3.4	7.3	7.3
Thermal transmittance of the casing(TT) class		T3	T3	T3	T3	T3
Thermal bridging factor(TBF) class		TB3	TB3	TB3	TB3	TB3
Casing strength(CS) class		D2(M)	D2(M)	D2(M)	D2(M)	D2(M)
Casing air leakage(CAL) class@-400Pa		L2(M)	L2(M)	L2(M)	L2(M)	L2(M)
Casing air leakage(CAL) class@+700Pa		>L3(M)	>L3(M)	>L3(M)	>L3(M)	>L3(M)
Filter bypass leakage (FBL) class		F9(M)	F9(M)	F9(M)	F9(M)	F9(M)

(*) at rated air flow

		Configuration D				
Model FG		025	040	048	080	096
Model name		AHYD025GWA*	AHYD040GWA*	AHYD048GWA*	AHYD080GWA*	AHYD096GWA*
Casing						
Material		Outer skin in 0,6 mm pre-painted galvanized sheet; inner skin in 0,6 mm galvanized sheet				
Insulation		PU foam, 50 mm thickness, 45 kg/m³				
Performances						
Cooling capacity	kW	25	40	48	78	96
Heating capacity	kW	31.5	45	50	81.5	100
Available static pressure	Pa	200	200	200	200	200
Power supply	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Air flow						
Max.	m³/h	5000	8000	9100	16100	18100
Rated	m³/h	4500	7200	8600	14500	17300
Min.	m³/h	4300	5000	8100	11000	16000
Heat recovery						
Efficiency (*)	%	73.3	74.4	74.2	73.7	73.6
DX Coil						
Rows	n°	4				
Coil type	25x22 - 3/8"					
Coil duty	Cooling - Heating					
Fluid	R410A					
Pipes material	Copper					
Fins material	Aluminium					
Electrical heating						
Stages	n°	3				
Heating capacity	kW	9	15	18	30	36
Humidifier						
		15	25	30	45	60
Fan						
Type	EC Plug Fan					
Motor data	mm					
	kW	2.4	3.4	3.4	7.3	7.3
Thermal transmittance of the casing(TT) class		T3	T3	T3	T3	T3
Thermal bridging factor(TBF) class		TB3	TB3	TB3	TB3	TB3
Casing strength(CS) class		D2(M)	D2(M)	D2(M)	D2(M)	D2(M)
Casing air leakage(CAL) class@-400Pa		L2(M)	L2(M)	L2(M)	L2(M)	L2(M)
Casing air leakage(CAL) class@+700Pa		>L3(M)	>L3(M)	>L3(M)	>L3(M)	>L3(M)
Filter bypass leakage (FBL) class		F9(M)	F9(M)	F9(M)	F9(M)	F9(M)

Configuration E				
025	040	048	080	096
AHYE025GWA*	AHYE040GWA*	AHYE048GWA*	AHYE080GWA*	AHYE096GWA*
Outer skin in 0,6 mm pre-painted galvanized sheet; inner skin in 0,6 mm galvanized sheet				
PU foam, 50 mm thickness, 45 kg/m³				
25	40	48	78	96
31.5	45	50	81.5	100
200	200	200	200	200
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
5000	8000	9100	16100	18100
4500	7200	8600	14500	17300
4300	5000	8100	11000	16000
75.6	74.7	74.2	75.3	75.6
4				
25x22 - 3/8"				
Cooling - Heating				
R410A				
Copper				
Aluminium				
3				
9	15	18	30	36
15	25	30	45	60
EC Plug Fan				
2.4	3.4	3.4	7.3	7.3
T3	T3	T3	T3	T3
TB3	TB3	TB3	TB3	TB3
D2(M)	D2(M)	D2(M)	D2(M)	D2(M)
L2(M)	L2(M)	L2(M)	L2(M)	L2(M)
>L3(M)	>L3(M)	>L3(M)	>L3(M)	>L3(M)
F9(M)	F9(M)	F9(M)	F9(M)	F9(M)

(*) at rated air flow

Control System

AHU units include built-in electrical panel and expansion valve with PCB control. Set point is fixed via standard wired control.
The cooling load is determined by the air return temperature and set point on the wired control.

AHU Controller

UTY-TXUX



Features

- Easy to install. Control connects to AHU PLC.
- Able to install the control after building decoration.
- Mode lock function: user can lock the running mode of Air Handling Unit.

Easy Opration

The remote controller realized an intuitive operation feeling by touch panel operation.

Functions

- Schedule setting change
- Set temperature and humidity
- Ambient's name
- Alarms setting
- Event setting

Specifications

Model name		UTY-TXUX
Format	mm	120 × 86 × 25
Display		Display touch color 3.5" 320 × 240
Power supply		24 Vac - 24 Vac/dc
Analogue inputs		1 × Integrated NTC
Connectivity		RS485 - Modbus SL, USB Micro-B (debug and programming)
Operating temperature		0 - +50 °C

System Controller

UTY-APGXZ1 Software

Features

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, 1,600 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.

Max. Controllable
4 VRF network systems

Max. Controllable
400 outdoor units

Max. Controllable
1,600 indoor units



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

UTY-ALGXZ1 + UTY-PLGXX2 Software

Features

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.

Max. Controllable
1 VRF network systems

Max. Controllable
100 outdoor units

Max. Controllable
400 indoor units



VRF indoor units

Facilities

Lightning

Ventilation

Energy Recovery Ventilator

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	●	—	●	—	—	—
	Individual management	Outdoor unit low noise setting	●	—	●	—	—	—
		Remote control prohibition setting	●	—	●	—	—	—
		Temperature upper and lower limit setting	●	—	●	—	—	—
	Other	Filter sign reset	●	—	●	—	—	—
		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	—	●	—	—	●	—	—
Energy saving management	Electricity meter supported	—	●	—	—	●	—	—
	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 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [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]) • 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 × 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) • USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) – Maximum of 2 USB ports are required for WHITE-USB-KEY/WibuKey connection – Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * 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) • USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) – Maximum of 4 USB ports are required for WHITE-USB-KEY/WibuKey connection – 1 USB port is required for Echelon® U10 USB Network Interface * The maximum number of required USB port depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	
Software	Adobe® Acrobat 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	Remote access	Option Electricity charge apportionment	Energy saving	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.

Light Commercial & Commercial, Residential

CONTROL SYSTEM & OPTIONAL PARTS

- C-002 Control System Overview
- C-006 Best Control Solution for Each Property
- C-008 Comparison Table of Controllers
- C-052 Optional Parts Overview

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



INDIVIDUAL CONTROL

- C-010 Wired Remote Controller (Touch Panel)
- C-012 Wired Remote Controller Compact Wired Remote Controller
- C-013 Simple Remote Controller

CONVERTOR/ADAPTOR

- C-014 Wireless LAN Interface
- C-015 MODBUS® Convertor KNX® Convertor
- C-016 MODBUS® Interface
- C-017 KNX® Interface
- C-018 Wireless LAN Interface
- C-019 Multi Protocol Wireless LAN Interfaces
- C-020 BACnet® Gateway External Switch Controller



INDIVIDUAL CONTROL

- C-021 Wired Remote Controller
- C-022 Wireless Remote Controller
- C-023 IR Receiver Unit

CENTRALIZED CONTROL

- C-024 Central Remote Controller

CONVERTOR/ADAPTOR

- C-025 Network Convertor for Single Split



INDIVIDUAL CONTROL

- C-026 Wireless Remote Controller IR Receiver Unit For Duct, Cassette

CENTRALIZED CONTROL

- C-027 Central Remote Controller
- C-028 Touch Panel Controller
- C-032 System Controller **Software** System Controller Lite **Software**

CONVERTOR/ADAPTOR

- C-036 BACnet® Gateway **Software**
- C-037 BACnet® Gateway **Hardware** Multi Protocol LAN Interfaces
- C-038 BACnet® / MODBUS® Router
- C-039 BACnet® / MODBUS® Cloud device
- C-040 MODBUS® Convertor
- C-041 KNX® Convertor
- C-042 Signal Amplifier Network Convertor for LONWORKS®

- C-044 Control System List

OPTIONAL PARTS



- C-054 Auto Louver Grille Kit



- C-056 Pressure Sensor Kit
- C-057 External Power Supply Unit

- C-057 AIR BEAM Radiation Air Outlet Unit
- C-058 Optional Parts List
- C-062 Function List
- C-066 Separation Tube etc.



SPLIT



MULTI-SPLIT



VRF J Series



VRF V Series

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.

*: Except for some products

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

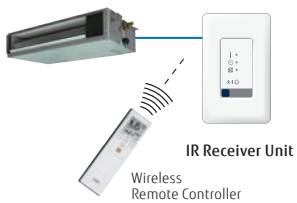


Simple Remote Controller
Compact remote controller provides access to basic functions

For Ceiling type



For Duct type



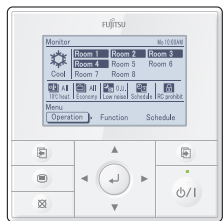
For Cassette type



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

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.

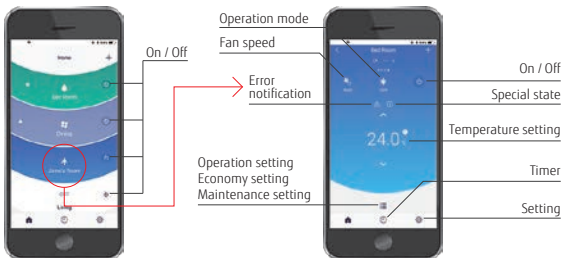
Wireless LAN Interface

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



Simple design and user friendly interface

The new design more user friendly screen display allows you to operate easier than ever before.



Converter/Adaptor

For external control via BMS/Home Automation Systems

MODBUS® Converter
For indoor unit
UTY-VMSX



MODBUS® Interface
For indoor unit



KNX® Converter
For indoor unit
UTY-VKSX



KNX® Interface
For indoor unit



Wireless LAN Interface



Network Converter

(DC power supply)
UTY-VTGX



(AC power supply)
UTY-VTGXV



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



Compact Wired Remote Controller
UTY-RCRYZ1



Simple Remote Controller
UTY-RSRY
UTY-RHRY
Without operation mode



Wireless Remote Controller
UTY-LNHY



IR Receiver Unit
UTB-YWC For Duct

For Duct
For 1-Way Flow Cassette/
3D Flow Cassette/
Duct

UTY-TRHX
For 1-Way Flow Cassette
3D Flow Cassette/Duct



For Cassette
For Circular Flow Cassette

UTY-LRHYB1 For Cassette
UTY-LBHXD
For Circular Flow Cassette

Air Conditioning Centralized Control



System Controller (Software)
UTY-APGXZ1/UTY-ALGXZ1 (Lite edition)

*1: USB Adaptor: Echelon® U10 USB Network Interface
*2: Lite edition is max. controllable 400 indoor units

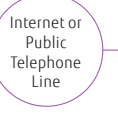


Remote/
Monitoring side

Maximum
Controllable
1600
indoor units^{*2}



Touch Panel Controller
UTY-DTGYZ1



Maximum
Controllable
400
indoor units



Central Remote Controller
UTY-DCGYZ1

Maximum
Controllable
100
indoor units

Convertor/Adaptor

For external control via BMS/Home Automation Systems

BACnet® Gateway
UTY-ABGXZ1 **Software**



BACnet® Gateway
Hardware



Network Converter
(For LONWORKS®)
UTY-VLGX



MODBUS® Converter
For indoor unit
UTY-VMSX



MODBUS® Converter



KNX® Converter
For indoor unit
UTY-VKSX



KNX® Converter
For VRF



Wireless LAN Interface
UTY-TFSXZ1



External Switch Controller
UTY-TERX



Card-key
(Locally purchased)



Convertor/Adaptor

For system expansion

Network Converter
(DC power supply)
UTY-VTGX



Network Converter
(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 Converter for LONWORKS®	MODBUS® Convertor	KNX® Convertor
	UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM, UTY-RCRYZ1	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	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	Network Converter for LONWORKS®	MODBUS® Convertor	KNX® Convertor	External Switch Controller
	UTY-RNRYZ3, UTY-RLRY, UTY-RCRYZ1	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-LNHY, UTY-LNTY	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	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	Network Converter for LONWORKS®	MODBUS® Convertor	KNX® Convertor	External Switch Controller
	UTY-RNRYZ3, UTY-RLRY, UTY-RCRYZ1	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-LNHY, UTY-LNTY	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	Compact 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)	Central Remote Controller	Touch Panel Controller	System Controller Lite 	System Controller 
Model name		UTY-RNRYZ3	UTY-RLRY	UTY-RVNYM	UTY-RCRYZ1	UTY-RSNYM	UTY-RSRY		UTY-RHRY	UTY-LNHY	UTY-LNTY	UTY-DMMYM	UTY-DCGYZ1	UTY-DTGYZ1	UTY-ALGXZ1	UTY-APGXZ1
Max. controllable remote controller groups		1	1	1	1	1	1		1	1	1	1	100	400	400	1600
Max. controllable indoor units		16	16	16	1	16	16		16	16	16	8	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	●	●	●	●	●	●		●	—	—	●	●	●	●	●
	Address display	●	●	●	●	●	●		●	—	—	—	—	●	●	●
	Room temp	●	—	●	●	—	●		●	—	—	—	●*4	●*4	●*4	●*4
	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	Year	Year	Year
		On/off, Temp, Mode, Times per day	8	4	8	—	—		—	—	—	4	20	20	144	144
	On/off timer		●	●	●	●(OFF only)	—		—	●	●	—	—	—	—	—
	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
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	● 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. *4 This function is available only when using wired remote controller.
●: Supported ○: Optional function —: Not supported yet

Wired Remote Controller (Touch Panel)

UTY-RNRYZ3



Maximum Controllable
16 indoor units
Maximum 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

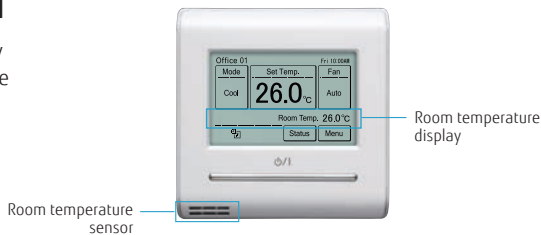
High performance and compact size

In addition to the individual control, weekly timer, and various energy saving controls can be realized using one remote controller only.



Accurate and comfortable control

Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller.



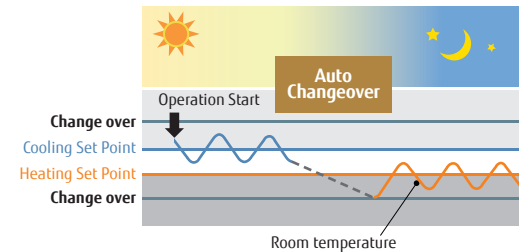
Various energy saving control

Custom Auto

- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.

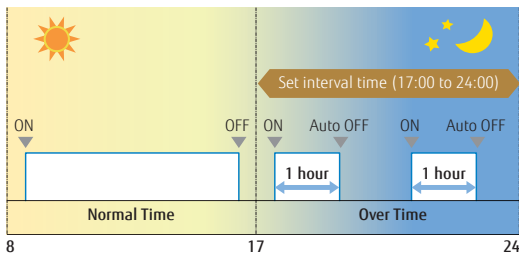
* This function is not available for some models.

Cooling set temp. 27°C, Heating set temp. 26°C



Auto OFF timer

- The indoor unit automatically is turned off when it reaches 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



Ex.) At interval time hour (17:00 to 24:00) to prevent forgetting to turn off
Set off time : 1 hour

2 schedules Weekly Timer

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

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

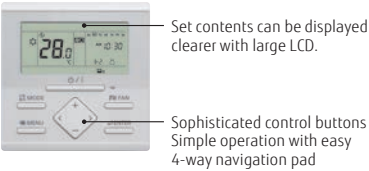
High performance and compact size

In addition to the individual control, weekly timer, and various energy saving controls can be realized using only one remote controller.



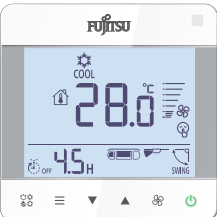
High visibility and easy operation

- “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.



Compact Wired Remote Controller

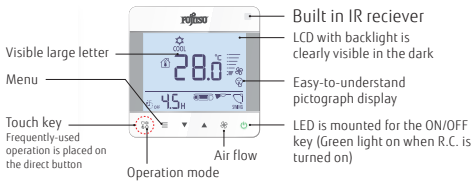
UTY-RCRYZ1



- Simple design to match the stylish interior
- Easy to install : Body of controller is designed to fit in European standard junction box
- Can be operated both by wireless and wired remote controller.
- 2-wire type

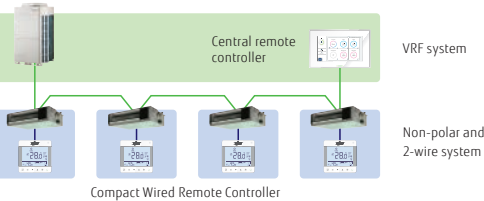
Large screen and simple display

- Although the size is compact, the screen is large
- Large letters makes it easy to see
- Operation is simple and easy-to-understand



System overview

VRF connection



RAC connection



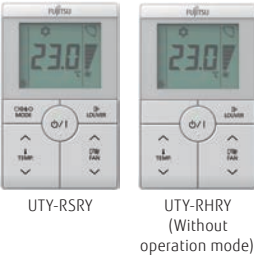
Specifications

Model name	UTY-RLRY	UTY-RCRYZ1
Power Source	DC 12 V	DC12V
Dimensions (H × W × D) (mm)	120 × 120 × 17	86 × 86 × 44
Weight (g)	170	135

DC 12 V is supplied by the indoor unit.

Simple Remote Controller

UTY-RSRY / UTY-RHRY (Without operation mode)



Compact remote controller provides access to basic functions

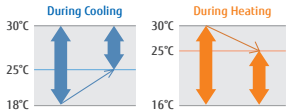
- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Stylish design: Simple design to match the stylish interior.
- Large LCD screen & simple operation buttons
- Backlight: White colored backlight on monitor enable easy operation in dark.
- 2-wire type

Corresponding to various applications

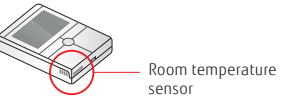
- **Vertical louver control:** Vertical air flow direction can be adjusted for Duct types with auto louver and Cassette types, which are installed in hotels and conference rooms, can be adjusted.



- **Room temperature set point limitation:** The Simple Remote Controller can manage to energy saving operation in small buildings without the central control unit.

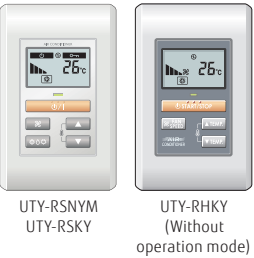


- **Built in room temperature sensor:** The Simple Remote Controller detects actual room temperature and controls room climate accuracy.



Simple Remote Controller

UTY-RSRY, UTY-RSKY/UTY-RHKY (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.

Specifications

Model name	UTY-RSRY	UTY-RHRY	UTY-RSRY, 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.

Wireless LAN Interface

UTY-TFNXZ1 / UTY-TFSXZ1, UTY-TFSXW1, UTY-TFSXF2



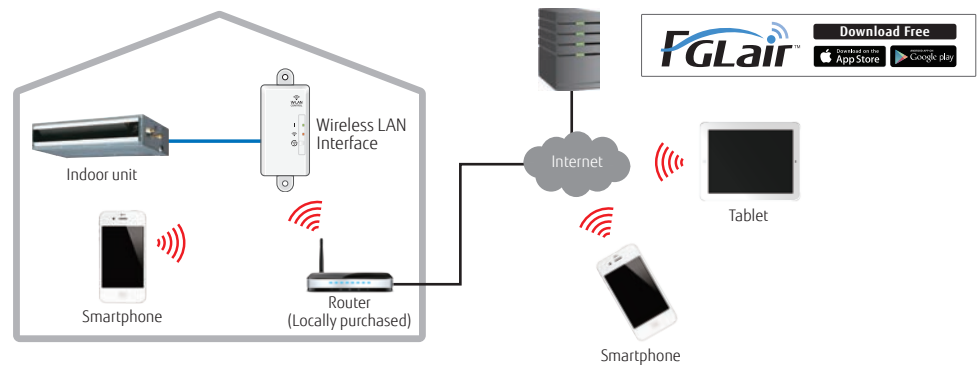
USB type for single split models
UTY-TFSXF2



UTY-TFNXZ1 UTY-TFSXW1
(3 wire RC line type) (CN connector type)
UTY-TFSXZ1
(CN connector type)

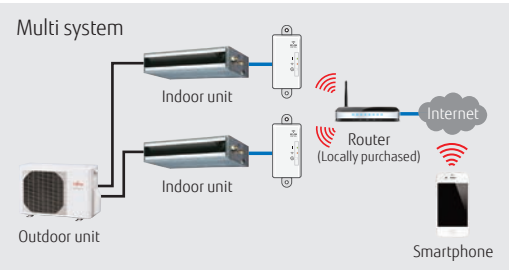
Maximum Connectable
1 Single indoor unit

- 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



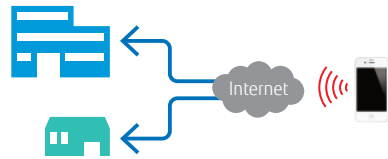
Basic control

- 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



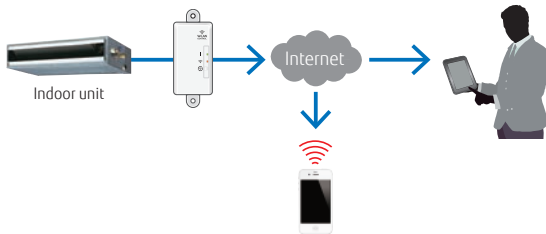
Multiple air conditioning management

- 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.



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(3 wire RC line type)	UTY-TFSXZ1(CN connector type)	UTY-TFSXW1(CN connector type)	UTY-TFSXF2
Dimensions (H × W × D) (mm)	71 × 38 × 15	71 × 38 × 15	71 × 38 × 15	56.7 × 34 × 9.72
Weight (g)	35	35	35	30

MODBUS® Convertor for Indoor Unit

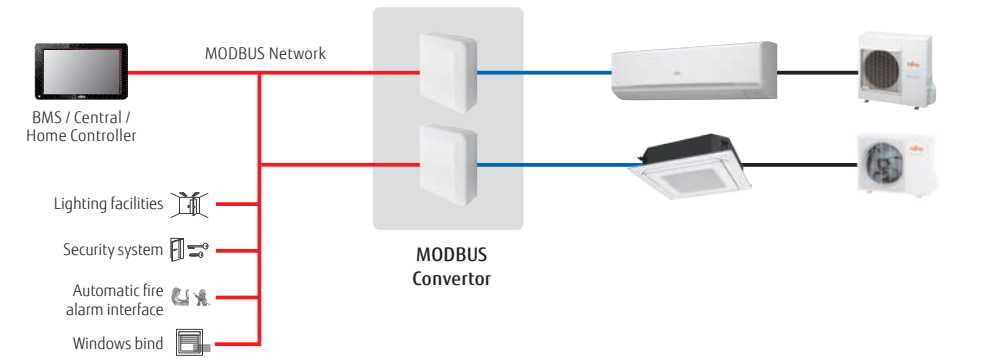
UTY-VMSX



Maximum 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.

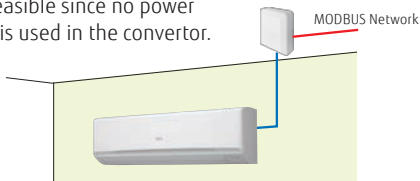


Basic control

- 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

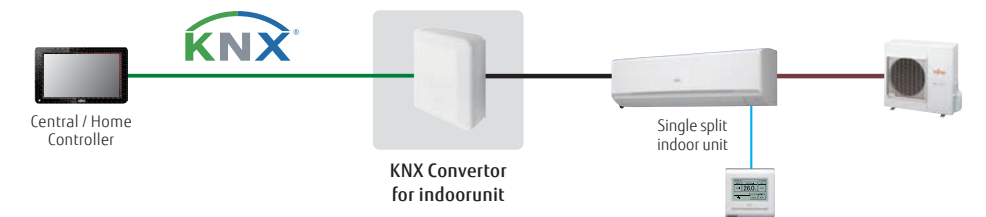
UTY-VKSX



Maximum 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

MODBUS® Interface

FJ-RC-MBS-1 / FG-AC-MBS1Z1



FJ-RC-MBS-1
(3wire RC line type)

NEW



FG-AC-MBS1Z1
(CN connector type)

Maximum Connectable

1 Single indoor unit

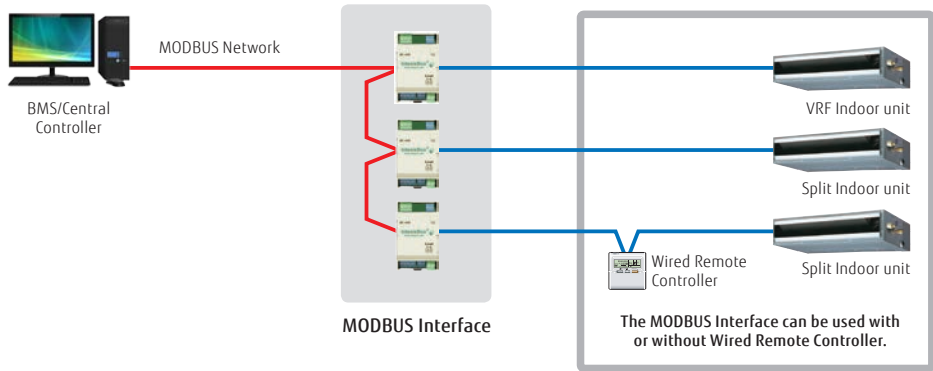
Specifications

Model name	FJ-RC-MBS-1 (3wire RC line type)	FG-AC-MBS1Z1 (CN connector type)
Number of controllable group	1	1
Dimensions (H × W × D) (mm)	93 × 53 × 58	93 × 53 × 58
Weight (g)	85	85

The MODBUS Interface allows a complete integration of air conditioners into MODBUS Networks.

- Can be installed on DIN rail easily 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.

Installation example



KNX® Interface

FJ-RC-KNX-1i / FG-AC-KNX1Z1 / FG-IR-KNX1Z1



FJ-RC-KNX-1i
(3wire RC line type)

NEW



FG-AC-KNX1Z1
(CN connector type)

NEW



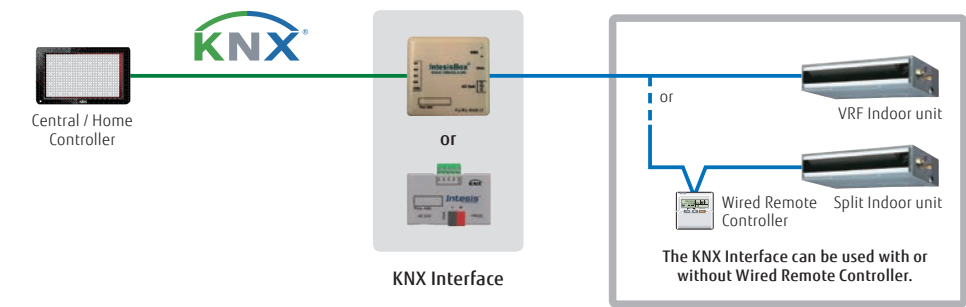
FG-IR-KNX1Z1
(IR type)

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).

Installation example

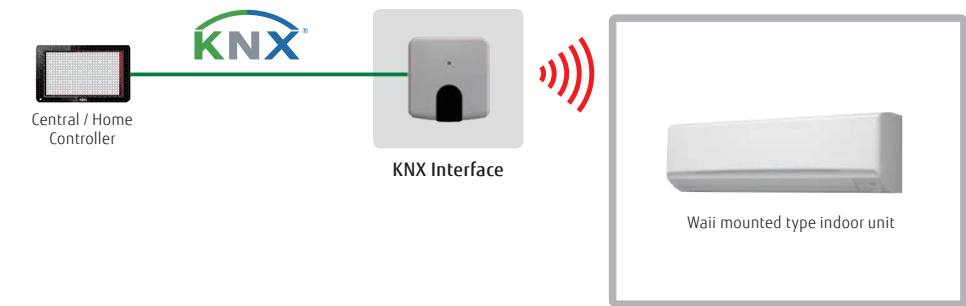
[3wire RC line type / CN connector type]



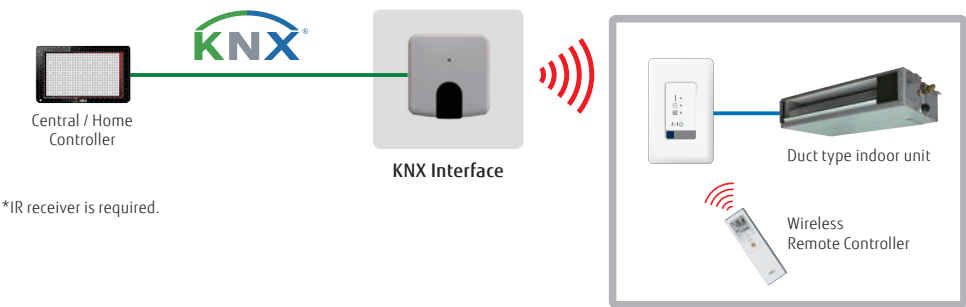
Maximum Connectable

1 Single indoor unit

[IR type] Connection to Wall mounted type



[IR type] Connection to the product other than Wall mounted type



Specifications

Model name	FJ-RC-KNX-1i (3wire RC line type)	FG-AC-KNX1Z1 (CN connector type)	FG-IR-KNX1Z1 (IR type)
Number of controllable group	1	1	1
Dimensions (H × W × D) (mm)	70 × 70 × 28	45 × 59 × 21	81 × 78 × 28
Weight (g)	70	35	76

Wireless LAN Interface

FJ-RC-WIFI-2 / FG-IR-WIF1Z1 / FG-AC-WIF1Z1



FJ-RC-WIFI-2
(3wire RC line type)

NEW



FG-AC-WIF1Z1
(CN connector type)

NEW



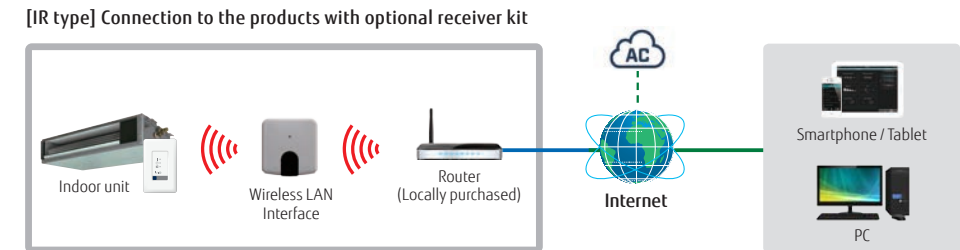
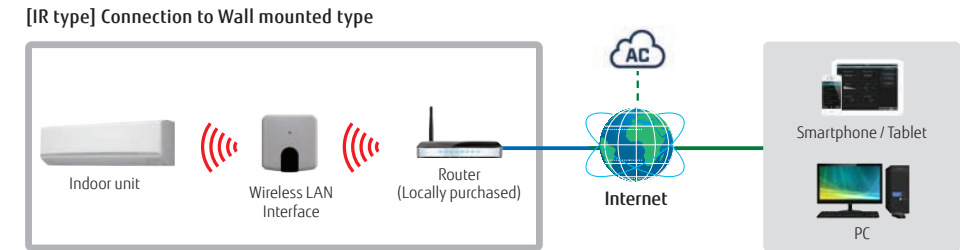
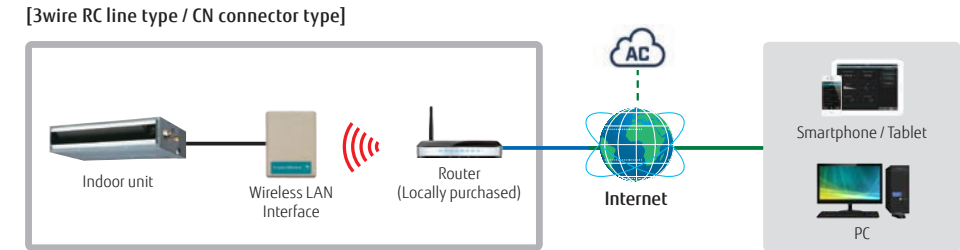
FG-IR-WIF1Z1
(IR type)

Maximum Connectable
1 Single indoor unit

AC Cloud Control

- It is the most advanced solution to remotely manage an Air Conditioning system using all kind of mobile devices such as Smartphones, Tablets and PC
- No separate external power supply required

Installation example



*IR receiver is required

Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Louver position (Airflow direction setting)
- Fan speed setting
- Room temperature display
- Set temperature control
- Multi Language
- One Scene and Timer

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
- Multiple Scenes & Timers and Calendar function
- Smart Speaker compatibility
- Advanced internet service connections

Notifications and history

- Alerts e-mail notification
- Air conditioning malfunction alerts
- Connectivity monitoring and alerts
- History (future release)

Specifications

Model name	FJ-RC-WIFI-2 (3wire RC line type)	FG-AC-WIF1Z1 (CN connector type)	FG-IR-WIF1Z1 (IR type)
Number of controllable group	1	1	1
Dimensions (H × W × D) (mm)	108 × 70 × 28	81 × 78 × 28	127 × 50 × 17
Weight (g)	80	76	80

Multi Protocol Wireless LAN Interfaces

FG-RC-WMP1Z1 / FG-IR-WMP1Z1 / FG-AC-WMP1Z1



NEW



FG-RC-WMP1Z1
(3wire RC line type)

NEW



FG-AC-WMP1Z1
(CN connector type)

NEW



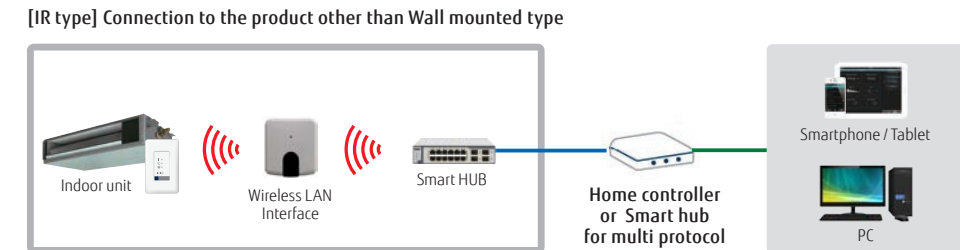
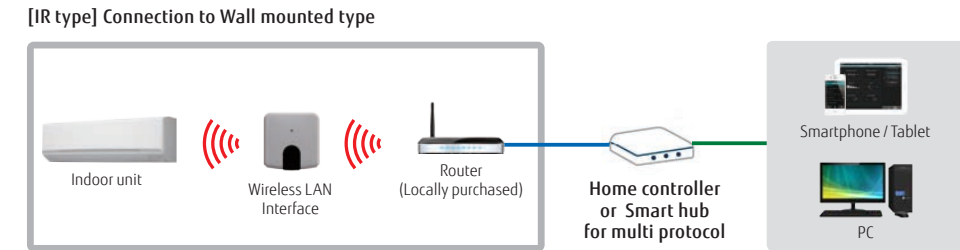
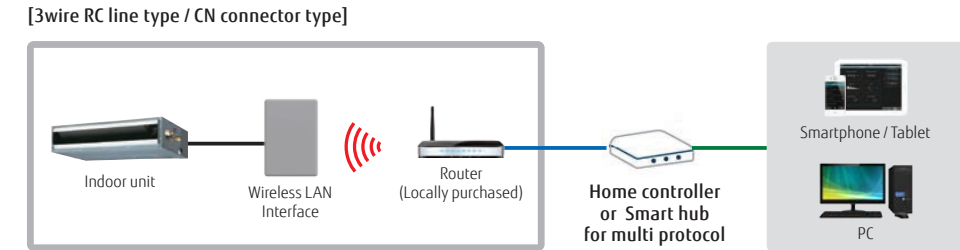
FG-IR-WMP1Z1
(IR type)

Maximum Connectable
1 Single indoor unit

AC Cloud Control

- AC control to Home Automation systems via Wireless LAN connection.
- No separate external power supply required

Installation example



*IR receiver is required

Specifications

Model name	FG-RC-WMP1Z1 (3wire RC line type)	FG-AC-WMP1Z1 (CN connector type)	FG-IR-WMP1Z1 (IR type)
Number of controllable group	1	1	1
Dimensions (H × W × D) (mm)	70 × 100 × 28	127 × 50 × 17	81 × 78 × 28
Weight (g)	98	80	76

BACnet® Gateway

FG-AC-BAC1Z1



NEW

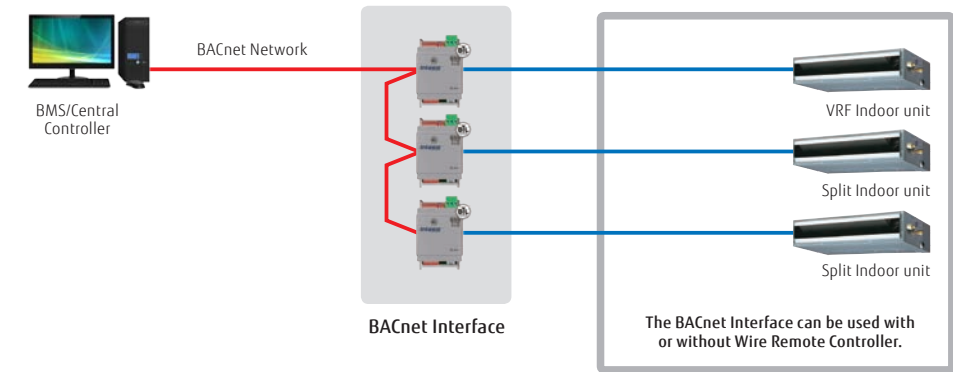


FG-AC-BAC1Z1
(CN connector type)

Maximum Controllable
1 indoor units

- BACnet® Gateway enables to connect a BMS and Fujitsu General split/multi-split/VRF system.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.

Installation example



External Switch Controller

UTY-TERX



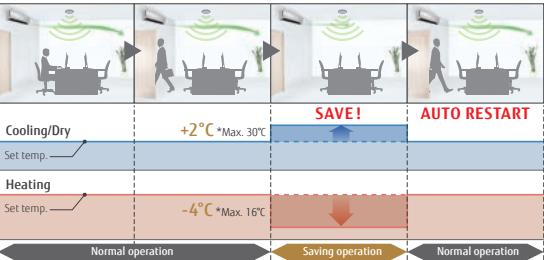
Maximum Controllable
1 group

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	FG-AC-BAC1Z1 (CN connector type)
Power Supply	DC 6.5-16 V	-
Dimensions (H × W × D) (mm)	140 × 117 × 43	93 × 53 × 58
Weight (g)	250	85

DC 12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RVNYM



Maximum Controllable
16 indoor units

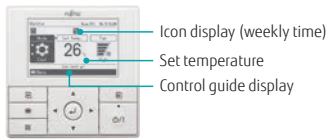
Maximum Controllable
1 Group

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

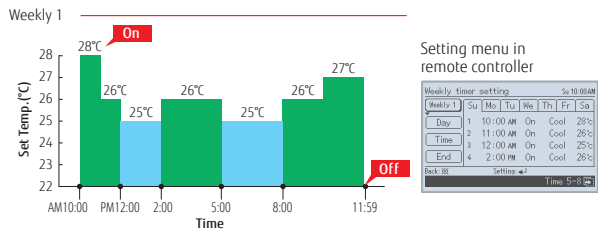
- In addition to the individual control, various energy saving controls can be realized using only one remote controller.



Various energy saving control

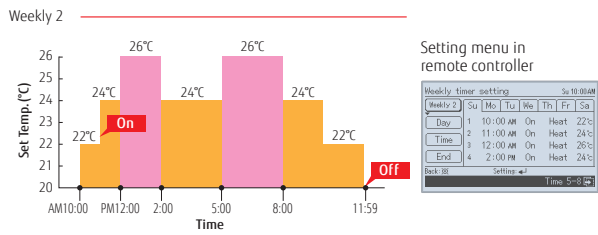
Weekly Timer function

- 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



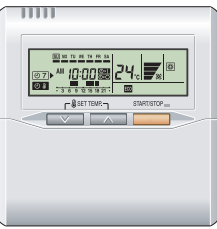
Specifications

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

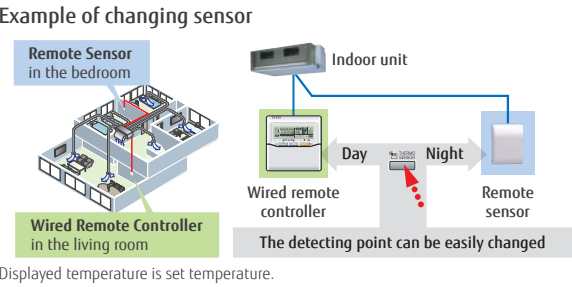


Maximum Controllable
16 indoor units
Maximum Controllable
1 Group

- 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.



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



Maximum Controllable
16 indoor units
Maximum 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

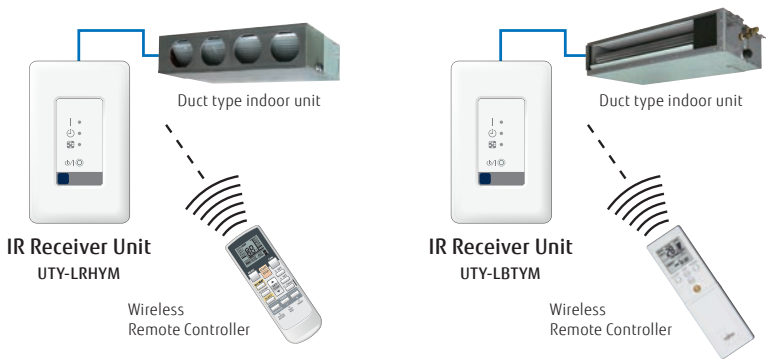
Specifications

Model name	UTY-RNNYM	UTY-LNTY
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



Duct type indoor units can be controlled with Wireless Remote Controller

IR Receiver Unit for Cassette

UTY-LRHVA2, UTY-LBTYC



Cassette type indoor unit can be controlled with Wireless Remote Controller

IR Receiver Unit for Ceiling

UTY-LBTYH



Ceiling type indoor unit can be controlled with Wireless Remote Controller

Specifications

Model name	UTY-LRHYM	UTY-LBTYM	UTY-LRHVA2	UTY-LBTYC	UTY-LBTYH
Battery	DC5V	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	174.8 × 48.6 × 23.1
Weight (g)	150	150	140	140	100

DC 12 V is supplied by the indoor unit.

Central Remote Controller

UTY-DMMYM / UTY-DMMYM1

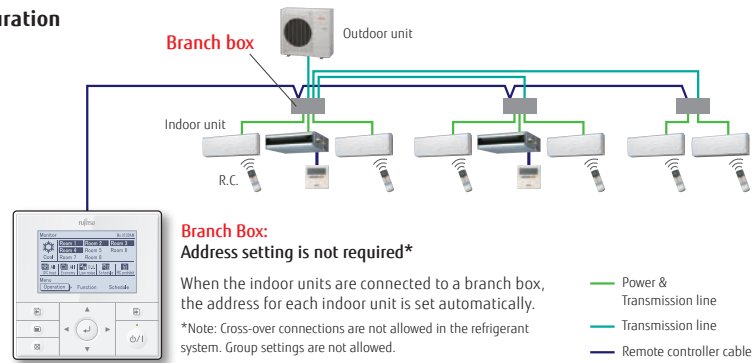


Maximum Controllable
1 multi system
Maximum Controllable
8 indoor units

For 5-unit, 6-unit, 8-unit multi-split type

- 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

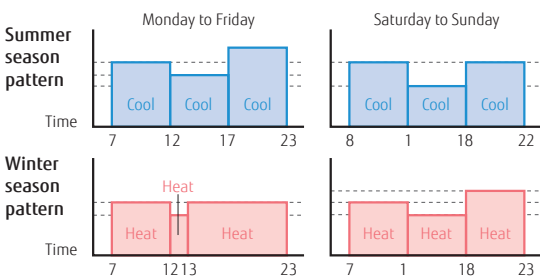
System configuration



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).

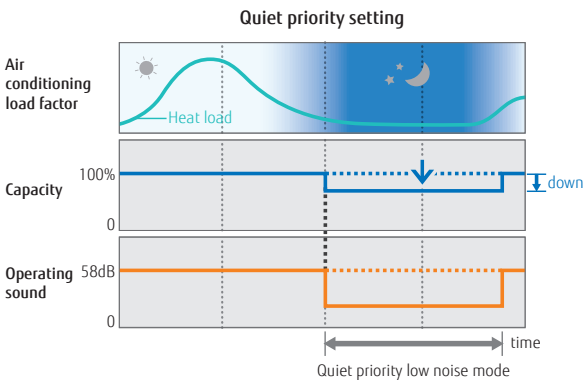
*Please consult your dealer for the condition.

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 / UTY-DMMYM1
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.

Network Converter for Single Split

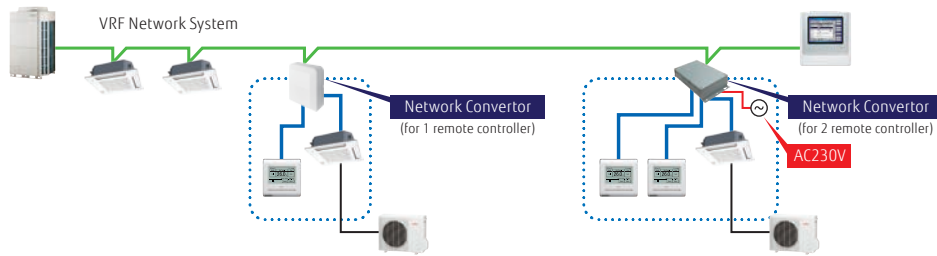
UTY-VTGX / UTY-VTGXV



- The network converters 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.

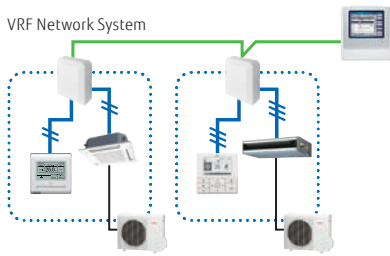
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60 Hz) is required for 2 remote controllers type.



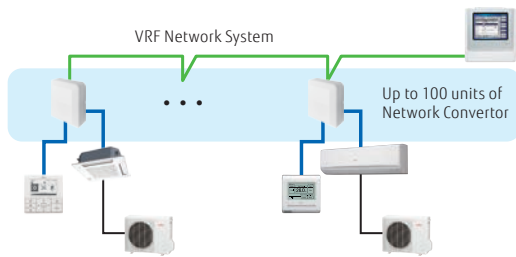
Maximum Controllable
16
single indoor units

Maximum Controllable
1 Group
Maximum Controllable
100
Network Convertors

- 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 Converter 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

Wireless Remote Controller

UTY-LNHY



Maximum Controllable
16 indoor units

Maximum 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

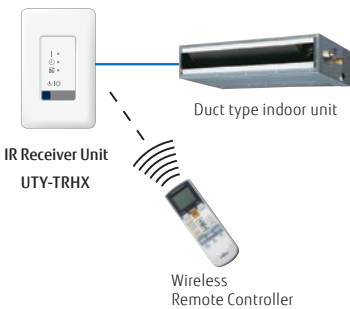
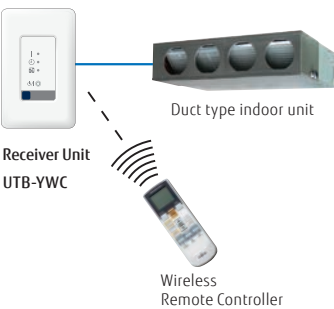
4 timer programs: On / Off / Program / Sleep
Program timer: Operates ON/OFF timer once within 24 hours
Sleep timer: Corrects the set temperature automatically during sleep time

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



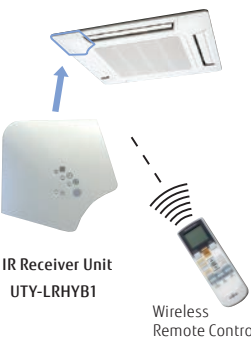
Duct type* indoor units can be controlled with Wireless Remote Controller

*Only Large Airflow Duct can not be connected to IR Receiver Unit.

*The wireless remote controller (Model: UTY-LNHY) is necessary separately

IR Receiver Unit for Cassette

UTY-LRHYB1, UTY-LBHxD, UTY-TRHX



Cassette type indoor unit can be controlled with Wireless Remote Controller

*The wireless remote controller (Model: UTY-LNHY) is necessary separately

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.

Central Remote Controller

UTY-DCGYZ1



Maximum Controllable
100 indoor units

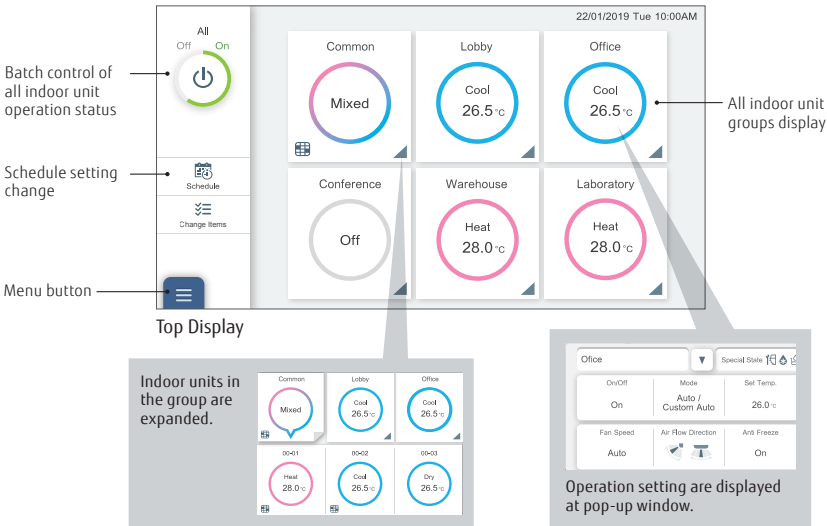
Maximum Controllable
50 groups

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 12 different languages (English, Spanish, German, French, Italian, Russian, Portuguese, Turkish, Polish, Greek, Dutch, Chinese)

Easy operation

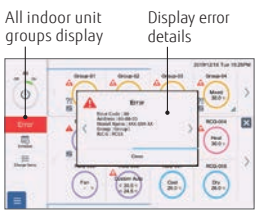
- The new central remote controller realized an intuitive operation feeling by touch panel operation.
- All functions can be accessed from the top display and the following operations are displayed at pop-up window.



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

*:This function is available only when using wired remote controller.

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



Touch Panel Controller

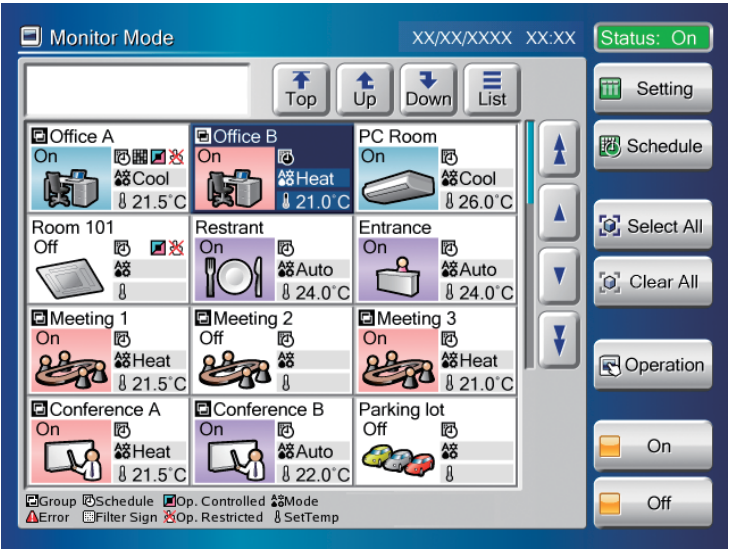
UTY-DTGYZ1



- 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

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.



Maximum Controllable
400 indoor units

Maximum Controllable
100 outdoor units

Maximum Controllable
400 groups

Easy maintenance

- Flat touch screen is easily cleaned
- Non-glare coating on touch panel controller minimizes fingerprint marking
- Easy-to-remove front cover

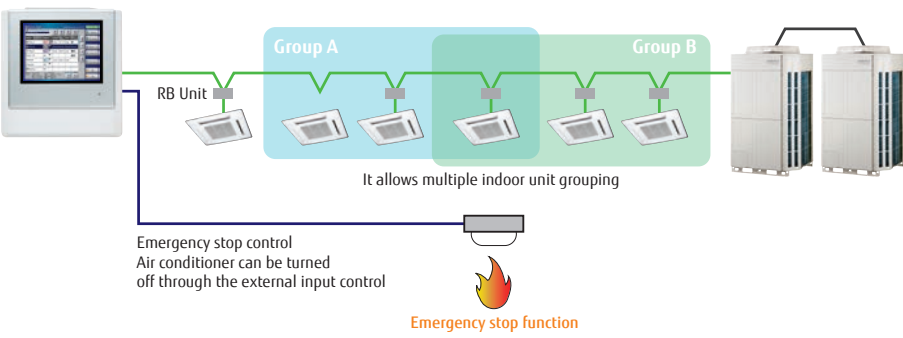


Easy installation

- 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



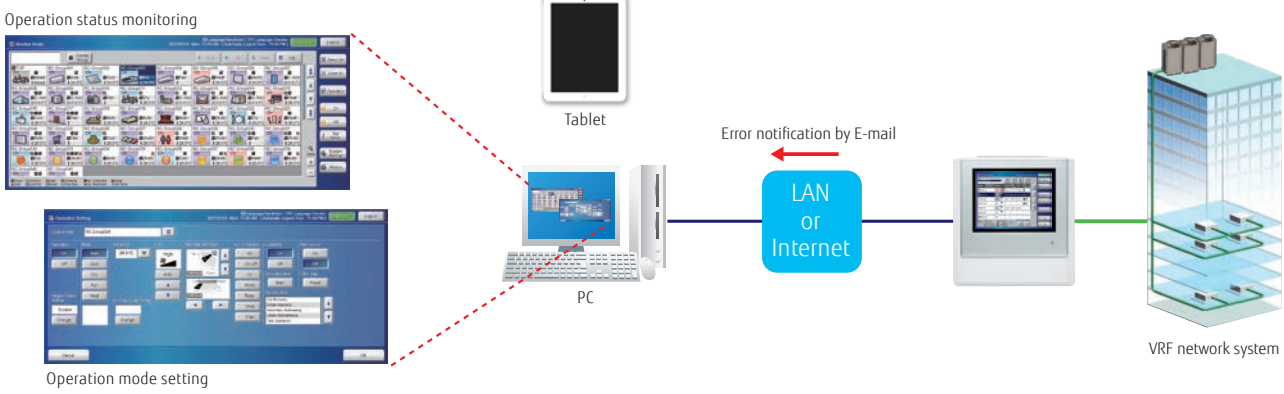
Up to 400 indoor units can be controlled



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

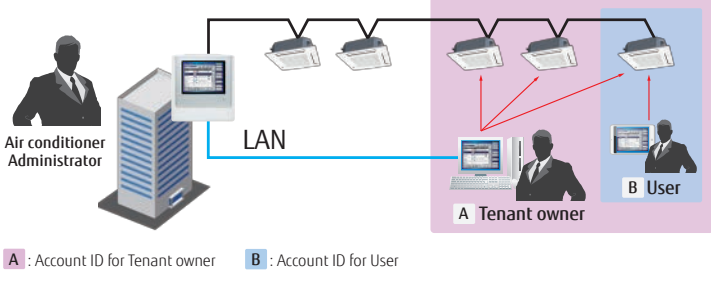
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iphone 7 (iOS 10.1)	Safari 10

Tablet

Model name	Browser
iPad Pro 9.7 inch (iOS 10.2.1)	Safari 10

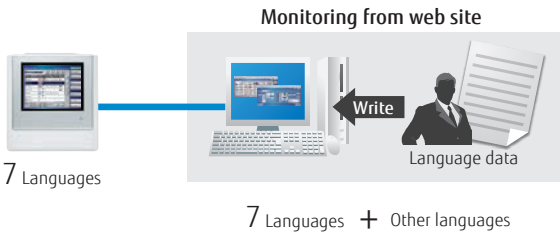
Flexible access permission for Point each level user.

Administrator can register multiple user to permit which indoor unit(s) and which function can access.



Additional languages function

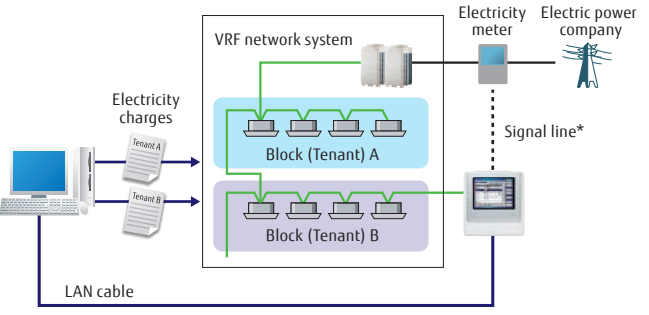
Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish as standard. Additional language can be integrated on remote device by creating language database. Additional language is displayed on only the remote device, and Touch Panel Controller cannot be added other 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



Features: Touch Panel Controller

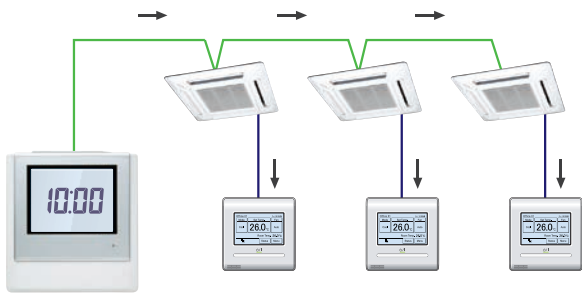
Automatic summer time setting

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.

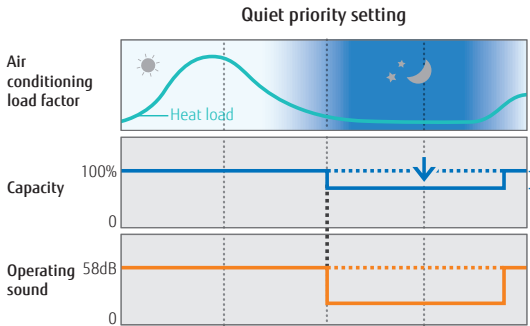
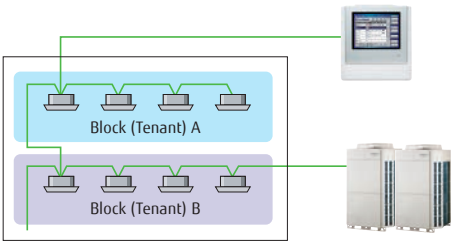
Automatic clock adjustment

- 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.

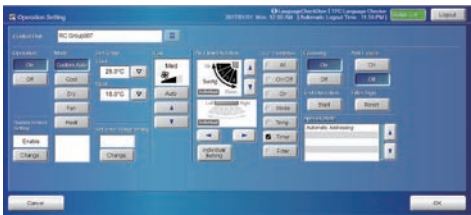


Various energy saving control

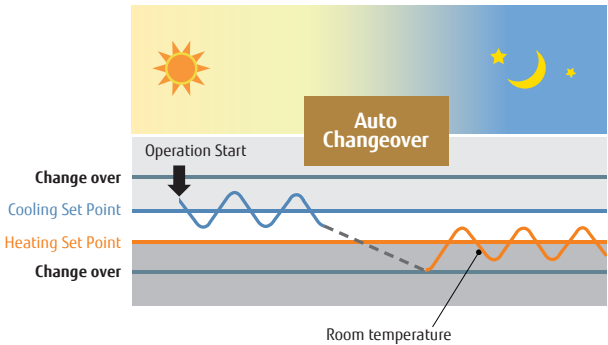
Custom Auto

- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.

* This function is not available for some models.



Cooling set temp. 28°C, Heating set temp. 18°C



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.



Pop-up highlighting

FUNCTIONS SUMMARY

	 UTY-DTGVZ1	 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	●*3	●*3
Multi language	●	●
Summer time	●	●
Time zone setting	●	●
Name registration	●	●
Backlight	●	●
Language setting	7	7+ other
Filter sign reset	●	●
Memory operation	●	●
Refrigerant leakage detection function	●	●

●: Supported ○: Optional function —: Not supported yet

*1 Only setting cancellation can be operated.

*2 This function is available only through external input control.

*3 This function is available only when using wired remote controller.

		 UTY-DTGVZ1	 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		●	●

System Controller

UTY-APGXZ1 Software

Maximum Controllable

4 VRF network systems

Maximum Controllable

400 outdoor units

Maximum 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

Maximum Controllable

1 VRF network system

Maximum Controllable

100 outdoor units

Maximum Controllable

400 indoor units

System Controller Lite has standard functions sufficient for air conditioner management in small and medium scale buildings .

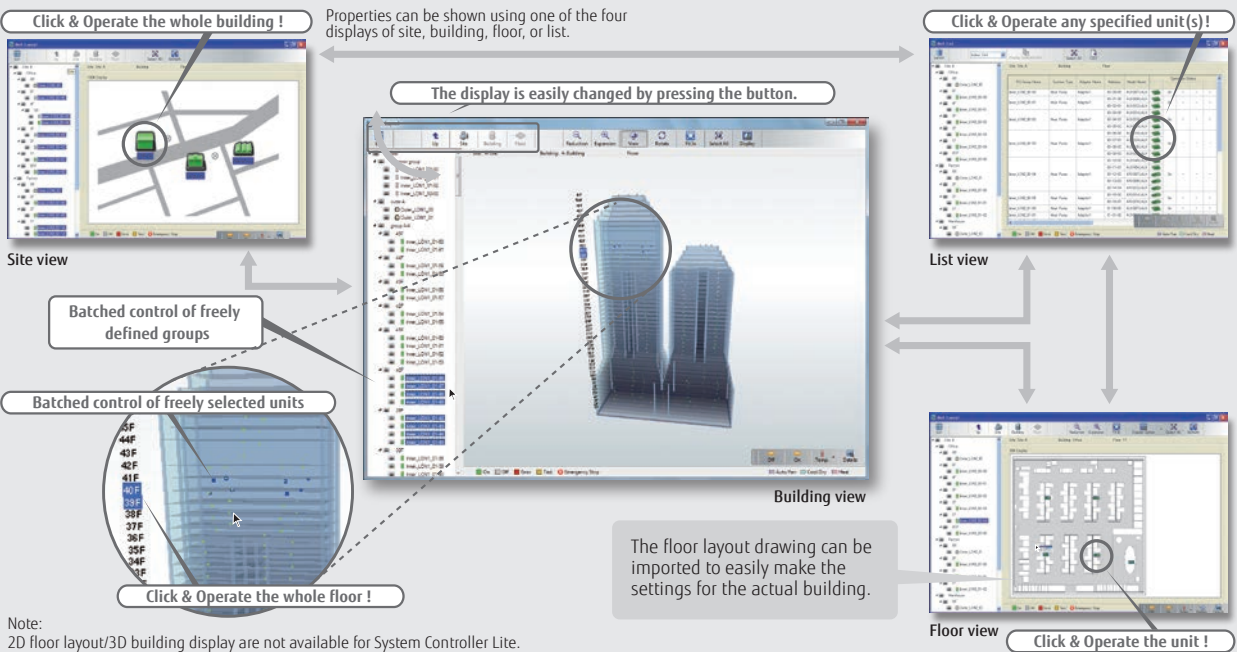
- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customers a wide range of choice.
- Corresponds to 7 different languages (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.

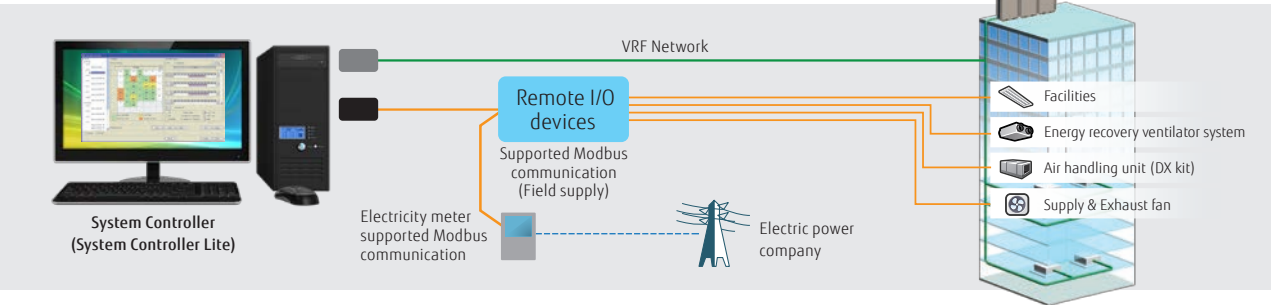


Features: System Controller/System Controller Light

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.

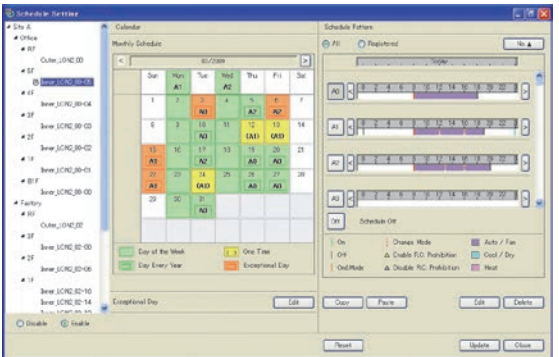


Diverse operation management & Data management

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

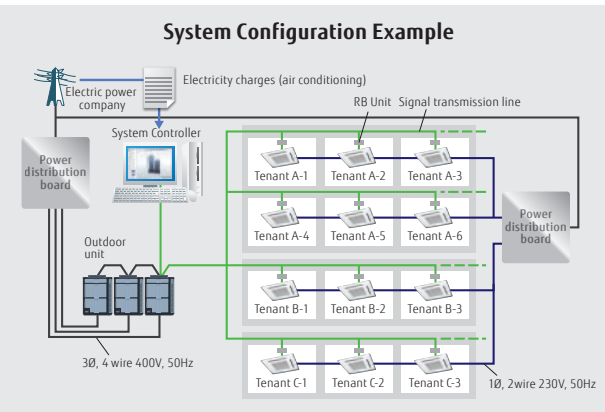
Standard for System Controller

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.



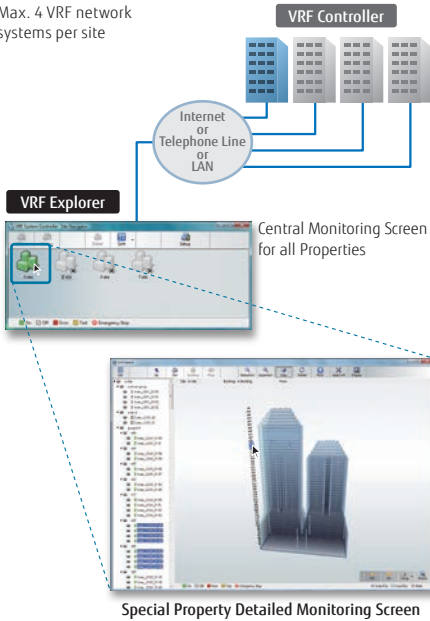
Features: System Controller/System Controller Light

Remote management

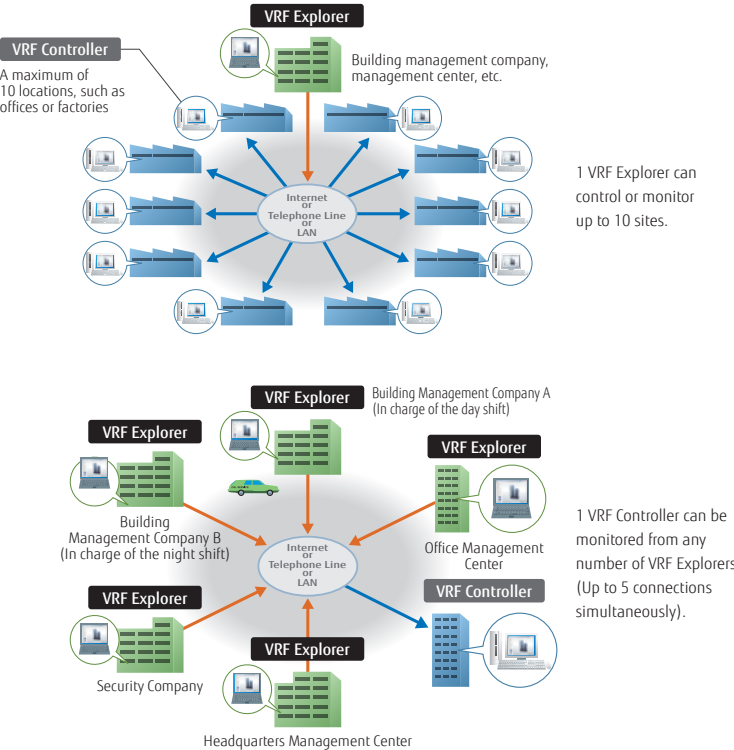
- Standard** for System Controller
- Option** for System Controller Lite UTY-PLGXR2

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.

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	●	—	●	—	—	—	—
Error management	Error notification	●	—	●	—	—	—	—
	audible alarm	●	—	●	—	—	—	—
	Error e-mail notification	●	—	●	—	—	—	—
	Error history	●	—	●	—	—	—	—
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	—	●	—	—	—	—
	Individual management	Antifreeze	—	●	—	—	—	—
		Outdoor unit low noise setting	—	●	—	—	—	—
		Remote control prohibition setting	—	●	—	—	—	—
	Other	Temperature upper and lower limit setting	—	●	—	—	—	—
		Filter sign reset	—	●	—	—	—	—
		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	—	—	—	—
Remote management	Low noise mode Weekly schedule	●	—	●	—	—	—	—
	Web Operation	●	—	●	—	—	—	—
	Remote monitoring	●	—	—	●	—	—	—
	Remote operation control	●	—	—	●	—	—	—
Electricity charge apportionment	Remote function setting	●	—	—	●	—	—	—
	Apportionment charge/bill calculation	●	—	—	—	●	—	—
	Tenant (block) setting	●	—	—	—	●	—	—
	Common facilities apportionment setting	●	—	—	—	●	—	—
	Rated power consumption allotment setting	●	—	—	—	●	—	—
Energy saving management	Individual calculation at cooling and heating	—	●	—	—	●	—	—
	Electricity meter supported	—	●	—	—	●	—	—
	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	●	—	—	—	—	—	●
	Database import/export	●	—	●	—	—	—	—
Others	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				
	System Controller	Option	System Controller Lite	Option	Option	Option	Option
Operating system	• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] 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]) • 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) • USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 2 USB ports are required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB port depends on the applicable system configuration.						
Graphic accelerator	Microsoft® DirectX® 9.0c compatible						
Software	Adobe® Acrobat 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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Maximum Controllable

4

VRF network systems

Maximum Controllable

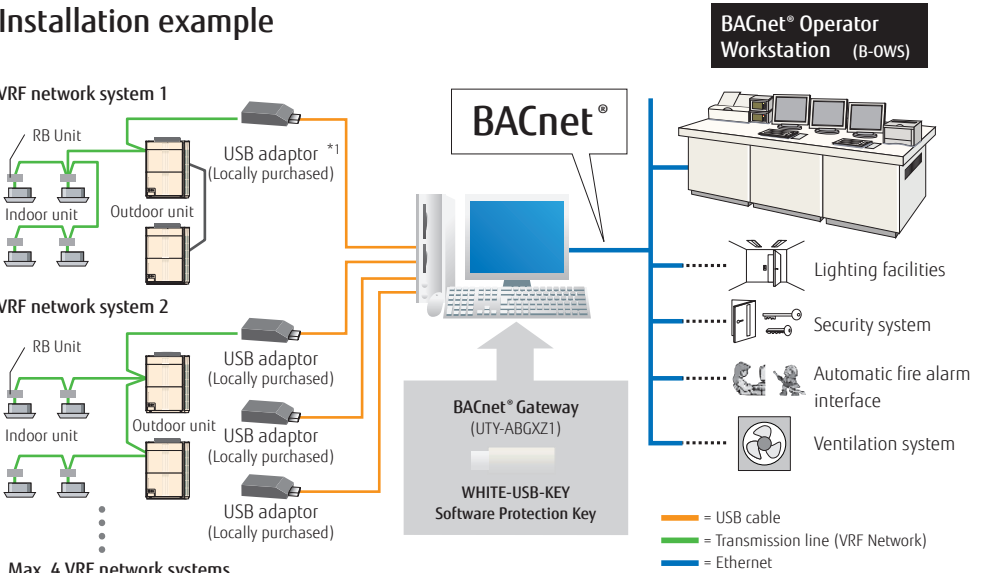
400 outdoor units

Maximum 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



*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 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] 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]) • 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) • USB ports (Maximum of 5 ports) - 1 USB port is required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB ports depends on the applicable system configurations.
Software	Adobe® Acrobat 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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Maximum Controllable

1 VRF network system

Maximum Controllable

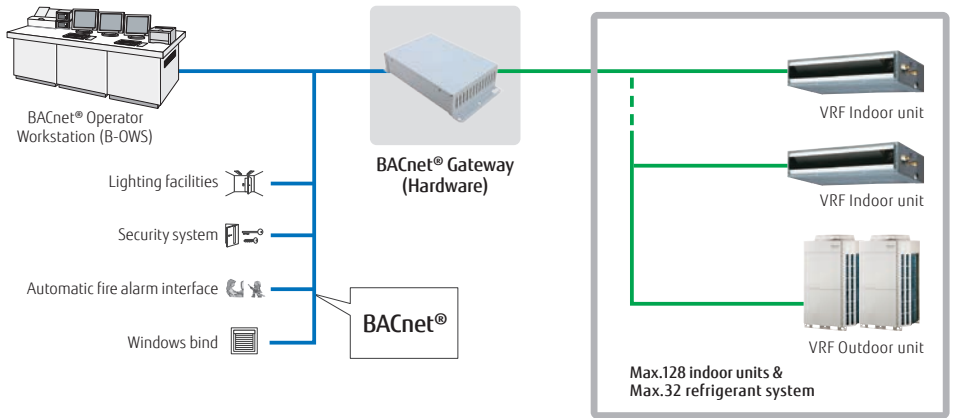
32 refrigerant systems

Maximum 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	Single phase, 100-240V, 50/60 Hz
Power Consumption (W)	4.6 (max.)
Dimensions (H × W × D) (mm)	59.6 × 270.4 × 176
Weight (g)	1200

Multi Protocol LAN Interfaces

FG-TL-MBS16Z1



NEW

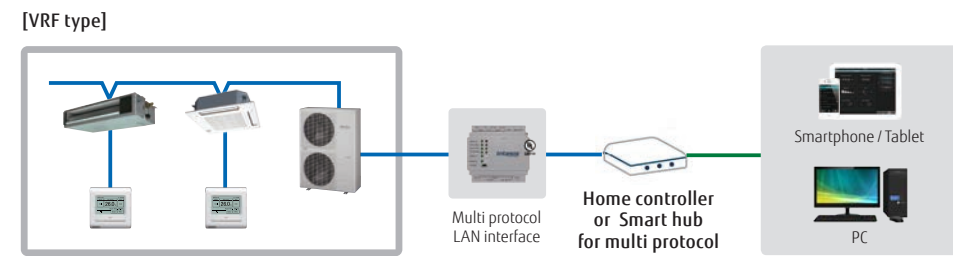


FG-TL-MBS16Z1
(VRF type)

No separate external power supply required

- Can be used for 16 indoor units.

Installation example



Specifications

Model name	FG-TL-MBS16Z1 (VRF type)
Power Supply	9 to 36VDC, Max.: 140mA or 24VAC 50-60Hz, Max.: 127mA.*
Input power (W)	1.7
Dimensions (H × W × D) (mm)	90 × 88 × 56
Weight (g)	330

*Recommended: 24VDC.

BACnet® / MODBUS® Router

FG-RTR-BAC32Z1 / FG-RTR-MBS32Z1



NEW



FG-RTR-BAC32Z1 (BAC net)

NEW

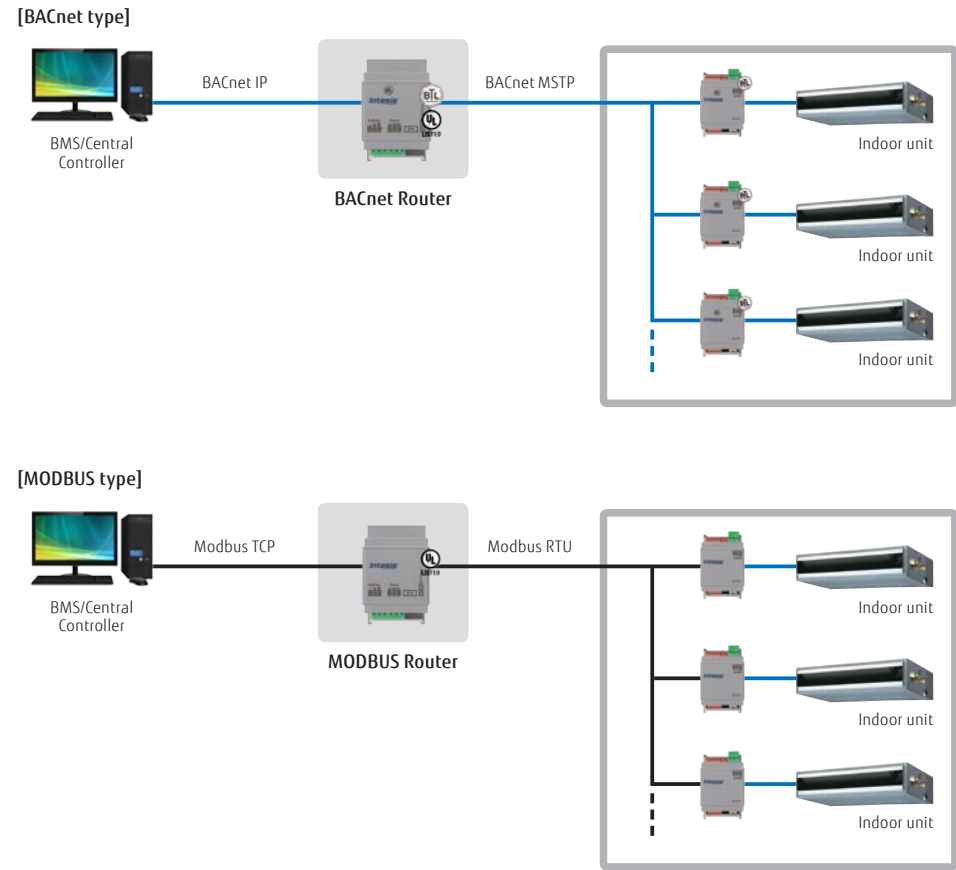


FG-RTR-MBS32Z1 (MODBUS)

Routing between BACnet MS/TP and BACnet IP networks

- Routing between BACnet MS/TP and BACnet IP networks
- Routing between Modbus RTU and Modbus TCP networks

Installation example



Specifications

Model name	FG-RTR-BAC32Z1 (MS/TP to IP)	FG-RTR-MBS32Z1 (RTU to TCP)
Number of routable devices (max.)	32	32
Power Supply	9-36VDC / 24VAC / 50-60 Hz / 140mA	9-36VDC / 24VAC / 50-60 Hz / 140mA
Power Consumption (W)	1.7	1.7
Dimensions (H × W × D) (mm)	93 × 53 × 58	93 × 53 × 58
Weight (g)	150	150

BACnet® / MODBUS® Cloud device

FG-CLD-BMG4Z1 / FG-CLD-BMG8Z1 / FG-CLD-BMG16Z1 / FG-CLD-BMG32Z1



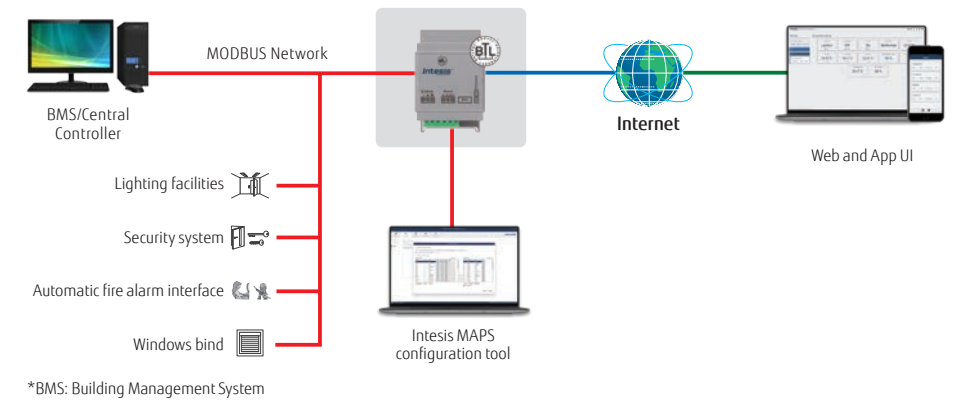
NEW



FG-CLD-BMG4/8/16/32Z1

- The most powerful configuration tool common for all Intesis gateways providing to the integrator the power to configure and monitor the system on an easy and reliable way.
- Simple, easy and useful. It is the best description or the ST Cloud Web and App User Interface. All the widgets are customizable with the content of the user's needs. System Integrators can easily offer to the customer the best user experience to control their BACnet or Modbus devices.

Installation example



Gateway features

- BACnet IP/MSTP or Modbus TCP/RTU connectivity
- Up to 32 devices can be connected to each gateway.
- Up to 12 widgets per device
- Easy device configuration using Intesis MAPS

Next level service

- Industrial grade connectivity now for Building Automation
- Fast and scalable real time edge connectivity over HMS HubTM
- Full data control and protection
- Secure and remote updates during the application lifetime

System Features

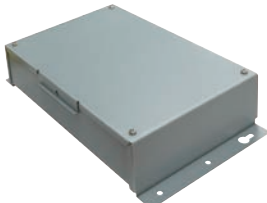
- Monitor and control all devices in an intuitive way
- Comes with a native iOS and Android app and a web interface
- Create scenes and interact with multiple concurrent devices Ca
- Calendar that shows the daily planned installation commands
- Notifications keep you update about system status
- Device sharing and use permissions management
- Multiple site management from a common dashboard

Specifications

Model name	FG-CLD-BMG4Z1	FG-CLD-BMG8Z1	FG-CLD-BMG16Z1	FG-CLD-BMG32Z1
Number of connectable BACnet (IP/MSTP) or Modbus (TCP/RTU) devices	4	8	16	32
Power Supply	9-24VDC / 50-60 Hz	9-24VDC / 50-60 Hz	9-24VDC / 50-60 Hz	9-24VDC / 50-60 Hz
Power Consumption (W)	1.7	1.7	1.7	1.7
Dimensions (H × W × D) (mm)	93 × 53 × 58	93 × 53 × 58	93 × 53 × 58	93 × 53 × 58
Weight (g)	150	150	150	150

MODBUS® Convertor for VRF

UTY-VMGX / FG-TL-MBS16Z1



UTY-VMGX

Maximum Controllable
9 units to one VRF

Maximum Controllable
100 outdoor units

Selectable
128 indoor units

NEW



FG-TL-MBS16Z1

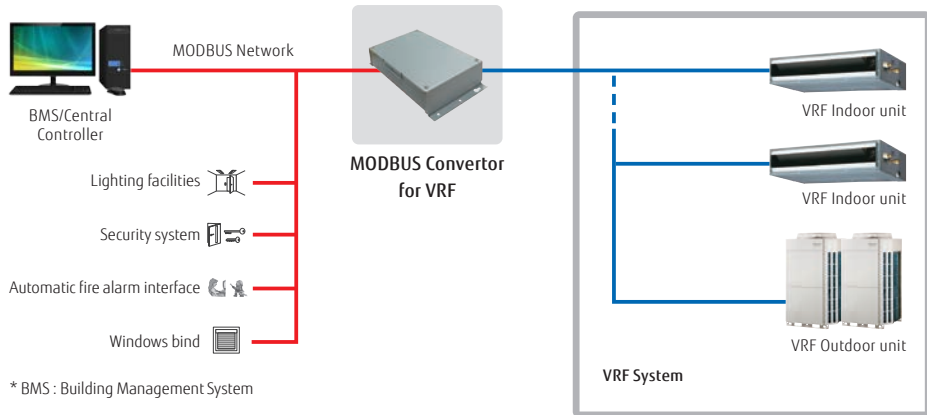
Maximum Controllable
16 indoor units

Maximum Controllable
16 outdoor units

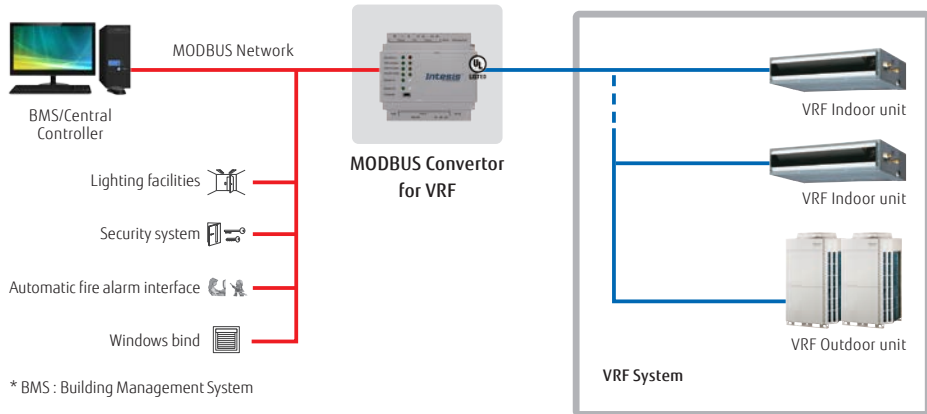
The MODBUS Convertor allows a complete integration of air conditioners into MODBUS Networks.

- Compact and lightweight design
- Direct connection to MODBUS Network
- The MODBUS Convertor permits central monitoring and control of air conditioners from BMS or Central Controller.
- Up to 9 converters can be connected to a VRF network (UTY-VMGX). 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.

Installation example



* BMS : Building Management System



* BMS : Building Management System

Specifications

Model name	UTY-VMGX	FG-TL-MBS16Z1
Power Supply	220-240 V 50/60 Hz	9 to 36VDC, Max.: 140mA or 24VAC 50-60Hz, Max.: 127mA.*
Input power (W)	Max. 2	1.7
Dimensions (H × W × D) (mm)	54 × 260 × 150	90 × 88 × 56
Weight (g)	1,100	330

*Recommended: 24VDC.

KNX® Convertor for VRF

UTY-VKGX / FG-TL-KNX16Z1



UTY-VKGX

Maximum Controllable
100 outdoor units

Selectable
128 indoor units

NEW



FG-TL-KNX16Z1

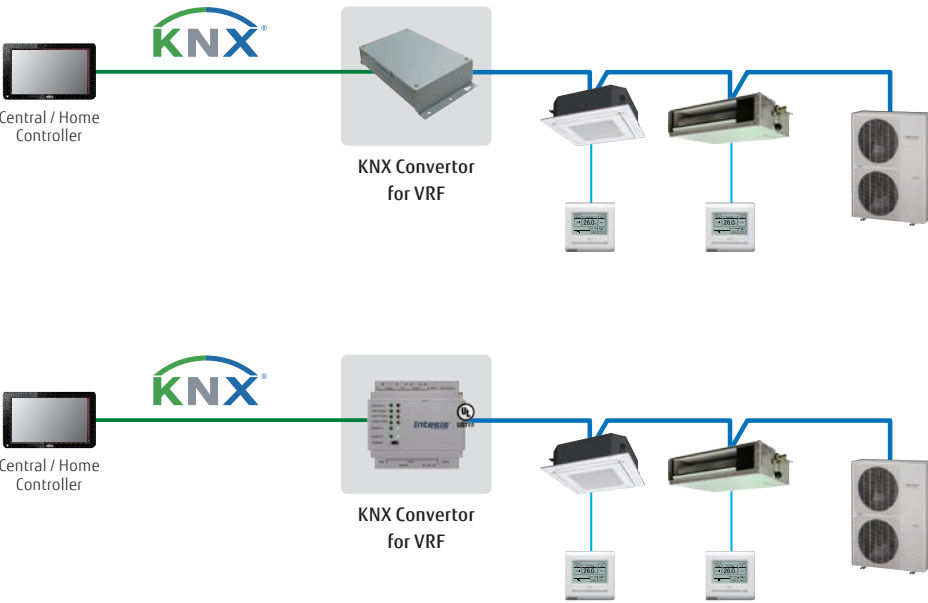
Maximum Controllable
16 indoor units

Maximum Controllable
16 outdoor units

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. (UTY-VKGX)

Installation example



* BMS : Building Management System

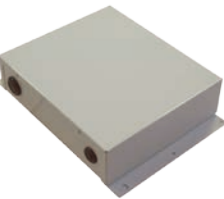
Specifications

Model name	UTY-VKGX	FG-TL-KNX16Z1
Power Supply	220-240 V 50/60 Hz	9 to 36VDC, Max.: 140mA or 24VAC 50-60Hz, Max.: 127mA.*
Input power (W)	1.5	1.6
Dimensions (H × W × D) (mm)	54 × 260 × 150	90 × 88 × 56
Weight (g)	1,200	340

*Recommended: 24VDC.

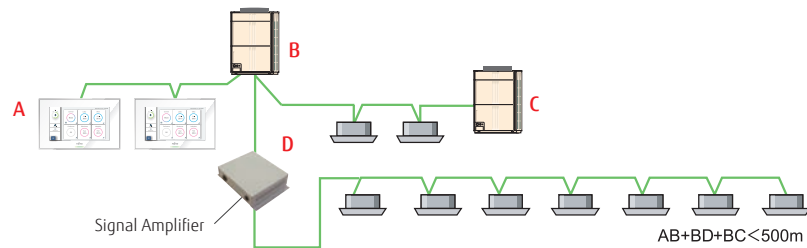
Signal Amplifier

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

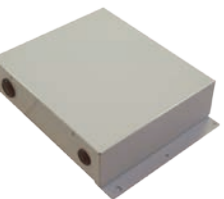


Specifications

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

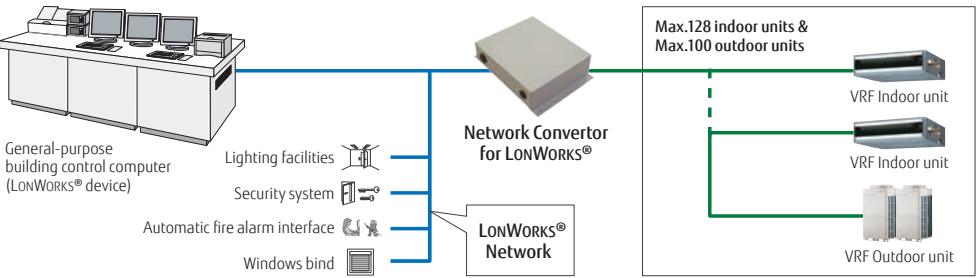
Network Converter for LONWORKS®

UTY-VLGX



- 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 Converter 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 (It attaches at the terminal of a network.)

Maximum Controllable
4 units to BMS

Maximum Controllable
100 outdoor units

Maximum Controllable
128 indoor units



Controller System List (available) For Split/Multi-split

Controller Options / Accessories:



Type	Refrigerant	Indoor unit														Indoor unit						Outdoor unit				
		Flagship Series	Designer Series		Wall Mounted			Cassette		Duct			Duct				Floor	Ceiling	Multi-split				Single Phase			
					Standard Series	ECO Series	Compact 4-way Flow Series	Circular Flow Series	Slim	Medium Static Pressure (Compact & Comfort)	Medium Static Pressure (Standard)	High Static Pressure		BIG	Wall Mounted	Compact Cassette			Mini Duct	Slim Duct	5/6/Bunit multi-split					
		ASYG 12KXCA	ASYG 07/09/12/14 KGTB	ASYG 07/09/12/14 KETA, KETA-B	ASYG 07/09/12/14 KMCC	ASYG 18/24KMTB	ASYG 30/36KMTA	ASYG 07/09/12 KPCA	AUXG 09/12/14/18/22/24 KVL A	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	ARXG22KMLB, ARXG 24/30/36/45 KMLA	ARXG 45/54KHTA		ARYG 45/54/60 LHTA	ARYG 72/90LHTA		ACYG 09/12/14 KVCA	ABYG 18/22/24/30/36/45/54 KR1A	ASYG 22KMTB	AUXG 07KVLA	ARXG 07/09/12/14/18 KSLAP	ARXG 07KLLAP	AOYG36KBTA5	
																										AOYG45LBLA6 AOYG45LBT8
Controllers				● UTY-RNRYZ3+ UTY-TWRXZ2			● UTY-RNRYZ3+ UTY-TWRXZ2			● UTY-RNRYZ3							● UTY-RNRYZ3	● UTY-RNRYZ3+ UTY-TWRXZ3	● UTY-RNRYZ3	● UTY-RNRYZ3+ UTY-TWRXZ2	● UTY-RNRYZ3					
				● UTY-RLRY+ UTY-TWRXZ2			● UTY-RLRY+ UTY-TWRXZ2			● UTY-RLRY							● UTY-RLRY	● UTY-RLRY+ UTY-TWRXZ3	● UTY-RLRY	● UTY-RLRY+ UTY-TWRXZ2	● UTY-RLRY					
				● UTY-RCRYZ1+ UTY-TWRXZ2			● UTY-RCRYZ1+ UTY-TWRXZ2			● UTY-RCRYZ1							● UTY-RCRYZ1	● UTY-RCRYZ1+ UTY-TWRXZ3	● UTY-RCRYZ1	● UTY-RCRYZ1+ UTY-TWRXZ2	● UTY-RCRYZ1					
						● UTY-RVNYM+ UTY-TWBXF2				● UTY-RVNYM				● UTY-RVNYM								● UTY-RVNYM				
						● UTY-RNNYM+ UTY-TWBXF2				● 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-RSRY, UTY-RHRY, UTY-RSNYM				● UTY-RSRY, UTY-RHRY, UTY-RSNYM		● UTY-RSNYM		● UTY-RSRY, UTY-RHRY, UTY-RSNYM	● UTY-RSRY, UTY-RHRY+ UTY-TWRXZ3	● UTY-RSRY, UTY-RHRY	● UTY-RSRY, UTY-RHRY+ UTY-TWRXZ2	● UTY-RSRY, UTY-RHRY, UTY-RSNYM					
Central Remote Controller																									● UTY-DMMYM1*3 (KBTA5) UTY-DMMYM*3 (LBLA6,LBT8)	
Wireless Remote Controller									● UTY-LNTY												● UTY-LNTY					
IR Receiver Unit with Wireless Remote Controller	 For Duct For Cassette														● UTY-LRHYM (60)	● UTY-LRHYM										
	 For Duct For Cassette For Ceiling									● UTY-LBTYC	● UTY-LBTYM	● UTY-LBTYM				● UTY-LBTYM		● UTY-LBTYH		● UTY-LBTYM	● UTY-LBTYM					

*There are no optional parts for KL series.

*1: It can be used only when the wireless LAN interface (UTY-TFSXF2) is removed. *2 It can be used only when the wireless LAN interface (UTY-TFSXZ1) is removed.

*3 Please consult your dealer for the condition.

Controller System List (available) For Split/Multi-split

Controller Options / Accessories:



Type	Refrigerant	Indoor														Indoor unit						Outdoor unit				
		Wall Mounted								Cassette		Duct				Floor	Ceiling	Multi-split				Single Phase				
		Flagship Series	Designer Series		Standard Series			ECO Series		Compact 4-way Flow Series	Circular Flow Series	Slim	Medium Static Pressure (Compact & Comfort)	Medium Static Pressure (Standard)	Duct			BIG	Wall Mounted	Compact Cassette	Mini Duct	Slim Duct	5-unit multi-split			
			ASYG 12KXCA	ASYG 07/09/12/14 KGTB	ASYG 07/09/12/14 KETA, KETA-B	ASYG 07/09/12/14 KMCC	ASYG 18/24KMTB	ASYG 30/36KMTA	ASYG 07/09/12 KPCA						ASYG 18/24KLCA									AUXG 09/12/14/18/22/24 KVLA	AUXG 18/22/24/30/36/45/54 KRLB	ARXG 09/12/14/18 KLLAP
Interface	MODBUS Convertor			● UTY-VMSX	● UTY-VMSX*1	● UTY-VMSX	● UTY-VMSX*1				● UTY-VMSX		● UTY-VMSX				● UTY-VMSX	● UTY-VMSX*2	● UTY-VMSX	● UTY-VMSX*1	● UTY-VMSX					
	MODBUS Interface			● FG-AC-MBS1Z1	● FJ-RC-MBS-1 FG-AC-MBS1Z1	● FG-AC-MBS1Z1				● FJ-RC-MBS-1 FG-AC-MBS1Z1		● FJ-RC-MBS-1 FG-AC-MBS1Z1	● FJ-RC-MBS-1	● FJ-RC-MBS-1 FG-AC-MBS1Z1	● FG-AC-MBS1Z1											
KNX	Convertor			● UTY-VKSX	● UTY-VKSX*1	● UTY-VKSX	● UTY-VKSX*1				● UTY-VKSX		● UTY-VKSX				● UTY-VKSX	● UTY-VKSX*2	● UTY-VKSX	● UTY-VKSX*1	● UTY-VKSX					
	KNX Interface			● FG-AC-KNX1Z1	● FJ-RC-KNX-1i FG-AC-KNX1Z1	● FG-AC-KNX1Z1				● FJ-RC-KNX-1i FG-AC-KNX1Z1		● FJ-RC-KNX-1i FG-AC-KNX1Z1	● FJ-RC-KNX-1i	● FJ-RC-KNX-1i FG-AC-KNX1Z1	● FG-AC-KNX1Z1											
Wireless LAN Interface				● FG-IR-KNX1Z1						● FG-IR-KNX1Z1+ UTY-LBTYC	● FG-IR-KNX1Z1+ UTY-LBTYM	● FG-IR-KNX1Z1+ UTY-LBTYM	● FG-IR-KNX1Z1+ UTY-LRHYM (60)	● FG-IR-KNX1Z1+ UTY-LRHYM	● FG-IR-KNX1Z1	● FG-IR-KNX1Z1+ UTY-LBTYH	● FG-IR-KNX1Z1	● FG-IR-KNX1Z1+ UTY-LBTYM								
			● Accessory	● UTY-TFSXW1	● UTY-TFSXW1					● UTY-TFSXZ1		● UTY-TFSXZ1	● UTY-TFSXZ1	● UTY-TFSXZ1	● UTY-TFSXZ1	● UTY-TFSXZ1	● UTY-TFSXZ1				● UTY-TFSXZ1					
				● UTY-TFSXF2		● UTY-TFSXF2													● UTY-TFSXF2							
				● FG-AC-WIFI1Z1	● FJ-RC-WIFI-2 FG-AC-WIFI1Z1	● FG-AC-WIFI1Z1				● FJ-RC-WIFI-2 FG-AC-WIFI1Z1		● FJ-RC-WIFI-2 FG-AC-WIFI1Z1	● FJ-RC-WIFI-2	● FJ-RC-WIFI-2 FG-AC-WIFI1Z1	● FG-AC-WIFI1Z1											
				● FG-IR-WIFI1Z1						● FG-IR-WIFI1Z1+ UTY-LBTYC	● FG-IR-WIFI1Z1+ UTY-LBTYM	● FG-IR-WIFI1Z1+ UTY-LBTYM	● FG-IR-WIFI1Z1+ UTY-LRHYM (60)	● FG-IR-WIFI1Z1+ UTY-LRHYM	● FG-IR-WIFI1Z1	● FG-IR-WIFI1Z1+ UTY-LBTYH	● FG-IR-WIFI1Z1	● FG-IR-WIFI1Z1+ UTY-LBTYM								
				● FG-AC-WMP1Z1	● FG-RC-WMP1Z1 FG-AC-WMP1Z1	● FG-AC-WMP1Z1				● FG-RC-WMP1Z1 FG-AC-WMP1Z1		● FG-RC-WMP1Z1 FG-AC-WMP1Z1	● FG-RC-WMP1Z1	● FG-RC-WMP1Z1	● FG-AC-WMP1Z1	● FG-AC-WMP1Z1										
External Switch Controller				● UTY-TERX+UTY-TWRXZ2	● UTY-TERX+ UTY-TWBXF2	● UTY-TERX+UTY-TWRXZ2				● UTY-TERX		● UTY-TERX	● UTY-TERX	● UTY-TERX	● UTY-TERX	● UTY-TERX+ UTY-TWRXZ3	● UTY-TERX	● UTY-TERX+ UTY-TWRXZ2	● UTY-TERX							
	Network Converter for Single Split			● UTY-VTGX+UTY-TWRXZ2 or UTY-VTGXV+UTY-TWRXZ2	● UTY-TWBXF2 or UTY-TWBXF2	● UTY-VTGX+UTY-TWRXZ2 or UTY-VTGXV+UTY-TWRXZ2				● UTY-VTGX UTY-VTGXV		● UTY-VTGX UTY-VTGXV	● UTY-VTGX UTY-VTGXV	● UTY-VTGX UTY-VTGXV	● UTY-VTGX UTY-VTGXV	● UTY-VTGX+ UTY-TWRXZ3 or UTY-VTGXV+ UTY-TWRXZ3	● UTY-VTGX UTY-VTGXV	● UTY-VTGX+ UTY-TWRXZ2 or UTY-VTGXV+ UTY-TWRXZ2	● UTY-VTGX UTY-VTGXV							

*There are no optional parts for KL series.

*1: It can be used only when the wireless LAN interface (UTY-TFSXF2) is removed. *2 It can be used only when the wireless LAN interface (UTY-TFSXZ1) is removed.

Controller System List (available) For VRF

Controller Options:

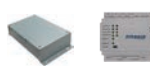
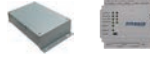
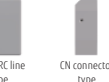


Type	Refrigerant	Indoor unit																													
		Cassette								Duct										Indoor unit											
		One-way Flow	3D Flow	Compact Grid type / Standard type	Slim type	Large type	Slim type	Large type	Low Static Pressure Duct				Medium Static Pressure	Medium Static Pressure				High Static Pressure				Floor		Ceiling/ Floor	Ceiling	-	EEV external	Wall Mounted			
					4-way Flow		Circular Flow		Mini (With drain pump)	Slim (With drain pump)		Slim High Efficiency	Normal	High Efficiency				Normal		High Efficiency	-	EEV external	-					EEV external	-	-	
		AUXV 004/007/009/ 012/014/018/ 024GLEH	AUXS 018/024 GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXD 18/24GALH	AUXA 18/24/30/ 34/36/45/54 GALH	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/ 024GLGH	ARXD 04GALH	ARXD 007/009/012/ 014/018/024 GLEH	ARXP 009/012/ 014/018 GLAH	ARXA 024/030/ 036/045 GLEH	ARXQ 018/024 GTAH	ARXP 024/030 GTAH	ARXC 036/072/ 090/096 GTEH	ARXC 45/60GATH	ARXD 030GTAH	AGYA 004/007/ 009/012/014 GCGH	AGYE 004/007/ 009/012/014 GCEH	ABYA 012/014/ 018/024 GTEH	ABYA 030/036/ 045/054 GTEH	ASYA 004/007/009 GCGH	ASYE 004/007/009 GCEH	ASYA 012/014GCGH	ASYE 012/014GCEH	ASYA 18/24GBCH	ASYA 030/034GTEH			
Controllers		● UTY-RNRYZ3																													
		● UTY-RLRY																													
		● UTY-RCRYZ1																													
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-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		
Wireless Remote Controller		● UTY-LNHY																													
IR Receiver Unit		● UTY-TRHX			● UTY-LRHYB1		● UTY-LBHXD		● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC		● UTY-TRHX	● UTB-YWC														
Central Remote Controller		● UTY-DCGYZ1																													
Touch Panel Controller		● UTY-DTGYZ1																													
System Controller, System Controller Lite		● UTY-APGXZ1, UTY-ALGXZ1																													

Controller System List (available) For VRF

Controller Options:



Type	Refrigerant	Indoor unit																Indoor unit												
		Cassette								Duct								Duct												
		One-way Flow	3D Flow	Compact Grid type / Standard type	Slim type	Large type	Slim type	Large type	Low Static Pressure Duct			Medium Static Pressure	Medium Static Pressure			High Static Pressure		Floor		Ceiling/ Floor	Ceiling	-	EEV external	Wall Mounted						
					4-way Flow		Circular Flow		Mini (With drain pump)	Slim (With drain pump)		Slim High Efficiency	Normal	High Efficiency			Normal		High Efficiency					-	EEV external	-	EEV external	-	-	
		AUXV 004/007/009/ 012/014/018/ 024GLEH	AUXS 018/024 GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXD 18/24GALH	AUXA 18/24/30/ 34/36/45/54 GALH	AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH	AUXK 018/024/030/ 034/036/045/ 054GLEH	ARXX 004/007/009/ 012/014/018/ 024GLGH	ARXD 04GALH	ARXD 007/009/012/ 014/018/024 GLEH	ARXP 009/012/ 014/018 GLAH	ARXA 024/030/ 036/045 GLEH	ARXQ 018/024 GTAH	ARXP 024/030 GTAH	ARXC 036/072/ 090/096 GTEH	ARXC 45/60GATH	ARXD 030GTAH	AGYA 004/007/ 009/012/014 GCGH	AGYE 004/007/ 009/012/014 GCEH	ABYA 012/014/ 018/024 GTEH	ABYA 030/036/ 045/054 GTEH	ASYA 004/007/009 GCGH	ASYE 004/007/009 GCEH	ASYA 012/014GCGH	ASYE 012/014GCEH	ASYA 18/24GBCH	ASYA 030/034GTEH		
Interface	BACnet Gateway		● UTY-ABGX1, UTY-VBGX																											
			● FG-AC-BAC1Z1				● FG-AC-BAC1Z1				● FG-AC-BAC1Z1		● FG-AC-BAC1Z1				● FG-AC-BAC1Z1						● FG-AC-BAC1Z1						● FG-AC-BAC1Z1	
Network Converter for LonWorks		● UTY-VLGX																												
MODBUS Converter		● UTY-VMSX					● UTY-VMSX				● UTY-VMSX		● UTY-VMSX				● UTY-VMSX						● UTY-VMSX						● UTY-VMSX	
		● UTY-VMGX FG-TL-MBS16Z1																												
MODBUS Interface		● FG-AC-MBS1Z1			● FJ-RC-MBS-1		● FG-AC-MBS1Z1			● FJ-RC-MBS-1	● FG-AC-MBS1Z1	● FJ-RC-MBS-1	● FG-AC-MBS1Z1		● FG-AC-MBS1Z1	● FJ-RC-MBS-1	● FG-AC-MBS1Z1	● FJ-RC-MBS-1						● FG-AC-MBS1Z1		● FJ-RC-MBS-1		● FG-AC-MBS1Z1		
KNX Converter		● UTY-VKSX					● UTY-VKSX				● UTY-VKSX		● UTY-VKSX				● UTY-VKSX						● UTY-VKSX						● UTY-VKSX	
		● UTY-VKGX FG-TL-KNX16Z1																												
KNX Interface		● FG-AC-KNX1Z1			● FJ-RC-KNX-1i		● FG-AC-KNX1Z1			● FJ-RC-KNX-1i	● FG-AC-KNX1Z1	● FJ-RC-KNX-1i	● FG-AC-KNX1Z1		● FG-AC-KNX1Z1	● FJ-RC-KNX-1i	● FG-AC-KNX1Z1	● FJ-RC-KNX-1i						● FG-AC-KNX1Z1		● FJ-RC-KNX-1i		● FG-AC-KNX1Z1		
		● FG-IR-KNX1Z1+UTY-TRHX	● FG-IR-KNX1Z1	● FG-IR-KNX1Z1+UTY-LRHYB1	● FG-IR-KNX1Z1+UTY-LBHXD	● FG-IR-KNX1Z1+UTY-TRHX	● FG-IR-KNX1Z1+UTB-YWC	● FG-IR-KNX1Z1+UTY-TRHX	● FG-IR-KNX1Z1+UTB-YWC	● FG-IR-KNX1Z1+UTY-TRHX	● FG-IR-KNX1Z1+UTB-YWC	● FG-IR-KNX1Z1+UTY-TRHX	● FG-IR-KNX1Z1+UTB-YWC	● FG-IR-KNX1Z1+UTY-TRHX	● FG-IR-KNX1Z1+UTB-YWC	● FG-IR-KNX1Z1+UTY-TRHX	● FG-IR-KNX1Z1+UTB-YWC	● FG-IR-KNX1Z1+UTY-TRHX	● FG-IR-KNX1Z1+UTB-YWC	● FG-IR-KNX1Z1+UTY-TRHX	● FG-IR-KNX1Z1+UTB-YWC	● FG-IR-KNX1Z1+UTY-TRHX	● FG-IR-KNX1Z1+UTB-YWC	● FG-IR-KNX1Z1+UTY-TRHX	● FG-IR-KNX1Z1+UTB-YWC	● FG-IR-KNX1Z1+UTY-TRHX	● FG-IR-KNX1Z1+UTB-YWC	● FG-IR-KNX1Z1+UTY-TRHX	● FG-IR-KNX1Z1+UTB-YWC	
Wireless LAN Interface		● UTY-TFSXZ1					● UTY-TFSXZ1				● UTY-TFSXZ1		● UTY-TFSXZ1				● UTY-TFSXZ1						● UTY-TFSXZ1						● UTY-TFSXZ1	
		● FG-AC-WIFI1Z1			● FJ-RC-WIFI-2		● FG-AC-WIFI1Z1			● FJ-RC-WIFI-2	● FG-AC-WIFI1Z1	● FJ-RC-WIFI-2	● FG-AC-WIFI1Z1		● FG-AC-WIFI1Z1	● FJ-RC-WIFI-2	● FG-AC-WIFI1Z1	● FJ-RC-WIFI-2						● FG-AC-WIFI1Z1		● FJ-RC-WIFI-2		● FG-AC-WIFI1Z1		
		● FG-IR-WIFI1Z1+UTY-TRHX	● FG-IR-WIFI1Z1	● FG-IR-WIFI1Z1+UTY-LRHYB1	● FG-IR-WIFI1Z1+UTY-LBHXD	● FG-IR-WIFI1Z1+UTY-TRHX	● FG-IR-WIFI1Z1+UTB-YWC	● FG-IR-WIFI1Z1+UTY-TRHX	● FG-IR-WIFI1Z1+UTB-YWC	● FG-IR-WIFI1Z1+UTY-TRHX	● FG-IR-WIFI1Z1+UTB-YWC	● FG-IR-WIFI1Z1+UTY-TRHX	● FG-IR-WIFI1Z1+UTB-YWC	● FG-IR-WIFI1Z1+UTY-TRHX	● FG-IR-WIFI1Z1+UTB-YWC	● FG-IR-WIFI1Z1+UTY-TRHX	● FG-IR-WIFI1Z1+UTB-YWC	● FG-IR-WIFI1Z1+UTY-TRHX	● FG-IR-WIFI1Z1+UTB-YWC	● FG-IR-WIFI1Z1+UTY-TRHX	● FG-IR-WIFI1Z1+UTB-YWC	● FG-IR-WIFI1Z1+UTY-TRHX	● FG-IR-WIFI1Z1+UTB-YWC	● FG-IR-WIFI1Z1+UTY-TRHX	● FG-IR-WIFI1Z1+UTB-YWC	● FG-IR-WIFI1Z1+UTY-TRHX	● FG-IR-WIFI1Z1+UTB-YWC	● FG-IR-WIFI1Z1+UTY-TRHX	● FG-IR-WIFI1Z1+UTB-YWC	
		● FG-AC-WMP1Z1			● FG-RC-WMP1Z1		● FG-AC-WMP1Z1			● FG-RC-WMP1Z1	● FG-AC-WMP1Z1	● FG-RC-WMP1Z1	● FG-AC-WMP1Z1		● FG-AC-WMP1Z1	● FG-RC-WMP1Z1	● FG-AC-WMP1Z1	● FG-RC-WMP1Z1						● FG-AC-WMP1Z1		● FG-RC-WMP1Z1		● FG-AC-WMP1Z1		
		● FG-IR-WMP1Z1+UTY-TRHX	● FG-IR-WMP1Z1	● FG-IR-WMP1Z1+UTY-LRHYB1	● FG-IR-WMP1Z1+UTY-LBHXD	● FG-IR-WMP1Z1+UTY-TRHX	● FG-IR-WMP1Z1+UTB-YWC	● FG-IR-WMP1Z1+UTY-TRHX	● FG-IR-WMP1Z1+UTB-YWC	● FG-IR-WMP1Z1+UTY-TRHX	● FG-IR-WMP1Z1+UTB-YWC	● FG-IR-WMP1Z1+UTY-TRHX	● FG-IR-WMP1Z1+UTB-YWC	● FG-IR-WMP1Z1+UTY-TRHX	● FG-IR-WMP1Z1+UTB-YWC	● FG-IR-WMP1Z1+UTY-TRHX	● FG-IR-WMP1Z1+UTB-YWC	● FG-IR-WMP1Z1+UTY-TRHX	● FG-IR-WMP1Z1+UTB-YWC	● FG-IR-WMP1Z1+UTY-TRHX	● FG-IR-WMP1Z1+UTB-YWC	● FG-IR-WMP1Z1+UTY-TRHX	● FG-IR-WMP1Z1+UTB-YWC	● FG-IR-WMP1Z1+UTY-TRHX	● FG-IR-WMP1Z1+UTB-YWC	● FG-IR-WMP1Z1+UTY-TRHX	● FG-IR-WMP1Z1+UTB-YWC	● FG-IR-WMP1Z1+UTY-TRHX	● FG-IR-WMP1Z1+UTB-YWC	
External Switch Controller		● UTY-TERX																												

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



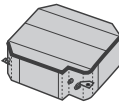
Human Sensor Kit
The room temperature can be controlled by detecting the temperature accurately from the built-in sensor



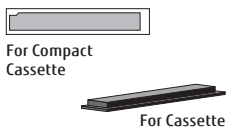
Cassette Grille
Cassette grille lineup matching the various interior is available. In addition, grid ceiling type cassette grille is also added to the lineup.



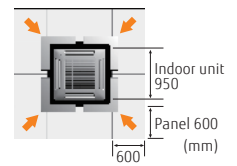
Fresh Air Intake Kit
Fresh air can be taken in by a fan which can be connected using external control unit.



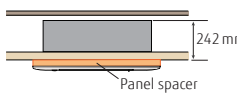
Insulation for High Humidity
For Compact Cassette type/ Cassette type
Insulation for High Humidity is used when the installation location is in the high humidity environment.



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.

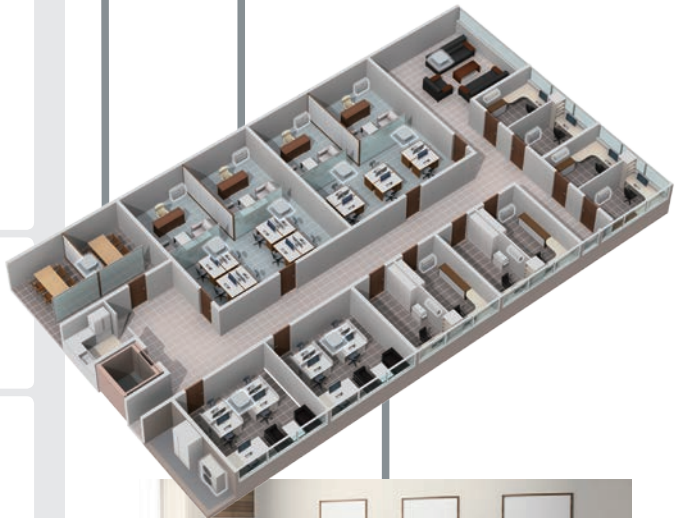


Panel Spacer
When the space above the ceiling is low and the main body is projected out of the ceiling surface, Panel Spacer can be used as decoration

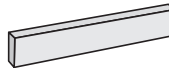
Optional Parts For V-III



Pressure sensor kit
The height difference between the pressure sensor kits can be expanded up to 110m.



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.



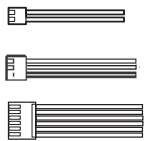
External Input and Output PCB
For Wall mounted, Duct, or Cassette type, these parts are required when external input and output function is used.



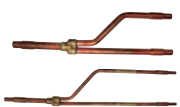
For Duct and Cassette type



External Input and Output PCB Box & Bracket
These are the box and bracket for installing the External input and output PCB



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-split type or VRF system.



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.

Auto Louver Grille Kit

UTD-GXTA-W / UTD-GXTB-W / UTD-GXTC-W

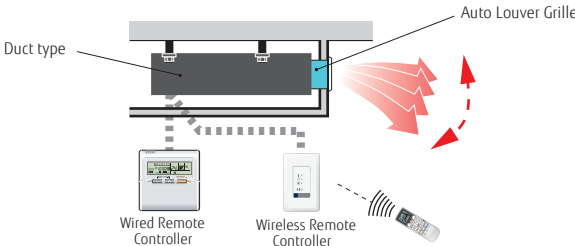


Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.

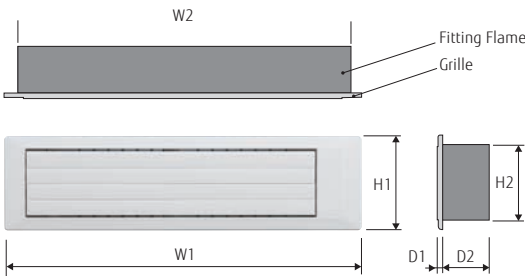


Flexible Control

- **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					
UTD-GXTB-W	883	845	180	148	9	84	
UTD-GXTC-W	1,083	1,045					

Specifications

Model name			UTD-GXTA-W	UTD-GXTB-W	UTD-GXTC-W
Applicable Indoor Unit			ARYG07/09LLTA ARYG12/14LLTB ARXD007/009/012/014GLEH (For VRF) ARXK004/007/009/012/014GLEH (For VRF) ARXD04GALH (For VRF)	ARYG18LLTB ARXD018GLEH (For VRF) ARXK018GLEH (For VRF)	ARXD024GLEH (For VRF) 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 × 1,083 × (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.		
operating range	Cooling	°C	18 to 32		
		% RH	80% or less		
	Heating	°C	16 to 30		



Pressure Sensor Kit

UTY-SPWX

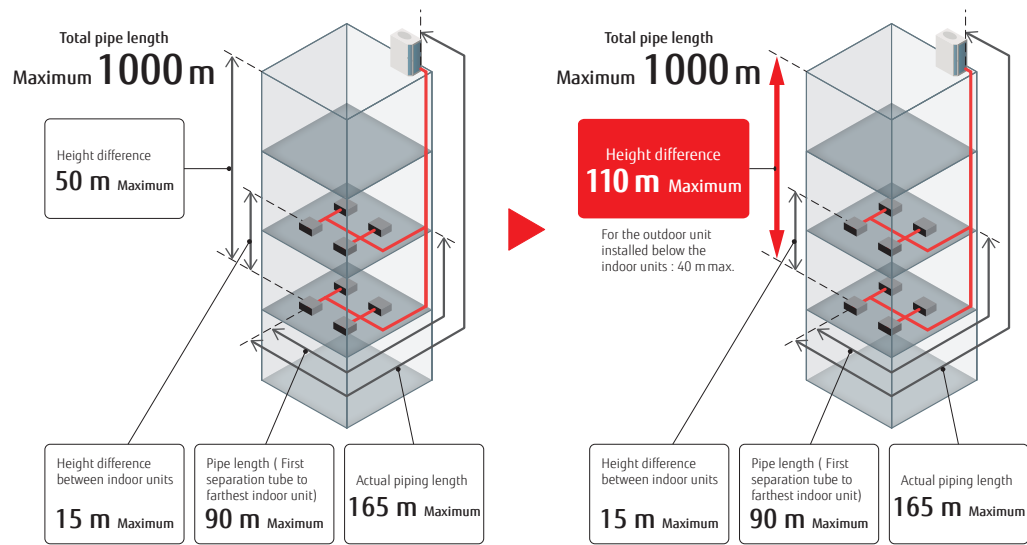


NEW

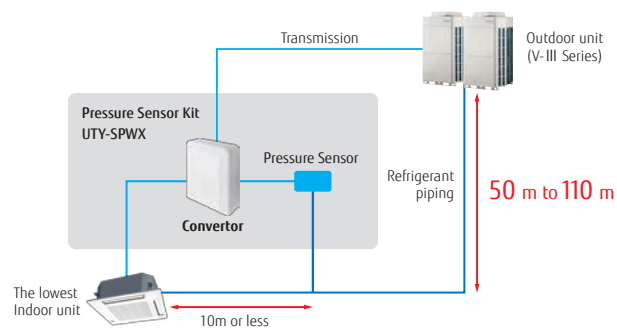


Design Flexibility

The height difference between the outdoor unit and the indoor unit is usually 50 m for the V-III Series, but by installing the pressure sensor kit it is possible to expand it to 110 m.
(*This product can be used connected only V-III series. Also, it is possible to use only the outdoor unit that outdoor unit software is compatible with this product.



System Over View



Pressure Sensor Kit

Pressure sensor kit (Converter)	Refrigerant pressure sensor	Joint pipe

Specifications

Model name	UTY-SPWX
Power Supply	DC16-9
Dimensions (H × W × D) (mm)	140 × 117 × 43
Weight (g)	200

External Power Supply Unit

UTZ-GXXC



NEW

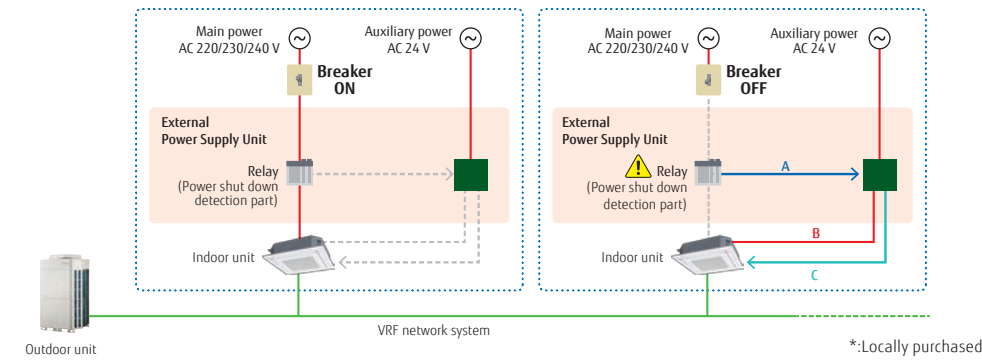


External Power Supply Unit can protect the units in the system even if some powers of indoor units are shut down in the system.

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. Built-in relay can reduce the installation time and cost.

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.



Note

- When changing the power supply voltage to AC24V, use a power transformer with an insulated structure that complies with the regulations * of the installation area.
- 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.

* For example UL Class II or IEC 61558 Class III

Specifications

Model name	UTZ-GXXC
Power Supply	24VAC 50/60Hz
Dimensions (H × W × D) (mm)	97 × 200 × 178
Weight (g)	800

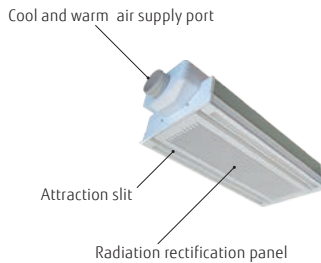
AIR BEAM

Radiation Air Outlet Unit

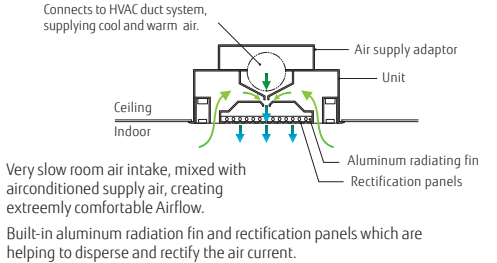
*Production by order
Please get in touch with us for more details.



Key component



Cross-section view



Airflow rate (m³/h)	180 (160-215)	270 (240-325)
Grid	600 × 2	600 × 3
AIR BEAM For system ceiling (Integrated type)	KS-180	KS-270

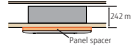
Optional Parts List For Split/Multi-split



Type	Refrigerant	Indoor unit													
		Cassette		Duct				Floor	Ceiling	Wall Mounted	Multi-split				
		4-way Flow Compact	Circular Flow	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
		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		ACYG 09/12/14 KVCA	ABYG 18/22/24/30/ 36/45/54 KRTA	ASYG 07/09/12 KPCA	AUXG07KVLA	ARXG 07/09/12/14/18 KSLAP	ARXG07KLLAP	
							ARYG45/54/60LHTA	ARYG72/90LHTA				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	 UTG-UKYA-W, UTG-UKYC-W, UTG-UKYA-B									 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 (07/09/12/14), UTD-GXTB-W (18)		
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-SF04ST UTD-RF204									
Drain Pump Unit						 UTZ-PX1NBA		 UTZ-PX1NAB		 UTR-DPB24T					
Wide Panel	 Indoor unit 510 Panel 600 (mm) 600		 UTG-AKXA-W												
Panel Spacer	 242 mm 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 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						
L-type Piping Kit										 UTP-FX24A (18/22/24) UTP-FX35A (30/36/45/54)					
Remote Controller Holder											 UTZ-RXLA				

Optional Parts List For VRF



Type	Refrigerant	Indoor unit																								Outdoor unit						
		Cassette								Duct										Indoor unit		Floor / Ceiling	Ceiling	Wall Mounted								
		One-way Flow	3D Flow	Compact Grid type / Standard type	Slim type	Large type	Slim type	Large type	Low Static Pressure Duct						Medium Static Pressure		High Static Pressure		-	EEV external	-			EEV external	-		-					
									Mini (With drain pump)	Slim (With drain pump)		Slim High Efficiency	Normal	High Efficiency		Normal	High Efficiency															
		AUXV 004/007/009/ 012/014/018/ 024GLEH	AUXS 018/024GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXD 18/24GALH	AUXA 18/24/30/ 36/45/54 GALH	AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH	AUXK 018/024/030/ 034/036/045/ 054GLEH	ARXX 004/007/009/ 012/014/018/ 024QLGH	ARXD 04GALH	ARXD 007/009/012/ 014/018/024 GLEH	ARXP 009/012/ 014/018 GLAH	ARXA 024/030/ 036/045 GLEH	ARXQ 018/024GTAH	ARXP 024/030GTAH	ARXC 036/072/ 090/096 GTEH	ARXC 45/60GATH	ARXQ 030GTAH	ACYA 004/007/ 009/012/014 GCGH	ACYE 004/007/ 009/012/014 GCEH	ABYA 012/014/ 018/024 GTEH	ABYA 030/036/ 045/054 GTEH	ASYA 004/007/009 012/014 GCGH	ASVE 004/007/009 012/014 GCEH	ASYA 18/24GBCH	ASYA 030/034GTEH	AY 072/090/108/ 126/144/162 LALBH AY 072/090/108/ 126/144/162 LNLBH					
Human Sensor Kit								● UTY-SHZXC																								
Remote Sensor Unit									● UTY-XSZX										● UTY-XSZX													
Cassette Grille		● UTG-UNYA-W UTG-UNYB-W	● UTG-USYA-W	● UTG-UFYE-W UTG-UFYC-W	● UTG-UGYA-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 (018)	● UTD-LF25NA	● UTD-LFNA	● UTD-LF60KA (45/60/036)																	
Flange												● UTD-SF045T(018) UTD-RF204(018)	● UTD-SF045T UTD-RF204								● UTD-RF204											
Drain Pump Unit												● UTZ-PX1NBA (018)	● UTZ-PX1NBA									● UTR-DPB24T										
Wide Panel					● UTG-AGYA-W		● UTG-AKXA-W																									
Panel Spacer					● UTG-BGYA-W		● UTG-BKXA-W																									
Fresh Air Intake Kit*1				● UTZ-VXAA	● UTZ-VXGA		● UTZ-VXRA																									
Air Outlet Shutter Plate				● UTR-YDZB	● UTR-YDZC		● UTR-YDZK																									
Insulation for High Humidity				● UTZ-KXGC	● UTZ-KXGB	● UTZ-KXGA	● UTZ-KXRA																									
Half Concealed Kit																		● UTR-STA														
External Power Supply Unit		● UTZ-GXXC					● UTZ-GXXC				● UTZ-GXXC				● UTZ-GXXC			● UTZ-GXXC						● UTZ-GXXC								
Pressure Sensor Kit																										● UTY-SPWX						

Function List For Split/Multi-split



External Input and Output Function/External Connect Kit/Communication Kit

Type	Refrigerant	Indoor unit										Indoor unit				Floor	Ceiling	Multi-split						Outdoor unit																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		Designer Series		Wall Mounted				Cassette		Duct				Slim	Medium Static Pressure (Compact & Comfort)			Duct		AGYG 09/12/14 KVCA	ABYG 11/22/24/ 30/36/45/ 54KRTA	ASYG 22KMTB	ARXG 07/09/ 12/14/18 KSLAP	Slim Duct		Compact Cassette	Single Split			Single Phase		Simultaneous Multi																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
				Standard Series				Compact 4-way Flow Series	Circular Flow Series	High Static Pressure		Big	8-unit multi-split																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
				ASYG 07/09/12/14 KGTB	ASYG 07/09/12/14 KETA	ASYG 07/09/12/14 KMCC	ASYG 18/24KMTB			ASYG 30/36KMTA	ASYG 07/09/12 KPCA		ASYG 18/24KLCA					AUXG 09/12/14/ 18/22/24 KXLA	AUXG 18/22/24/ 30/36/45/ 54KRLB					ARXG 09/12/14/ 18KLLAP	ABYG 12/14/18/ 22/24/30/ 36/45/54 KHTAP					ABYG 22KMLB, ARXG 24/30/36/ 45KMLA	ARXG 45/54 KHTA				ARYG 45/54/60 LHTA	ARYG 72/90LHTA	AUYG 07/09/14 KXLA	ADYG 30/36/45/54 KRTB, ADYG 36/45/54 KRTA	ADYG 36/45/54/60 LATT	ADYG 45/54/60/ 72/90LRLA	ADYG 36/45/54/60 LATT	ADYG 45/54/60/ 72/90LRLA	ADYG 36/45/54 KRTA	ADYG 36/45/54 KRTB	ADYG 36/45/54 LATT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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*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-SPLIT

Communication Kit

UTY-TWBXF2 UTY-TWRXZ2 UTY-TWRXZ3

UTY-TWRX UTY-XWNX UTY-XCBXZ2

External input and output PCB

UTY-XCSXZ1 (wire length 280mm)
UTY-XCSXZ2 (wire length 80mm)
for Wall Mounted type

UTY-XCSX
for Duct and Cassette type

External input and output PCB Box

UTZ-GXXB

UTZ-GXRA (For Cassette)
UTZ-GXEA (For Ceiling)

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												Indoor unit								Outdoor unit						Controller	Other				
		One-way Flow	3D Flow	Compact Grid type / Standard type	Cassette		Slim type	Large type	Slim type	Large type	Duct			Duct		Floor		Floor / Ceiling	Wall Mounted				J-IVL	J-IV	J-IVS	V-III	V-III Tropical	VR-IV	Central Remote Controller	RB Unit			
					4-way Flow	Circular Flow					Mini (With drain pump)	Slim (With drain pump)	Slim High Efficiency	Normal	High Efficiency	Normal	High Efficiency		-	EEV external	-	EEV external									-		
	AUXV 004/007/009/ 012/014/018/ 024GLEH	AUXS 018/024 GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXD 18/24GALH	AUXA 18/24/30/ 34/36/45/54 GALH	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/ 024GLGH	ARXD 007/009/012/ 014/018/024 GLEH, ARXD 04GALH	ARXP 009/012/ 014/018 GLAH	ARXA 024/030/ 036/045 GLEH	ARXO 018/024 GTAH	ARXP 024/030 GTAH	ARXC 036/072/090/ 096GTEH, ARXC 45/60GATH	ARXO 036GTAH	AGYA 004/007/ 009/012/014 GCGH	AGYE 004/007/ 009/012/014 GCEH	ABYA 012/014/018/ 024GTEH	ABYA 030/036/045/ 054GTEH	ASYA 004/007/009/ 012/014 GCGH	ASVE 004/007/009/ 012/014 GCEH	ASYA 18/24GDBH	ASYA 030/034GTEH	AIY 072/090/108/ 126/144/162 LELBH	AIY 040/045/054 LELBH, AIY 040/045/054 LELBH	AIY 040/045/054 LCLBH	AIY 072/090/108/ 126/144/162 LALBH	AIY 072/090/108/ 126/144/162 LNLBH	AIY 072/090/108/ 126/144 GALBH	UTY-DGYZ1	UTP-RX01AH UTP-RX01BH UTP-RX01CH UTP-RX04BH UTP-RX08AH UTP-RX12AH		
Indoor	Operation / Stop	● UTY-XWZXZD ○ UTY-XWZXZB																● UTY-XWZXZD ○ UTY-XWZXZB															
	All On / All Off																											●UTY-XWZXZ7 ○UTY-XWZXZ8					
	Batch Stop																							● UTY-XWZXZ6									
	Forced Stop	● UTY-XWZXZD ○ UTY-XWZXZB																● UTY-XWZXZD ○ UTY-XWZXZB															
	Emergency Stop	● UTY-XWZXZD ○ UTY-XWZXZB																● UTY-XWZXZD ○ UTY-XWZXZB								● UTY-XWZXZ6						●UTY-XWZXZ7 ○UTY-XWZXZ8	
	Forced Thermostat off	● UTY-XWZXZE ○ UTY-XWZXZ7																● UTY-XWZXZE ○ UTY-XWZXZ7															
	Low Noise Mode Operation																							● UTY-XWZXZ6									
	Cooling/ Heating Priority																							● UTY-XWZXZ6						●UTY-XWZXZ6 ○UTY-XWZXZB			
	Outdoor Unit Operation Peak Control																							● UTY-XWZXZ6									
Power Usage Information from Electricity Meter																							● UTY-XWZXZF										
Output	Operation Status	● UTY-XWZXZC																● UTY-XWZXZC								○ UTY-XWZXZ6						○UTY-XWZXZA	
	Error Status	● UTY-XWZXZC																● UTY-XWZXZC								○ UTY-XWZXZ6						○UTY-XWZXZA	
	Indoor Unit Fun Operation Status	● UTY-XWZXZC																● UTY-XWZXZC															
	Auxiliary Heater Output								● UTY-XWZXZC			● UTY-XWZXZC				● UTY-XWZXZC																	
	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

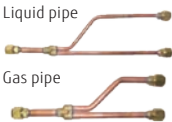
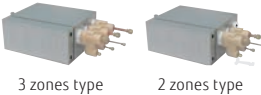
Communication system

External Connect Kit			
For Indoor unit		For Outdoor unit	
UTY-XWZXZ7		UTY-XWZXZD	
UTY-XWZXZB		UTY-XWZXZE	
UTY-XWZXZC			
For RB unit		For Central Remote Controller	
UTY-XWZXZ6		UTY-XWZXZ7	
UTY-XWZXZB		UTY-XWZXZ8	
		UTY-XWZXZA	
For Touch Panel Controller			
		UTY-XWZXZA	

Separation Tube etc.

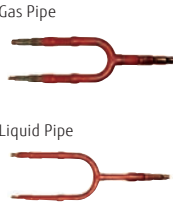
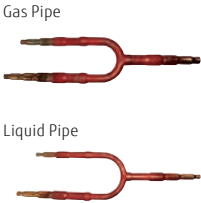
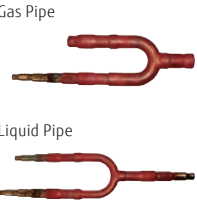
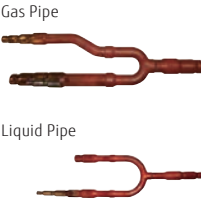
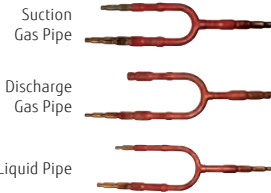
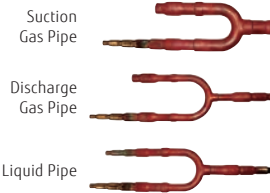
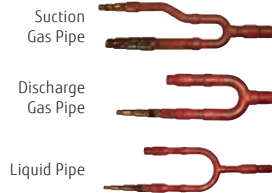


For SPLIT / MULTI-SPLIT / SIMULTANEOUS MULTI-SPLIT

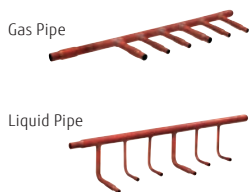
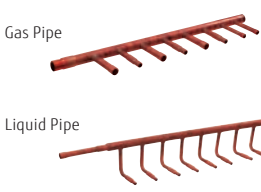
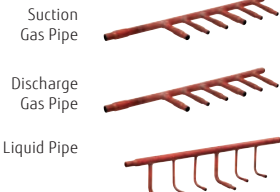
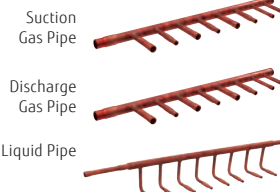
Separation Tube			Branch Box
UTP-SX236A / UTP-SX254A For 3 phase simultaneous multi-split UTP-SX272A For Simultaneous multi-split Twin / Triple / Double Twin	UTP-SX354A For 3 phase simultaneous multi-split UTP-SX372A For Simultaneous multi-split Twin / Triple / Double Twin	UTP-SX248A For 8-unit multi-split 	UTP-PY03A UTP-PY02A For 8-unit multi-split 



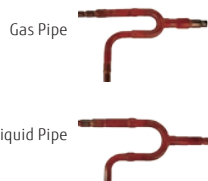
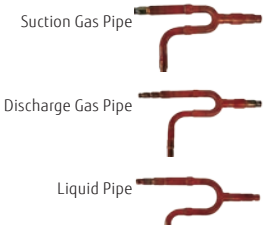
For VRF

Separation Tube			
UTP-AX054A 	UTP-AX090A 	UTP-AX180A 	UTP-AX567A 
UTP-BX090A 	UTP-BX180A 	UTP-BX567A 	UTP-LX180A For DX-Kit 

Header

UTR-H0906L / UTR-H1806L 	UTR-H0908L / UTR-H1808L 	UTP-J0906A / UTP-J1806A 	UTP-J0908A / UTP-J1808A 
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Outdoor Unit Branch Kit

UTP-CX567A 	UTP-DX567A 
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For VRF

EV Kit
Model code $\leq$ 09 : UTR-EV09XB Model code $\geq$ 12 : UTR-EV14XB For Compact Wall Mounted type 

RB Unit

UTP-RX01AH / UTP-RX01BH / UTP-RX01CH Single type 	UTP-RX04BH Multi-split type 	UTP-RX08AH Multi-split type 	UTP-RX12AH Multi-split type 
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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	3-6 Branches	UTR-H0906L	UTR-H1806L
	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	3-6 Branches	UTP-J0906A	UTP-J1806A
	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	ASYE004GCEH ASYE007GCEH ASYE009GCEH	AGYE004GCEH AGYE007GCEH AGYE009GCEH	ASYE012GCEH ASYE014GCEH	AGYE012GCEH AGYE014GCEH

RB Unit

Type		Single type			Multi-split type		
Model name		UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH	UTP-RX08AH	UTP-RX12AH
Power source	V/Ø/Hz	230/ 1 / 50					
Input power	W	17	24	31	96	136	204
Number of branches		1	1	1	4	8	12
Maximum capacity of connectable indoor units (Q)	kW	Q ≤ 8.0	Q ≤ 18.0	Q ≤ 28.0	Q ≤ 56.1*1	Q ≤ 72.0	Q ≤ 95.0
Maximum capacity of connectable indoor units per branch (Q)	kW	Q ≤ 8.0	Q ≤ 18.0	Q ≤ 28.0	Q ≤ 18.0	Q ≤ 8.0	Q ≤ 8.0
Maximum number of connectable indoor units per branch		3	8	8	8	7	7
Dimensions (H×W×D)	mm	198×298×268			260×658×428	298×660×618	298×990×618

*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

- W-002 WATERSTAGE™ Overview
- W-004 WATERSTAGE™ Lineup
- W-006 Benefits
- W-008 Home Heating & Domestic Hot Water
- W-010 High Efficiency Technology
- W-012 Split Type
 - Comfort Series
 - Super High Power Series
 - High Power Series
- W-018 Split DHW Integrated Type
 - Comfort Series
 - Super High Power Series
 - High Power Series
- W-024 Control Overview
- W-026 Comfort Control
- W-028 System Configuration
- W-030 Case Studies
- W-032 Simplified installation
 - Easy Installation & Maintenance
- W-034 Installation Limitations
- W-036 AIR TO WATER Optional Parts
- W-038 New Monobloc Overview
- W-040 Monobloc Type



WATERSTAGE™
Innovative Solution of Domestic Heating
SPLIT TYPE / SPLIT DHW INTEGRATED TYPE

AIR TO WATER
Residential



FUJITSU GENERAL LIMITED

WATERSTAGE™ Overview

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, bathroom, and swimming pool.



27 Models

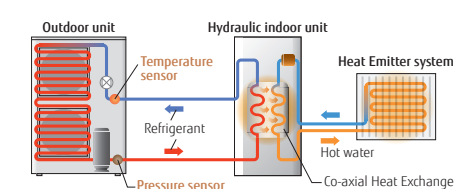
Fujitsu General WATERSTAGE™ Heat Pumps are very efficient, regenerative and varied central heating systems, which absorb the energy mainly from the air.



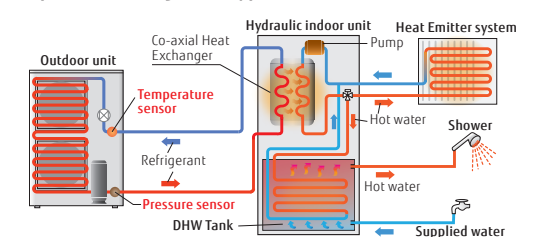
Optimization of refrigerant cycle operation

Super High Power and High Power model achieves high performance and efficiency by adopting twin sensors and control technology corresponding to hot water heating.

Split type

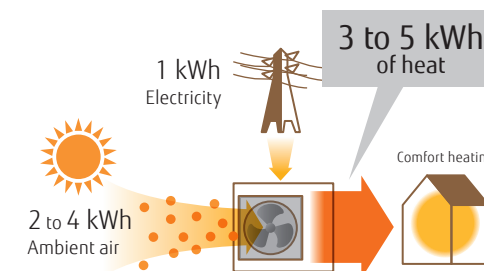


Split DHW Integrated type



What's a Heat Pump ?

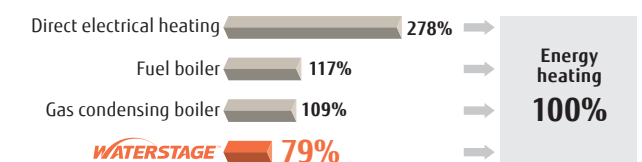
Absorbing free energy from the atmosphere. Heat Pump system requires only 1 kW of electricity to generate 3 to 5 kW thermal energy.



Primary Energy Usage Reduced Drastically!

Proportion of primary energy into heating energy of 100%

Primary Energy Consumption*



*Electricity loss is different due to power plant. Example efficiency of power plant: 36%

WATERSTAGE™ Lineup



Type	Super High Power Series		High Power Series		Comfort Series		Super High Power Series		High Power Series		Comfort Series		Monobloc Type		
Hydraulic indoor unit															
			 		  				 		  		 		
Capacity range	15/16/17 kW		11/14 kW 11/14/16 kW		5/6 kW 8 kW 10 kW		15/16/17 kW		11/14 kW 11/14/16 kW		5/6 kW 8 kW 10 kW		5/6 kW 8 kW		
System outline	• 60°C hot water supply even at -20°C outdoor temperature • 55°C hot water supply even at -22°C outdoor temperature • Different heating system can be used. Like underfloor heating, radiators and others.* • Heating and DHW in one system.* • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operating range is -25 to 35 °C.		• 60°C hot water supply even at -20°C outdoor temperature • Different heating system can be used. Like underfloor heating, radiators and others.* • Heating and DHW in one system.* • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cascade connection up to three systems.* • Cooling operation is possible.* • Operating range is -25 to 35 °C.		• 55°C hot water supply even at -10°C outdoor temperature • Heating and DHW in one system.* • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operating range is -20 to 35 °C. • Different heating system can be used. Like underfloor heating, radiators and others.		• 60°C hot water supply even at -20°C outdoor temperature • 55°C hot water supply even at -22°C outdoor temperature • Different heating system can be used. Like underfloor heating, radiators and others.* • Heating and DHW space saving in one hydraulic indoor unit. • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operating range is -25 to 35 °C.		• 60°C hot water supply even at -20°C outdoor temperature • Different heating system can be used. Like underfloor heating, radiators and others.* • Heating and DHW space saving in one hydraulic indoor unit. • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operating range is -25 to 35 °C.		• 55°C hot water supply even at -10°C outdoor temperature • Heating and DHW in one system. • Additional electric heater for backup provided. • Up to two independent control circuits.* • Cooling operation is possible.* • Operating range is -20 to 35 °C. • Different heating system can be used. Like underfloor heating, radiators and others.		• 55°C hot water supply even at -10°C outdoor temperature • Cooling operation is possible. • Operating range is -10 to 46°C in cooling, -20 to 35°C in heating.		
Power source	Single Phase, 230 V/50 Hz	3 Phase, 400 V/50 Hz	Single Phase, 230 V/50 Hz	3 Phase, 400 V/50 Hz	Single Phase, 230 V/50 Hz		Single Phase, 230 V/50 Hz	3 Phase, 400 V/50 Hz	Single Phase, 230 V/50 Hz	3 Phase, 400 V/50 Hz	Single Phase, 230 V/50 Hz		Single Phase, 230 V/50 Hz		
Capacity	5 kW				WSYA050ML3 WOYA060KLT 						WGYA050ML3 WOYA060KLT 		CPYA050LLW		
	6 kW				WSYA080ML3 WOYA060KLT 						WGYA080ML3 WOYA060KLT 		CPYA060LLW		
	8 kW				WSYA080ML3 WOYA080KLT 						WGYA080ML3 WOYA080KLT 		CPYA080LLW		
	10 kW				WSYA100ML3 WOYA100KLT 						WGYA100ML3 WOYA100KLT 				
	11 kW			WSYG140DG6 WOYG112LHT	WSYK160DG9 WOYK112LCTA 					WGYG140DG6 WOYG112LHT	WGYK160DG9 WOYK112LCTA 				
	14 kW			WSYG140DG6 WOYG140LCTA	WSYK160DG9 WOYK140LCTA 					WGYG140DG6 WOYG140LCTA	WGYK160DG9 WOYK140LCTA 				
	15 kW			WSYK170DJ9 WOYK150LJL					WGYK170DJ9 WOYK150LJL						
	16 kW	WSYG160DJ6 WOYG160LJL			WSYK160DG9 WOYK160LCTA 			WGYG160DJ6 WOYG160LJL			WGYK160DG9 WOYK160LCTA 				
	17 kW			WSYK170DJ9 WOYK170LJL					WGYK170DJ9 WOYK170LJ						

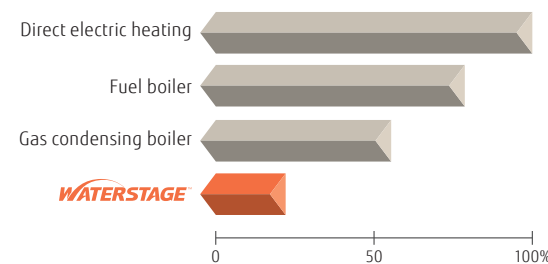
*Optional parts are required.

Benefits

Less CO₂ Emissions

This environmentally-friendly system substantially reduces CO₂ emissions compared to conventional gas and hydro carbons combustion.

Average annual CO₂ emissions



*Calculations based on data provided by European Program-2001¹ for EU 27
Fuel boiler efficiency: 89%, Gas boiler efficiency: 93%

Clean and Healthy

Since burners are unnecessary, NO_x and other harmful substances are not generated.

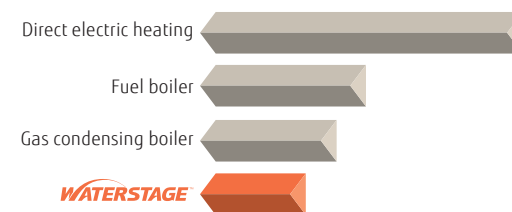


Environmentally friendly heating system

Low Running Cost

Running cost is low and economical by high efficiency heat pump technology.

Average annual running cost



*The values may vary depending on installation, location, and operating conditions.

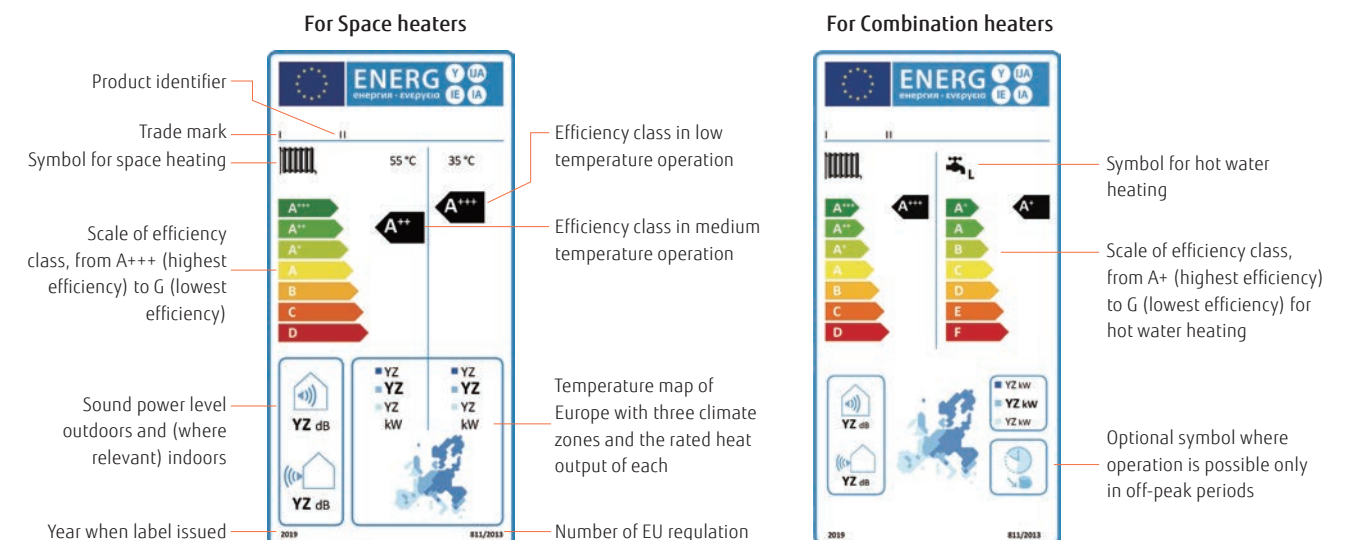
Easy Installation and Maintenance

All components are built into compact outdoor unit or hydraulic indoor unit.



Well structured Hydraulic indoor unit.
Sophisticated arrangement of hydraulic units, allows easy piping and maintenance

Energy Efficiency standard Product labels



The Ecodesign Directive Lot 1 Regulation 813/2013

New Ecodesign directive defines a regulatory framework for improving the environmental performance of energy-related products (ErP) through design.

From 26 September 2015, the Ecodesign Directive will apply to space heaters (including heat pumps and fossil fuel boilers), combination heaters (for both space and water heating), water heaters and water storage tanks.

All these products will have to meet minimum requirements for energy efficiency^{*1} and maximum sound power levels. The minimum energy efficiency level will be raised from 26 September 2017 and maximum sound power level will be lowered on 26 September 2018.

*1: Energy efficiency is represented by seasonal space heating efficiency (η_s). This value is based upon the seasonal coefficient of performance (SCOP).

The Energy Labelling Directive (EU) No. 811/213

The energy label aims to help consumers make direct comparisons of energy use, as well as product specific features. On all labels, product identifier, efficiency class, sound power levels and heat output must be displayed. For heat generators, the scale runs from A+++ to D. There are two different product labels for space heaters and combination heaters.

Seasonal space heating Energy efficiency class

Except low temp HP 55°C	Low temp HP 35°C
A+++ η _s ≥ 150	η _s ≥ 175
A++ 125 ≤ η _s < 150	150 ≤ η _s < 175
A+ 98 ≤ η _s < 125	123 ≤ η _s < 150
A 90 ≤ η _s < 98	115 ≤ η _s < 123
B 82 ≤ η _s < 90	107 ≤ η _s < 115
C 75 ≤ η _s < 82	100 ≤ η _s < 107
D 36 ≤ η _s < 75	61 ≤ η _s < 100
E 34 ≤ η _s < 36	59 ≤ η _s < 61
F 30 ≤ η _s < 34	55 ≤ η _s < 59
G η _s < 30	η _s < 55

EHPA Quality Label



Fujitsu General's WATERSTAGE^{*2} have obtained the EHPA Quality Label^{*3} by tests according to the international Standards EN14511 and EN17025. The EHPA Quality Label^{*3} is a label that shows

the end-consumer a quality heat pump unit on the market.

*2: Only High Power 3 phase

*3: Check the validity of label at www.ehpa.org/quality/quality-label/

SG-Ready Label



SG-Ready is a defined standard by BWP^{*4}, 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.

*4: BWP = the Federal German Heat Pump Association

The CEN Heat Pump KEYMARK



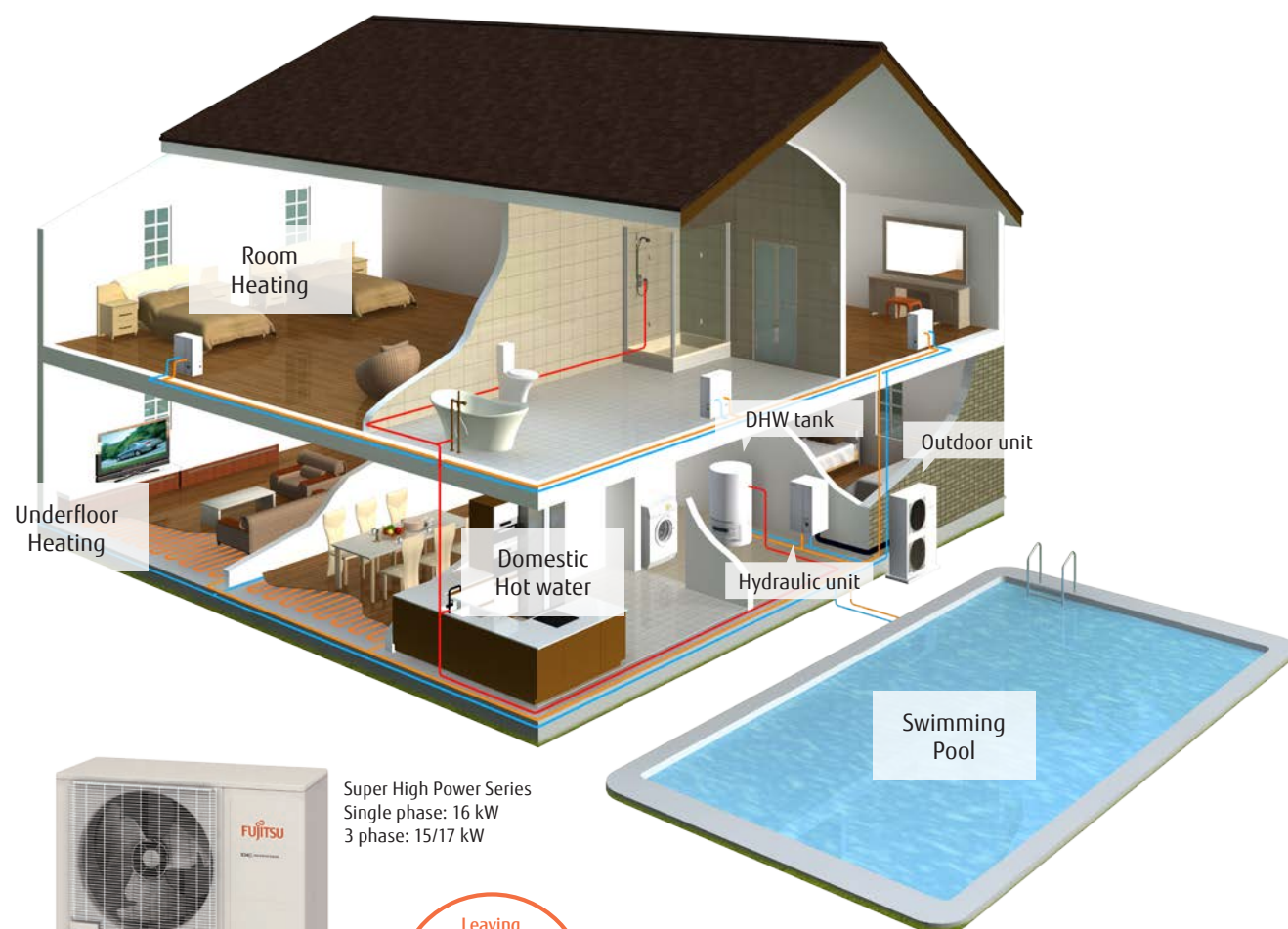
The Heat Pump KEYMARK is a full certificate supporting the quality of heat pumps in the European market. The Heat Pump KEYMARK is a voluntary, independent, European certification mark (ISO type 5 certification) for all heat pumps, combination heat pumps and hot water heaters (as covered by Ecodesign, EU Regulation 813/2013 and 814/2013). Fujitsu General's WATERSTAGE^{*5} have obtained the KEYMARK^{*6}.

*5: Only R32 comfort model

*6: Check the validity of mark at www.heatpumpkeymark.com/about/

Home Heating & Domestic Hot Water

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.



Super High Power Series
Single phase: 16 kW
3 phase: 15/17 kW

Leaving
water temperature
60°C

High leaving water temperature

High leaving water temperature 60°C maintained even at -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.*1

*1: For High Power only



NEW



Adopting new refrigerant R32

R32 refrigerant is highly environmentally friendly for the reduction of the global warming potential than other refrigerant currently available on the market.



300 Liter

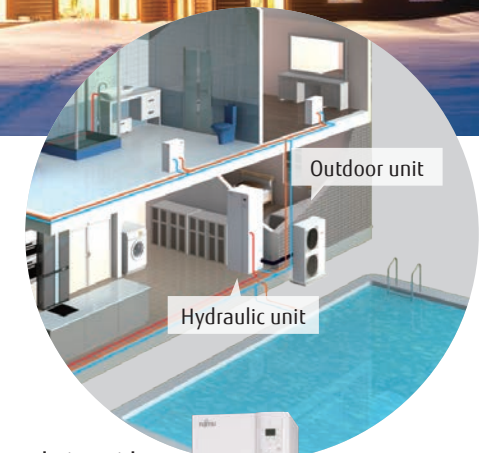
+ DHW Tank

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 achieved even at low outdoor temperature.

*Optional parts necessary

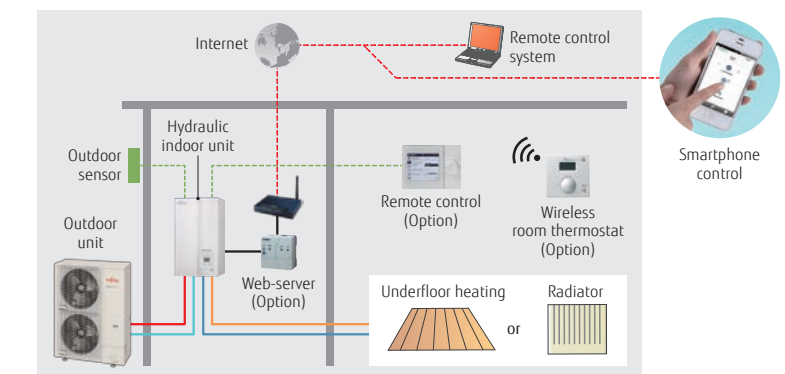


Stylish space saving solution with
built-in DHW tank



Space is saved drastically due to built-in DHW tank.

Existing boiler can be replaced easily. Higher heating capacities can be achieved as there is the flexibility to use more units in a cascade type connection.



Smart control

User's needs are supported by offering a variety of controls, such as individual control and remote control options.

High Efficiency Technology

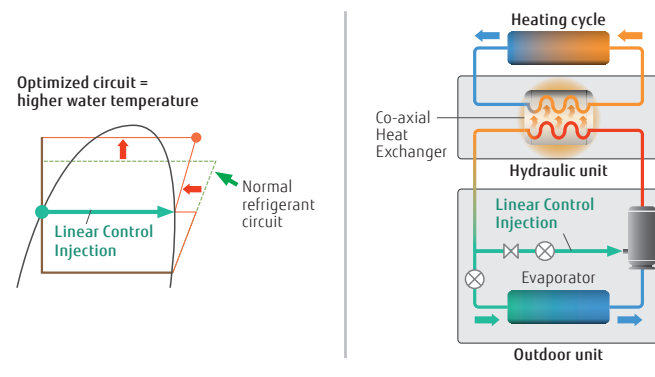
Twin Rotary Compressor



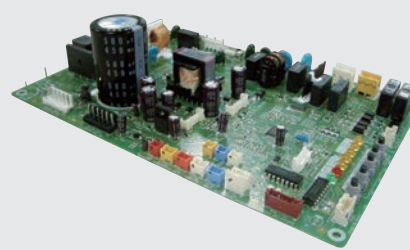
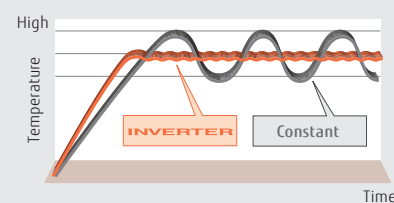
For Outdoor Unit

Twin Rotary Compressor with Linear Control Injection Port

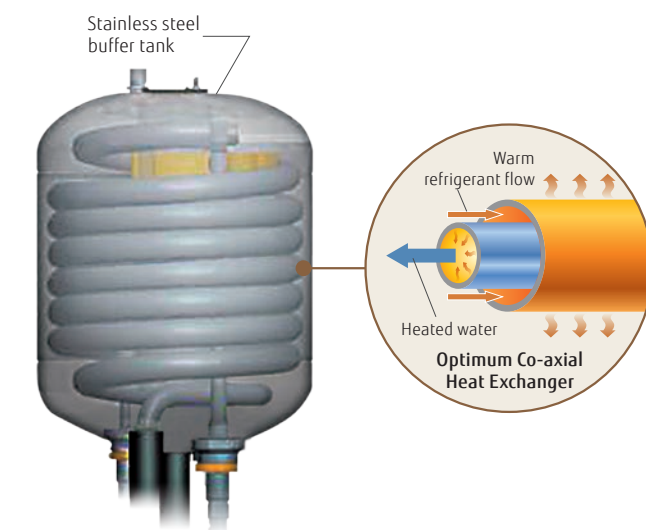
The compressor achieves high condensing temperature without overheating the discharge gas temperature by Linear Control Injection process during compression. Therefore, the condensing temperature rises up higher than normal circuit. A higher hot water temperature is achieved by controlling the injection amount according to the usage state.



Accurate temperature control by DC inverter technology



High Durability Co-axial Heat Exchanger



For Hydraulic Indoor Unit

Stainless steel buffer tank

Heat exchange amount is 25% higher than previous model. Energy saving performance is improved.

- Corrosion protected
- No flow switch necessary
- Anti-freeze-protection is unnecessary

Class A Pump

Energy saving pump with constant volume or pressure adjustment function.



Split Type

Comfort Series



High Leaving Water Temperature

Maximum leaving water temperature is 55°C without backup heater. Hot supply temperature can be maintained even at -10°C outdoor temperature.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



High COP

Waterstage Air to water heat pumps work much more efficiently and save energy compared to traditional heating systems.

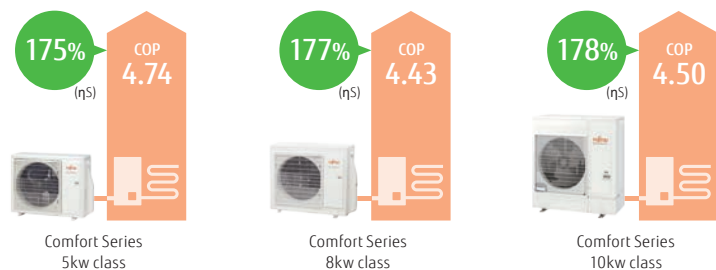
Energy efficiency class



*Temperature application : Heating Temp. 35°C.

Seasonal space heating energy efficiency (η_s)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



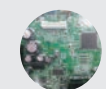
Outdoor unit technology



DC Fan Motor
High performance, high efficiency small DC fan motor mounted.



DC Twin Rotary Compressor
High efficient DC twin rotary compressor



DC Inverter
Smooth water temperature control realized by DC inverter control.

Hydraulic indoor unit:
WSYA050ML3 / WSYA080ML3 /

NEW WSYA100ML3

Outdoor unit:
WOYA060KLT / WOYA080KLT /

NEW WOYA100KLT



Specifications

Model Name	Hydraulic indoor unit	WSYA050ML3	WSYA080ML3	WSYA080ML3	WSYA100ML3
Capacity range	Outdoor unit	WOYA060KLT	WOYA060KLT	WOYA080KLT	WOYA100KLT
7°C/35°C floor heating *1	Heating capacity	4.50	5.50	7.50	9.50
	Input power	0.949	1.18	1.69	2.11
	COP	4.74	4.65	4.43	4.50
2°C/35°C floor heating *1	Heating capacity	4.50	5.30	6.30	9.30
	Input power	1.33	1.65	1.96	3.08
	COP	3.39	3.22	3.21	3.02
-7°C/35°C floor heating *1	Heating capacity	4.40	5.00	5.70	8.90
	Input power	1.59	1.90	2.13	3.36
	COP	2.76	2.63	2.68	2.65
Space heating characteristics*2					
Temperature application	°C	55	35	55	35
Energy efficiency class		A++	A+++	A++	A+++
Rated heat output(P _{rated})	kW	5	5	6	7
Seasonal space heating energy efficiency(η _s)	%	125	175	125	175
Annual energy consumption	kWh	3,035	2,322	3,411	2,594
Sound power level*3	Hydraulic indoor unit	40	-	40	-
	Outdoor unit	57	-	57	-
Hydraulic indoor unit Specification					
Power source		Single phase 230 V 50 Hz			
Dimensions H×W×D	mm	847 × 450 × 493	847 × 450 × 493	847 × 450 × 493	847 × 450 × 493
Weight (Net)	kg	47	47	47	47
Water circulation	Min./Max.	L/min	7.6/22.0	8.5/22.0	10.0/22.0
Buffer tank capacity	L	16	16	16	16
Expansion vessel capacity	L	8	8	8	8
Leaving water temperature range	Max.	°C	55	55	55
Water pipe connection diameter	Flow/Return	mm	Ø 25.4/Ø 25.4	Ø 25.4/Ø 25.4	Ø 25.4/Ø 25.4
Backup heater	Capacity	kW	3.0	3.0	3.0
Outdoor unit specification					
Power source		Single phase 230 V 50 Hz			
Current	Max.	A	13.0	13.0	19.0
Dimensions H × W × D	mm	632 × 799 × 290	632 × 799 × 290	716 × 820 × 315	998 × 940 × 320
Weight (Net)	kg	39	39	42	62
Refrigerant	Type (Global Warming Potential)	R32(675)			
	Charge	kg	0.97	0.97	1.02
Additional refrigerant charge amount	g/m	25	25	25	20
Connection pipe	Diameter	Liquid	6.35	6.35	6.35
		Gas	12.70	12.70	12.70
	Length	Min./Max.	3/30	3/30	3/30
	Length(Pre-charge)	m	15	15	15
Height difference	Max.	m	20	20	20
	Heating	°C	-20 to 35	-20 to 35	-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.

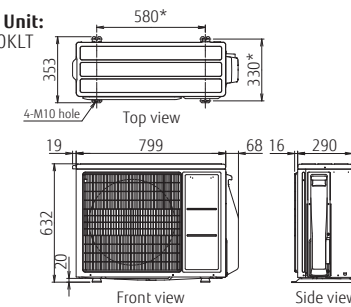
*2:All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

*3:The values of sound power level are based on measurement of EN12102 standard under conditions of EN14825 standard.

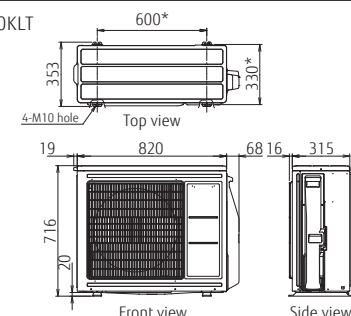
Dimensions

(Unit:mm)

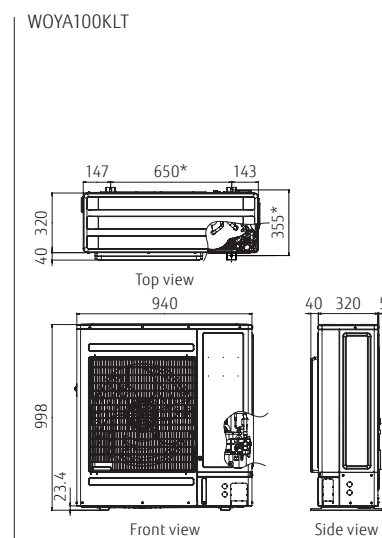
Outdoor Unit:
WOYA060KLT



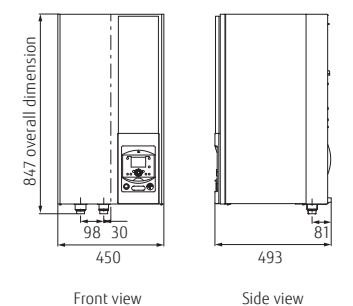
WOYA080KLT



WOYA100KLT



Hydraulic Indoor Unit:
WSYA050ML3/WSYA080ML3/WSYA100ML3



*Pitch of bolts for installation

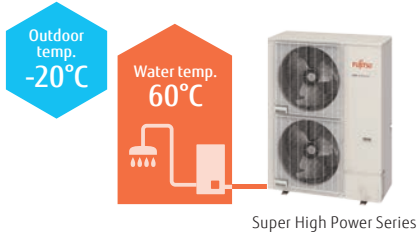
Split Type
Super High Power Series



High Leaving Water Temperature

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.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



High COP

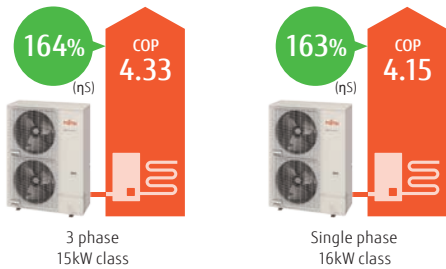
Waterstage Air to water heat pumps work much more efficiently and save energy compared to traditional heating systems.

Energy efficiency class



Seasonal space heating energy efficiency (η_s)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



Extended Operating Range down to -25°C

Improved operating range down to -25°C outdoor temperature



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

Specifications

Model Name		Hydraulic indoor unit		WSYG160DJ6		WSYK170DJ9		WSYK170DJ9		
Capacity range		Outdoor unit		WOYG160LJL		WOYK150LJL		WOYK170LJL		
7°C/35°C floor heating * ¹				16		15		17		
	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(η _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	22			22			
Expansion vessel capacity			L	10			10			
Leaving water temperature range			Max.	°C	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	28.0			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)						
Additional refrigerant charge amount			Charge	kg	3.80			3.80		3.80
				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	
Operating range	Height difference	Max.	m	25/15 (Outdoor unit:Upper/Lower)						
		Heating	°C	-25 to 35			-25 to 35		-25 to 35	

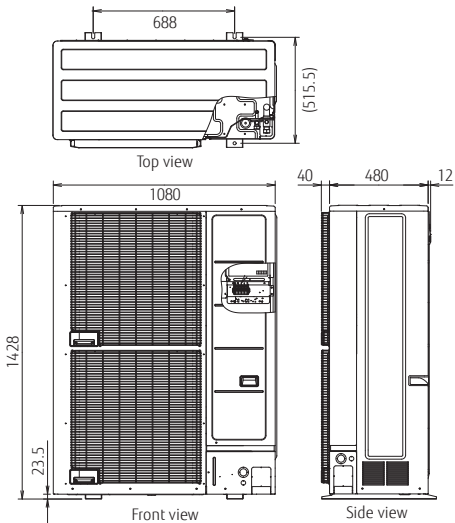
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

*2:All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

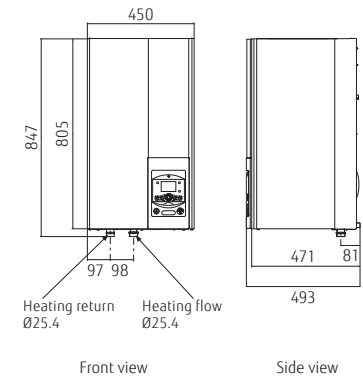
Dimensions

(Unit:mm)

Outdoor Unit:
Single phase: WOYG160LJL
3 phase: WOYK150LJL/WOYK170LJL



Hydraulic Indoor Unit:
Single phase : WSYG160DJ6
3 phase: WSYK170DJ9



Split Type
High Power Series



High Leaving Water Temperature

High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



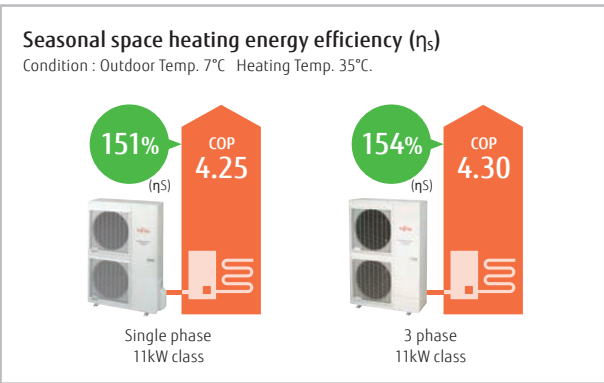
High COP

Waterstage Air to water heat pumps work much more efficiently and save energy compared to traditional heating systems.

Energy efficiency class



*Temperature application : Heating Temp. 35°C.



Hydraulic indoor unit:
WSYG140DG6 / [3 phase] WSYK160DG9
Outdoor unit:
WOYG112LHT / WOYG140LCTA
[3 phase] WOYK112LCTA / WOYK140LCTA /
WOYK160LCTA



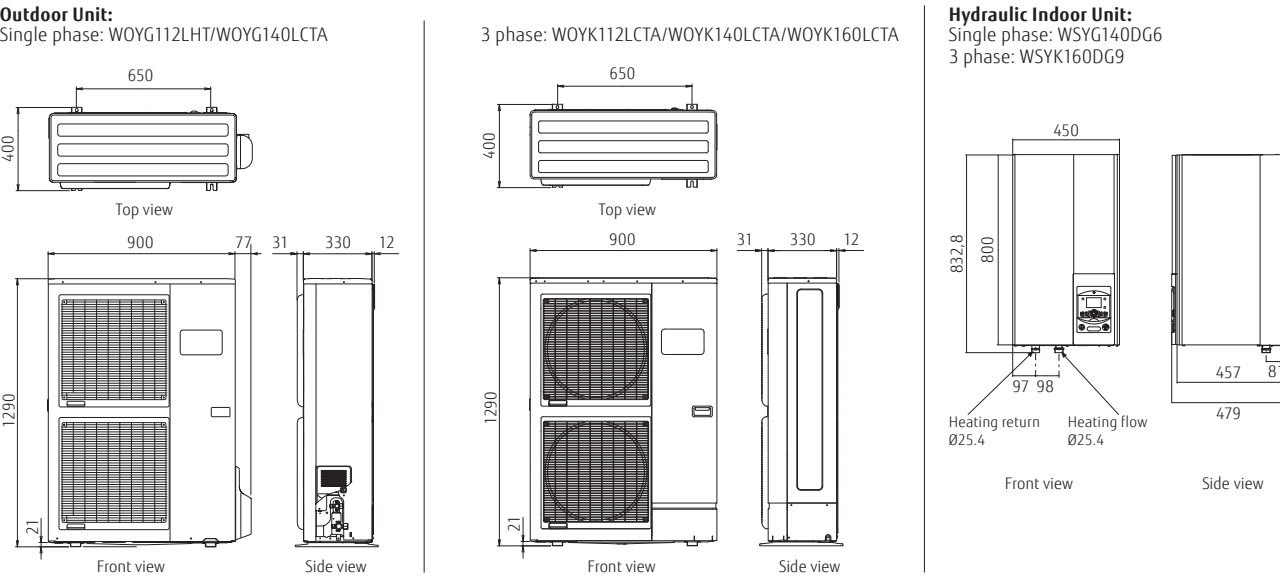
Specifications

Model Name	Hydrylic indoor unit		WSYG140DG6		WSYG140DG6		WSYK160DG9		WSYK160DG9		WSYK160DG9		
Capacity range	Outdoor unit		WOYG112LHT		WOYG140LCTA		WOYK112LCTA		WOYK140LCTA		WOYK160LCTA		
7℃/35℃ floor heating * ¹	Heating capacity	kW	11		14		11		14		16		
	Input power		10.80		13.50		10.80		13.50		15.17		
	COP		2.54		3.23		2.51		3.20		3.70		
2℃/35℃ floor heating * ¹	Heating capacity	kW	4.25		4.18		4.30		4.22		4.10		
	Input power		10.77		12.00		10.77		13.00		13.50		
	COP		3.44		3.87		3.40		4.15		4.34		
-7℃/35℃ floor heating* ¹	Heating capacity	kW	3.13		3.10		3.17		3.13		3.11		
	Input power		10.38		11.54		10.38		12.20		13.50		
	COP		4.32		5.08		4.28		5.13		5.40		
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(η _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		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			mm	ø 25.4/ø 25.4				ø 25.4/ø 25.4					
Backup heater			Capacity	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)										
Additional refrigerant charge amount			Charge	kg	2.50								
			g/m	50									
Connection pipe	Diameter	Liquid	mm	ø 9.52									
		Gas	mm	ø 15.88									
	Length	Min./Max.	m	5/20									
	Length(Pre-charge)		m	15									
Operating range	Height difference	Max.	m	15									
		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 www.fujitsu-general.com/global/support/downloads/search/

Dimensions

(Unit:mm)



Split DHW Integrated Type

Comfort Series



High Leaving Water Temperature

Maximum leaving water temperature is 55°C without backup heater. Hot water supply temperature can be maintained even at -10°C outdoor temperature.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



High COP

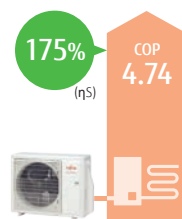
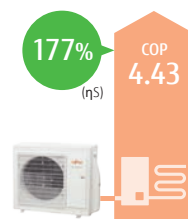
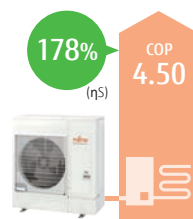
Waterstage Air to water heat pumps work much more efficiently and save energy compared to traditional heating systems.

Energy efficiency class

*Temperature application : Heating Temp. 35°C.

Seasonal space heating energy efficiency (η_s)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.

Comfort Series
5kw classComfort Series
8kw classComfort Series
10kw class

Outdoor unit technology



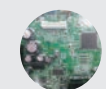
DC Fan Motor

High performance, high efficiency small DC fan motor mounted.



DC Twin Rotary Compressor

High efficient DC twin rotary compressor



DC Inverter

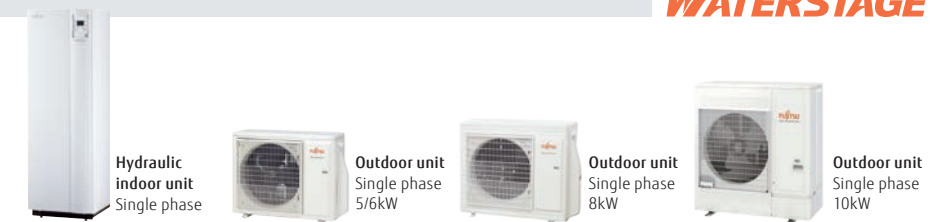
Smooth water temperature control realized by DC inverter control.

Hydraulic indoor unit:
WGYA050ML3 / WGYA080ML3 /

NEW WGYA100ML3

Outdoor unit:
WOYA060KLT / Woya080KLT /

NEW Woya100KLT



Specifications

Model Name	Hydraulic indoor unit Outdoor unit	WGYA050ML3 WOYA060KLT	WGYA080ML3 WOYA080KLT	WGYA080ML3 WOYA080KLT	WGYA100ML3 WOYA100KLT
Capacity range		5	6	8	10
7°C/35°C floor heating *1	Heating capacity	4.50	5.50	7.50	9.50
	Input power	0.949	1.18	1.69	2.11
	COP	4.74	4.65	4.43	4.50
2°C/35°C floor heating *1	Heating capacity	4.50	5.30	6.30	9.30
	Input power	1.33	1.65	1.96	3.08
	COP	3.39	3.22	3.21	3.02
-7°C/35°C floor heating*1	Heating capacity	4.40	5.00	5.70	8.90
	Input power	1.59	1.90	2.13	3.36
	COP	2.76	2.63	2.68	2.65
Space heating characteristics**					
Temperature application	°C	55	35	55	35
Energy efficiency class		A++	A+++	A++	A+++
Rated heat output(P _{rated})	kW	5	5	6	8
Seasonal space heating energy efficiency(η _s)	%	125	175	125	175
Annual energy consumption	kWh	3,035	2,322	3,411	2,594
Sound power level*3	Hydraulic indoor unit	40	-	40	-
	Outdoor unit	57	-	60	-
Domestic hot water characteristics**					
Load profile		L	L	L	L
Energy efficiency class		A+	A+	A+	A+
Energy efficiency(η _{wh})	%	130	130	130	130
Annual electricity consumption	kWh	793	793	793	793
Hydraulic indoor unit Specification					
Power source		Single phase 230 V 50 Hz			
Dimensions H×W×D	mm	1,863 × 648 × 700	1,863 × 648 × 700	1,863 × 648 × 700	1,863 × 648 × 700
Weight (Net)	kg	145	145	145	145
Water circulation	Min./Max. L/min	7.6/22.0	8.5/22.0	10.0/22.0	13.2/30.0
DHW capacity	L	190	190	190	190
Hot water heater capacity	kW	1.5	1.5	1.5	1.5
Buffer tank capacity	L	16	16	16	16
Expansion vessel capacity	L	8	8	8	8
Leaving water temperature range	Max. °C	55	55	55	55
Water pipe connection diameter	Flow/Return mm	Ø 25.4/Ø 25.4	Ø 25.4/Ø 25.4	Ø 25.4/Ø 25.4	Ø 25.4/Ø 25.4
Hot water pipe connection diameter	mm	Ø 19.05	Ø 19.05	Ø 19.05	Ø 19.05
Backup heater	Capacity kW	3.0	3.0	3.0	3.0
Outdoor unit specification					
Power source		Single phase 230 V 50 Hz			
Current	Max. A	13.0	13.0	18.0	19.0
Dimensions H × W × D	mm	632 × 799 × 290	632 × 799 × 290	716 × 820 × 315	998 × 940 × 320
Weight (Net)	kg	39	39	42	62
Refrigerant	Type (Global Warming Potential)	R32(675)	R32(675)	R32(675)	R32(675)
	Charge	0.97	0.97	1.02	1.63
Additional refrigerant charge amount		g/m	25	25	20
			6.35	6.35	9.52
Connection pipe	Diameter	mm	12.70	12.70	15.88
	Length	m	3/30	3/30	3/30
	Length(Pre-charge)	m	15	15	20
	Height difference	Max. m	20	20	20
Operating range	Heating	°C	-20 to 35	-20 to 35	-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.

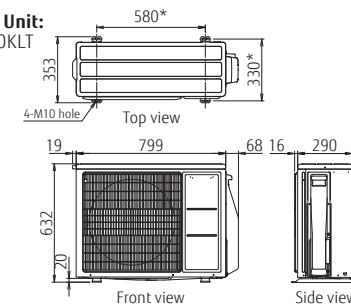
*2:All information of ErP can be available for downloaded from www.fujitsu-general.com/global/support/downloads/search/

*3:The values of sound power level are based on mesurement of EN12102 standard under conditions of EN14825 standard.

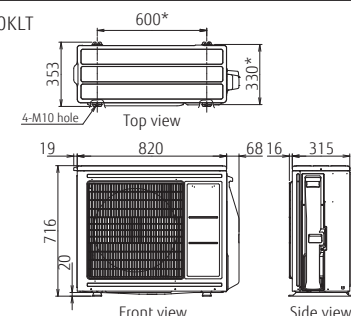
Dimensions

(Unit:mm)

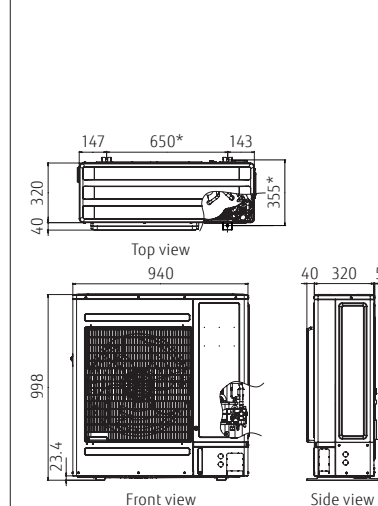
Outdoor Unit:
WOYA060KLT



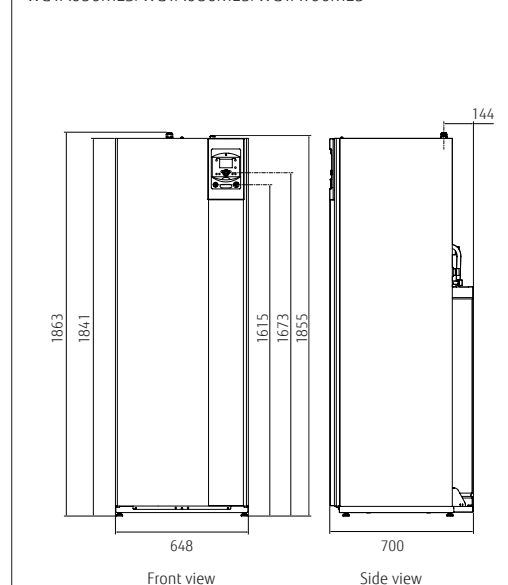
WOYA080KLT



WOYA100KLT



Hydraulic Indoor Unit:
WGYA050ML3/WGYA080ML3/WGYA100ML3



*Pitch of bolts for installation

Split DHW
Integrated Type

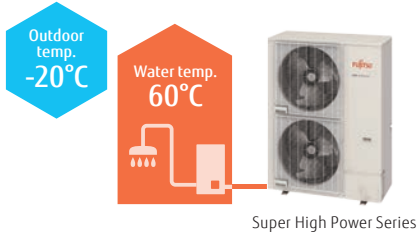
Super High Power Series



High Leaving Water Temperature

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.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



High COP

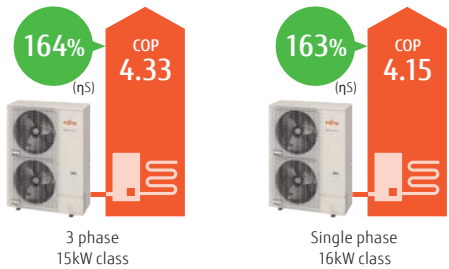
Waterstage Air to water heat pumps work much more efficiently and save energy compared to traditional heating systems.

Energy efficiency
class



Seasonal space heating energy efficiency (η_s)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



Extended Operating Range down to -25°C

Improved operating range down to -25°C outdoor temperature



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

Specifications

Model Name			Hydraulic indoor unit		WGYG160DJ6		WGYK170DJ9		WGYK170DJ9		
Capacity range			Outdoor unit		WOYG160LJL		WOYK150LJL		WOYK170LJL		
					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(η _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(η _{wh})			%	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			Min./Max.	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							
Buffer tank capacity			L	22							
Expansion vessel capacity			L	12							
Leaving water temperature range			Max.	°C							
Water pipe connection diameter			Flow/Return	mm							
Hot water pipe connection diameter			mm	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			28.0		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)				
Additional refrigerant charge amount			Charge	kg			3.80		3.80		
			g/m	50			50				
Connection pipe	Diameter	Liquid	mm	Ø 9.52			Ø 9.52				
		Gas	mm	Ø 15.88			Ø 15.88				
	Length	Min./Max.	m	5/30			5/30				
	Length(Pre-charge)	m	15			15					
Height difference	Max.	m	25/15 (Outdoor unit:Upper/Lower)			25/15 (Outdoor unit:Upper/Lower)					
	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 www.fujitsu-general.com/global/support/downloads/search/

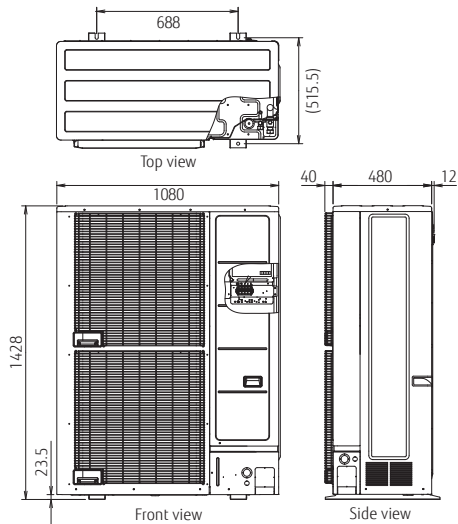
Dimensions

(Unit:mm)

Outdoor Unit:

Single phase: WOYG160LJL

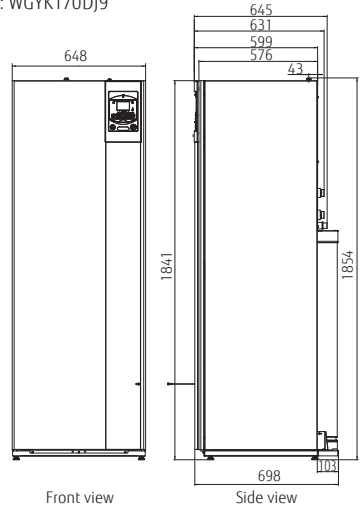
3 phase: WOYK150LJL/WOYK170LJL



Hydraulic Indoor Unit:

Single phase: WGYG160DJ6

3 phase: WGYK170DJ9



Split DHW
Integrated Type

High Power Series



High Leaving Water Temperature

High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.

* If you want to raise the hot water supply temperature, backup heater can be used for the auxiliary operation.



High COP

Waterstage Air to water heat pumps work much more efficiently and save energy compared to traditional heating systems.

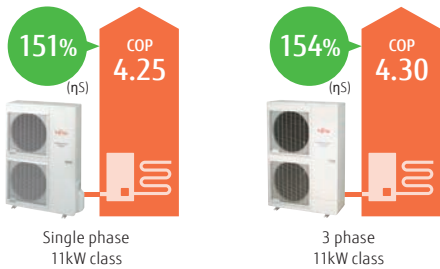
Energy efficiency
class



*Temperature application : Heating Temp. 35°C.

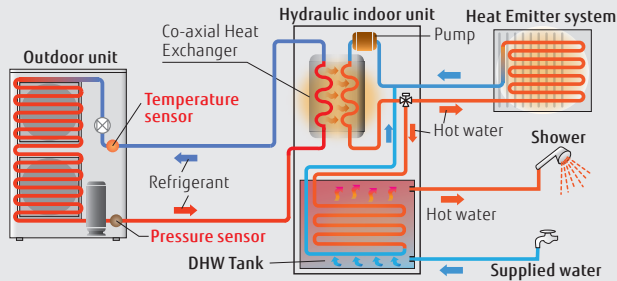
Seasonal space heating energy efficiency (ηs)

Condition : Outdoor Temp. 7°C Heating Temp. 35°C.



Optimization of refrigerant cycle operation

High Power model achieves a high performance and efficiency by adopting twin sensors and control technology corresponding to hot water heating.



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



Outdoor unit
3 phase
11/14/16 kW

Specifications

Model Name		Hydualic 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(η _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		71					
Domestic hot water characteristics* ²																	
Load profile				L													
Energy efficiency class				A													
Energy efficiency(η _{wh})				88													
Annual electricity consumption				kWh													
Hydraulic indoor unit Specification																	
Power source				Single phase 230 V 50 Hz													
Dimensions H×W×D				mm													
Weight (Net)				kg													
Water circulation				Min./Max.		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									
Buffer tank capacity				L				16									
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													
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										
Operating range	Height difference	Max.	m				15										
	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 www.fujitsu-general.com/global/support/downloads/search/

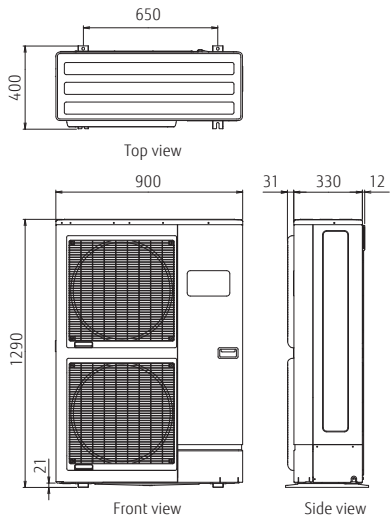
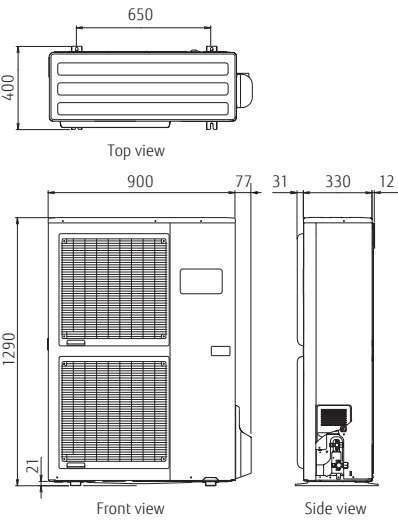
Dimensions

(Unit:mm)

Outdoor Unit:

Single phase: WOYG112LHT/WOYG140LCTA

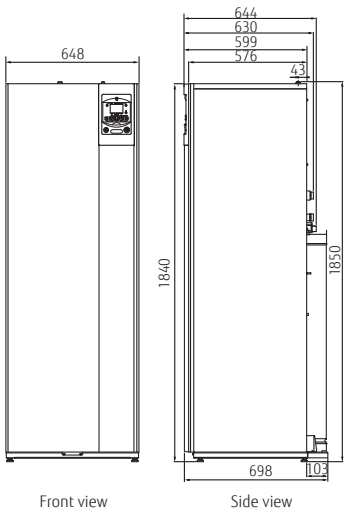
3 phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic Indoor Unit:

Single phase: WGYG140DG6

3 phase: WGYK160DG9



Control Overview

User's needs are supported by offering a variety of controls, such as individual control and remote control options.



Individual Control

 **Wireless Remote Control(option)
Room Thermostat**
UTW-C58XD

 **Wired Remote Control (option)
Room Thermostat**
UTW-C55XA

 **Wired Remote Control (option)
Remote Control**
UTW-C74TXF*1
UTW-C74HXF*1

RF Module
 **UTW-MRCXD**

Service & Maintenance Tool

 **Web server (option)**
UTW-KW1XD
UTW-KW4XD

OR

 **LPB clip (option)**
UTW-KL1XD

**Service Tool
(option)**

 **UTW-KPSXD*3**
Software

 **UTW-KSTXD*4**

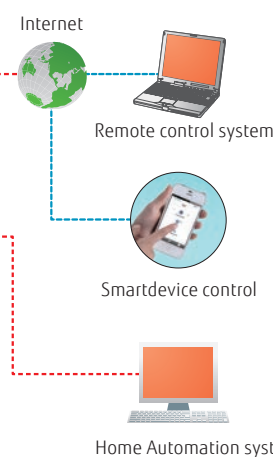
*3: UTW-KW1XD or UTW-KW4XD is required for the connection.
*4: UTW-KL1XD is required for the connection.

Adaptor for external device

 **Web server (option)**
UTW-KW1XD
UTW-KW4XD

 **Modbus clip (option)**
UTW-KMBXJ*2

*2: Additional optional parts necessary.



Hydraulic Indoor Unit Controller

Simple operation mode setting

- Selecting the heating mode and Domestic hot water operation

Large LCD display

- Operation status display
- Error display
- plain text

Navigation and setting

- Selecting the heating menu
- Setting program timer



HMI Kit (option)
UTW-KHMXE
Corresponding to multi languages

**Super High Power Series
Hydraulic indoor unit**



Comfort Control

The high grade heating controller adjusts the flow temperature automatically depending on the weather conditions, so that the room ambient temperature and the domestic hot water temperature are maintained at the desired levels.

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

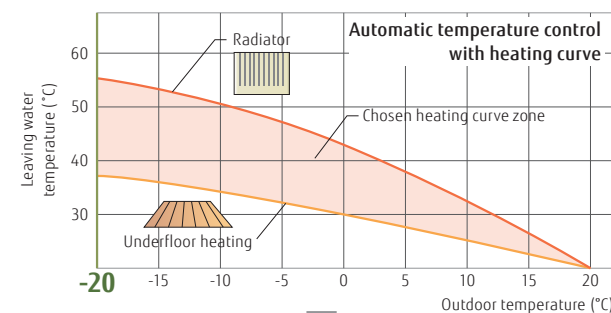
Stand-by mode with anti-frost protection



Useful Function

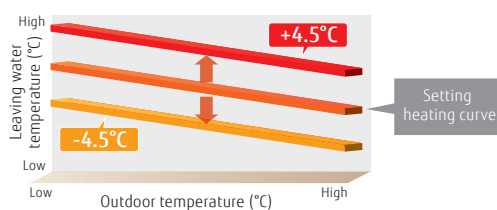
Automatic heating curve control

Automatic temperature regulation in accordance with heating curve (Depends on heating terminal and outdoor temperature)



Heating curve off-set: Adjust setting room temp.

This can be fine adjusted when too warm or too cold.



Quick recovery from defrost operation

Maintains the room temperature during defrost operation by boost start operation.

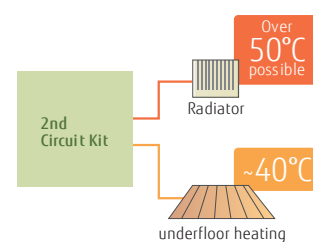
Auto-changeover

If the cooling operation function is set, the system can automatically switch to cooling or heating, depending on the outdoor temperature to provide all-season comfortable air conditioning.

2 Zone individual control

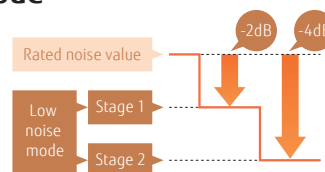
2 Zone individual control (2 underfloor heating zones or underfloor heating + radiator zone, etc.)^{*1}

^{*1}: Optional parts are required.



2 Stage low noise mode

Outdoor unit can be switched to silent mode, depending on the installation environment.
^{*Valid only for High Power}



Backup heater operation

Backup heater can operate at low outdoor temperature so that comfortable status can be maintained. The backup heater is controlled intelligently just as a security backup for very cold days/nights and only activated when really necessary.

Energy Saving

Programmable timer

- The setting of timer operation can easily be adjusted.
- Changing the heating mode linked with time is possible.

Day-Weekly timer setting

- The day-weekly timer can be set up for up to 3 times per day.
- Allows separate settings for each day of the week.

Holiday timer setting

- The holiday timer can be set up for up to 8 periods
- If you are absent for a long time in the winter, freezing of room can be prevented.

Peak Cut Function^{*2}

This function performs operation by setting a peak current value and reducing the power consumption.

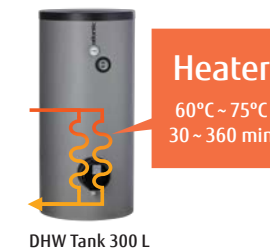
Mode	The ratio of suppressing the power consumption
1	100%
2	75%
3	50%
4	Almost 0%

^{*2}: Optional parts are required.

Safety Function

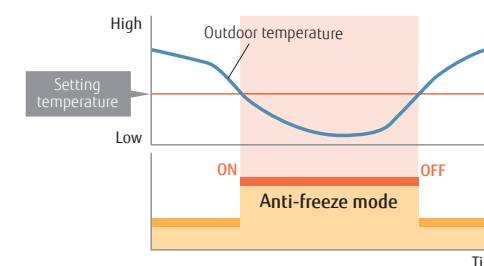
Anti-legionella function

The growth of Legionella in DHW tank is suppressed and safe and clean hot water is supplied at all times.



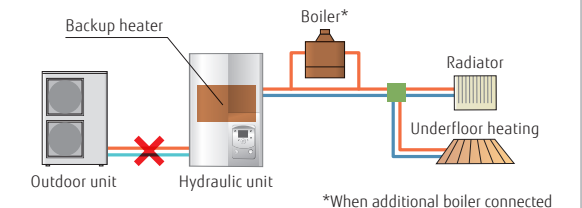
Anti-freeze function

Water circulation and compressor can be automatically achieved at low outdoor temperature. Freezing of circulated water can be prevented.



Emergency operation

System can continuously supply hot water by built in back up heater or boiler, as emergency, even if an error is occurred.



^{*When additional boiler connected}

Error/Maintenance alarm

Quick error handling service and maintenance are possible by this function.

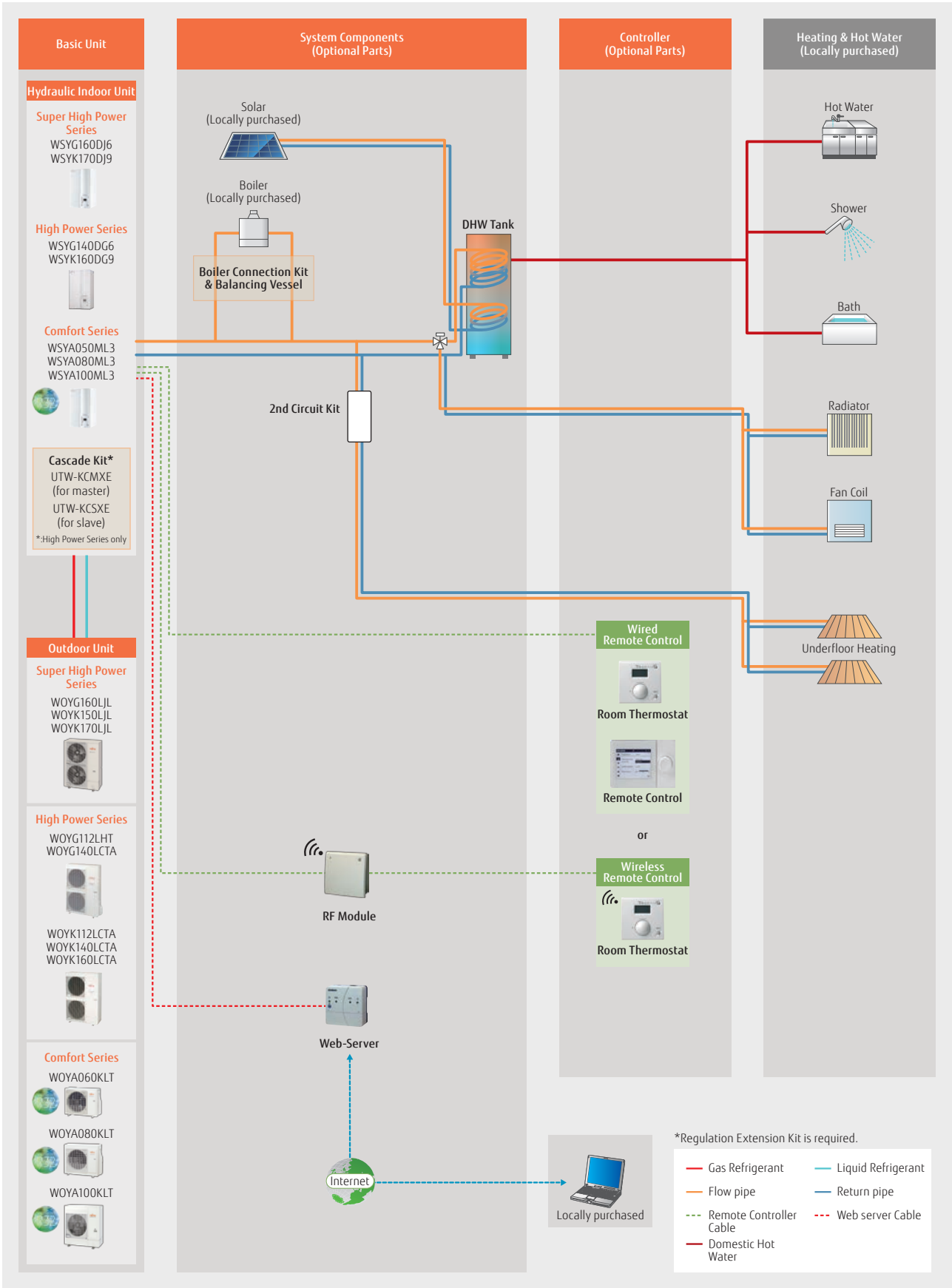


- Error history saves 10 errors in memory
- Display telephone No. of service company

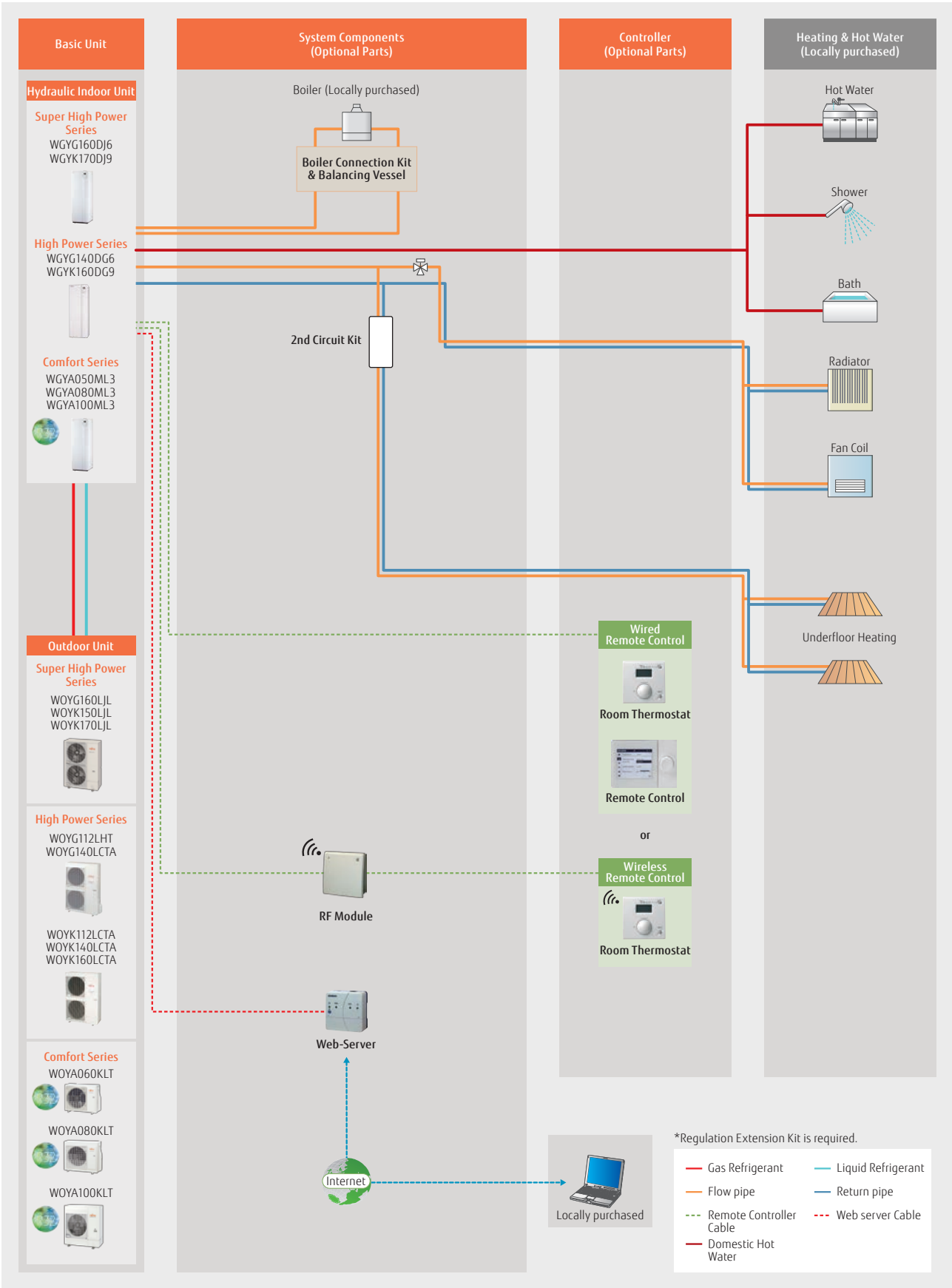


System Configuration

Split Type



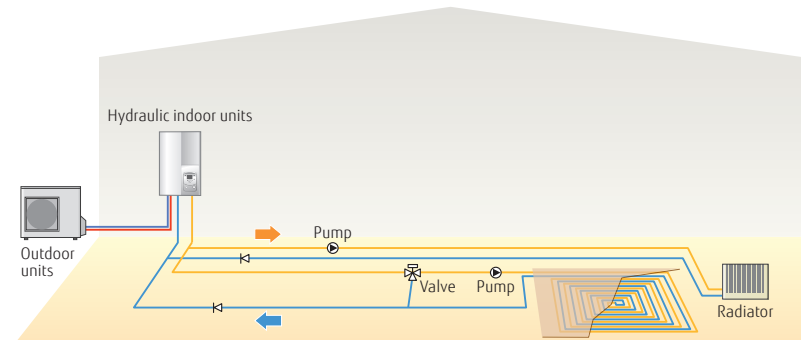
Split DHW Integrated Type



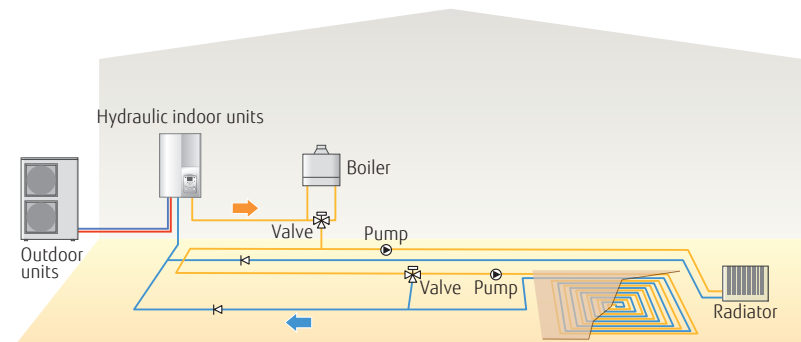
Case Studies

Split Type

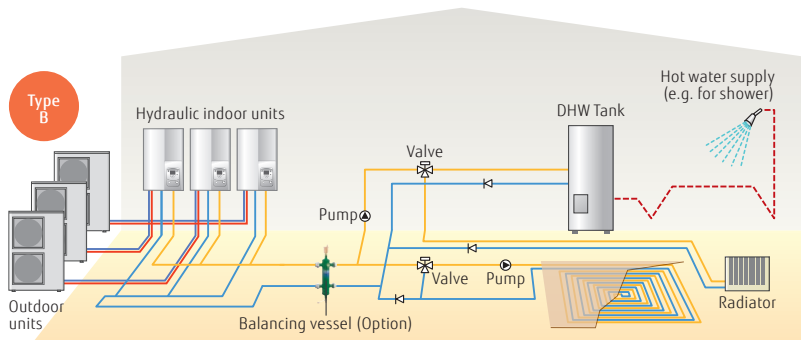
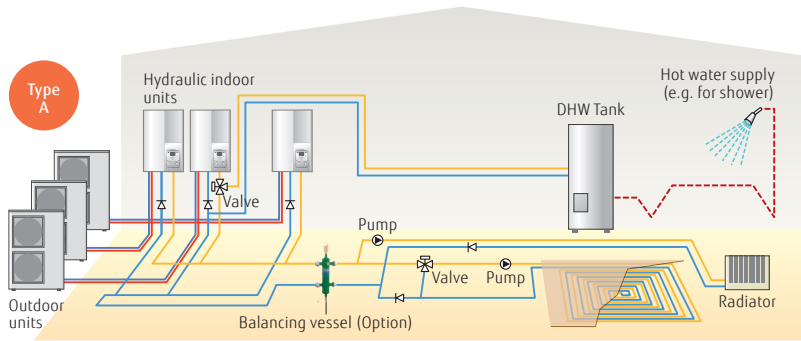
2 emitter simultaneous heating
(Individual control)
Underfloor heating + Radiator



Boiler connected to heating
(Boiler + Heating)

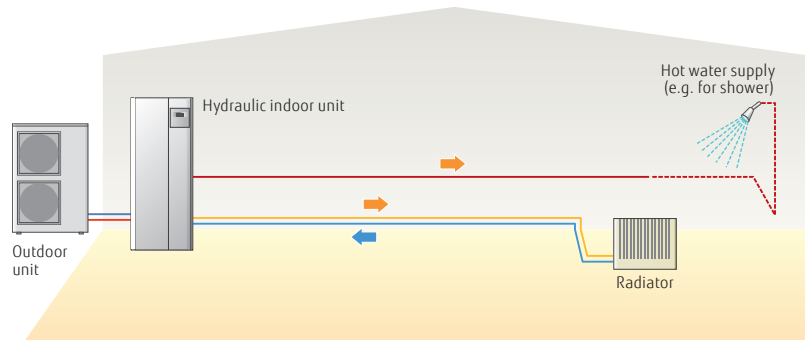


2 emitter simultaneous heating &
Domestic Hot Water (Cascade)

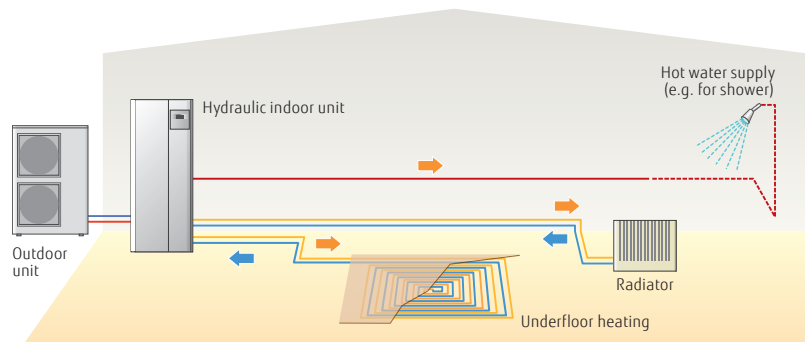


Split DHW Integrated Type

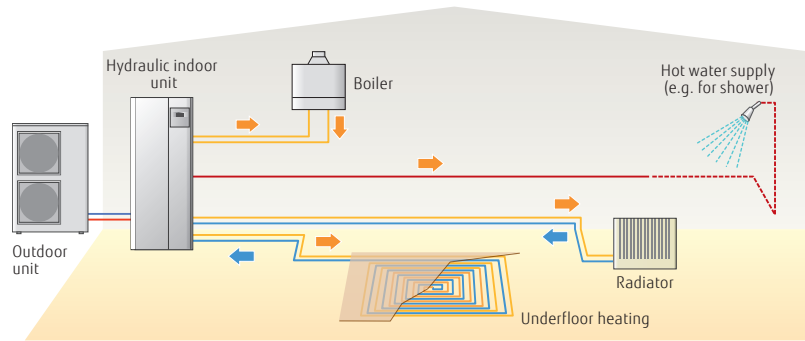
Single heating & Domestic Hot Water
Radiator + Domestic Hot Water



2 emitter simultaneous heating
(Individual control) & Domestic Hot Water
Radiator + Domestic Hot Water



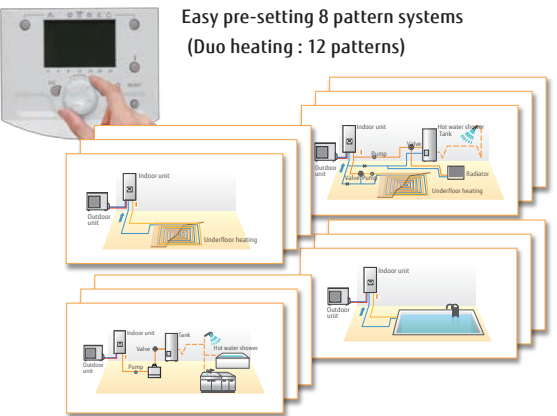
Boiler connected to heating (Boiler + Heating)
& Domestic Hot Water



Simplified installation

Pre-setting configurations

When installed, the controller makes it simple to set system settings without having to individually set the system's components and units.

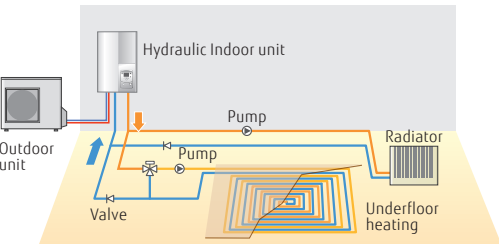


Configuration (Parameter 5700)	Type of installation
Pre setting 1	1 heating circuit
Pre setting 2	2 heating circuit
Pre setting 3	1 heating circuit & boiler backup
Pre setting 4	2 heating circuit & boiler backup
Pre setting 5	1/2 heating circuit & buffer control
Pre setting 6	1/2 heating circuit & buffer control & boiler backup
Pre setting 7	cascade connection Master
Pre setting 8	cascade connection A
Pre setting 9	cascade connection B/C

- DHW & solar control auto detection
- pool heating & cooling optional

Outdoor temperature simulation

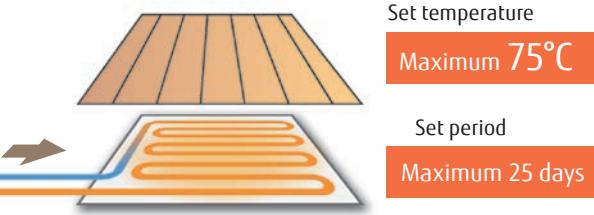
It can be checked whether each unit operates correctly under the set conditions and expected outdoor temperatures when the system is actually assembled.



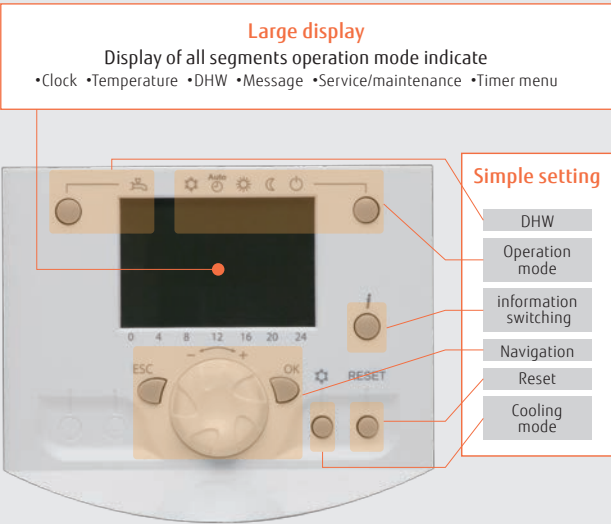
Outdoor temperatures in the range from -50°C to +50°C can be simulated.

Concrete Floor drying

When underfloor heating is installed, it can be used to dry the concrete surrounding the hot water piping more quickly to shorten the construction period.



Controller features a large LCD display and buttons to make setting functions easy



Main operation flow and setting contents for installers and end users

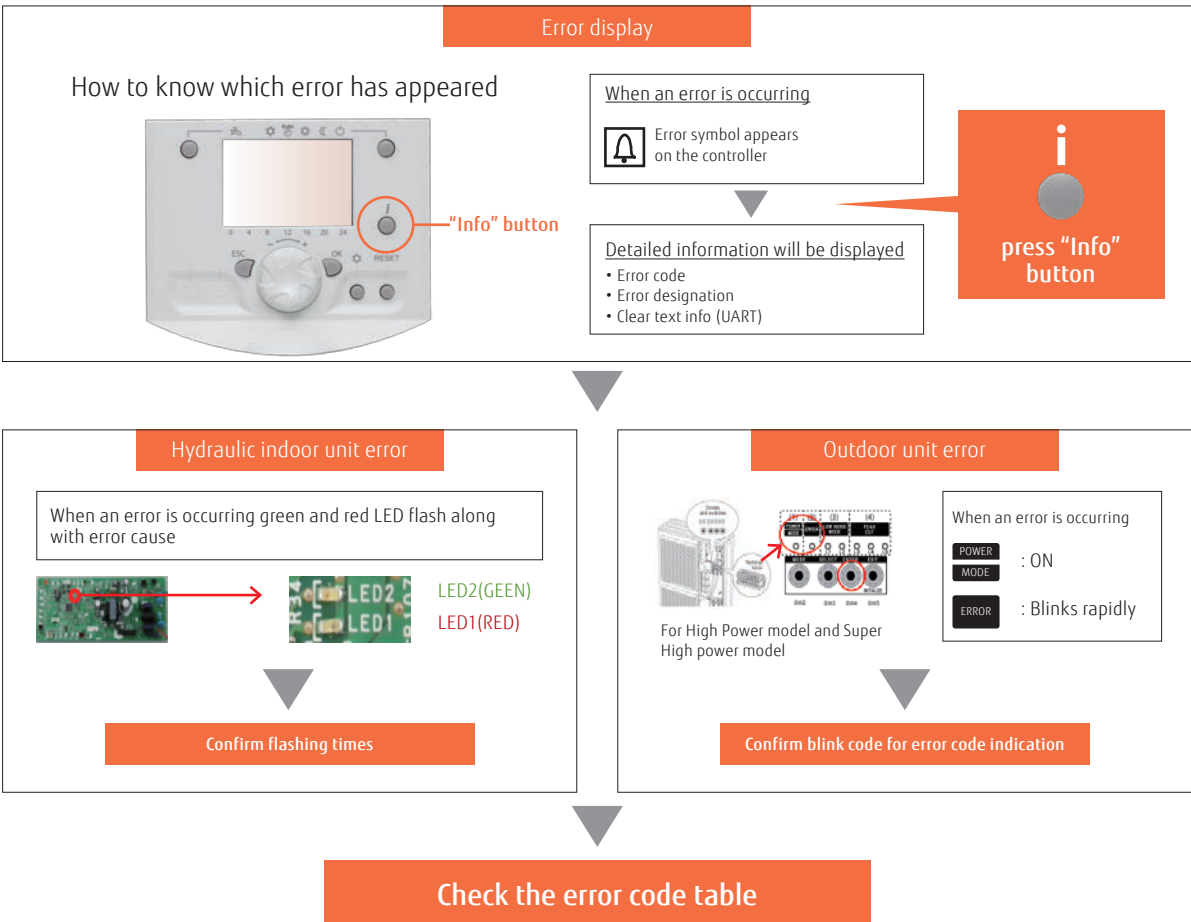
	Flow Chart	Example Item
Installers	1 Install Setting	Pump speed setting, Configuration, Heating curve setting, Heat pump shut off
	2 Option Setting	Cooling kit, DHW kit, Boiler kit, Swimming pool kit
	3 Convenient Function	Automatic Heating curve setting, Underfloor controlled driving, Outdoor temperature adjustment, Maintenance period setting
	4 workout Setting	Outdoor temperature simulator
	5 Confirmation	Operation conform (Heating cooling, DHW, option,)
End users	6 User Setting	Date and time, time program, Operation temperature setting

Easy Installation & Maintenance

- All hydraulic safety & controlling components built in, no additional selection required
- Lifting bars for an installation without any difficulty or risk
- Easy access for maintenance operations
- Refrigerant pump down operation

Maintenance Support

Diagnostics function for trouble shooting

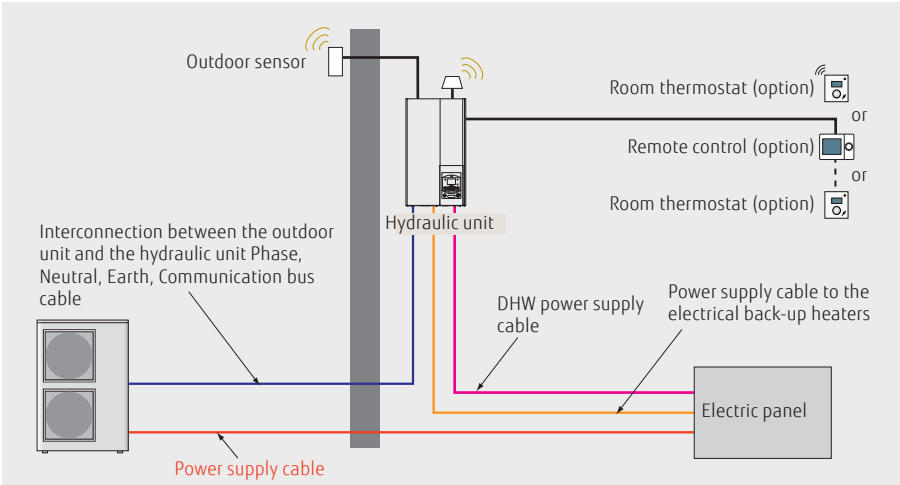
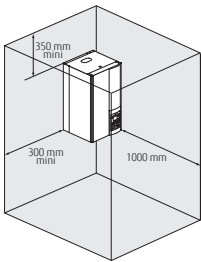


Installation Limitations

Equipment Installation & Electrical Wiring

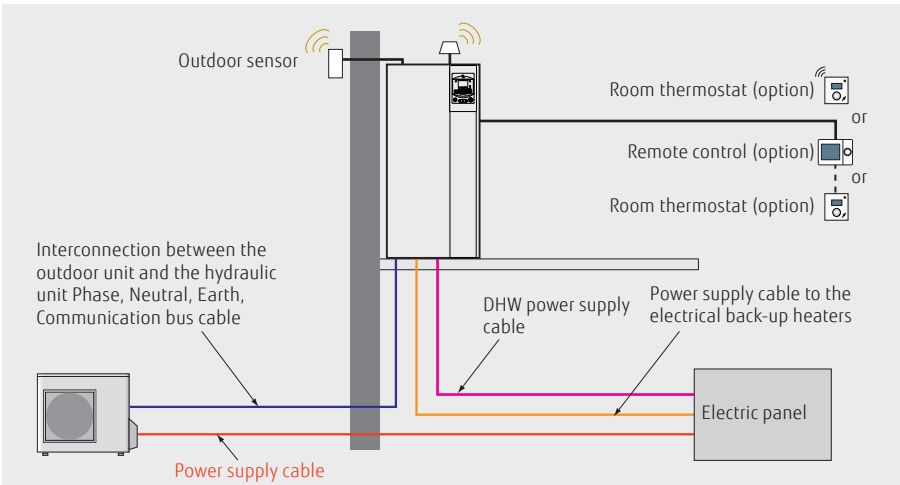
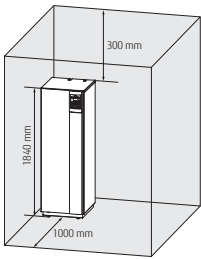
Split type Hydraulic indoor unit

- Hydraulic indoor unit is to be hanged on the wall
- Weight ≤ 88 kg (including water)
- Space for maintenance should be respected



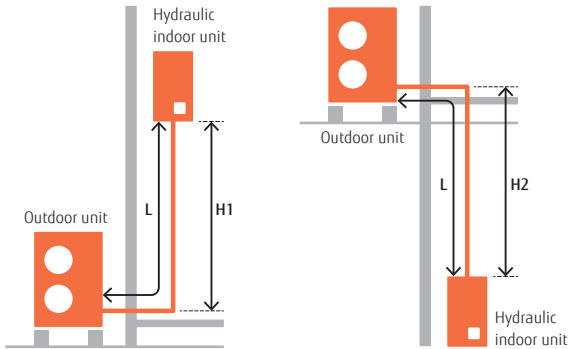
Split DHW integrated type Hydraulic indoor unit

- Floor standing
- Weight ≤ 393 kg (including water)
- Space for maintenance should be respected.

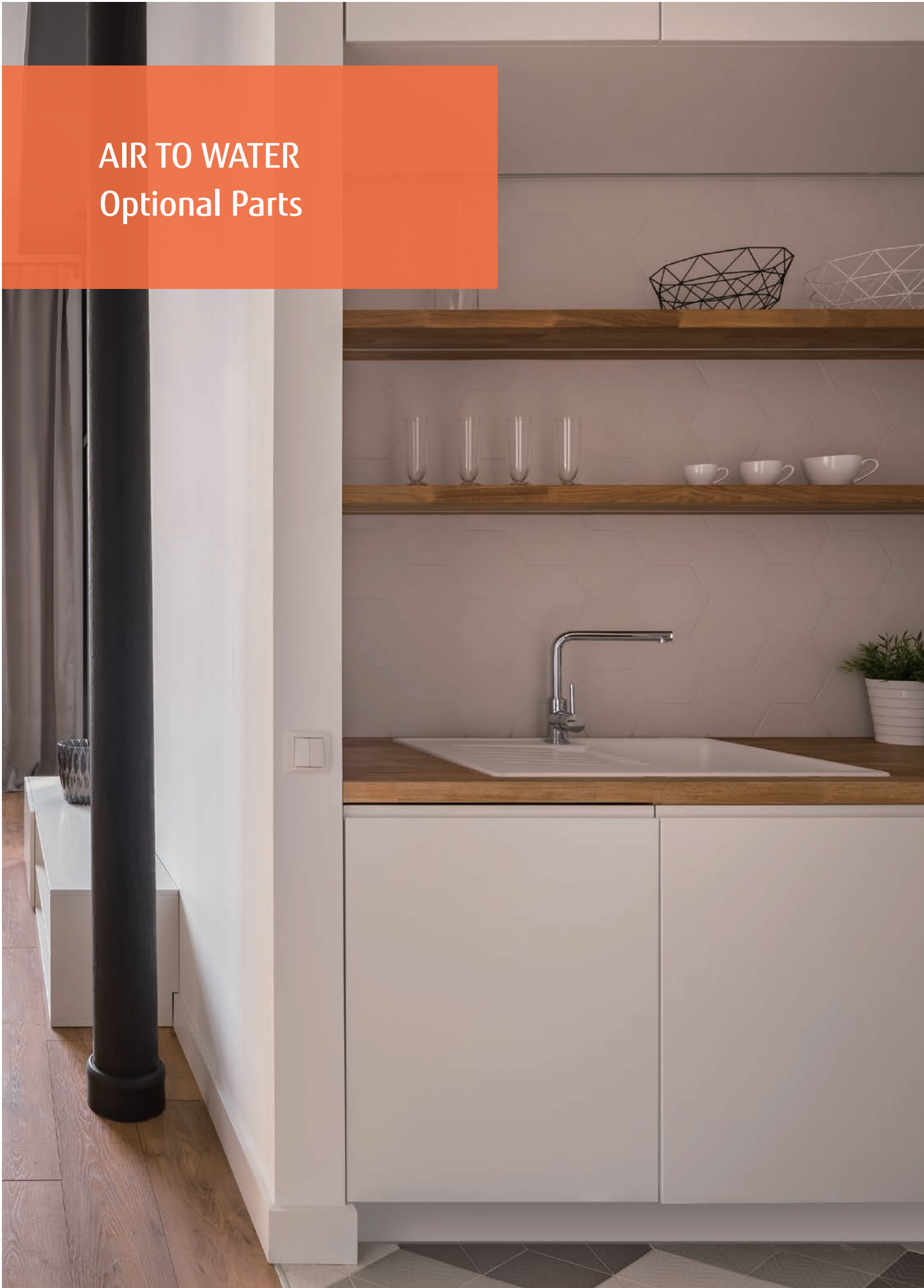


Piping and Wiring split type

Series	Capacity range (kW)	Pipe diameter (Liquid/Gas) (mm)	H1 (m)	H2 (m)	L (m)
R32 Comfort	5	6.35/12.70	+20	-20	3-30
	6				
	8	9.52/15.88			
	10				
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				



AIR TO WATER Optional Parts



Optional Parts

Product Name		Model Name	Split												Split DHW integrated type											
			Super High Power			High Power				R32 Comfort					Super High Power			High Power					R32 Comfort			
			10		30	10		30		10					10		30	10		30		10				
			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-KZDXJ	—	—	—	—	—	—	—	—	—	—	—	●	●	●	—	—	—	—	—	—	—	—	—	
Boiler Connection Kit		UTW-KBSXD	—	—	—	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	—	—	—	—	
		UTW-KBDXD	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	●	●	●	●	●	●	●	
	DUO 	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	
DHW expansion kit		UTW-KDEXE	—	—	—	—	—	—	—	—	—	—	—	●	●	●	●	●	●	●	—	—	—	—	—	
		UTW-KDEXL	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	●	●		
Circulating Pump		UTW-PHFXG	●	●	●	●	●	●	●	●	—	—	—	—	●	●	●	●	●	●	●	—	—	—	—	
Swimming Pool Kit		UTW-KSPXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Cooling Kit		UTW-KCLXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	—	—	—	—	—	
		UTW-KCLXL	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	●	●	●	●		
Regulation Extension Kit		UTW-KREXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Drain Pan		UTW-KDPXB	—	—	—	—	—	—	—	●	●	●	●	—	—	—	—	—	—	—	●	●	●	●	●	
Cascade Master Kit (incl. LPB Clip)		UTW-KCMXE	—	—	—	●	●	●	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	

Product Name	Model Name	Split												Split DHW integrated type											
		Super High Power			High Power				R32 Comfort					Super High Power			High Power					R32 Comfort			
		10		30	10		30		10					10		30	10		30		10				
		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 Slave Kit (incl. LPB Clip)		UTW-KCSXE	—	—	—	●	●	●	●	●	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
HMI Kit		UTW-KHMXE*2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
Remote Controller	Wired 	UTW-C74TXF*2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
		UTW-C74HXF*2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
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	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	●*5	
Service Tool (incl. OCI700 Adapter)		UTW-KSTXD	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	
Service Tool Software		UTW-KPSXD	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	
External Connect Kit		UTY-XWZXZ2	—	—	—	●	●	●	●	●	—	—	—	—	—	—	—	●	●	●	●	●	—	—	
		UTY-XWZXZ3	●	●	●	—	—	—	—	—	—	—	—	—	●	●	●	—	—	—	—	—	—	—	
Electrical back-up heater relay		UTW-KBHXL	—	—	—	—	—	—	—	●	●	●	●	—	—	—	—	—	—	—	—	●	●	●	

● : Available — : Not Available
*1: DHW operation is possible without DHW Kit and DHW Tank.
*2: 19 Languages included, no separate Eastern European RC necessary. C74TXF: Built in Room Temperature sensor C74HXF: Built in Room temperature and Humidity sensor
*3: UTW-KL1XD is required for the connection.
*4: UTW-KW1XD or UTW-KW4XD is required for the connection.
*5: Additional optional parts necessary.

New Monobloc Overview

ECO Design

The EUROPEAN UNION Regulations designed to precisely determine the Minimum Energy Efficiency Standards for Electric related Products ErP.

Mandatory compliance for the following standards:

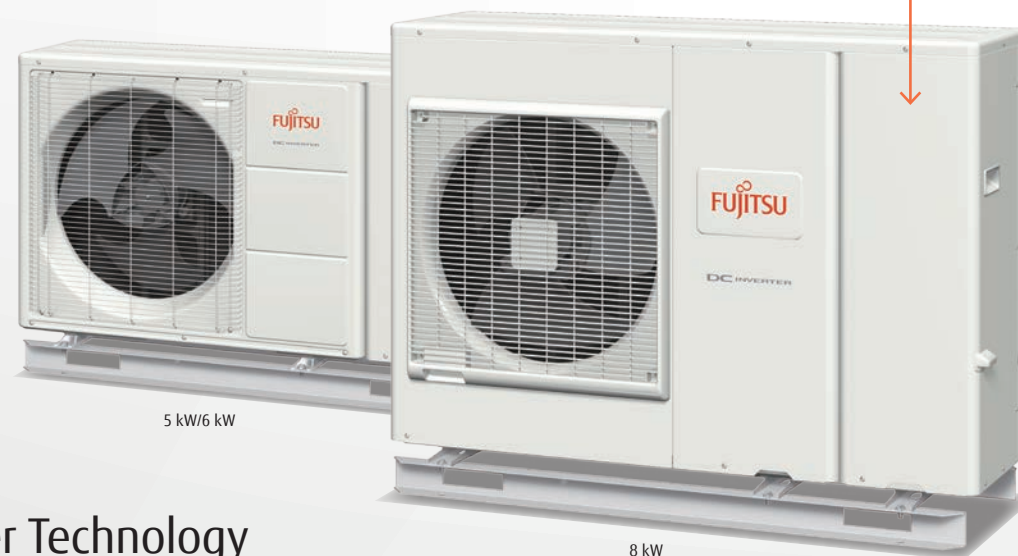
- Main components: fans, pumps, motors.
- Complete units: Heat Pumps.

Different regulations and standards:

Heat pump units. Regulation. 813/2013.
Units are compliant with ErP Regulation by exceeding the minimum standards of seasonal energy efficiency in heating, SCOP

All-in-One Model

Compact designed heat pump. Refrigerant pipe work is unnecessary. Only hydraulic connecting work is to be done. Circulation pump, safety valve and air vent valve are included. Easy installation and maintenance is feasible.



Easy Setting & Maintenance

On Board Controller With Led Display

Controller with included Display mounted on the door of unit's electric box. Connectable to BMS through Modbus RTU protocol over RS485 serial interface.

- 3 levels of access: user - service - manufacturer
- 4 push buttons and digit - icons visualization

Functions

- Unit status graphical visualization: heating / cooling / DHW / stand-by / alarm / defrost / economy
- Main Input / Output visualization (°C and %)
- Active alarms (code)
- History of the last 20 alarms (code, starting date and time)
- Alarms manual reset
- Set-point change, climatic curves
- Unit mode change: heating / cooling
- Hybrid plant management
- ON-OFF unit's key



Wired Remote Controller (Option)

Remote electronic control with LCD display and integrated room temperature sensor.

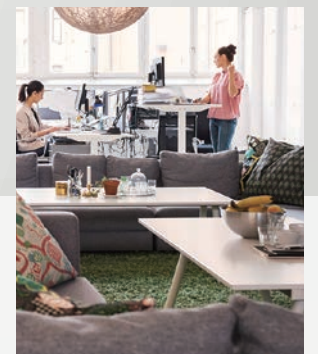
Functions

- Unit status graphical visualization: heating / cooling / DHW / stand-by / alarm
- Clock (date and time) visualization
- Temperature and room set-point visualization
- Room temperature set-point modification
- Active alarms (code)
- Time slots scheduling

Controller line

BMS

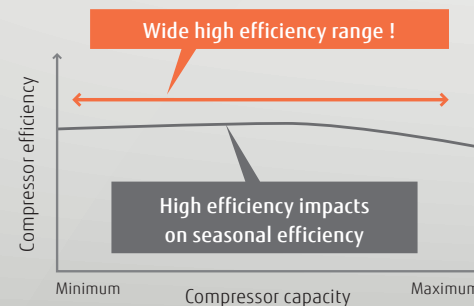
Controller line



All DC Inverter Technology

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.



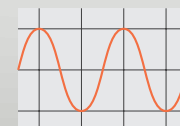
DC fan motor

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.

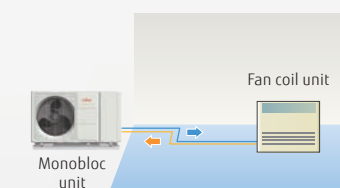


Complete solution meets various needs

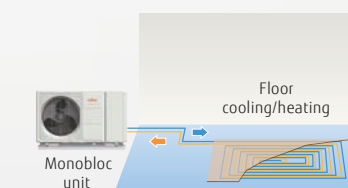
All hydraulic components for the unit installation are already included with no increase in dimensions.

System example

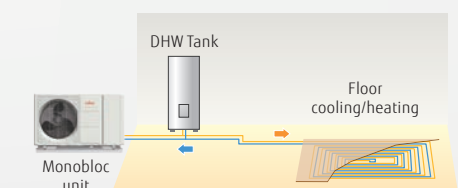
Fan coil unit



Floor Cooling/heating



Heating+DHW



NEW

Monobloc Type



High energy saving

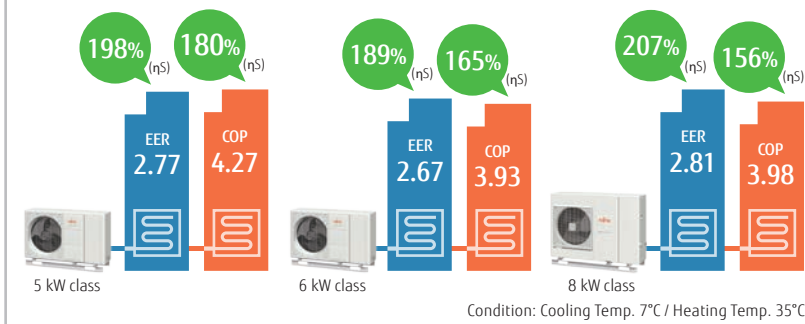
High Seasonal efficiency is realized by using a DC twin rotary compressor, inverter technology, and high efficient water heat exchanger.

Energy efficiency class



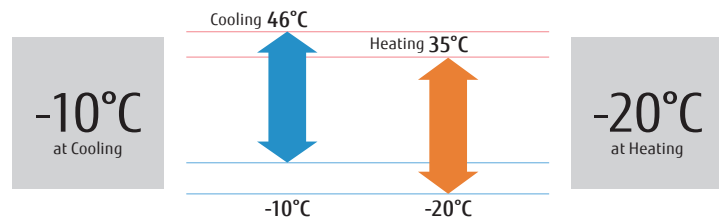
*5 kW class, Temperature application: Heating Temp. 35°C.

Seasonal space energy efficiency (η_s)



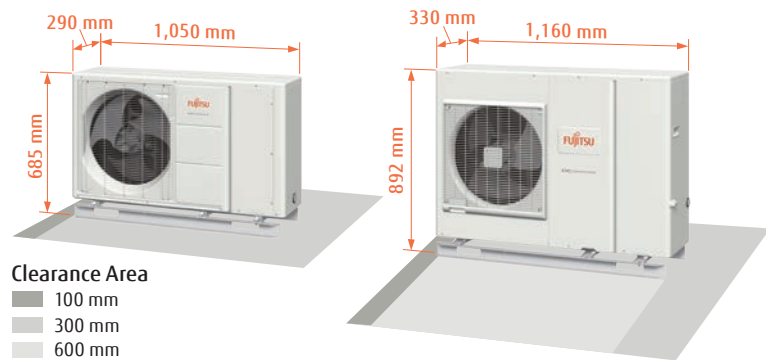
Supports a wide range of temperatures

Cooling operation is possible down to -10°C.

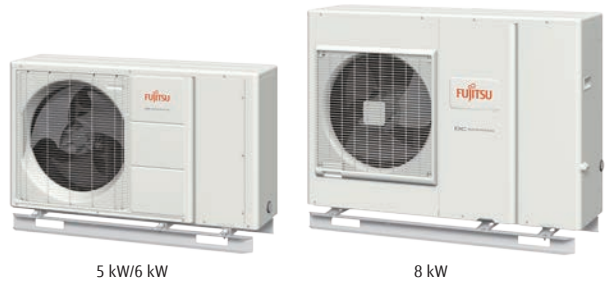


Compact Chassis size

It can be easily carried and installed in narrow spaces.



Model : CPYA050LLW/CPYA060LLW/CPYA080LLW



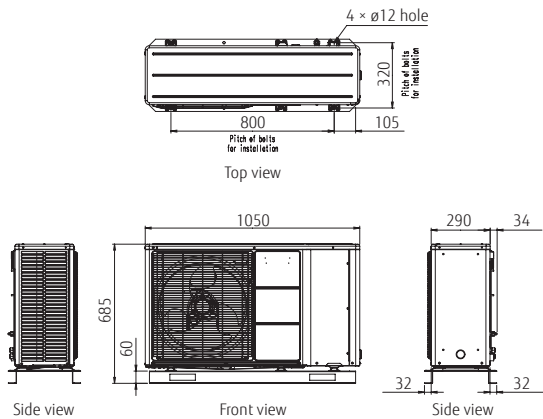
Specifications

Model Name						CPYA050LLW	CPYA060LLW	CPYA080LLW
Capacity range						5 kW	6 kW	8 kW
Performance	Cooling	Rated	A35/W7	Capacity	kW	4.71	5.52	8.36
				EER	—	2.77	2.67	2.81
			A35/W18	Capacity	kW	5.00	6.03	8.09
		ErP		EER	—	4.00	3.82	4.41
				SEER	—	5.02	4.79	5.25
				Etas	—	198	189	207
	Heating	Rated	A7/W35	Capacity	kW	6.11	7.03	9.78
				COP	—	4.27	3.93	3.98
			A7/W55	Capacity	kW	5.20	6.05	8.38
		ErP		COP	—	2.52	2.43	2.44
				P rated	—	4	5	6
			35 degree	Energy efficiency class	—	A+++	A++	A++
				Etas	%	180	165	156
				P rated	—	4	4	5
			55 degree	Energy efficiency class	—	A++	A+	A+
				Etas	%	125	119	113
Operating range	Cooling	Outlet water temperature (min/max)			°C	6/22		
		Ambient air temperature (min/max)				-10/46		
	Heating	Outlet water temperature (min/max)				20/55 (Ambient air temp. -10°C)		
		Ambient air temperature (min/max)				43 (Ambient air temp. -20°C)		
Power source		—			—	-20 / 35		
						1 phase 230 V 50 Hz		
Current		Max			A	14	19	20
Sound level	A35 / W7		Sound Power	dB(A)	68	68	69	
	A7 / W55				64	69	69	
Dimension		Height / Width / Depth			mm	685/1,050/290		892/1,160/330
		Gross Height / Width / Depth				875/1,131/398		1,075/1,258/437
Weight		Net / Gross			kg	70 / 80		92 / 104
Refrigerant		Type / Charge				R410A / 1.00	R410A / 1.20	R410A / 1.70
Fuse Capacity		—			A	20	25	25

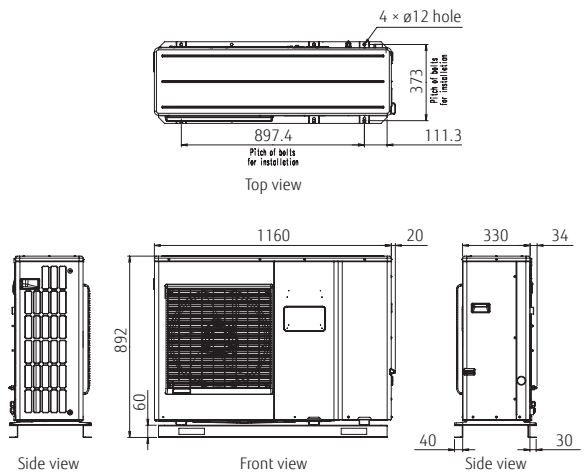
Dimensions

(Unit : mm)

Outdoor Unit: CPYA050LLW/CPYA060LLW

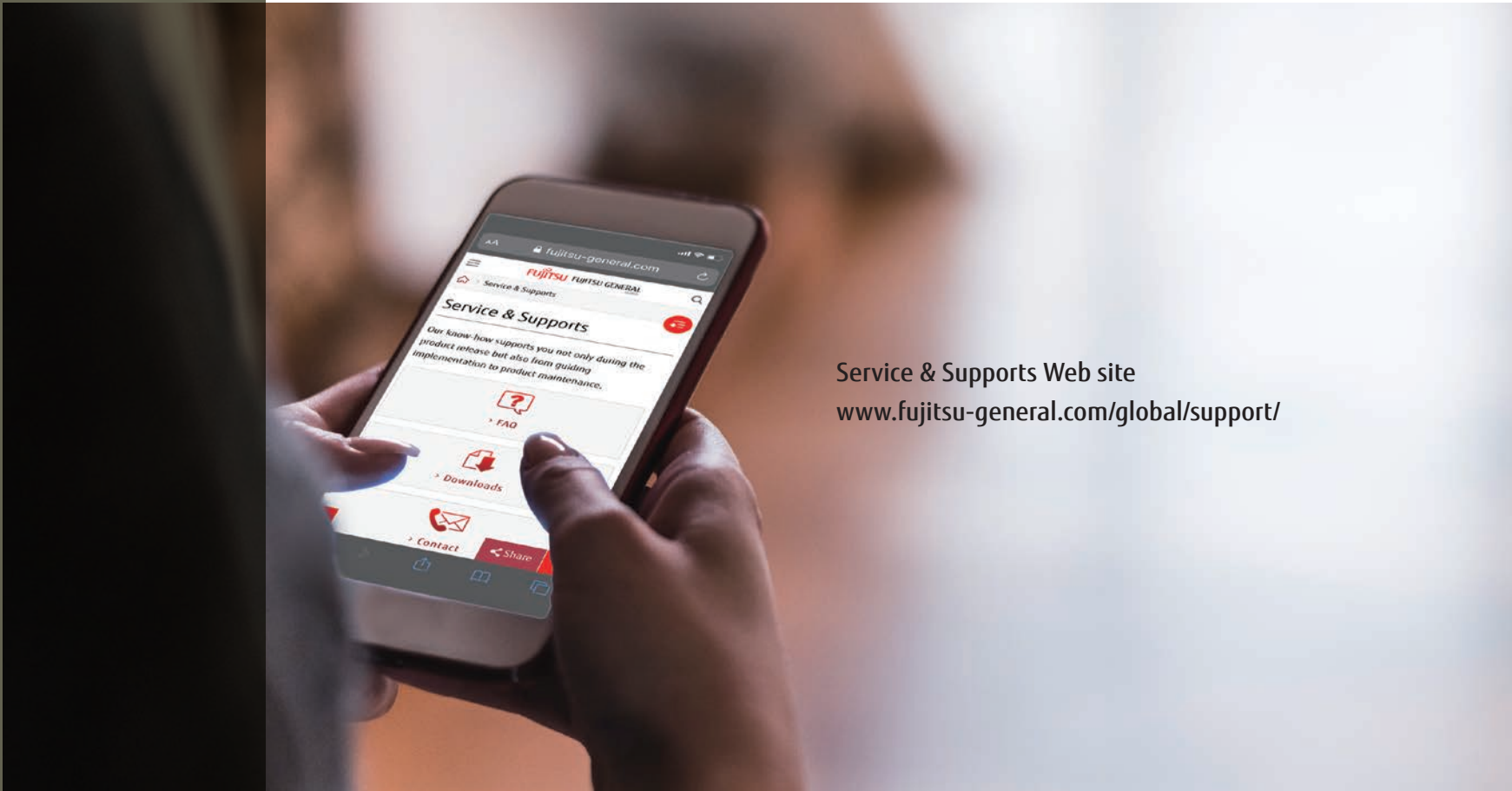


Outdoor Unit: CPYA080LLW



SUPPORT

- Sp-002 AIRSTAGE™ Support
- Sp-004 AIRSTAGE™/RAC Support Tool
- Sp-006 WATERSTAGE™ Support Tool
- Sp-008 Quick Service & Maintenance
- Sp-010 Service Tool
- Sp-011 Web Monitoring Tool



Service & Supports Web site
www.fujitsu-general.com/global/support/

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 (Room air conditioner, VRF)
Product Training	●	●												
Product Information Seek			●	●	●	●	●							
Technical Information Seek							●	●				●		
Model Selection							●							●
Design							●		●	●				
Verification														●
Installation							●				●			
After sales and Service												●		●

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.



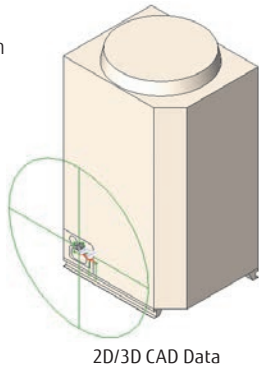
Training facilities

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



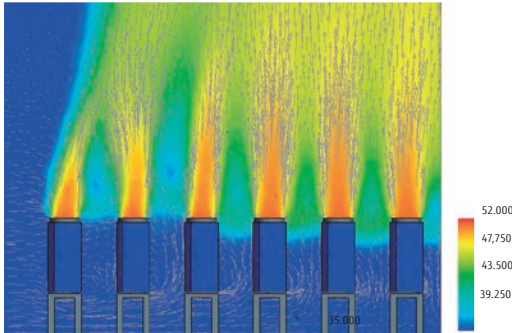
2D/3D CAD Data

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



www.fujitsu-general.com/uk/support/downloads/vrf/



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

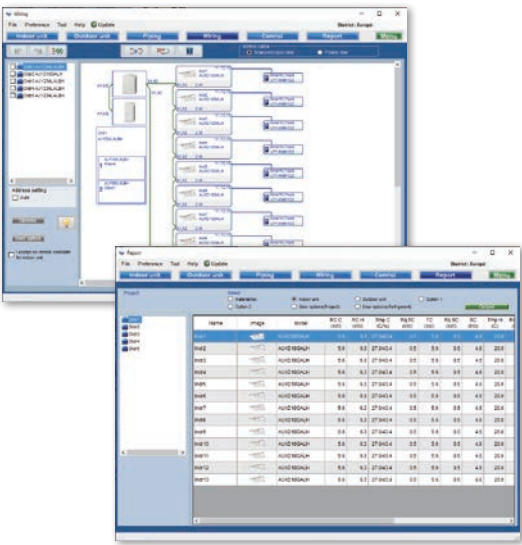
- 1 Head Office Training Center: Japan
- 2 China Training Center: China
- 3 Asia Training Center: Singapore
- 4 Europe Training Center: U.K.
- 5 Europe Training Center: Germany
- 6 America Training Center: U.S.A.
- 7 Middle East Training Center: UAE
- 8 Oceania Training Center: Australia

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



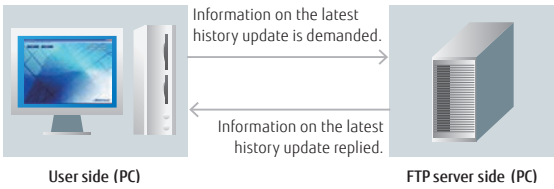
Output the format that matches the application

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)
- 2D CAD data (DXF)

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.



Update your Design Simulator

Database can be easily updated online using AutoUpdate function through FTP.

NEW BIM Building Information Modeling

BIM files of Fujitsu General's products available on BIMobject®

We are pleased to inform that Fujitsu General has released BIM files of products on BIMobject®'s website (BIMobject.com).

Outline of BIMobject
BIMobject® is a game changer for the construction industry, offering development, maintenance, and syndication of objects on the world's biggest BIM platform.

About the BIM file

- BIM files are Autodesk Revit 2018 version.
- Each of the BIM files has different refrigerant and drain piping connector location.
- Each of the BIM file includes several family types.
- Revit file type catalog (Specification) is available for every product.



Go to search bar and key in the brand name FUJITSU GENERAL to search the products





RFA (Revit data)

Data format available for BIM-designed projects.



DWG

Standard data available for Autodesk's products.



DXF

Intermediate data generally available for CAD products.

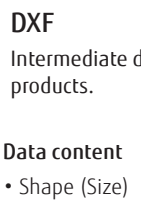


Data content

- Shape (Size)
- Drain direction
- Piping direction
- Power source location
- Specifications etc.



Type catalog (specifications of product)



Data content

- Shape (Size)



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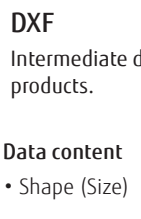


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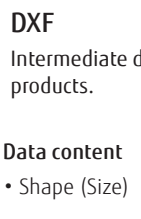


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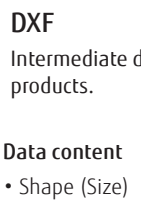


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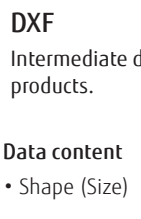


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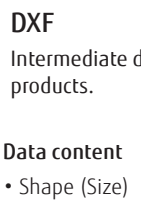


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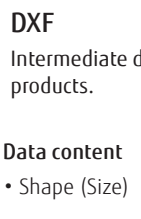


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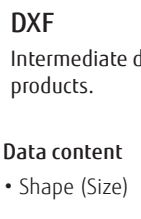


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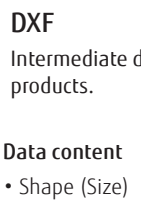


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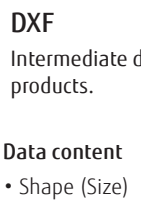


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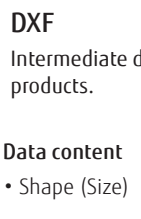


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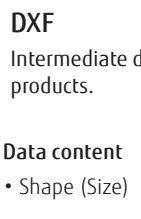


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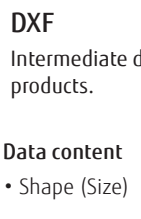


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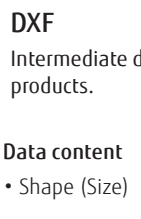


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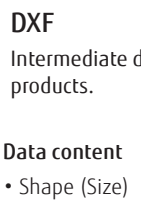


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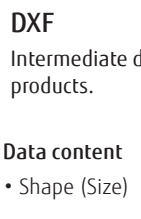


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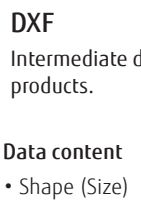


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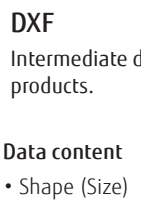


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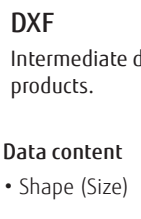


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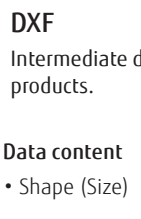


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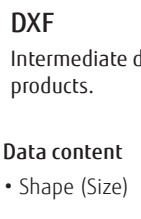


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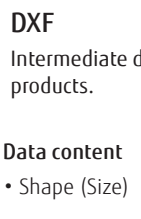


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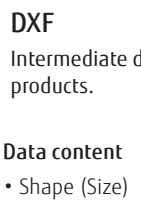


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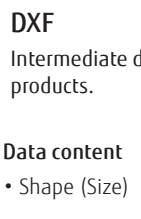


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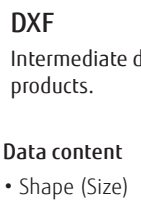


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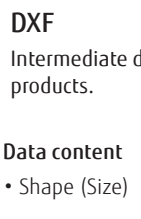


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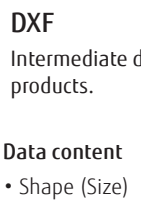


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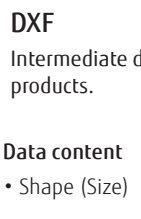


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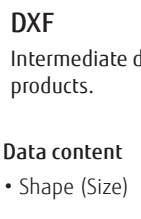


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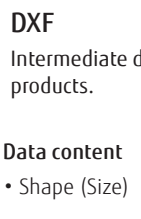


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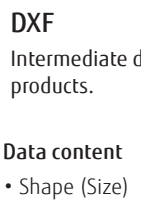


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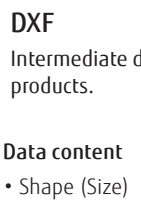


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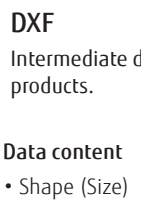


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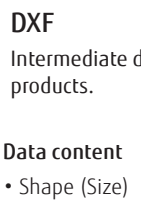


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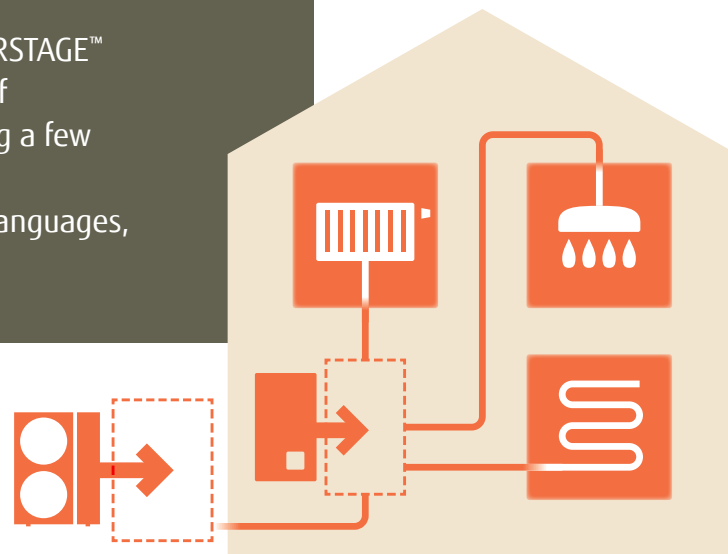


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WATERSTAGE™ Support Tool

Fujitsu General's software for the WATERSTAGE™ automatically provides a combination of WATERSTAGE™ equipments just by giving a few parameters. The software is featured with multiple languages, and automatic update function.



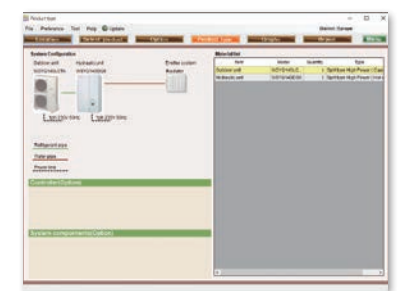
WATERSTAGE™ Proposer

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 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.



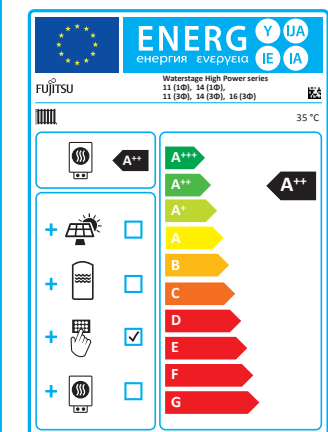
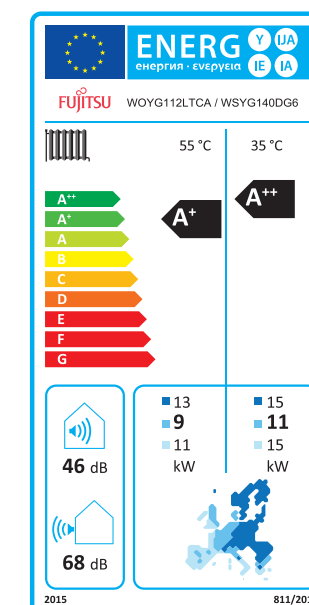
The entire system configuration can be reviewed and modified once the units are selected. And by seeing the images and the list of equipments at the same time, it avoids mistake in the selection of equipments.

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.



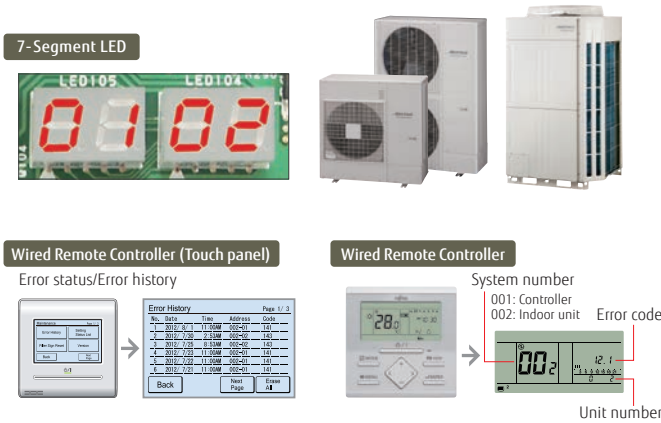
Easy maintenance & monitoring

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.

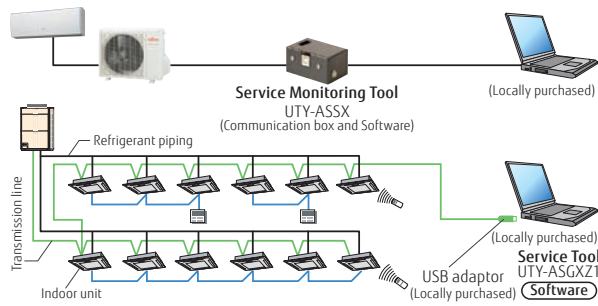


Error diagnosis by Service Tool

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

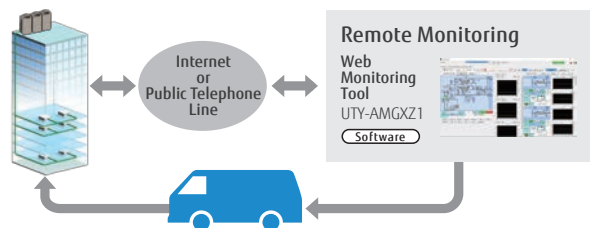
- Operation status/control
- Monitoring operating condition
- Monitoring sensor data
- Indication of trend graph
- Error history
- Indication of refrigerant circuit diagram (For VRF)



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 (Room air conditioner / Packaged air conditioner, 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.



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.



	UTY-ASSX
Dimensions (H×W×D) (mm)	60 × 160 × 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)

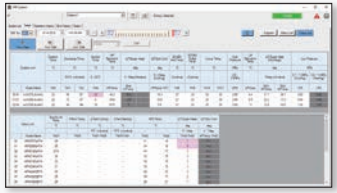
* The saved data can be displayed offline. However, the data saved by the following model cannot be displayed.

- 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.





Whether each sensor value is normal is judged automatically.

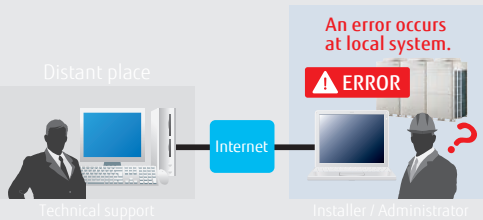
- ✓ Discharge temperature normal value OK
- ✓ Super heat volume normal value OK
- ✓ High pressure pipe normal value OK
- ✓ Low pressure pipe normal value OK
- ...etc.

[Note] Use only as a guide and judge for yourself finally.



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 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • 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]) • 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 × 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.)

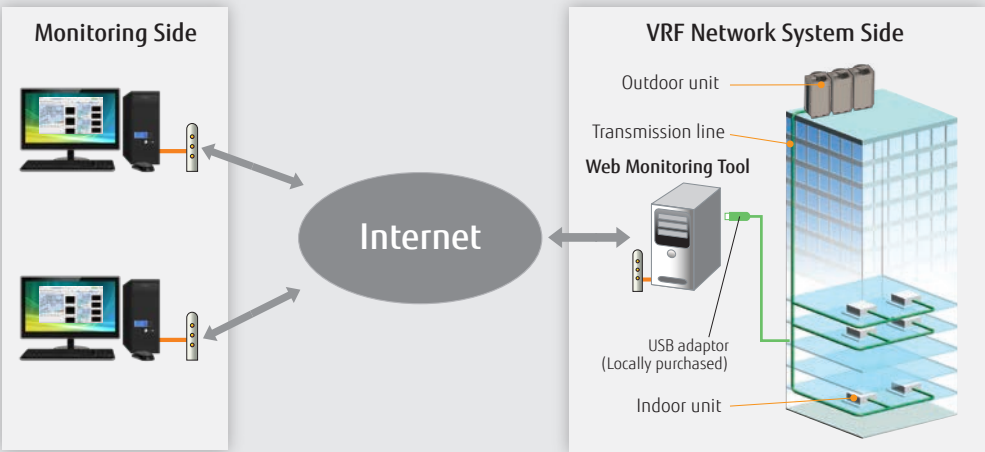
Web Monitoring Tool

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.

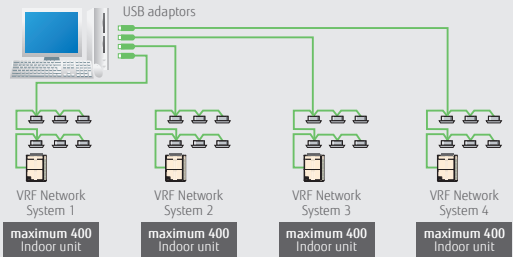
Web Monitoring System



Support 4 VRF network systems

USB adaptor (maximum 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 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • 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]) • 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 × 768 or higher resolution
Interface	• USB port (for 10 USB Network Interface maximum 4, Software protection key) • Either of the following interface is required for remote connection: - Public Telephone Line: Modem is required - 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.)