





CREATION OF COMPONENTS

The AIRSTAGE™ series provides high energy savings, comfort, and reliability to the end user. The design, installation, and servicing were developed based on the concepts of high flexibility and simplicity. We offer an abundant VRF system lineup to match regional and customer needs by providing the best combination from low to high capacities and from giving priority to conserving installation space to giving priority to high efficiency.



For **SMALL** BUILDING



For **LARGE** BUILDING



AIRSTAGE J-IIIL 8 HP - 12 HP 3 Models 14 HP - 16 HP 2 Models

P46~



Heat Pump type

AIRSTAGE J-III

4 HP - 6 HP 6 Models

P52~

Heat Pump type

AIRSTAGE J-IIS

4 HP - 6 HP 3 Models

P56~



Heat Recovery Modular type

AIRSTAGE VR-II

• Space saving combination: 8 HP to 48 HP/21 models

P60~



Heat Pump Modular type

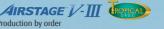
AIRSTAGE V-III

8 HP - 54 HP 39 Models

• Space saving combination: 8 HP to 54 HP/24 models

P68~

Heat Pump Modular type



8 HP - 54 HP 39 Models • Space saving combination: 8 HP to 54 HP/24 models

P74~

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SERVICE TOOL	
WEB MONITORING TOOL	

NEW

OUR HISTORY

Overseas Air Conditioning Business since 1971 VRF Business since 2001

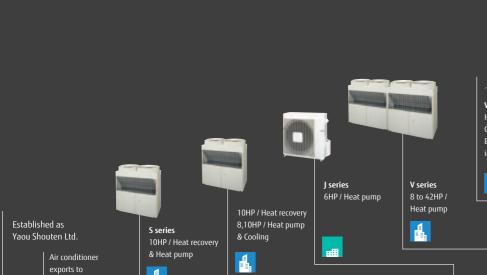
FUJITSU GENERAL's VRF AIRSTAGE™ Series has been developed based on our long-term air-conditioning technology know-how and was first provided 14 years ago. We have offered a series of products from large homes to large-scale buildings to meet the various market needs.



For Commercial Use



For Residential & Light Commercial Use





AIRSTAGE V-II

V-II series High efficiency and Compact design model Extensive lineup from 8HP to 48HP in 2HP increment / Heat pump





AIRSTAGE J-][

J-II series High efficiency and small capacity model 4HP to 6HP / Heat pump





High efficiency and compact design model 10HP to 16HP / Heat pump





8HP - 12HP







AIRSTAGE J-IIS

High efficiency and Extensive lineup from 8HP to 42HP in 2HP increment /

ROPICAL

AIRSTAGE V-

V-II TROPICAL series

Tropical spec model

Heat pump

4

AIRSTAGE VR-II

VR-II series

High efficiency and

1 P60

Compact design model

8 to 48HP / Heat Recovery



compact design model 4HP to 6HP / Heat pump



AIRSTAGE V-∭

High efficiency and large capacity model. Extensive lineup from 8HP to 54HP in 2HP increment / Heat pump

1 P68

AIRSTAGE J-]][

J-III series High efficiency and small capacity model 4HP to 6HP / Heat pump





V-III TROPICAL series

Extensive lineup from 8HP to 54HP in 2HP increment / Heat pump



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AIRSTAGE™ History

Middle East.

1998 2001 2003 2004 2006 2007 2009 2011 2012 2013 2014 2015 2016 2017

Certification Acquisition of

ISO14001

1998 : Fujitsu General (Shanghai) Co.,Ltd. 1999 : Fujitsu General (Thailand) co.,Ltd.

2002: FGA (Thailand) Co.,Ltd.

2006: Fujitsu General Central Air-conditioner (Wuxi) co.,Ltd.

New Product Initiatives

Fujitsu introduced inverter technology which used R410A refrigerant.



RoHS Compliant

Restriction of Hazardous Substances (ROHS) is an EU directive on the restriction of the use of certain hazardous substances in all consumer electrical and electronic equipment.



DC Inverter Compressors Use of 100% inverter driven DC compressors.



WORLD WIDE LOCATIONS

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





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



Fujitsu General (Taiwan) Co., Ltd.





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



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



Fujitsu General (Asia) PTE. Ltd.





Fujitsu General (Aust.) Pty Ltd.











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









Middle East





Europe











Oceania







Asia









International authoritative design awards



"Dealer Design Awards" of "the NEWS"



Gold Award (Category: HVAC & PLUMBING) in



TOP OF MIND 2016" First prize in "MARCA DE EQUIPAMENTODE



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



competition has existed since 1955. Its award, the "red dot", is an internationally







China State Construction Engineering Luban Prize





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

PROJECT REFERENCE

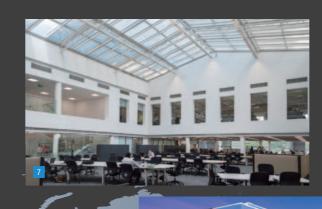
Our product is popular because of its high quality, energy saving, and easy installation, and so has been installed in a wide range of building types including high-rise office buildings, stores, hotels, public facilities, schools, hospitals and residential.



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









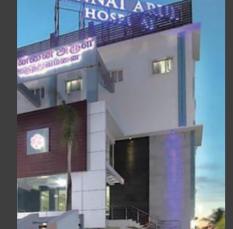
For COMMERCIAL

- 7 Office in Europe
- 8 Office in Europe 9 Hotel in Asia











For LIGHT COMMERCIAL

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





For RESIDENTIAL

- 10 Residential in Europe
- Residential in Europe Residential in Oceania
- 12 Residential in Middle East

GLOBAL DEVELOPMENT & PRODUCTION BASES

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



Overseas Manufacturing Companies





F.G.L.S. Electric Co., Ltd.



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





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



R&D Center



R&D Center in Fujitsu General (Shanghai)



Engineering (Thailand)



(EURO) GmbH (Germany)





HIGH QUALITY DEVELOPMENT & PRODUCTION

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.

Advanced Research Facility and Equipment

Performance Testing



Air Volume Measurement Room

Measure air volumes of the air conditioners from compact RAC models to VRF.



lorimeter

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



Silent Roon

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

Reliability Testing



Constant Temperature Room

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



Practical Test Room

Check on whether the air conditioners performance under the actual house conditions is sustainable.



Shower Test Room

Check on whether the electrical box of the outdoor unit is protected by rain waters with typhoon like wind.





Compressibility testing



Vibration testing

Testing Laboratory

Fujitsu General EMC Laboratory Limited



60 m Height Difference Testing Tower

Objective is to confirm oil circulation o compressor for reliability



FACILITIES



High Product Quality Assurance

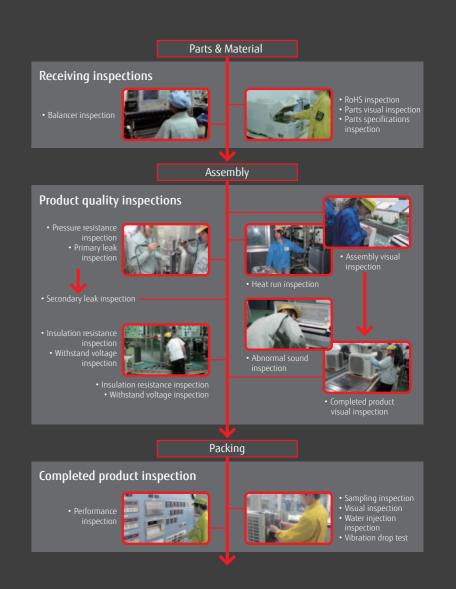
All Fujitsu General factories have acquired ISO 9001, and have built a quality control system common around the world. High quality products are offered to all over the world based on stringent quality inspections.

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.



OUR SOLUTION FOR ALL PROPERTIES

Fujitsu General provides the best solutions suitable for properties.

Solution Point



Target Property

LIGHT COMMERCIAL

For Small offices, Hotels, SCHOOL, Shops and Restaurant etc.

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

COMMERCIAL

For Large Building

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





SMALL OFFICES

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





AIRSTAGE™ J-Series Up to 16 HP by compact outdoor unit

Small VRF system is suitable for the buildings with many small rooms. Max. 40^{\star} indoor units can be connected.

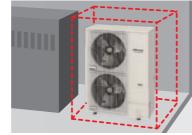
*Only J-IIIL 16 HP model

Energy saving solution suitable for meeting rooms and business discussion rooms

When there are no people in the room, save operation starts automatically to prevent unnecessary power consumption by linking up with a human sensor and external input/output kit.







J-IIIL

Compact and low noise design outdoor unit

This compact outdoor unit doesn't 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.

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.



New design panels ideal for grid ceiling

Compact Cassette Grid Type

We have equipped a new 620 mm square design panel that is ideal for the grid ceiling found in many offices in Europe. Easy installation and finished beauty are enhanced by these new panels.



1.1 kW personal air conditioning

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



Compact Floor

HOTELS

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 Appearanceoriented 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.



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





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.





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.



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



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.

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SCHOOL

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.





Touch Panel Controller UTY-DTGYZ1

New centralized remote controller with improved operability

Temperature management of each classroom 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.



Control and monitoring

LAN

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.







Various indoor units

Energy Recovery Ventilator

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.



airflow feeling

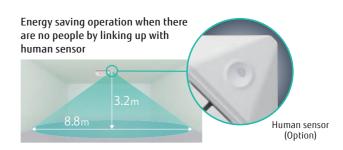
Circular Airflow Cassette blows out in all directions without temperature unevenness



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





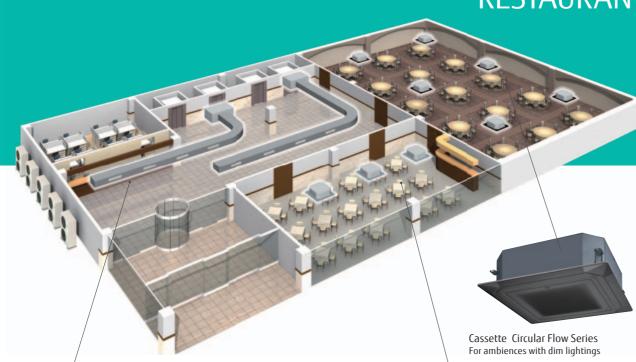


RESTAURANT, SHOPS

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.



RESTAURANT





Appropriate air conditioning in the atrium space

Appropriate air conditioning of the high ceiling and glass-sided atrium space with a large duct system







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)



Low outside air temperature cooling air conditioning support

Low outside air temperature cooling operation is necessary in winter in stores with a lot of heat inside. Air conditioning system can be supported flexibility to allow cooling operation at -15°C





Medium Static Pressure Duct

30-150 Pa

Commercial

LARGE BUILDING

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 savingorientated models and models compatible with a high outdoor air temperature of 52°C



AIRSTAGE VR-II

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

8 HP - 48 HP 34 Models

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

Individual air conditioning system for large buildings

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





8 HP - 54 HP 39 Models

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

Centralized control

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



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







Smartph

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.



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.





and connection capacity.

High system

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

flexibility

82* Pa *: 80Pa for VR-



AIRSTAGETM 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.

HIGH ENERGY EFFICIENCY

MORE COMFORT

HIGH RELIABILITY

DESIGN FLEXIBILITY

EASY INSTALLATION

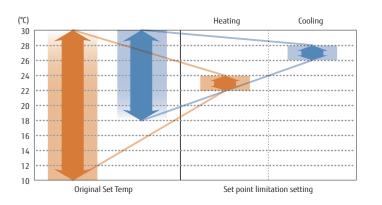
EASY SERVICE & MAINTENANCE



Operation Performance is Efficiently Controlled.

Room temperature set point limitation

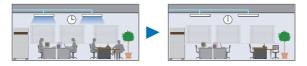
The minimum and maximum temperature ranges can be limited, which provide further energy saving while maintaining the comfort of the occupants.

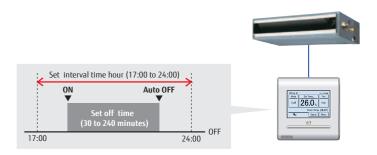


Auto-off timer

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.

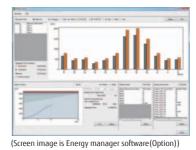


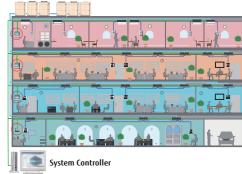


Energy saving management

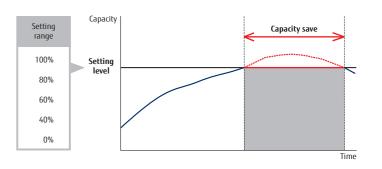
A variety energy saving operations can be set and managed depending on the season, weather, and time period.

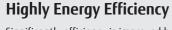
Excellent energy saving operation is performed by using System Controller.



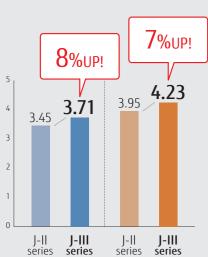


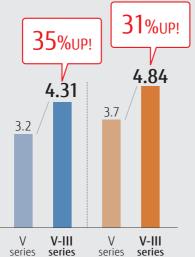
Operation capacity can be set in 5 steps for rated capability. The power consumption at peak is cut down and the maximum load is suppressed.

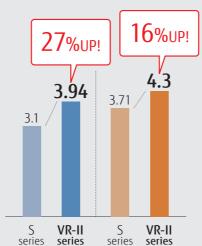




Significantly efficiency is improved by using DC twin rotary compressor, inverter technology, and large heat exchanger.







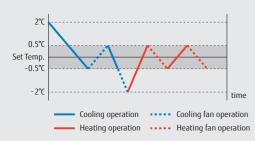
EER

COP



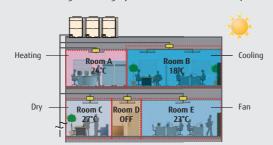
Auto changeover function

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



Auto changeover setting allows for the product to easily switch between cooling and heating modes 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.

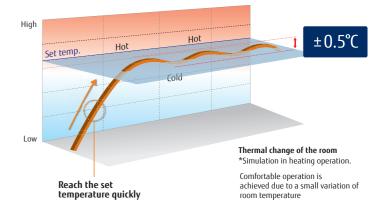
Automatic cooling / heating operation for each room is possible





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 ±0.5°C.



Low sound level design

Small capacity indoor units respond for 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.

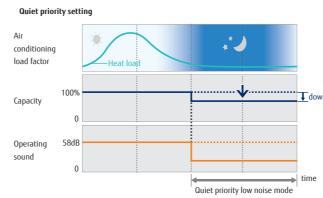


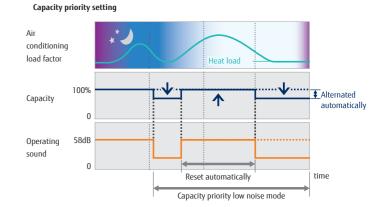
Small capacity indoor unit

Quiet operation

Low noise mode

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.

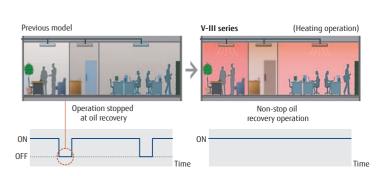




Non-stop oil recovery operation

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

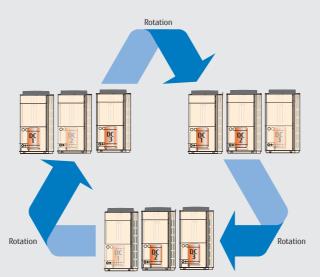
*: AIRSTAGE VR-II series is not available.





Outdoor unit rotational operation

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

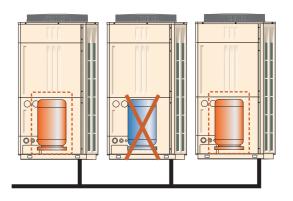


Note: Rotational operation is alternated by the start / stop timing of the compressor.

Backup operation

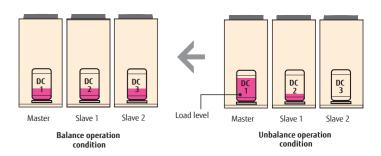
If one compressor fails, backup operation will be performed by the remaining compressors*.

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



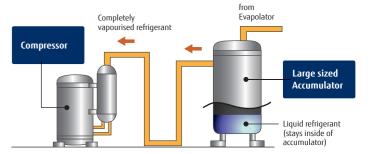
Advanced refrigerant control

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.



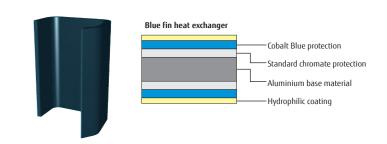
Liquid flow back protection

By adopting a large sized accumulator, the not completely vapourised 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.

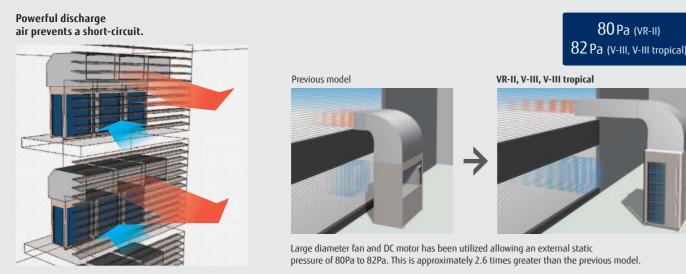


DESIGN FLEXIBILITY



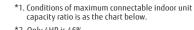
High static pressure

The outdoor unit can have a condenser hood easily connected with a static pressure of 80Pa to 82Pa. This allows outdoor units to be installed within plant rooms in high rise buildings.



High capacity connection





*2. Only 4HP is 46%

8HP-54HP

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

Series	Maximum connectable indoor unit capacity ratio										
Series	Without 1.1kW models	With 1.1kW models*4									
VR-II	150%	130%									
V-III tropical	130%	-									
J-IIIL	150%	150%									
J-III	150%	150%									
J-IIS	130%	117%									

AIRSTAGE™ V-III tropical series

Heat Pump type

Connectable indoor unit

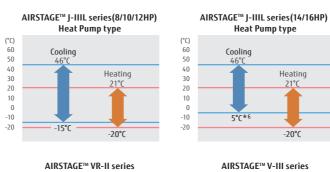
50% to 130%

Connectable indoor

up to 64

Wide operating range

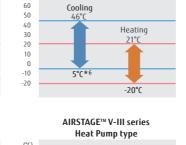
Installation in extreme temperature conditions is possible due to an increase in operational range.

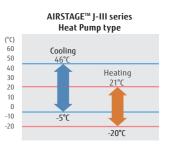


-20°C

50% to 150%*1

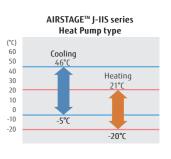
up to 13

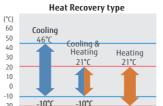


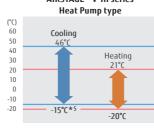


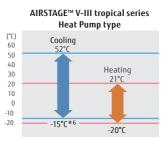
50%*2 to 130%*1

up to 8









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

^{*4.} In the case of connectable indoor units, 1.1 kW models and Cassette and / or Duct type of 9.0 kW class or more, maximum connectable indoor unit capacity ratio is 110%

^{*6.} Note: Only when all indoor units are 5.6 kW or more in the system, the operation range is -15 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.



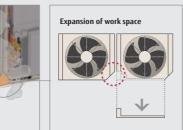
Can be transported in a small elevator



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.

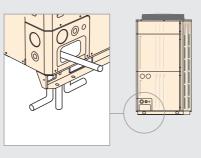






Flexible piping connection

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

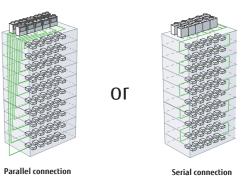




Flexible installation by 4 way pipe direction (J-IIIL is 3 way pipe direction.)

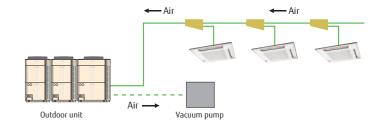
Simple wiring work

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



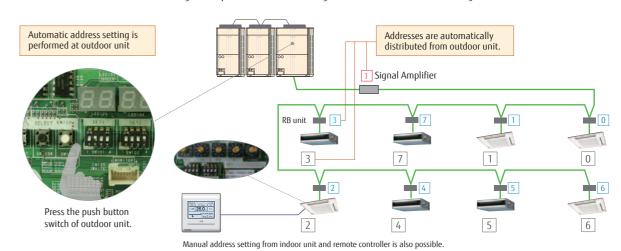
Easy evacuation - using vacuum mode function

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 can be set through the automatic function setting on the outdoor unit PCB.



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.

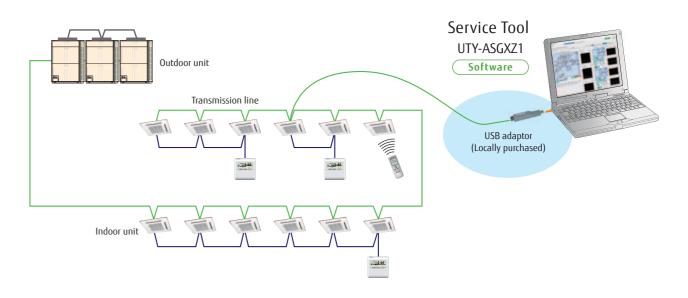


7-segment LED

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

Error diagnosis by Service Tool Connection to Service Tool

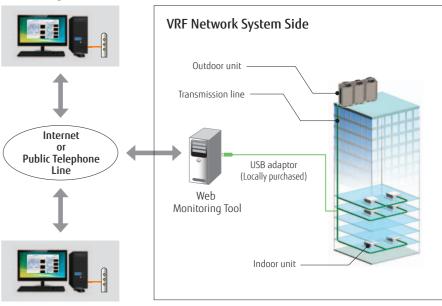
- Detail operation status and recent error history can be checked and analyzed by using the Service Tool.
- Last 5 min. operation memory can be also be recorded.



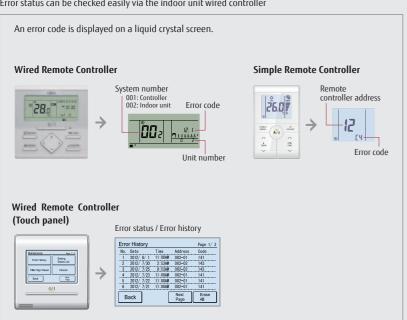
Remote monitoring

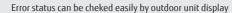
The Web Monitoring system allows you to view system operation anytime over the internet, ensuring issue free operation. The operating VRF network system in the building can be monitored real time over the Internet.

Monitoring Side



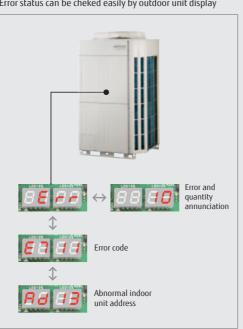
Error status can be checked easily via the indoor unit wired controller





Movable PCB panel Easier for maintenance

work behind the PCB









IRSTAGE

INVERTER

The AIRSTAGE series outdoor units were developed with structural designs and advanced inverter technology to provide higher efficiency.

High durability technology has also been incorporated to ensure long-term use.

AIRSTAGE™ LINE-UP

HEAT PUMP TYPE AIRSTAGE J-IIIL

HEAT PUMP TYPE AIRSTAGE J-III

HEAT PUMP TYPE AIRSTAGE J-IIS

HEAT RECOVERY TYPE AIRSTAGE VR-II

HEAT PUMP TYPE AIRSTAGE V-III

HEAT PUMP TYPE AIRSTAGE V-III TROPICAL Series

AIRSTAGE™ LINE-UP

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

=

Outdoor units range

НР	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
kW class	12.1	14.0	15.5	22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0	73.5	78.5	85.0	90.0	95.0	100.5	107.0	112.0	118.5	123.5	130.0	135.0	139.0	143.0	147.0
AIRSTAGE J-IIIL Space saving Heat Pump				AJY072LELAH	AJY090LELAH	AJY108LELAH	AJY126LELAH	AJY144LELAH																			
High Efficiency (Single phase)	AJY040LBLAH	AJY045LBLAH	AJY054LBLAH																								
Heat Pump High Efficiency (3 phase)	AJY040LELAH	AJY045LELAH	AJY050LELAH																								
AIRSTAGE J-IIS Space Heat Pump saving	AJY040LCLAH	AJY045LCLAH	AJY054LCLAH																								



AIRSTAGE VR-	Space saving	AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJY162GALH	AJY180GALH	AJY198GALH	AJY216GALH		Y234GALH				AJY324GALH			AJY378GALH	AJY396GALH	AJY414GALH	AJY432GALH			
Heat Recovery	High Efficiency					AJY144GALHH			AJY198GALHH	AJY216GALHH						AJY324GALHH			AJY378GALHH	AJY396GALHH					
∕Airstage [/-]]	Space saving	AJY072LALBH	AJY090LALBH	AJY108LALBH		AJY144LALBH	AJY162LALBH	AJY180LALBH	AJY198LALBH	AJY216LALBH	Ajv	/234LALBH				AJY324LALBH					AJY414LALBH	AJY432LALBH	AJY450LALBH	AJY468LALBH	AJY486LALBH
Heat Pump	High Efficiency					AJY144LALBHH	AJY162LALBHH			AJY216LALBHH	AjY	234LALBHH	AJY252LALBHH	AJY270LALBHH	 AJY306LALBHH		AJY342LALBHH	AJY360LALBHH	AJY378LALBHH	AJY396LALBHH	AJY414LALBHH				
AIRSTAGE V-III TROPICAL series	Space saving	AJY072LNLBH	AJY090LNLBH	AJY108LNLBH		-	AJY162LNLBH		AJY198LNLBH	AJY216LNLBH	AJY	/234LNLBH				AJY324LNLBH				AJY396LNLBH	AJY414LNLBH	AJY432LNLBH	AJY450LNLBH A	AJY468LNLBH	AJY486LNLBH
Heat Pump Production by order	High Efficiency					AJY144LNLBHH	AJY162LNLBHH	AJY180LNLBHH		AJY216LNLBHH	AJY	7234LNLBHH	AJY252LNLBHH	AJY270LNLBHH	AJY306LNLBHH		AJY342LNLBHH	AJY360LNLBHH	AJY378LNLBHH	AJY396LNLBHH	AJY414LNLBHH				

HEAT PUMP TYPE

AIRSTAGE J- III L series

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

System Outline

Compact Outdoor unit

The compact and low sound level enable the units to be installed to various environment with restriction and/or limited spaces such as mechanical rooms and or rooftops.

Small room application

Up to 40 indoor units can be connected by the optimum heat exchanger structure. Available to various small rooms.

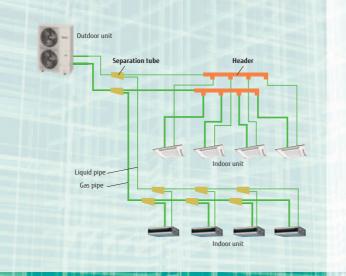
Quiet design

Top class low sound operation has been achieved. This allows installation of the units to various places without a special sound prevention work.

Small Office

System configuration example

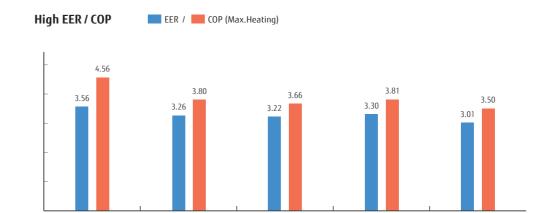
- This system is used for small and medium-sized buildings. 1 refrigerant system is used for each outdoor unit.
- Connection of multiple indoor units using separation tubes and headers.



Features

Efficiency in actual operation

Top class high EER/COP is achieved for all models by large heat exchanger, high efficient DC twin compressor, and our own technologies.



Advanced high efficiency technology



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.



15-120 rps

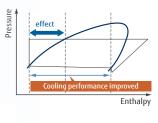
DC inverter control

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

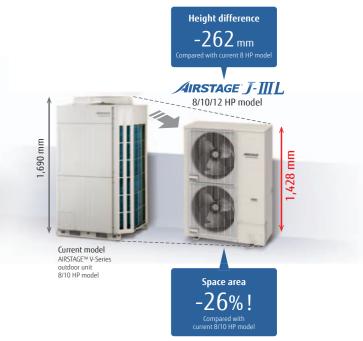
The equipment of scroll compressor with a wide range of rotational frequency from 15 to 120 rps together with Fujitsu General's unique sensorless sine wave control method which smoothly control the input power run into the motor realized a mutual improvement on the energy efficient operation and the low sound operation.





Compact Design





Inhouse installation







Low noise in consideration for the nearby residents

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

Installation at building back side







AIRSTAGE™ J-Series outdoor unit

AIRSTAGE™ V-Series outdoor unit

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

Installation at back street of building







AIRSTAGE™ V-Series outdoor unit

Flexible installation

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



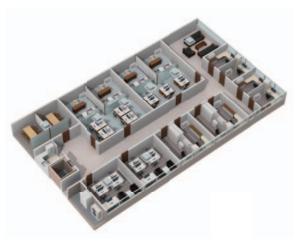
Long piping capability

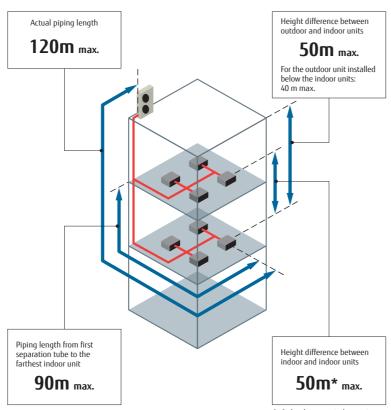
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 400 m. This opens up new possibilities in system design.

Up to 40 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 40 units.

*: 16HP model





*: Only when new indoor units and J-IIIL series are combined

Total pipe length

400m max.

High Static Pressure

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



Top Class Low Operating Sound

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



Specifications

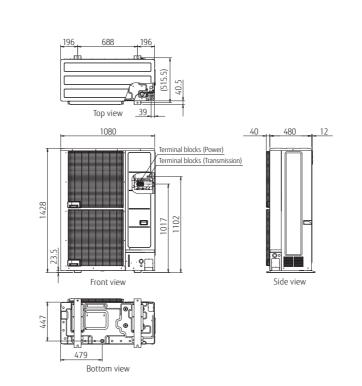
Rating Capaci	ty rang	je	HP	8	10	12	14	16
Model name				AJY072LELAH	AJY090LELAH	AJY108LELAH	AJY126LELAH	AJY144LELAH
Maximum Con	nectal	ble Indoor Unit		1-20	1-25	1-30	1-36	1-40
Power source						3-phase, ~400V, 50Hz		
		Cooling		22.4	28.0	33.5	40.0	45.0
Capacity		Nominal Heating	kW	22.4	28.0	33.5	40.0	45.0
		Max Heating		25.0	31.5	37.5	45.0	50.0
		Cooling		6.30	8.59	10.42	12.12	14.96
Input power		Nominal Heating	kW	4.65	6.61	8.18	9.71	11.81
		Max Heating		5.45	8.29	10.25	11.81	14.29
EER		Cooling		3.56	3.26	3.22	3.30	3.01
СОР		Nominal Heating	W/W	4.82	4.24	4.10	4.12	3.81
LUP		Max Heating]	4.56	3.80	3.66	3.81	3.50
Air flow rate			m3/h	8,400	9,000	11,000	13,000	14,000
Sound pressure leve		Cooling	dB (A)	52 / 66	54/69	59/73	62/75	64/77
Power level		Heating	UB (A)	54 /-	57/-	61/-	63/-	65/-
		Height		1,428	1,428	1,428	1,638	1,638
Dimensions		Width	mm	1,080	1,080	1,080	1,080	1,080
		Depth		480	480	480	480	480
Weight			kg	170	177	178	213	213
Refrigerant	Туре	(Global Warming P	otential)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
Kenngerani –		Charge	kg(CO2eq-T)	7.0 (14.6)	7.5 (15.7)	7.5 (15.7)	11.0 (22.9)	11.0 (22.9)
Connection pi	pe	Liquid	mm	9.52	9.52	12.70	12.70	12.70
diameter		Gas	mm	19.05	22.20	28.58	28.58	28.58
Total pipe len	gth		- m	400	400	400	400	400
Max. Height d	ifferen	ice			r.	0/40 (Outdoor unit: Upper/Low	er)	
Operation ran	20	Cooling	°c	-15 to 46	-15 to 46	-15 to 46	-5 to 46*	-5 to 46*
oheiarioii igii	ye [Heating	'	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

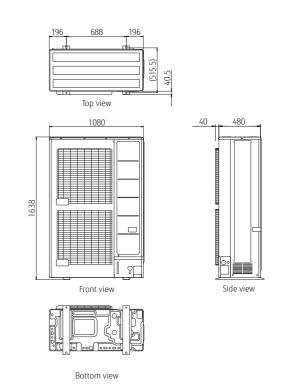
Note: Specifications are based on the following conditions.

Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

Dimensions

Models: AJY072LELAH / AJY090LELAH / AJY108LELAH Models: AJY126LELAH / AJY108LELAH (Unit:mm)





Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.

* The cooling operation range of -15 to 46°C is allowed only when all of the indoor units connected to the system are higher than capacity of 5.6kW.



AIRSTAGE J- III series

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

System Outline

High Energy Efficiency

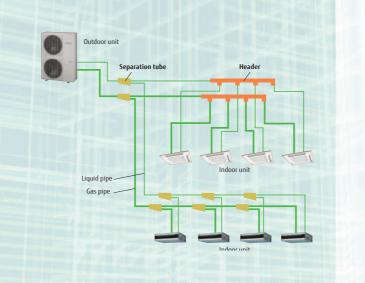
Small Office

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

Flexible systems for small- and medium-size buildings air conditioning
Space saving design and long piping design allow for flexible installation on the roofs or balconies of small- and medium-size buildings.
Multiple indoor units of various capacities and types can be capacited.

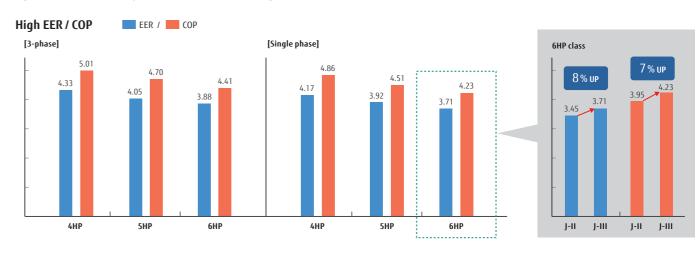
System configuration example

- 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



Efficiency in actual operation

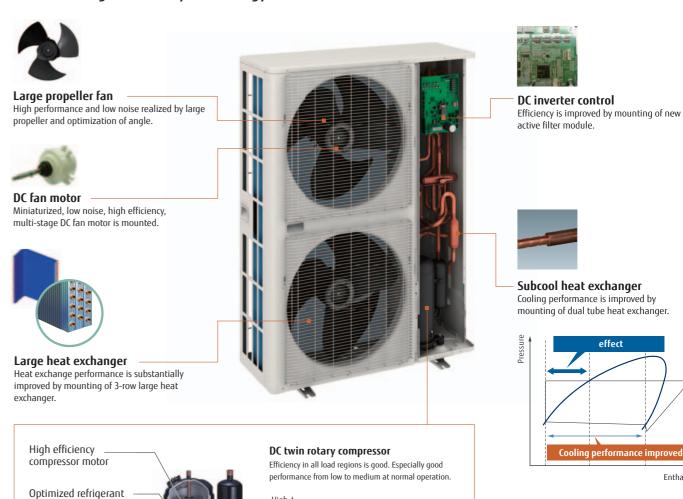
Top class high COP is achieved for all models by large heat exchanger, high efficient DC twin compressor, and our own technologies.



Advanced high efficiency technology

flow design

Highly accurate parts



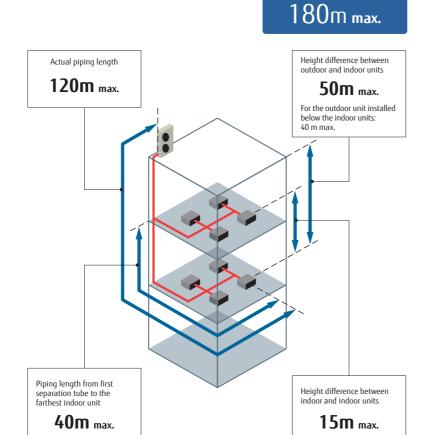
DC Twin Rotary compresso

Compressor capacity

Long piping capability

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

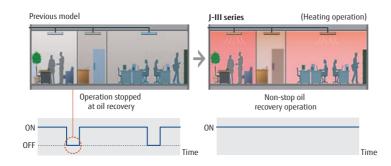




Total pipe length

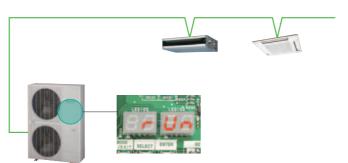
Non-stop oil recovery operation

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



Easier Installation

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



Display connected indoor unit numbers

• Duplicately set address number of indoor unit can be displayed

Specifications

Rating Capacil	y range	е	HP	4	5	6	4	5	6						
Model name				AJY040LBLAH	AJY045LBLAH	AJY054LBLAH	AJY040LELAH	AJY045LELAH	AJY054LELAH						
Maximum Con	nectab	le Indoor Unit		1-9	1-10	1-13	3-phase, ~400V, 50Hz 12.1 14.0 15.: 13.6 16.0 18.(2.79 3.46 3.9) 2.71 3.40 4.0(4.33 4.05 3.8) 5.01 4.70 4.4(6,200 6,400 6,90 50/66 51/67 53/(52/68 53/69 55/7 Blue fin Blue fin Blue 1,334 1,334 1,334 970 970 970 370 370 370								
Power source				9	ingle-phase, ~230V, 50F	łz	-	3-phase, ~400V, 50Hz 12.1 14.0 15.5 13.6 16.0 18.0 2.79 3.46 3.99 2.71 3.40 4.08 4.33 4.05 3.88 5.01 4.70 4.41 6,200 6,400 6,900 50 / 66 51 / 67 53 / 69 52 / 68 53 / 69 55 / 7 Blue fin Blue fin Blue fi 1,334 1,334 1,334							
		Cooling	1,147	12.1	14.0	15.5	12.1	14.0	15.5						
Capacity		Heating	kW	13.6	16.0	18.0	13.6	16.0	18.0						
		Cooling	1111	2.90	3.57	4.18	2.79	3.46	3.99						
Input power		Heating	- kW	2.80	3.55	4.26	2.71	3.40	4.08						
EER		Cooling		4.17	3.92	3.71	4.33	4.05	3.88						
СОР		Heating	W/W	4.86	4.51	4.23	5.01	4.70	4.41						
Air flow rate			m3/h	6,200	6,400	6,900	6,200	6,400	6,900						
Sound pressure I	evel /	Cooling	4D (A)	50 / 66	51 / 67	53 / 69	50 / 66	51 / 67	53 / 69						
Sound pressure level?		Heating	dB (A)	52 / 68	53 / 69	55 / 71	52 / 68	53 / 69	55 / 71						
Heat exchange	er fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin						
		Height		1,334	1,334	1,334	1,334	1,334	1,334						
Dimensions		Width	mm	970	970	970	970	970	970						
		Depth	7	370	370	370	370	370	370						
Weight			kg	117	117	119	119	119	119						
	Type (Global Warming	Potential)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)						
Refrigerant –		Charge	kg(CO2eq-T)	4.8 (10.0)	5.3 (11.1)	5.3 (11.1)	4.8 (10.0)	5.3 (11.1)	5.3 (11.1)						
Connection pi	oe	Liquid		9.52	9.52	9.52	9.52	9.52	9.52						
diameter		Gas	mm	15.88	15.88	19.05	15.88	15.88	19.05						
Total pipe length				180	180	180	180	180	180						
Max. Height difference		m	50/4	0 (Outdoor unit: Upper/L	ower)	50/4	0 (Outdoor unit: Upper/L	ower)							
0		Cooling	۰,	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46						
Operation ran	ge	Heating	- °C	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21						

Note: Specifications are based on the following conditions.

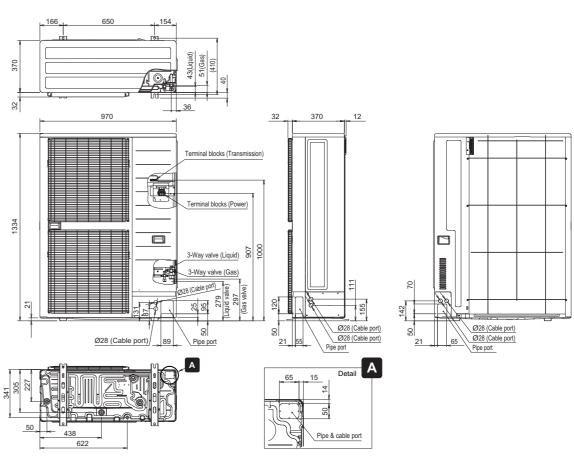
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.

The protective function may work when using it outside the operation range.

Dimensions

Models: AJY040LBLAH / AJY045LBLAH / AJY054LBLAH / AJY040LELAH / AJY045LELAH / AJY054LELAH



(Unit:mm)



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

System Outline

Space saving and low sound level design

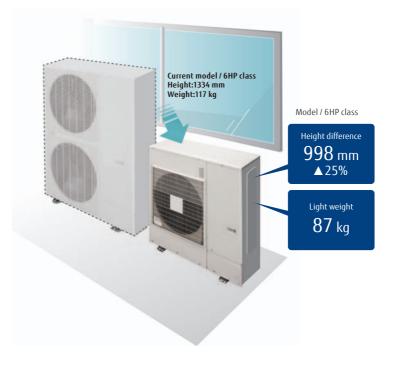
Economical individual air conditioning is realized by ALL-DC technology, large capacity DC twin rotary compressor, and 3-row heat exchanger though the size is compact.

Flexible systems for homes, shops, small-size buildingss air conditioning

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

Large Homes System configuration example Outdoor unit Separation tube Header Liquid pipe Gas pipe Indoor unit

It Can be Easily Carried and Installed Obscure Place



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

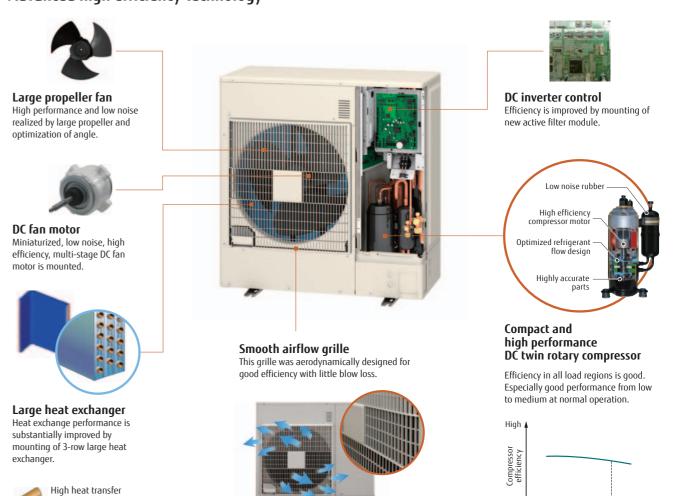
Significantly low sound level is improved by using DC twin rotary compressor, inverter technology, and advanced airflow structure design.



Advanced high efficiency technology

copper tube (Improved

lead angle)



100%

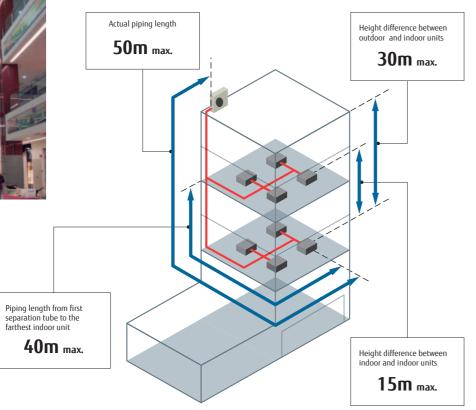


Long Piping Length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 80 m. This opens up new possibilities in system design.

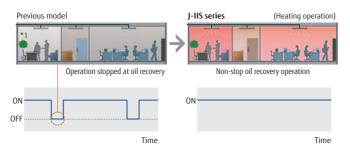






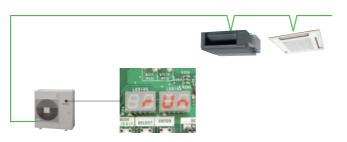
Non-stop oil recovery operation

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



Easier Installation

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



- Display connected indoor unit numbers
- Duplicately set address number of indoor unit can be displayed

Specifications

Rating Capac	ity range	HP	4	5	6
Model name			AJY040LCLAH	AJY045LCLAH	AJY054LCLAH
Maximum Co	nnectable Indoor Uni	t	7	8	8
Power source				Single-phase, ~230V, 50Hz	
C	Cooling	kW	12.1	14.0	15.1
Capacity	Heating	KVV	13.6	16.0	16.5
laaukaausa	Cooling	kW	3.44	4.43	5.03
Input power	Heating	KVV	3.09	3.93	4.11
EER	Cooling	W/W	3.52	3.16	3.00
COP	Heating	W/W	4.40	4.07	4.01
Air flow rate		m3/h	4,040	4,200	4,200
Sound pressure	level / Cooling	dB (A)	51 / 67	53 / 69	54 / 70
Power level	Heating	db (A)	54 / 68	55 / 69	56 / 70
Heat exchang	jer fin		Blue fin	Blue fin	Blue fin
	Height		998	998	998
Dimensions	Width	mm	970	970	970
	Depth		370	370	370
Weight		kg	86	86	87
D - (-:)	Type (Global Warmi	ng Potential)	R410A (2,088)	R410A (2,088)	R410A (2,088)
Refrigerant -	Charge	kg(CO2eq-T)	4.0 (8.4)	4.0 (8.4)	4.0 (8.4)
Connection p	ipe Liquid		9.52	9.52	9.52
diameter	Gas	mm	15.88	15.88	15.88
Total pipe len	gth		80	80	80
Max. Height (difference	m	30	30	30
Operation	Cooling		-5 to 46	-5 to 46	-5 to 46
Operation rar	Heating		-20 to 21	-20 to 21	-20 to 21

Note : Specifications are based on the following conditions.

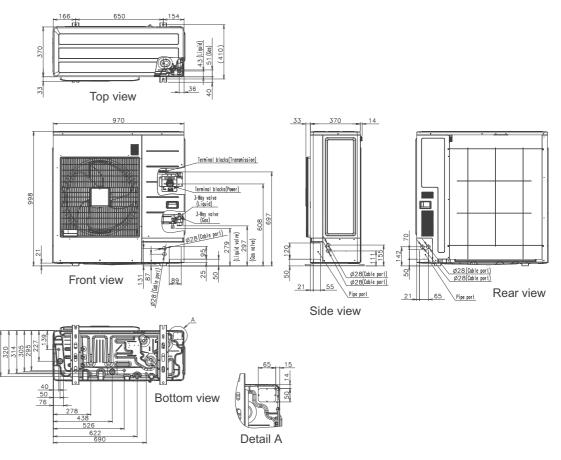
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.

The protective function may work when using it outside the operation range.

Dimensions

Models: AJY040LCLAH / AJY045LCLAH / AJY054LCLAH

(Unit:mm)



HEAT RECOVERY TYPE

AIRSTAGE VR-II series

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

System Outline

Simultaneous cooling and heating operation using 1 refrigerant system

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

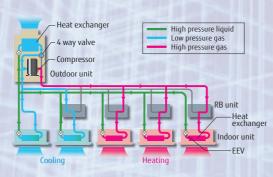
Annual cooling operation

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

Handles changes in the temperature difference

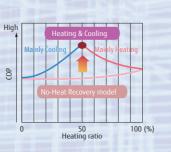
The operation mode can be freely changed when there are large temperature differences during the day, such as between seasons.

Large Building



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.

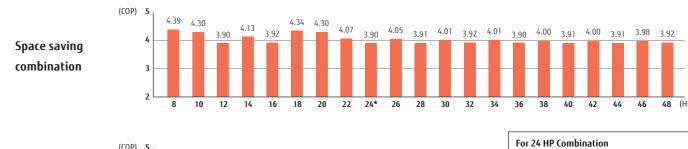
Our Heat recovery systems achieve high operating energy efficiency by drawing heat from the room to be cooled and transferring it as energy for rooms that are to be heated.



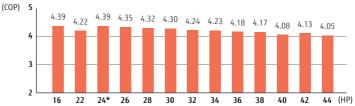
Features

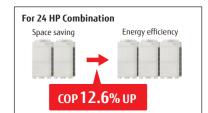
Efficiency in actual operation

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 efficiency combination





Energy saving technology that boosted operation efficiency

Powerful I By using CFD' achieves high

Powerful large propeller fan

By using CFD*1 technology, a newly designed fan achieves high performance and low noise operation.

*1. CFD = Computational Fluid Dynamics



3 phase DC fan motor

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



Subcool heat exchanger

High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.



Sine-wave DC inverter control

High efficiency is realized by adoption of reduced switching loss IPM.



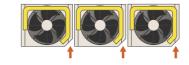
High efficient compressor Large capacity DC inverter compressor

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



4-face heat exchanger

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





Front intake port (corner cut air inhaling structure)

In multiple outdoor unit installations, the unique front intake design improves airflow into the Heat Exchanger.





All inverter compressor

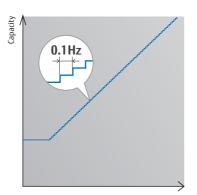
Large capacity DC inverter compressor

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



High efficient compressor speed control

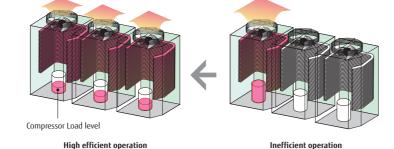
Comfortable space with small room temperature changes and little energy loss is created by 0.1Hz steps compressor speed control.



Inverter frequency

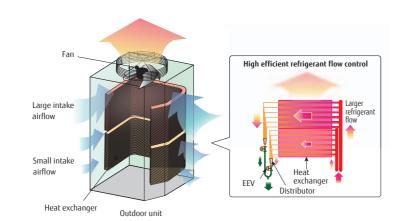
Multiple outdoor operation control

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.



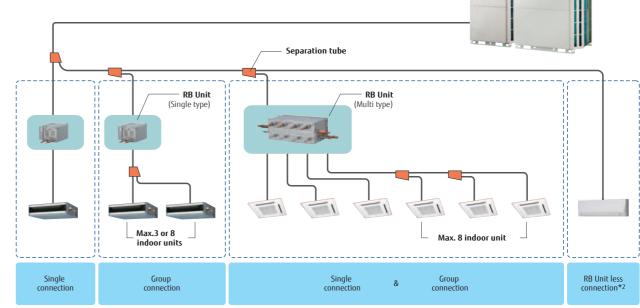
Heat exchanger refrigerant control

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.



Individual

cooling and heating

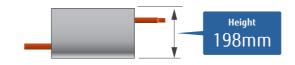
• The RB unit can be freely positioned between the first branch and the indoor unit.

cooling and heating

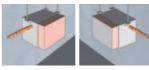
- The maximum height difference between RB units is 15 m.
- *2. RB Unit is not necessary for cooling only use.

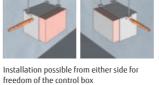
Flexible installation of RB unit

cooling and heating



- Small & slim design saves space
- A drain pipe is not required
- The control box position can be changed to meet the installation

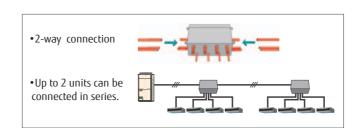






Installation possible on the upper-side for use in narrow space

- Small design saves space
- A drain pipe is not required
- Simple installation series connection design







Simultaneous cooling and heating

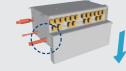
RB unit (single type)

RB unit (multi type)

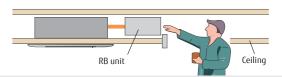
Cooling only







- Maintenance can be performed from the side.
- Electrics box can be temporarily fixed by sliding
- Parts can be replaced easily even at narrow space in the ceiling.

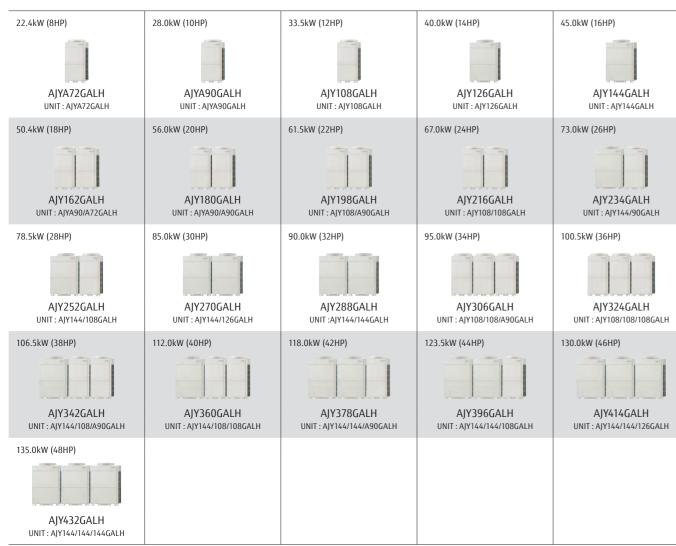


• Combinations other than the followings are not recommended.

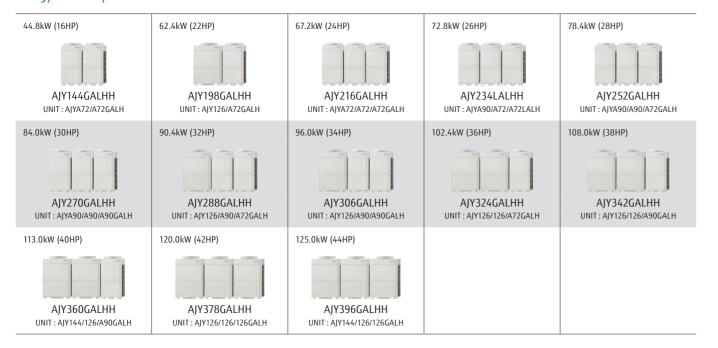


(Unit: mm)



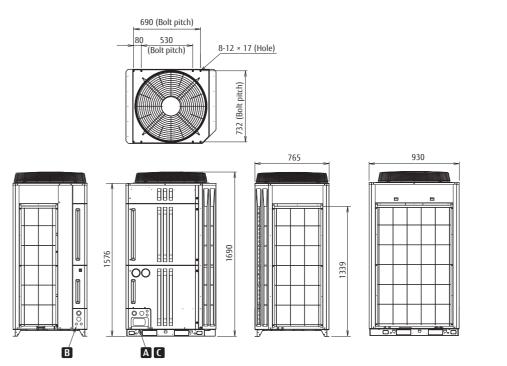


Energy efficiency combination

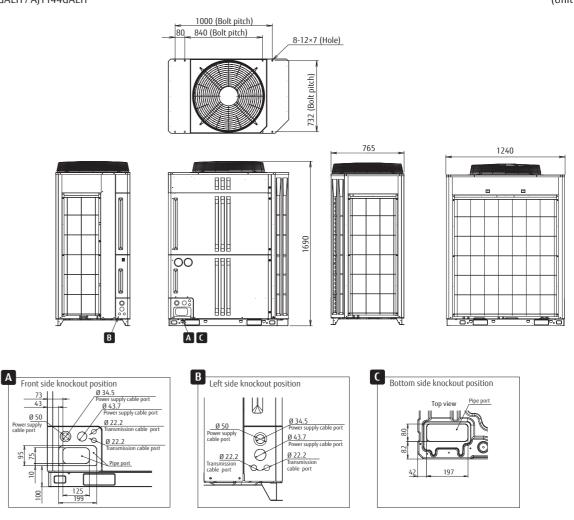


Dimensions

8,10,12HP: AJYA72GALH / AJYA90GALH / AJY108GALH



14,16HP: AJY126GALH / AJY144GALH (Unit: mm)





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
Model name			AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJY162GALH	AJY180GALH	AJY198GALH	AJY216GALH	AJY234GALH	AJY252GALH	AJY270GALH	AJY288GALH	AJY306GALH	AJY324GALH	AJY342GALH	AJY360GALH	AJY378GALH	AJY396GALH	AJY414GALH	AJY432GALH
Unit 1 Unit 2 Unit 3			AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJYA90GALH AJYA72GALH	AJYA90GALH AJYA90GALH	AJY108GALH AJYA90GALH	AJY108GALH AJY108GALH	AJY144GALH AJYA90GALH	AJY144GALH AJY108GALH	AJY144GALH AJY126GALH	AJY144GALH AJY144GALH	AJY108GALH AJY108GALH AJYA90GALH	AJY108GALH AJY108GALH AJY108GALH	AJY144GALH AJY108GALH AJYA90GALH	AJY144GALH AJY108GALH AJY108GALH	AJY144GALH AJY144GALH AJYA90GALH	AJY144GALH AJY144GALH AJY108GALH	AJY144GALH AJY144GALH AJY126GALH	AJY144GALH AJY144GALH AJY144GALH
Maximum Connectable	Indoor Unit*1		15	16	17	21	24	32	30	32	35	39	42	45	48	50	53	57	60	63	64	64	64
Indoor unit connectable o	apacity Cooling	kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.2-75.6	28.0-84.0	30.8-92.2	33.5-100.5	36.5-109.5	39.3-117.7	42.5-127.5	45.0-135.0	47.5-142.5	50.3-150.7	53.3-159.7	56.0-168.0	59.0-177.0	61.8-185.2	65.0-195.0	67.5-202.5
Power source						3- _F	phase 4 wire, 400 V,	50Hz									3-phase 4 wir	e, 400 V, 50Hz					
6	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
Capacity	Heating	KVV	25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0	75.0	81.5	87.5	95.0	100.0	106.5	112.5	119.0	125.0	131.5	137.5	145.0	150.0
Input power	Cooling	kW	5.45	7.11	9.75	11.34	13.61	12.56	14.22	16.86	19.50	20.72	23.36	24.95	27.22	26.61	29.25	30.47	33.11	34.33	36.97	38.56	40.83
input power	Heating	KVV	5.70	7.33	9.62	10.90	12.77	13.03	14.66	16.95	19.24	20.10	22.39	23.67	25.54	26.57	28.86	29.72	32.01	32.87	35.16	36.44	38.31
EER	Cooling	W/W	4.11	3.94	3.44	3.53	3.31	4.01	3.94	3.65	3.44	3.52	3.36	3.41	3.31	3.57	3.44	3.50	3.38	3.44	3.34	3.37	3.31
COP	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
Air flow rate	High	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	/ Cooling	dB (A)	56 / 77	58 / 79	59 / 80	60 / 81	61 / 82	60 / 81	61 / 82	62 / 83	62 / 83	63 / 84	63 / 84	64 / 84.5	64/85	63 / 85	64 / 85	64 / 85	65 / 85.5	65 / 86	65 / 86	65 / 86	66 / 87
Power level	Heating	00 (A)	58 / 80	59 / 81	61 / 83	61 / 83	61 / 83	62 / 84	62 / 84	63 / 85	64 / 86	63 / 85	64 / 86	64 / 86	64 / 86	65 / 87.2	65 / 87	65 / 87	66 / 87.7	65 / 87	66 / 88	66 / 88	66 / 88
Maximum external sta	ic 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 outp	out	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
	Height		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
Dimensions	Width	mm	930	930	930	1,240	1,240	930×2	930×2	930×2	930×2	1,240+930	1,240+930	1,240×2	1,240×2	930×3	930×3	1,240+930×2	1,240+930×2	1,240×2+930	1,240×2+930	1,240×3	1,240×3
	Depth		765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765
Weight		kg	262	262	262	286	286	262×2	262×2	262×2	262×2	286+262	286+262	286×2	286×2	262×3	262×3	286+262×2	286+262×2	286×2+262	286×2+262	286×3	286×3
Refrigerant Ty	pe (Global Warming P		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	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)
	Liquid	4	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
Connection pipe diame		s mm	15.88	19.05	19.05	22.22	22.22	22.22	22.22	28.58	28.58	28.58	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92
	Suction Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27
	Cooling	4	-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
Operation range	Heating	*C	-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/Heatin	g	-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
Model name			AJY144GALHH	AJY198GALHH	AJY216GALHH	AJY234GALHH	AJY252GALHH	AJY270GALHH	AJY288GALHH	AJY306GALHH	AJY324GALHH	AJY342GALHH	AJY360GALHH	AJY378GALHH	AJY396GALHH
Unit 1			AJYA72GALH	AJY126GALH	AJYA72GALH	AJYA90GALH	AJYA90GALH	AJYA90GALH	AJY126GALH	AJY126GALH	AJY126GALH	AJY126GALH	AJY144GALH	AJY126GALH	AJY144GALH
Unit 2			AJYA72GALH	AJYA72GALH	AJYA72GALH	AJYA72GALH	AJYA90GALH	AJYA90GALH	AJYA90GALH	AJYA90GALH	AJY126GALH	AJY126GALH	AJY126GALH	AJY126GALH	AJY126GALH
Unit 3					AJYA72GALH	AJYA72GALH	AJYA72GALH	AJYA90GALH	AJYA72GALH	AJYA90GALH	AJYA72GALH	AJYA90GALH	AJYA90GALH	AJY126GALH	AJY126GALH
Maximum Connectable I		T .	24	33	36	39	42	45	48	51	54	57	60	64	64
Indoor unit connectable ca	pacity Cooling	kW	22.4-67.2	31.2-93.6	33.6-100.8	36.4-109.2	39.2-117.6	42.0-126.0	45.2-135.6	48.0-144.0	51.2-153.6	54.0-162.0	56.5-169.5	60.0-180.0	62.5-187.5
Power source						3-р	hase 4 wire, 400 V, 5	50Hz					3-phase 4 wir	e, 400 V, 50Hz	
	Cooling	1111	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
Capacity	Heating	kW	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
	Cooling		10.90	16.79	16.35	18.01	19.67	21.33	23.90	25.56	28.13	29.79	32.06	34.02	36.29
Input power	Heating	kW	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	3.52	3.53	3.44
COP	Heating	W/W	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
Air flow rate	High	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 /	Cooling		59 / 80	61 / 82	61 / 82	62 / 83	62 / 83	63 / 84	63 / 84	64 / 85	64 / 85	64 / 86	65 / 86	65 / 86	65 / 86
Power level	Heating	dB (A)	61 / 83	63 / 85	63 / 85	63 / 85	63 / 85	64/86	64/86	65 / 87	65 / 87	65 / 87	65 / 87	66 / 88	66 / 88
Maximum external station	c pressure	Pa	80	80	80	80	80	80	80	80	80	80	80	80	80
Compressor motor outpu	ıt	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				
	Height		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
Dimensions	Width	mm	930×2	1,240+930	930×3	930×3	930×3	930×3	1,240+930×2	1,240+930×2	1,240×2+930	1,240×2+930	1,240×2+930	1,240×3	1,240×3
	Depth	1	765	765	765	765	765	765	765	765	765	765	765	765	765
Weight		kg	262×2	286+262	262×3	262×3	262×3	262×3	286+262×2	286+262×2	286×2+262	286×2+262	286×2+262	286×3	286×3
Тур	e (Global Warming Po	otential)	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)				
Refrigerant	Charge	kg(CO2eq-T)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
	Liquid		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
Connection pipe diamete	er Discharge Gas	mm	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	7	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
	Cooling		-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				
Operation range	Heating	*c	-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	1	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21				

Note: Specifications are based on the following conditions.

Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.

^{*1 :} Minimum connectable indoor unit number is 2.

^{*2 :} The noise value is the value when measured in an anechoic room.

When measured in the actual installed state, surrounding noise and reflections are received and the measured value is usually larger than the indicated value.

HEAT PUMP TYPE

AIRSTAGE 1/- III series

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

System Outline

Excellent energy saving

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

High design flexibility for various building air conditioning

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

Easy installation and maintenance

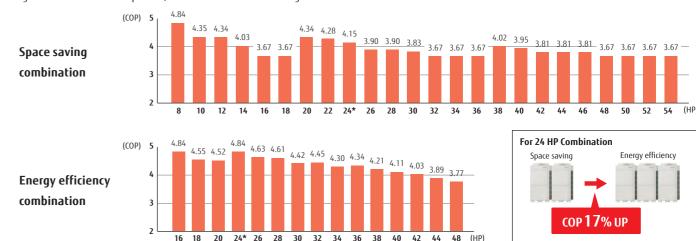
The flexible communication method and piping connections makes installation and maintenance easy even for large systems.

Large Office 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. Header Header Liquid pipe Gas pipe

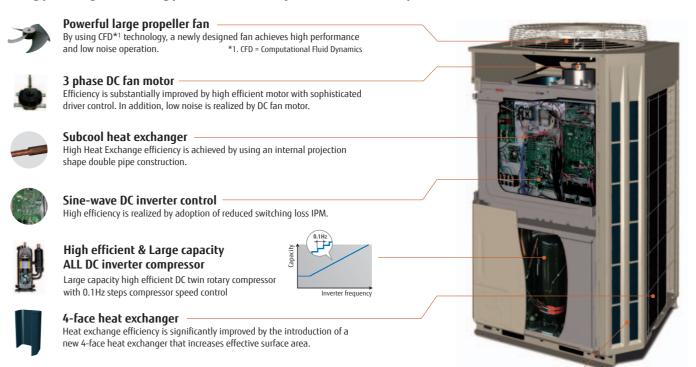
Efficiency in actual operation

Features

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



Energy saving technology that boosted operation efficiency

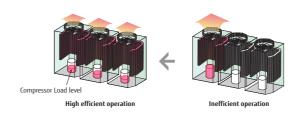


Advanced energy saving control

Multiple outdoor operation control

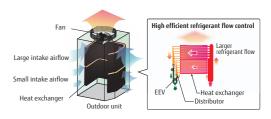
This control method operates all compressors at part load and distributes refrigerant to all heat exchangers to improve the overall system efficiency.

Front intake port (corner cut air inhaling structure)



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.



• Combinations other than the followings are not recommended.



(Unit: mm)

Space saving combination 22.4kW (8HP) 28.0kW (10HP) 33.5kW (12HP) 40.0kW (14HP) 45.0kW (16HP) AJY072LALBH AJY090LALBH AJY108LALBH AJY144LALBH AJY126LALBH UNIT: AJY072LALBH UNIT: AJY090LALBH UNIT: AJY108LALBH UNIT: AJY126LALBH UNIT: AJY144LALBH

50.0 kW (18HP) AJY162LALBH AJY180LALBH UNIT: AJY162LALBH

UNIT: AJY090/090LALBH 85.0 kW (30HP)







AJY432LALBH UNIT: AJY144/144/144LALBH

AJY252LALBH

UNIT: AJY162/090LALBH

AJY342LALBH

78.0 kW (28HP)

106.0 kW (38HP)

56.0kW (20HP)





AJY450LALBH UNIT: AJY162/144/144LALBH

62.4 kW (22HP)



AJY288LALBH UNIT: AJY144/144LALBH 118.0 kW (42HP)





68.0 kW (24HP)



73.0 kW (26HP)

100.0 kW (36HP)

128.0 kW (46HP)

AJY234LALBH

UNIT: AJY144/090LALBH

AJY324LALBH

UNIT: AJY162/162LALBH

AJY414LALBH

UNIT · AIY162/162/0901 ALBH



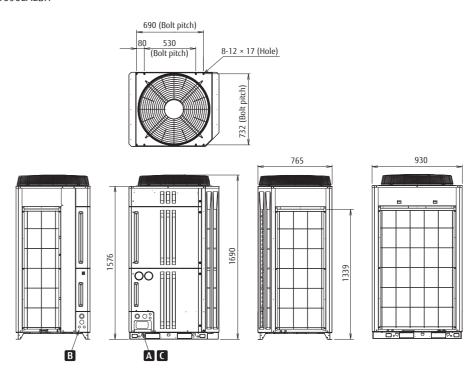




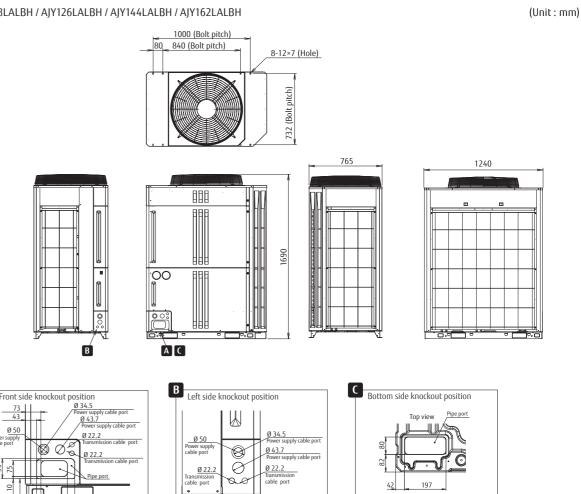
AJY486LALBH UNIT: AJY162/162/162LALBH



8,10HP: AJY072LALBH / AJY090LALBH



12,14,16,18HP: AJY108LALBH / AJY126LALBH / AJY144LALBH / AJY162LALBH









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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
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					AJY162LALBH AJY090LALBH	AJY144LALBH AJY126LALBH	AJY144LALBH AJY144LALBH	AJY162LALBH AJY144LALBH	AJY162LALBH AJY162LALBH	AJY162LALBH AJY090LALBH AJY090LALBH	AJY144LALBH AJY126LALBH AJY090LALBH	AJY144LALBH AJY144LALBH AJY090LALBH	AJY162LALBH AJY144LALBH AJY090LALBH	AJY162LALBH AJY162LALBH AJY090LALBH	AJY144LALBH AJY144LALBH AJY144LALBH	AJY162LALBH AJY144LALBH AJY144LALBH	AJY162LALBH AJY162LALBH AJY144LALBH	AJY162LALBH AJY162LALBH AJY162LALBH
Maximum Connectable Indoo	or 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 capacit	Cooling	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-ph	nase 4 wire, 400 V	, 50Hz			1							3-ph	ase 4 wire, 400 V,	50Hz					
-	Cooling		22.4	28.0	33.5	40.0	45.0	50.0	56.0	62.4	68.0	73.0	78.0	85.0	90.0	95.0	100.0	106.0	113.0	118.0	123.0	128.0	135.0	140.0	145.0	150.0
Capacity	Heating	kW	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
land and	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
Input power	Heating	KVV	5.17	7.25	8.65	11.17	13.63	13.63	14.50	16.34	18.42	20.88	20.88	24.80	27.26	27.26	27.26	28.13	32.05	34.51	34.51	34.51	40.89	40.89	40.89	40.89
EER	Cooling	W/W	4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27	3.55	3.46	3.21	3.02	3.41	3.62	3.54	3.34	3.17	3.46	3.29	3.14	3.02
СОР	Heating	**/**	4.84	4.35	4.34	4.03	3.67	3.67	4.34	4.28	4.15	3.90	3.90	3.83	3.67	3.67	3.67	4.02	3.95	3.81	3.81	3.81	3.67	3.67	3.67	3.67
Air flow 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	13,000+11,100	13,700+11,100	13,700+13,000	13,700×2	13,700×2	13,700×2	13,700+11,100×2	13,700+13,000+ 11,100	13,700×2+11,100	13,700×2+11,100	13,700×2+11,100	13,700×3	13,700×3	13,700×3	13,700×3
Sound pressure level*2 /	Cooling	dB (A)	56 / 77	58 / 79	57 / 78	60 / 81	62 / 83	63 / 84	61 / 82	61 / 82	62 / 83	63 / 84	64 / 85	64 / 85	65 / 88	66 / 87	66 / 87	65 / 86	65 / 86	66 / 87	66 / 87	67 / 87	67 / 88	67 / 88	67 / 88	68 / 89
Power level	Heating	05 (11)	58 / 80	59 / 81	60 / 83	62 / 84	64 / 86	64 / 86	62 / 84	63 / 85	64/86	65 / 87	65 / 87	66 / 88	67 / 89	67 / 89	67 / 89	66 / 88	67 / 89	68 / 90	68 / 90	68 / 90	69 / 91	69 / 91	69 / 91	69 / 91
Maximum external static pre	ssure	Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output		kW	7.5	7.5	11.0	11.0	11.0	11.0	7.5×2	11.0+7.5	11.0+7.5	11.0+7.5	11.0+7.5	11.0×2	11.0×2	11.0×2	11.0×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin					
	Height		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
Dimensions	Width	mm	930	930	1,240	1,240	1,240	1,240	930×2	1,240+930	1,240+930	1,240+930	1,240+930	1,240×2	1,240×2	1,240×2	1,240×2	1,240+930×2	1,240×2+930	1,240×2+930	1,240×2+930	1,240×2+930	1,240×3	1,240×3	1,240×3	1,240×3
	Depth		765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765
Weight	-1-1W	kg	252	252	275	275	275	275	252×2	275+252	275+252	275+252	275+252	275×2	275×2	275×2	275×2	275+252×2	275×2+252	275×2+252	275×2+252	275×2+252	275×3	275×3	275×3	275×3
	obal Warming Pot	ential)	K41UA (2,088)	R410A (2,088)	R410A (2,088)	K410A (2,088)	K410A (2,088)	R41UA (2,088)	K410A (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)				
Refrigerant C	harge	kg(CO2eq-T)		11.7 (24.4)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	1	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)	<u> </u>	11.8×2 (24.6×2)	11.8×2 (24.6×2)		11.8+11.7×2 (24.6+24.4×2)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×3 (24.6×3)		11.8×3 (24.6×3)	
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
	Discharge Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
Operation range	Cooling	*C	-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					

Energy	Efficiency	Combina	ation

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Rating Capacity ran	nge		HP	16	18	20	24	26	28	30	32	34	36	38	40	42	44	46
Rating capacity ran	nge			10	10	20	24	20	20	30	32	34	30	30	40	72	77	
Model name				AJY144LALBHH	AJY162LALBHH	AJY180LALBHH	AJY216LALBHH	AJY234LALBHH	AJY252LALBHH	AJY270LALBHH	AJY288LALBHH	AJY306LALBHH	AJY324LALBHH	AJY342LALBHH	AJY360LALBHH	AJY378LALBHH	AJY396LALBHH	AJY414LALBHH
Unit 1				AJY072LALBH	AJY090LALBH			AJY090LALBH		AJY126LALBH	AJY108LALBH		AJY108LALBH	AJY126LALBH	AJY126LALBH	AJY126LALBH	AJY144LALBH	AJY144LALBH
Unit 2				AJY072LALBH	AJY072LALBH	AJY072LALBH	AJY072LALBH	AJY072LALBH	AJY072LALBH	AJY072LALBH		AJY108LALBH	AJY108LALBH	AJY108LALBH	AJY126LALBH	AJY126LALBH	AJY126LALBH	AJY144LALBH
Unit 3 Maximum Connecta	- h l - l - d l	II: s/k1		34	20	/2	AJY072LALBH 52	AJY072LALBH 56	AJY072LALBH 60	AJY072LALBH 64	AJY072LALBH	AJY072LALBH 64	AJY108LALBH	AJY108LALBH	AJY108LALBH 64	AJY126LALBH	AJY126LALBH 64	AJY126LALBH 64
			114/		39	43					64		50 2 150 7	F2 F 100 F		64	_	
Indoor unit connectat	DIE CAPACITY	Cooling	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-pha	ase 4 wire, 400 V	, 50Hz						3-phase 4 wir	re, 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
Сарасіту		Heating	KVV	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
lanut annua		Cooling	LAM	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
Input power		Heating	kW	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	14/04/	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		Heating	W/W	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
Air flow 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 leve	rel*2 /	Cooling	1- (.)	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
Power level		Heating	dB (A)	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	l static pressi	ure	Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor motor of	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	1	'		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
		Height		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
Dimensions		Width	mm	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
	Type (Glob	oal Warming Pot	ential)	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)
Refrigerant	Cha	rge	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)
		Liquid		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
Connection pipe dia	ameter	Discharge Gas	mm	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
		Cooling	**	-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
Operation range		Heating	*C	-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.

^{*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 $% \left\{ 1,2,\ldots ,n\right\} =0$ received and the measured value is usually larger than the indicated value.

HEAT PUMP TYPE

AIRSTAGE V- TROPICAL series



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

System Outline

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 metalic and PCB components are protected against corrosion

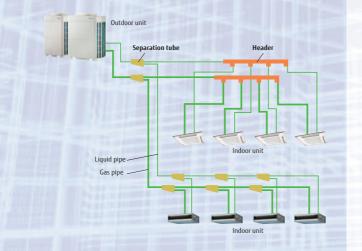






Large Office System configuration example

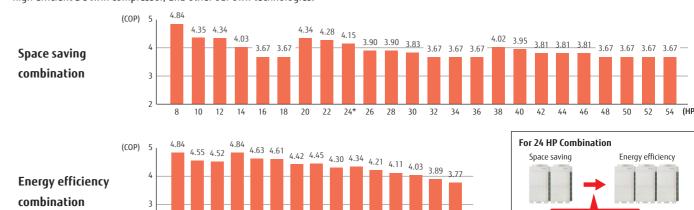
- This system is used for medium-sized and large buildings.
 Connecting each outdoor unit makes it possible to create a high-capacity system.
- Connection of multiple indoor units using separation tubes and



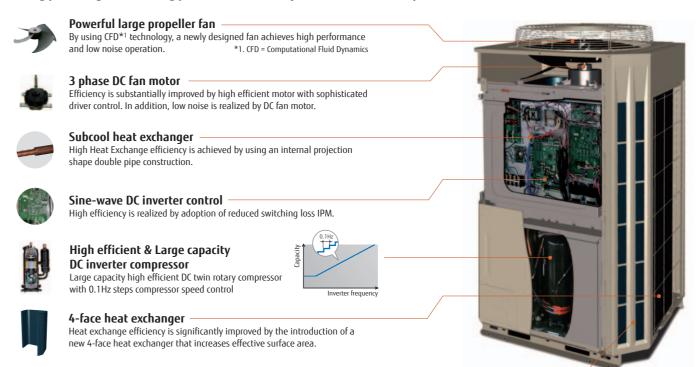
Features

Efficiency in actual operation

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



Energy saving technology that boosted operation efficiency

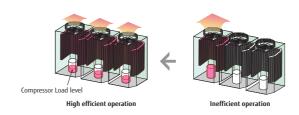


Advanced energy saving control

Multiple outdoor operation control

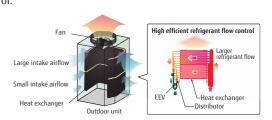
This control method operates all compressors at part load and distributes refrigerant to all heat exchangers to improve the overall system efficiency.

Front intake port (corner cut air inhaling structure)



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



• Combinations other than the followings are not recommended.





AJY072LNLBH UNIT: AJY072LNLBH

50.0 kW (18HP)



78.0 kW (28HP)



AJY252LNLBH UNIT: AJY162/090LNLBH



AJY342LNLBH UNIT: AJY162/090/090LNLBH



AJY432LNLBH UNIT: AJY144/144/144LNLBH



28.0kW (10HP)

AJY090LNLBH UNIT: AJY090LNLBH



AJY180LNLBH UNIT: AJY090/090LNLBH 85.0 kW (30HP)



UNIT: AJY144/126LNLBH 113.0 kW (40HP)



AJY360LNLBH UNIT : AIY144/126/090LNLBH 140.0 kW (50HP)

AJY450LNLBH UNIT: AJY162/144/144LNLBH



UNIT: AJY108LNLBH



AJY198LNLBH UNIT: AJY126/072LNLBH 90.0 kW (32HP)



118.0 kW (42HP)











UNIT: AJY126/090LNLBH 95.0 kW (34HP)









45.0kW (16HP)



AJY144LNLBH UNIT: AJY144LNLBH



AJY234LNLBH UNIT: AJY144/090LNLBH 100.0 kW (36HP)

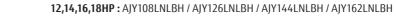


UNIT: AJY162/162LNLBH

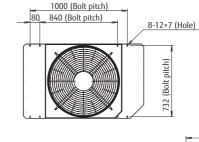


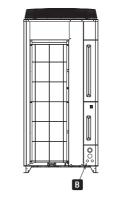
AJY414LNLBH UNIT · AIY162/162/0901 NI BH

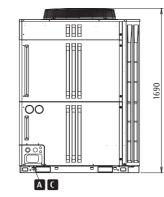


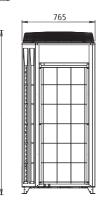


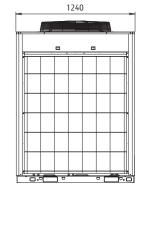
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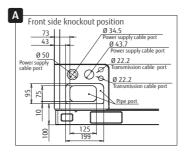


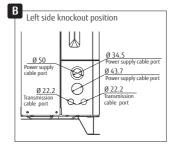


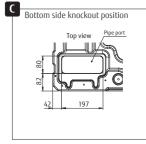








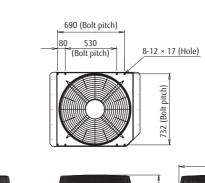


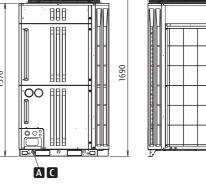


Energy efficiency combination



8,10HP: AJY072LNLBH / AJY090LNLBH





765



(Unit: mm)



Space Saving Combination

Note	Rating Capacit	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
Control Cont																												
Part	Model name				AJY072LNLBH	AJY090LNLBH	H AJY108LNLBH	AJY126LNLBH	AJY144LNLBH	AJY162LNLBH	AJY180LNLBH	AJY198LNLBH	AJY216LNLBH	AJY234LNLBH	AJY252LNLBH	AJY270LNLB	H AJY288LNLBH	AJY306LNLBH	AJY324LNLBH	AJY342LNLBH	AJY360LNLBH	AJY378LNLBH	AJY396LNLBH	AJY414LNLBH	AJY432LNLBH	AJY450LNLBH	AJY468LNLBH	AJY486LNLBH
Part	Unit 1															AIY144I NI R	AIY144I NI BH	AIY162I NI BH	AIY162I NI BH	AIY162I NI BH	AIY144I NI BH	AIY144I NI BH	AIY162I NI BH	AIY162I NI BH	AIY144I NI RH	AIY162I NI BH	AIY162I NI BH	AIY162LNLBH
Section Sect	Unit 2 Unit 3				.,	.,	.,													AJY090LNLBH	AJY126LNLBH	AJY144LNLBH	AJY144LNLBH	AJY162LNLBH	AJY144LNLBH	AJY144LNLBH	AJY162LNLBH	AJY162LNLBH AJY162LNLBH
Part		ectable Indoor	r Unit		13	16	19	23	26	29	33	36	40	43	46	50	53	55	55	55	55	55	55	55	55	55	55	
Complete	Indoor unit conn	ectable 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
Complete						·			2 .1	(00)											2	(001/	FOLL					
Part	Power source		Caaliaa		22./	20.0	22.5	/0.0				62.7	60.0	72.0	70.0	0.0	00.0	0.0	100.0	100.0				120.0	125.0	1/0.0	1/50	150.0
Configure Conf				kW																								
Part		Capacity		+		31.3	0.110	1010						0.110	0.110							10110						
Part				Btu/h																								511800
Part Heating Part Par			110011119			101000	12000												0200									49.68
Control Fig. Control Fig. Control Fig. Control Fig. Control Fig. Control Fig. Fig	T1	Input power	Heating	kW	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
Second Control Seco	condition		Cooling		9.2	12.0	15.0	17.7	20.7	26.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Column C		Current		Α Α	9.2	12.2	14.6	18.2	21.5	21.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Control Cont		EER	Cooling	NA//NA/	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
Column C		COP	Heating	VV/ VV	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
Correct Corr		EER	Cooling	Rtu/b/W	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
Capacity		COP	Heating				1.110	1011	1210		1110			1010	1010			1210	12.0	1011	1010			1010		1210		
The proof of the control of the co		Canacity																										
			_																									
Fig.	T3	- ' '	Cooling	_																								
ER Burk was factor Burk	condition	Current	- 1																									
West		EER									_																	
if for rate High m3/h 11,100 13,0	Dower factor																			9.50								
Solid Sol	Power ractor			70	90	92	92	92	92	93	-	-	-	-	-		-	-	-	-		-	-	-	-	-	-	-
	Air flow rate	1 140 /		m³/h	-				-												11,100					·		13,700×3
Secondary Pa Registration Pa Registration		level^2/		dB (A)																								
		rnal static proce		D ₂																								
Red exchanger First Fir	_		suie							+	_							_	_				_	_		_		
Height H				N.VV					- "																			
1100000000000000000000000000000000000	euc excitatige		Height	1																								1690×3
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Dimensions			mm																								1240×3
$\frac{1}{10000000000000000000000000000000000$			_	7												765×2												765×3
$\frac{1}{1} = \frac{1}{1} = \frac{1}$	Weight			kg		255	279		279	279			279+255	279+255	279+255	279×2			279×2	279+255×2	279×2+255	279×2+255	279×2+255	279×2+255	279×3	279×3		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		Type (Glo	obal Warming	Potential)) R410A (2,088)			R410A (2,088)						R410A (2,088									R410A (2,088)			R410A (2,088)
Officiation and the control pipe diameter Discharge Gas Min 22.22 22.22 28.58 28.5	Refrigerant	Ch	harge	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)					11.8×2 (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)
Officiation and the control pipe diameter Discharge Gas Min 22.22 22.22 28.58 28.5			Liquid		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
	Connection pip	e diameter	_	s mm						28.58		34.92		34.92	34.92	34.92			41.27		41.27			41.27				
	0	_	Cooling	• • • • • • • • • • • • • • • • • • • •	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
	operation rang	e			-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 Capaci	ity range		HP	16	18	20	24	26	28	30	32	34	36	38	40	42	44	46
Model name				AJY144LNLBHH	AJY162LNLBHH	AJY180LNLBHH	AJY216LNLBHH	AJY234LNLBHH	AJY252LNLBHH	AJY270LNLBHH	AJY288LNLBHH	AJY306LNLBHH	AJY324LNLBHH	AJY342LNLBHH	AJY360LNLBHH	AJY378LNLBHH	AJY396LNLBHH	AJY414LNLBHH
Unit 1				AJY072LNLBH	AJY090LNLBH	AJY108LNLBH	AJY072LNLBH	AJY090LNLBH	AJY108LNLBH	AJY126LNLBH	AJY108LNLBH	AJY126LNLBH	AJY108LNLBH	AJY126LNLBH	AJY126LNLBH	AJY126LNLBH	AJY144LNLBH	AJY144LNLBH
Unit 2				AJY072LNLBH	AJY072LNLBH	AJY072LNLBH	AJY072LNLBH		AJY072LNLBH	AJY072LNLBH		AJY108LNLBH	AJY108LNLBH	AJY108LNLBH	AJY126LNLBH	AJY126LNLBH	AJY126LNLBH	AJY144LNLBH
Unit 3							-	AJY072LNLBH	AJY072LNLBH	AJY072LNLBH	-	AJY072LNLBH		AJY108LNLBH	AJY108LNLBH	AJY126LNLBH	AJY126LNLBH	AJY126LNLBH
	nnectable Indoo		1100	26	29	33	39	43	46	50	52	55	55	55	55	55	55	55
Indoor unit con	inectable capacity	y Cooling	kW	22.4-58.2	25.2-65.5	28-72.6	33.6-87.3	36.4-94.6	39.2-101.7	42.4-110.2	44.7-116.2	48-124.6	50.3-130.6	53.5-139.1	56.8-147.5	60-156	62.5-162.5	65-169
Power source								3-pha	se 4 wire, 400 V	, 50Hz						3-phase 4 wir	e, 400 V, 50Hz	
		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
	Capacity	Heating	KVV	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
	capacity	Cooling	Btu/h	152800	171900	190700	229200	248300	267100	289300	305000	327200	342900	365100	387300	409500	426500	443500
		Heating		170600	192800	213300	255900	278100	298600	324100	341300	366800	384000	409500	435000	460500	477600	494700
T1	Input power	Cooling	kW	10.40 10.34	12.48 12.42	14.16	15.60 15.51	17.68 17.59	19.36 18.99	21.36 21.51	23.12	25.12 24.99	26.88 25.95	28.88 28.47	30.88 30.99	32.88 33.51	34.93 35.97	36.98 38.43
condition		Heating Cooling		10.34	12.42	13.82	13.31	17.59	10.99	- 21.51	22.47	24.99	25.95	- 20.4/	30.99	33.31	33.97	30.43
Condition	Current	Heating	A		-	-	-	-	-	-	-	-	-	-		-	-	
	EER	Cooling		4.31	4.04	3.95	4.31	4.12	4.04	3.97	3.87	3.82	3.74	3.70	3.68	3.65	3.58	3.52
	COP	Heating	W/W	4.84	4.55	4.52	4.84	4.63	4.61	4.42	4.45	4.30	4.34	4.21	4.11	4.03	3.89	3.77
	EER	Cooling	0. 4 0.0	14.7	13.8	13.5	14.7	14.0	13.8	13.5	13.2	13.0	12.8	12.6	12.5	12.5	12.2	12.0
	COP	Heating	Btu/h/W	16.5	15.5	15.4	16.5	15.8	15.7	15.1	15.2	14.7	14.8	14.4	14.0	13.7	13.3	12.9
	Canacibu		kW	40.4	45.4	48.7	60.6	65.6	68.9	72.4	77.2	80.7	85.5	89.0	92.5	96.0	99.1	102.2
	Capacity		Btu/h	137800	154900	166100	206700	223800	235000	247000	263300	275300	291600	303600	315600	327600	338200	348800
T3	Input power	Coolina	kW	13.47	15.93	16.08	20.20	22.66	22.81	24.17	25.42	26.78	28.03	29.39	30.75	32.11	33.22	34.34
condition	Current	Cooming	A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EER		W/W	3.00	2.85	3.03	3.00	2.89	3.02	3.00	3.04	3.01	3.05	3.03	3.01	2.99	2.98	2.98
D			Btu/h/W	10.23	9.72	10.33	10.23	9.87	10.30	10.22	10.36	10.28	10.40	10.33	10.26	10.20	10.18	10.16
Power factor Air flow rate		High	% m³/h	- 11,100×2	- 11,100×2	13,000+11,100	- 11,100×3	- 11,100×3	13,000+	13,000+	- 13,000×2+	- 13,000×2+	- 13,000×3	- 13,000×3	- 13,000×3	- 13,000×3		- 13,700×2+13,000
					·				11,100×2	11,100×2	11,100	11,100						<u> </u>
Sound pressu	re level*2 /	Cooling	dB (A)	59 / 80	60 / 81	60 / 81	61 / 82	62 / 83	61 / 82	63 / 84	61 / 82	63 / 84	62 / 83	63 / 84	64 / 85	65 / 88	66 / 87	66 / 87
Power level	Laranea	Heating	D.	61 / 83 82	62 / 84 82	62 / 85	63 / 85 82	63 / 85 82	64 / 86 82	65 / 87 82	64 / 87 82	65 / 88 82	65 / 88 82	66 / 88 82	66 / 88 82	67 / 89 82	68 / 90 82	68 / 90 82
Compressor m	ternal static pres	ssure	Pa kW	7.5×2	7.5×2	11.0+7.5	7.5×3	7.5×3	82 11.0+7.5×2	11.0+7.5×2	11.0×2+7.5	82 11.0×2+7.5	11.0×3	11.0×3	82 11.0×3	11.0×3	82 11.0×3	82 11.0×3
Heat exchang			KVV	Rlue 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
ileat excitaing	jei iiii	Height		1690×2	1690×2	1690×2	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3
Dimensions		Width	mm	930×2	930×2	1240+930	930×3	930×3	1240+930×2	1240+930×2	1240×2+930	1240×2+930	1240×3	1240×3	1240×3	1240×3	1240×3	1240×3
		Depth	1	765×2	765×2	765×2	765×3	765×3	765×3	765×3	765×3	765×3	765×3	765×3	765×3	765×3	765×3	765×3
Weight			kg	255×2	255×2	279+255	255×3	255×3	279+255×2	279+255×2	279×2+255	279×2+255	279×3	279×3	279×3	279×3	279×3	279×3
	Type (G	ilobal Warming Po	otential)	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)
Refrigerant	С	Tharge	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)
		Liquid		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
Connection pi	ipe diameter	Discharge Gas	mm	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27
Operation	200	Cooling	**	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
Operation ran	ige	Heating	,	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

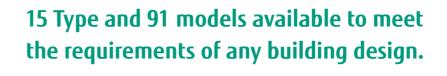
Note: Specifications are based on the following conditions.

Cooling(T1): Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB

Cooling(T3): Indoor temperature of 29°CDB / 19°CWB, and outdoor temperature of 46°CDB / 24°CWB

Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length: 7.5m. Height difference between outdoor and indoor unit: 0m.





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.

INDOOR UNITS LINE-UP

Compact Cassette (Grid type / Standard type)

4-way Flow Cassette

Circular Flow Cassette

Mini Duct

Slim Duct / Slim Concealed Floor

Medium Static Pressure Duct

High Static Pressure Duct

Large Airflow Duct

Compact Floor

Floor / Ceiling

Ceiling

Wall Mounted (EEV Internal / external)

AIRSTAGE INDOOR UNITS

INDOOR UNITS LINE-UP

Comprehensive range of indoor units of variety design and capacity ranges available which can be selected to suit any air conditioning needs. 15 types, 91 models, Capacity range from 1.1kW to 28.0kW

Indoor units range

Model code		4	7	9	12	14	18	24	30	34	36	45	54	60	72	90	96
Capacity range	(kW)	1.1	2.2	2.8	3.6	4.5	5.6	7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0	28.0
	NEW Compact Cassette Grid type / Standard type	AUXB04GBLH	AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH	AUXB18GALH	AUXB24GALH									
	(Slim type)						AUXD18GALH	AUXD24GALH									
Cassette	4-way Flow (Large type)						AUXA18GALH*3	AUXA24GALH*3	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH				
	(Slim type)						AUXM018GLAH	AUXM024GLAH	AUXM030GLAH								
	Circular Flow (Large type)						AUXK018GLAH	AUXK024GLAH	AUXK030GLAH	AUXK034GLAH	AUXK036GLAH	AUXK045GLAH	AUXK054GLAH				
	Mini Duct (With drain pump)	ARXK04GCLH	ARXK07GCLH	ARXK09GCLH	ARXK12GCLH	ARXK14GCLH	ARXK18GCLH	ARXK24GCLH	AOAROSOGEAIT	AUMOS-GEMI	AOAROJOGEAN	AUAROASIEANI	NONIOSTGENII				
	Slim Duct (With drain pump)	ARXD04GALH*3	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH	ARXD18GALH	ARXD24GALH									
	Medium Static Pressure Duct	ANADOTOALI	ANADOZGALII	ANADOSCIET	ANADIZUALII	ANDITUALI	AKADIOGALII	ARXA24GBLH	ARXA30GBLH		ARXA36GBLH	ARXA45GBLH					
Duct	High Static Pressure Duct							ANALAGEN	Allowing		ARXC36GBTH	ARXC45GATH		ARXC60GATH*1	ARXC72GBTH*1	ARXC90GBTH*1	ARXC96GATH*1
	(Compact type)						ARXN018GLBH*4	ARXN024GTBH*4	ARXN030GTBH*4		лихсэоцэн	AIAC43GAIII		AKACOOGATT	AKK72gbH	Aincoupiii	AKACSOATT
	(Large type)						ARXN18GATH*2	ARXN24GATH*2	ARXN30GATH*2	ARXN34GATH*2	ARXN36GATH*2	ARXN45GATH*2					
	Floor (Same as Ceiling models)				ABYA12GATH	ABYA14GATH	ABYA18GATH	ABYA24GATH									
Floor	Slim Concealed Floor (Same as Slim Duct models)	ARXD04GALH	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH	ARXD18GALH	ARXD24GALH									
riooi	Compact Floor	AGYA004GCAH	AGYA007GCAH	AGYA009GCAH	AGYA012GCAH	AGYA014GCAH											
	Compact Floor (EEV external)	AGYE004GCAH	AGYE007GCAH	AGYE009GCAH	AGYE012GCAH	AGYE014GCAH	With this model, connection of EV kit is necessary.										
Ceiling	Ceiling				ABYA12GATH	ABYA14GATH	ABYA18GATH	ABYA24GATH	ABYA30GATH		ABYA36GATH	ABYA45GATH	ABYA54GATH				
Wall Mounted	Wall Mounted	ASYA004GTAH	ASYA007GTAH	ASYA009GTAH	ASYA012GCAH	ASYA014GCAH	ASYA18GBCH	ASYA24GBCH	ASYA030GTAH	ASYA034GTAH							
wan Mounted	Wall Mounted (EEV external)	ASYE004GTAH	ASYE007GTAH	ASYE009GTAH	ASYE012GCAH	ASYE014GCAH	With this model, connection of EV kit is necessary.										

^{*1:} ARXC60/72/90/96G cannot be connected to J-IIS series and J-III series.
*2: Large Airflow Duct (Large type) can be connected to V-III series only.
*3: ARXD04GALH and AUXA18/24GALH can not be connected to J-IIIL series.
*4: Large Airflow Duct (Compact type) can be connected to J-IIIL series only.

Compact Cassette (Grid type)

Models

AUXB04GBLH NEW AUXB07GALH NEW AUXB09GALH NEW **AUXB12GALH NEW AUXB14GALH NEW** AUXB18GALH NEW AUXB24GALH NEW

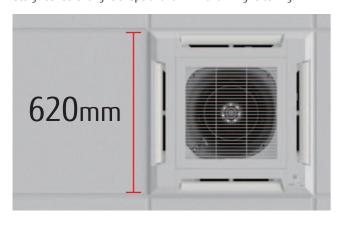




Feature

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 $620\text{mm} \times 620\text{mm}$ grid ceiling.

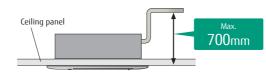


Flexible installation

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.



Flexible installation



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.







High ceiling mode

The compact cassette can be installed up to a height of 3.0m (12/14/18/24).

Model code	The maximum height f	rom floor to ceiling (m)
Model code	Standard mode	High ceiling mode
04	2.7	-
07	2.7	-
09	2.7	-
12	2.7	3.0
14	2.7	3.0
18	2.7	3.0
24	2.7	3.0

Optional parts

Air Outlet Shutter Plate: UTR-YDZB Flesh Air Intake Kit: UTZ-VXAA Insulation Kit for High Humidity: UTZ-KXGC

Casette Grille: UTG-UFYC-W, UTG-UFYE-W



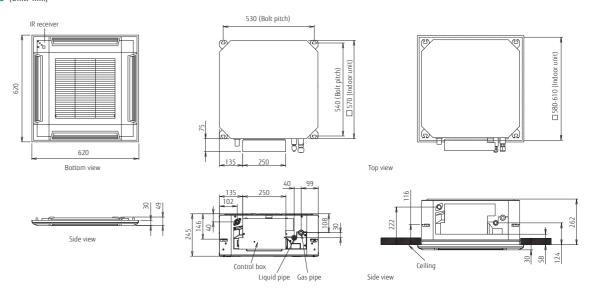
Specifications

Model name			AUXB04GBLH	AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH	AUXB18GALH	AUXB24GALH
Power source					Sii	ngle - phase, ~230V, 50	Hz		
·	Cooling	1,,,,	1.1	2.2	2.8	3.6	4.5	5.6	7.1
Capacity	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
	High		530	540	550	600	680	710	1,030
Airflow rate	Med	m³/h	420 / 450*1	450	450	530	590	580	830
	Low		300 / 350*1	350	350	390	390	400	450
	High		34	34	35	37	38	41	50
Sound pressure level	Med	dB (A)	28 / 30*1	30	30	34	34	35	44
icvei	Low	(//)	21 / 25*1	25	25	27	27	27	30
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 × 57
Weight		kg	15	15	15	15	15	17	17
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	9.52	9.52
pipe diameter	Gas (Flare)	mm	9.52	12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diam	eter (I.D./O.D.)					25 / 32			
	Model na	me			U.	rg-ufye-w / utg-ufyc	-W		
Cassette Grille	Dimensions (H×W×D)	mm			49 ×	620 × 620 / 49 × 700 ×	700		
	Weight	kg				2.3 / 2.6			
Note : Specificat	ions are based o	n the fol	lowing conditions.		*1:	This value is under coo	ling operation.		

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].

Dimensions (Unit: mm)



4-way Flow Cassette

Models (Slim type) AUXD18GALH AUXA18GALH

Models (Large type) AUXD24GALH AUXA24GALH **AUXA30GALH AUXA34GALH**

AUXA36GALH

AUXA45GALH

AUXA54GALH

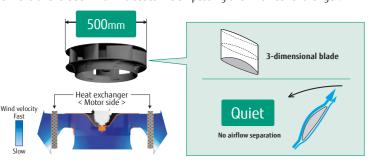


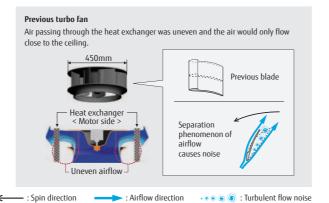


Feature

High efficiency turbo fan with 3-dimensional blade

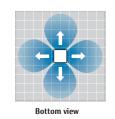
High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.

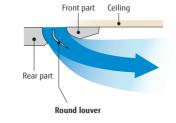


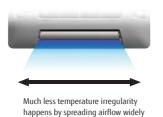


Improvement of the airflow distribution

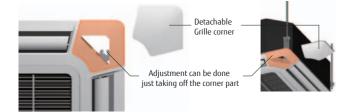
The louver design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.







Adjustment of hanger position is possible after installation

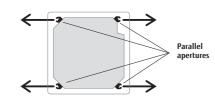


High ceiling mode

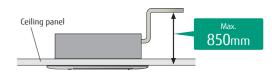
This cassette can be installed up to a height of 4.2m (36/45/54).

Model code	The maximum height	from floor to ceiling (m)
nodel code	Standard mode	High ceiling mode
18	3.0	3.5
24	3.0	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

One way installation



High lift drain pump



Optional parts

IR Receiver Unit: UTY-LRHYB1 UTR-YDZK Air Outlet Shutter Plate: Panel Spacer: UTG-BKXA-W Insulation Kit for High Humidity: UTZ-KXRA Wide Panel: UTG-AKXA-W Fresh Air Intake Kit: UTZ-VXRA

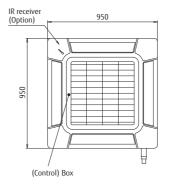
Specifications

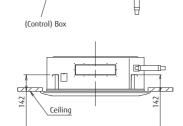
Model name			AUXD18GALH	AUXD24GALH	AUXA18GALH	AUXA24GALH	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH
Power source						Singl	e - phase, ~230V,	50Hz			
	Cooling	kW	5.6	7.1	5.6	7.1	9.0	10.0	11.2	12.5	14.0
Capacity	Heating	KVV	6.3	8.0	6.3	8.0	10.0	11.2	12.5	14.0	16.0
Input power		W	39	46	51	51	59	77	80	99	119
	High		1,150	1,280	1,420	1,420	1,600	1,750	1,800	1,900	2,000
Airflow rate	Med	m³/h	940	1,040	1,230	1,230	1,300	1,300	1,300	1,370	1,370
	Low		870	870	1,100 / 1,000*1	1,100 / 1,000*1	1,100	1,100	1,100	1,100	1,100
	High		36	38	40	40	40	43	44	46	47
Sound pressure level	Med	dB (A)	30	33	36	36	38	38	38	39	39
icvei	Low	(//)	29	29	33 / 31*1	33 / 31*1	33	33	33	33	33
Dimensions (H ×	W × D)	mm	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
Weight		kg	22	22	27	27	27	27	27	27	27
Connection	Liquid (Flare)		9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52
pipe diameter	Gas (Flare)	mm	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05
Drain hose diam	eter (I.D./O.D.)						25 / 32				
	Model nar	me					UTG-UGYA-W				
pipe diameter (Dimensions (H×W×D)	mm					50 × 950 × 950				
	Weight	kg					5.5				

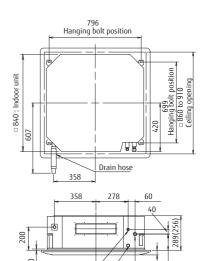
Note: Specifications are based on the following conditions.

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].

Dimensions (Unit:mm) (): AUXD18 / AUXD24







^{*1:} This value is under cooling operation.

Circular Flow Cassette

Models (Slim type) **AUXM18GLAH AUXM24GLAH AUXM30GLAH** Models (Large type) **AUXK18GLAH AUXK24GLAH AUXK30GLAH AUXK34GLAH AUXK36GLAH AUXK45GLAH**

AUXK54GLAH





(Large type)



Feature

Unique Circular Flow design

New Cassette type realizes Circular Flow to blow large airflow in 360° direction by mounting 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-RNRYZ2) only



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



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-RNRYZ2) only



2 modes can be selected Auto saving Power is saved while people are away. Auto OFF

Operation stops after

people go out.

Optional parts

Human Sensor Kit: UTY-SHZXC UTG-AKXA-W Wide Panel: Panel Spacer: UTG-BKXA-W Fresh Air Intake Kit: UTZ-VXRA Air Outlet Shutter Plate: UTR-YDZK Insulation Kit for High Humidity: UTZ-KXRA UTG-UKYC-W, UTG-UKYA-B Casette Grille:



Specifications

Model name			AUXM018GLAH	AUXM024GLAH	AUXM030GLAH	AUXK018GLAH	AUXK024GLAH	AUXK030GLAH	AUXK034GLAH	AUXK036GLAH	AUXK045GLAH	AUXK054GLAH
Power source							Single - phase	e, ~230V, 50Hz		•	•	•
Canacity	Cooling	kW	5.6	7.1	9.0	5.6	7.1	9.0	10.0	11.2	12.5	14.0
Capacity	Heating	KVV	6.3	8.0	10.0	6.3	8.0	10.0	11.2	12.5	14.0	16.0
Input power		W	20	25	49	40	40	47	47	61	89	116
	High		1,050	1,120	1,470	1,420	1,420	1,440	1,440	1,620	1,820	2,040
	Med-Hi		930	1,050	1,160	1,360	1,360	1,440	1,440	1,500	1,590	1,800
Airflow rate	Med	m³/h	900	930	1,070	1,300	1,300	1,340	1,340	1,400	1,500	1,590
Allilowiate	Lo-Hi	1112/11	870	900	930	1,270	1,270	1,300	1,300	1,340	1,400	1,440
	Low		810	870	900	1,200	1,200	1,280	1,280	1,280	1,300	1,300
	Quiet		780	780	780	1,150	1,150	1,150	1,150	1,150	1,150	1,150
	High		33	35	40	38	38	39	39	41	44	47
	Med-Hi		32	33	36	37	37	38	38	40	42	45
Sound pressure	Med	dB	31	32	34	36	36	37	37	38	40	42
level .	Lo-Hi	(A)	30	31	32	35	35	36	36	37	38	39
	Low		29	30	31	34	34	35	35	36	36	36
	Quiet		28	28	28	33	33	33	33	33	33	33
Dimensions (H ×	W × D)	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
Weight		kg	24.0	24.5	24.5	26.5	26.5	29.5	29.5	29.5	29.5	29.5
Connection	Liquid (Flare)		6.35	9.52	9.52	6.35	9.52	9.52	9.52	9.52	9.52	9.52
pipe diameter	Gas (Flare)	mm	12.70	15.88	15.88	12.70	15.88	15.88	15.88	15.88	15.88	15.88
Drain hose diame	eter (I.D./O.D.)						25	/ 32				
	Model nar	ne					UTG-UKYC-W	/ UTG-UKYA-B				
Dimensions (H × Weight Connection pipe diameter	Dimensions (H×W×D)	mm					53×95	0×950				
	Weight	kg					6	.0				

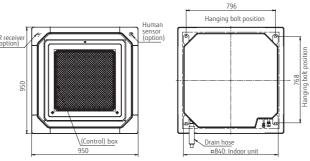
Note: Specifications are based on the following conditions.

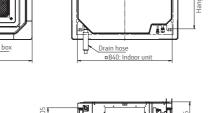
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V]. When AUX*018GLAH is connected to the outdoor unit other than J-IIIL, pipe diameter should

When AUXK036GLAH, AUXK045GLAH, and AUXK054GLAH are connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø19.05.

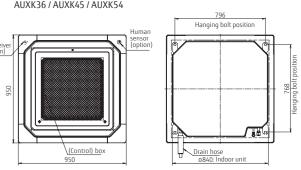
Dimensions (Unit: mm)

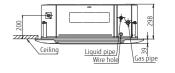
Models: AUXM18 / AUXM24 / AUXM30





Models: AUXK18 / AUXK24 / AUXK30 / AUXK34 AUXK36 / AUXK45 / AUXK54





Mini Duct

Models (With drain pump)

ARXK04GCLH

ARXK07GCLH ARXK09GCLH

ARXK12GCLH

ARXK14GCLH

ARXK18GCLH

ARXK24GCLH











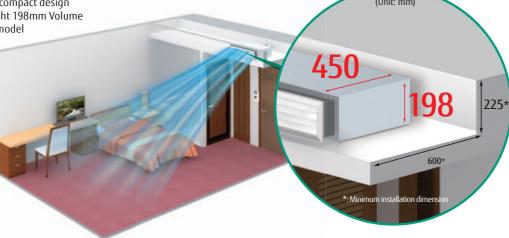
Feature

Large living space available

• Installation space can be reduced down to minimum depth 450mm height 198 mm and compact design

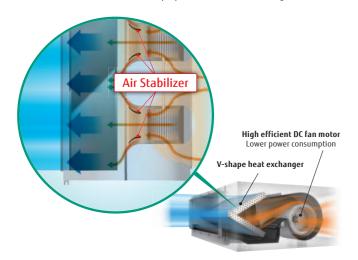
• Minimum size: Depth 450mm, Height 198mm Volume 30% down compared with current model

• Lightweight: 16kg 10%down



Optimum airflow path and low noise operation

Low noise is realized drastically by stabilized airflow design



Easy design and maintenance for drain

By using the DC fan motor, it is possible to change the static pressure range from 0 to 50 Pa*.

The change of static pressure range is possible by remote controller. *: 0 to 30 Pa. (12)

Built-in drain pump as standard:

Maintenance is easy



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

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-RNRY22 / UTY-RLRY / UTY-RSRY / UTY-RHRY / UTY-DCGY / UTY-DTGYZ1 / UTY-ALGXZ1 / UTY-APGXZ1

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)



Optional parts

Remote Sensor Unit: UTY-XSZX UTB-YWC IR Receiver Unit:

Auto Louver Grille Kit: UTD-GXTA-W (for ARXK04/07/09/12/14GCLH)

UTD-GXTB-W (for ARXK18GCLH) UTD-GXTC-W (for ARXK24GCLH)

Specifications

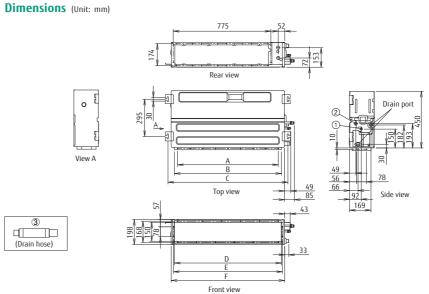
Model name			ARXK04GCLH	ARXK07GCLH	ARXK09GCLH	ARXK12GCLH	ARXK14GCLH	ARXK18GCLH	ARXK24GCLH
Power source					Sir	ngle - phase, ~230V, 50	Hz		
Canacitu	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
Capacity	Heating	KVV	1.3	2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	26	28	28	35	66	73	80
	High		460	460	460	550	760	930	1,160
	Med-H		440	-	-	-	-	-	-
Airflow rate	Med	m³/h	420	420	420	480	560	740	960
Allilow late	Med-L	1112/11	400	-	-	-	-	-	-
	Low		370	370	370	410	410	540	750
	Quiet		340	-	-	-	-	-	-
Static pressure ra	ange	Pa	0 to 30	0 to 30	0 to 30	0 to 30	0 to 50	0 to 50	0 to 50
Standard static p	ressure	Pd	10	10	10	10	15	15	15
	High		25	26	26	29	34	33	32
	Med-H		24	25	25	27	31	30	30
Sound pressure	Med	dB	23	24	24	26	28	28	28
level	Med-L	(A)	22	23	23	25	26	26	27
	Low		21	22	22	24	24	24	25
	Quiet		20	21	21	22	22	22	22
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	14.5	15.5	15.5	16	16	19	22.5
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	9.52	9.52
pipe diameter	Gas (Flare)	mm	9.52	12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diam	eter (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 Refrigerant pipe flare connection (Liquid)
- ② Refrigerant pipe flare connection (Gas)
- 3 Drain hose connection

	ARXK04-14	ARXK18	ARXK24
Α	P100×6=600	P100×8=800	P100×10=1000
В	650	850	1050
C	752	952	1152
D	650	850	1050
Е	665	864	1064
F	700	900	1100

Slim Duct / Slim Concealed Floor

Models (With drain pump)

ARXD04GALH

ARXD07GALH

ARXD09GALH

ARXD12GALH

ARXD14GALH

ARXD18GALH

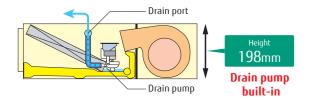
ARXD24GALH



Feature

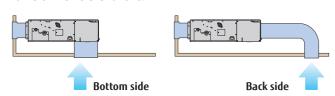
Slim design

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



Air-intake

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



Flexible installation

Ceiling concealed









ARXD04 ARXD07 ARXD09 ARXD12 ARXD14 ARXD18 ARXD24

Slim Concealed Floor





Selectable with a wide range of static pressure

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

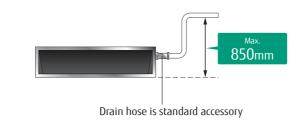


Static pressure range

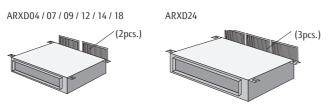
0 to 90 Pa

*24 model is 0 to 50Pa

High lift drain pump

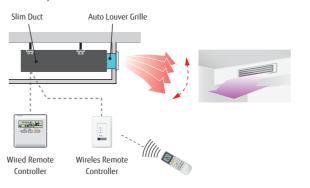


Filter (Accessory)



Auto Louver Grille Kit (Option)

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



Optional parts

Remote Sensor Unit: UTY-XSZX IR Receiver Unit: UTB-YWC

Auto Louver Grille Kit: UTD-GXTA-W (for ARXD04/07/09/12/14GALH)

UTD-GXTB-W (for ARXD18GALH) UTD-GXTC-W (for ARXD24GALH)

Specifications

Model name			ARXD04GALH	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH	ARXD18GALH	ARXD24GALH		
Power source			Single - phase, ~230V, 50Hz								
Consider	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1		
Capacity	Heating	KW	1.3	2.8	3.2	4.0	5.0	6.3	8.0		
Input power		W	38	44	50	54	92	83	122		
	High		510	550	600	600	800	940	1,330		
Airflow rate	Med	m³/h	400 / 470*1	490	550	510	710	840	1,240		
	Low]	320 / 440*1	440	480	450	610	750	1,100		
Static pressure range		D-	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 50		
Standard static p	ressure	Pa	25	25	25	25	25	25	25		
	High		26	28	29	30	34	34	35		
Sound pressure level	Med	dB (A)	21 / 25*1	25	26	27	32	32	32		
icvei	Low	(//)	20 / 22*1	22	24	24	28	28	29		
Dimensions (H ×	W × D)	mm	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 900 × 620	198 × 1,100 × 620		
Weight		kg	17	17	17	18	18	22	26		
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	9.52	9.52		
pipe diameter	Gas (Flare)	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88		
Drain hose diam	eter (I.D./O.D.)					25 / 32					

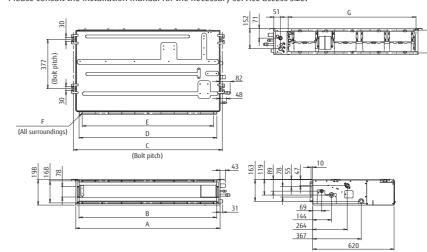
Note: Specifications are based on the following conditions.

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].

Dimensions (Unit: mm)

*Service accessibility must be allowed for when installing the product.

Please consult the installation manual for the necessary service access size.



	ARXD04-14	ARXD18	ARXD24
Α	700	900	1100
В	650	850	1050
С	734	934	1134
D	650	850	1050
Е	P100x6=600	P100x8=800	P100x10=1000
F	18xØ5	22xØ5	26xØ5
G	574	774	974

^{*1:} This value is under cooling operation.

Medium Static Pressure Duct

Models

ARXA24GBLH ARXA30GBLH ARXA36GBLH ARXA45GBLH

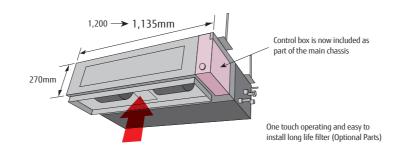




Feature

Slim & Compact design

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



Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.





30 / 36 / 45 model

Can be installed for various location

It can be installed in such locations as high-rise condominiums by low static pressure design.

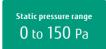


It can also be installed in wide spade when high static pressure is required, such as for offices.



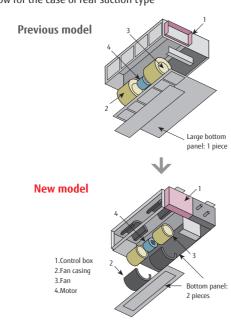
Selectable with a wide range of static pressure

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



Easy maintenance

See below for the case of rear suction type



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.

Two-direction drain piping



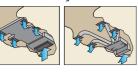
Easy setting by using remote controller

The change of static pressure range is possible by remote controller

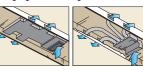


Installation styles

Embedded in Ceiling



Hanging from Ceiling



Optional parts

Remote Sensor Unit: UTY-XSZX Long Life Filter: UTD-LF25NA Flange (Square) : UTD-SF045T

Flange (Round): UTD-RF204 IR Receiver Unit: UTB-YWC Drain Pump Unit: UTZ-PX1NBA

95

Specifications

Model name			ARXA24GBLH	ARXA30GBLH	ARXA36GBLH	ARXA45GBLH				
Power source			·	Single - phase, ~230V, 50Hz						
Cooling		kW	7.1	9.0	11.2	12.5				
Capacity	Heating	KVV	8.0	10.0	12.5	14.0				
Input power	•	W	94	108	194	240				
	High		1,280	1,410	1,840	1,970				
Airflow rate	Med	m³/h	990	1,280	1,600	1,860				
Low			840 1,150		1,470	1,640				
Static pressure range		Do.	0 to 150	0 to 150	0 to 150	0 to 150				
Standard static p	ressure	Pa	40	50	50	60				
	High		31	34	37	41				
Sound pressure level	Med	dB (A)	27	32	35	38				
icvei	Low	(,,	23	29	33	36				
Dimensions (H ×	W × D)	mm	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700				
Weight		kg	36	40	40	40				
Connection	onnection Liquid (Flare)		9.52	9.52	9.52	9.52				
pipe diameter Gas (Flare)		mm	15.88	15.88	19.05	19.05				
Drain hose diam	eter (I.D./O.D.)		·	25	/32					

Note: Specifications are based on the following conditions.

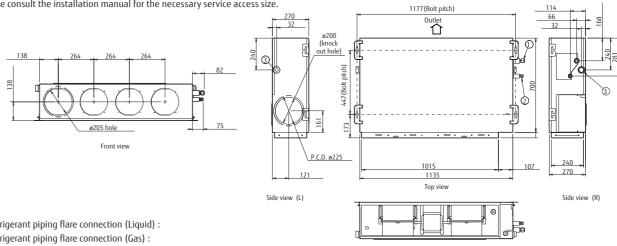
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].

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)

High Static Pressure Duct

Models ARXC36GBTH ARXC45GATH

ARXC60GATH

Models

Models ARXC96GATH

ARXC72GBTH ARXC90GBTH





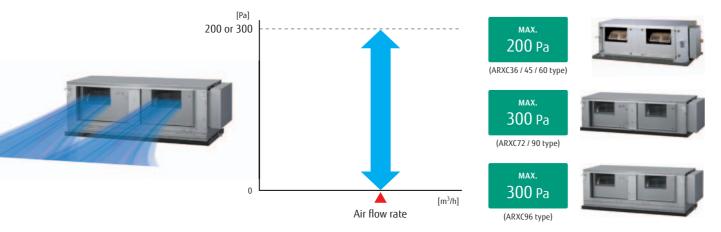
ARXC72 ARXC90



Feature

Static pressure selection

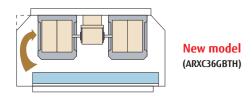
By using DC fan motor, it is possible to change static pressure range from 0 to 200Pa (ARXC36) / 300Pa (ARXC72 / 90 / 96).



Low noise

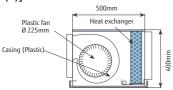
Models: ARXC36 / ARXC45 / ARXC60

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.



ARXC36GBTH: Plastic fan [42dB(A)]

* Model : Material (At 100Pa: Actual noise measurement value)



Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.





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.







Optional parts

UTD-LF60KA (For ARXC36 / 45 / 60) Long-Life Filter:

UTB-YWC IR Receiver Unit: Remote Sensor Unit: UTY-XSZX

Specifications

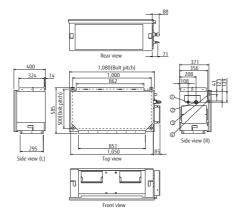
Model name			ARXC36GBTH	ARXC45GATH	ARXC60GATH*	ARXC72GBTH*	ARXC90GBTH*	ARXC96GATH*
Power source					Single - phase	e, ~230V, 50Hz		
C	Cooling	LAM	11.2	12.5	18.0	22.4	25.0	28.0
Capacity	Heating	kW	12.5	14.0	20.0	25.0	28.0	31.5
Input power		W	207	715	730	681	819	838
	High		1,990	3,500	3,500	3,900	4,300	4,850
Airflow rate	Med	m³/h	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 ra	ange		0 to 200	100 to 250	100 to 250	0 to 300	0 to 300	0 to 300
Standard static p	ressure	Pa	100	100	100	150	150	150
	High		42	49	49	47	48	48
Sound pressure level	Med	dB (A)	36	45	45	43	46	45
icvei	Low	(//)	32	42	42	40	44	42
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	40	46	46	84	84	105
Connection	Liquid		9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	12.70 (Brazing)	12.70 (Brazing)	12.70 (Brazing)
pipe diameter	Gas	mm	19.05 (Flare)	19.05 (Flare)	19.05 (Flare)	22.22 (Brazing)	22.22 (Brazing)	22.22 (Brazing)
Drain hose diam	eter (I.D./O.D.)				25	/ 32		*

Note: Specifications are based on the following conditions.

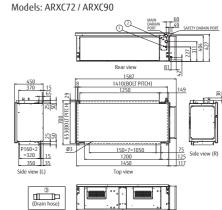
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V]. *: ARXC60/72/90/96G cannot be connected to J-III series.

Dimensions (Unit: mm)

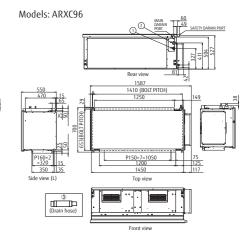
Models: ARXC36 / ARXC45 / ARXC60



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



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



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

Large Airflow Duct (Compact type)

Models

Models

ARXN018GLBH

ARXN024GTBH ARXN030GTBH







Feature

Large airflow volume

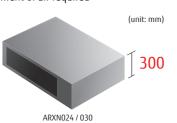
It can be installed in places such as early replacement of air required by large airflow volume.



Slim & Compact design

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 install in a quiet location.











Specifications

Model name			ARXN018GLBH	ARXN024GTBH	ARXN030GTBH				
Power source			Single - phase, ~230V, 50Hz						
Canacitu	Cooling	kW	5.6	7.1	9.0				
Capacity	Heating	KVV	6.3	8.0	10.0				
Input power		W	173	180	273				
	High		1,720	2,100	2,700				
	Med-H	Ι Γ	-	2,050	2,390				
Airflow rate	Med	m³/h	1,470	1,860	2,080				
Allilow rate	Med-L	1112/11	-	1,660	1,770				
	Low	1 [1,360	1,470	1,470				
	Quiet	1 [=	1,260	1,260				
Static pressure range		Pa -	0 to 80	0 to 100	0 to 100				
Standard static p	ressure	Pa	50	50	50				
	High		36	37	41				
	Med-H	Ι Γ	-	35	38				
Sound pressure	Med	dB	33	33	34				
level .	Med-L	(A)	-	31	31				
	Low		30	28	28				
	Quiet	Ι Γ	-	26	26				
Dimensions (H ×	W × D)	mm	270 × 1,135 × 700	300 × 1,400 × 700	300 × 1,400 × 700				
Weight		kg	40	48	48				
Connection	Liquid (Flare)		6.35	9.52	9.52				
pipe diameter	Gas (Flare)	mm	12.70	15.88	15.88				
Drain hose diam	eter (I.D./O.D.)	[25 / 32					

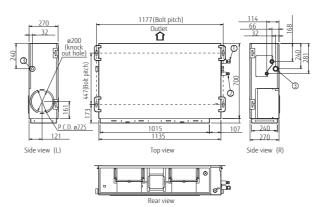
Note: Specifications are based on the following conditions.

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.

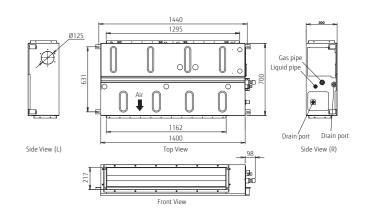
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].

Dimensions (Unit: mm)

Models: ARXN018



Models: ARXN024 / ARXN030



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

Large Airflow Duct (Large type)

Models

ARXN18GATH ARXN24GATH ARXN30GATH ARXN34GATH ARXN36GATH ARXN45GATH

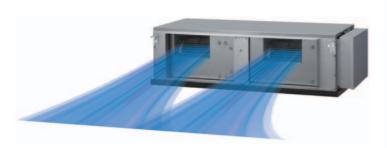




Feature

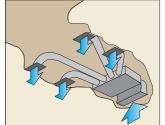
Large airflow volume

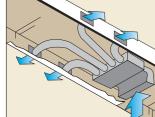
It can be installed in places such as early replacement of air required by large airflow volume.





Installation styles





Selectable with a wide range of static pressure



50 to 250 Pa

50 to 300 Pa (36 / 45class)

(30 / 34class)

Optional parts

Remote Sensor Unit: UTY-XSZX



Specifications

Model name			ARXN18GATH	ARXN24GATH	ARXN30GATH	ARXN34GATH	ARXN36GATH	ARXN45GATH				
Power source				Single - phase, ~230V, 50Hz								
Cib.	Cooling	kW	5.6	7.1	9.0	10.0	11.2	12.5				
Capacity	Heating	KVV	6.3	8.0	10.0	11.2	12.5	14.0				
Input power		W	154	205	306	432	572	572				
	High		2,280	2,640	3,200	3,720	4,120	4,120				
Airflow rate	Med	m³/h	-	-	-	-	-	-				
	Low		-	-	-	-	-	-				
Static pressure range		_	50 to 100	50 to 150	50 to 250	50 to 250	50 to 300	50 to 300				
Standard static p	oressure	Pa	50	50	50	50	60	60				
	High		35	37	40	43	45	45				
Sound pressure level	Med	dB (A)	-	-	-	-	-	-				
icvei	Low	(//)	-	-	-	-	-	-				
Dimensions (H ×	W × D)	mm	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700				
Weight		kg	84	84	84	84	84	84				
Connection	Liquid (Flare)		9.52	9.52	9.52	9.52	9.52	9.52				
pipe diameter Gas (Flare)		mm	15.88	15.88	15.88	15.88	19.05	19.05				
Drain hose diam	eter (I.D./O.D.)				25	/ 32						

Note: Specifications are based on the following conditions.

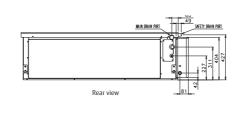
Cooling: Indoor temperature of 27*CDB / 19*CWB, and outdoor temperature of 35*CDB / 24*CWB.

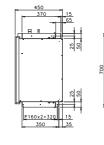
Heating: Indoor temperature of 20*CDB / (15*CWB), and outdoor temperature of 7*CDB / 6*CWB.

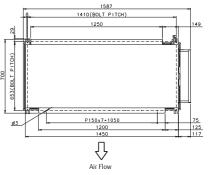
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].

Large Airflow Duct can be connected to V-III series only.

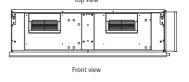
Dimensions (Unit: mm)











Compact floor

Models (EEV internal)
AGYA004GCAH
AGYA007GCAH
AGYA009GCAH
AGYA009GCAH
AGYE009GCAH

AGYE012GCAH

AGYE014GCAH





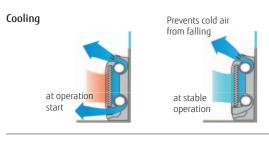
AGYA012GCAH

AGYA014GCAH

Feature

2-Fan & Wide airflow

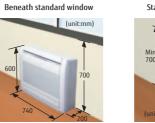
Individual vertical airflow by 2-fan can control the whole room comfortably.

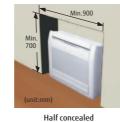


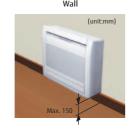
Heating Window
Prevents cold draft from window
at stable

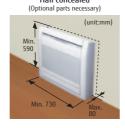
Flexible & easy installation

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)





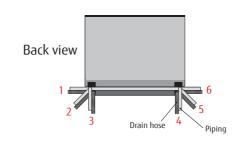




^{*} Compatible Remote Controller is as follows: UTY-RNRY22 / UTY-RLRY / UTY-RSRY / UTY-RHRY / UTY-DCGY / UTY-DTGYZ1 / UTY-ALGXZ1 / UTY-APGXZ1

Flexible piping connection 6 direction of drain & piping

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





Specifications

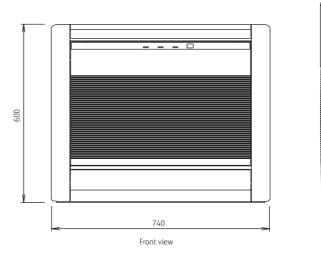
Model name			AGYA004GCAH	AGYA007GCAH	AGYA009GCAH	AGYA012GCAH	AGYA014GCAH	AGYE004GCAH	AGYE007GCAH	AGYE009GCAH	AGYE012GCAH	AGYE014GCAH
Power source							Single - phase	e, ~230V, 50Hz	•			
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.0	1.1	2.2	2.8	3.6	4.0
Capacity	Heating	KVV	1.3	2.8	3.2	4.0	4.5	1.3	2.8	3.2	4.0	4.5
Input power		W	12 / 14	16	17	22	29	12 / 14	16	17	22	29
	High		380 / 430	470	500	590	670	380 / 430	470	500	590	670
	Med-H		350	420	450	520	590	350	420	450	520	590
Airflow rate	Med	m³/h	320	390	400	470	520	320	390	400	470	520
Allilow late	Med-L	1112/11	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
	High		35 / 36	37	38	42	46	35 / 36	37	38	42	46
	Med-H		33	35	36	39	42	33	35	36	39	42
Sound pressure	Med	dB	31	33	34	37	39	31	33	34	37	39
level	Med-L	(A)	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
Dimensions (H ×	W × D)	mm	600×740×200	600×740×200	600×740×200	600×740×200	600×740×200	600×740×200	600×740×200	600×740×200	600×740×200	600×740×200
Weight		kg	15	15	15	15	15	14.5	14.5	14.5	14.5	14.5
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
pipe diameter	Gas (Flare)	mm	9.52	9.52	9.52	12.70	12.70	9.52	9.52	9.5	12.70	12.70
Drain hose diameter (I.D./O.D.)							13.8 / 15	.8 to 16.7				
EV Kit (option)			-	-	-	-	-	UTR-EV09XB	UTR-EV09XB	UTR-EV09XB	UTR-EV14XB	UTR-EV14XB

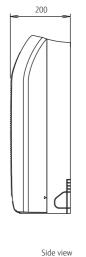
Note : Specifications are based on the following conditions.

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

When AGY*004GCAH, AGY*007GCAH, and AGY*009GCAH are connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø12.70.

Dimensions (Unit: mm)





Floor / Ceiling

Models

ABYA12GATH **ABYA14GATH ABYA18GATH** ABYA24GATH







Feature

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.

RIGHT and LEFT SWING



UP and DOWN SWING



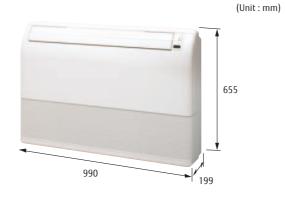
High power DC fan motor

- High power
- Wide rotation range
- High efficiency



Compact design

Symmetrical, slim and compact design.



Auto-closing louvre

When operation is stopped, the louvres will automatically close. (This function is available on all non-ducted models.)

Super vane

Double Louvre Super vane with newly developed special configuration boosts airflow sending cool air quickly to every corner

Specifications

Model name			ABYA12GATH	ABYA14GATH	ABYA18GATH	ABYA24GATH			
Power source			Single - phase, ~230V, 50Hz						
C	Cooling	Law	3.6	4.5	5.6	7.1			
Capacity	Heating	kW	4.0	5.0	6.3	8.0			
Input power		W	30	42	74	99			
	High		660	780	1,000	1,000			
Airflow rate	Med	m3/h	570	640	720	820			
	Low		490	550	580	680			
_	High		36	40	46	47			
Sound pressure level	Med	dB (A)	32	36	39	42			
icvei	Low	(//)	28	34	35	37			
Dimensions (H ×	W × D)	mm	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655			
Weight		kg	25	26	26	27			
Connection	Liquid (Flare)		6.35	6.35	9.52	9.52			
pipe diameter	Gas (Flare)	mm	12.70	12.70	15.88	15.88			
Drain hose diameter (I.D./O.D.)		ı		25	1/32				

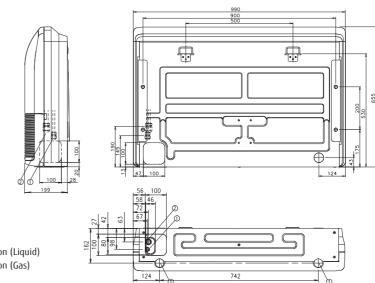
Note: Specifications are based on the following conditions.

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].

Dimensions (Unit: mm)



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

Ceiling

Models

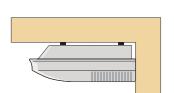
ABYA30GATH ABYA36GATH ABYA45GATH **ABYA54GATH**



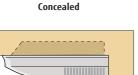


Feature

Installation



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



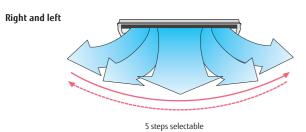
Installation pattern where part of the indoor unit is embedded into the ceiling.

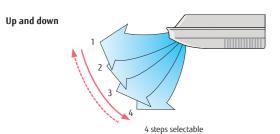
(Field Supplied)

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

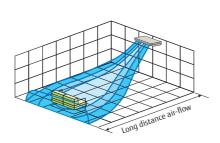
Auto airflow direction and auto swing





Long airflow

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

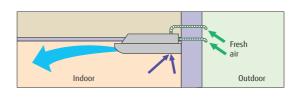


High power DC fan motor

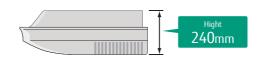
• High power • Wide rotation range • High efficiency



Fresh air intake

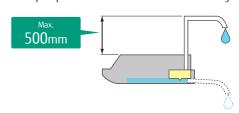


Slim & Compact design



High lift drain pump

Optional drain pump unit allows flexible installation design.



Optional parts

Drain Pump Unit: UTR-DPB24T UTD-RF204 Flange:

Specifications

Model name			ABYA30GATH	ABYA36GATH	ABYA45GATH	ABYA54GATH			
Power source			Single - phase, ~230V, 50Hz						
C	Cooling	kW	9.0	11.2	12.5	14.0			
Capacity	Heating	KVV	10.0	12.5	14.0	16.0			
Input power		W	66	85	131	180			
	High		1,630	1,690	2,010	2,270			
Airflow rate	Med	m³/h	1,370	1,400	1,600	1,780			
	Low		1,140	1,170	1,230	1,280			
	High		42	45	48	51			
Sound pressure level	Med	dB (A)	38	38	42	45			
icvei	Low	(71)	33	34	35	36			
Dimensions (H ×	W × D)	mm	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700			
Weight		kg	46	48	48	48			
Connection	Liquid (Flare)		9.52	9.52	9.52	9.52			
pipe diameter	Gas (Flare)	mm	15.88	19.05	19.05	19.05			
Drain hose diameter (I.D./O.D.)				25	/ 32				

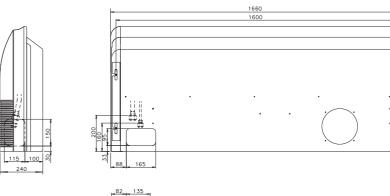
Note: Specifications are based on the following conditions.

Cooling: Indoor temperature of 27*CDB / 19*CWB, and outdoor temperature of 35*CDB / 24*CWB.

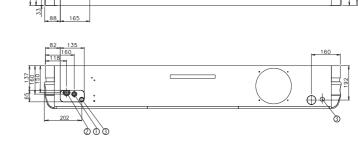
Heating: Indoor temperature of 20*CDB / (15*CWB), and outdoor temperature of 7*CDB / 6*CWB.

Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].

Dimensions (Unit: mm)



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



Wall Mounted

Models (EEV internal)
ASYA004GTAH
ASYA007GTAH
ASYA009GTAH
ASYA009GTAH
ASYE009GTAH

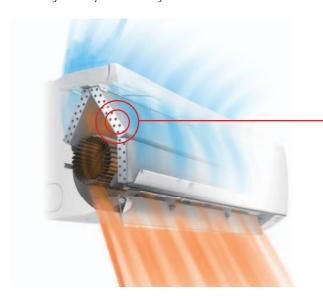




Feature

High efficient compact design

Ø5mm high density heat exchanger is mounted for the first time in the industry.



High density heat exchanger



Making the tube thin: 7 mm → 5 mm

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

6 Fan Speed Control

Multistep airflow control is possible to suit the environment.



Low noise 22 dB(A)

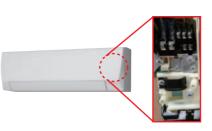




^{*} Compatible Remote Controller is as follows: UTY-RNRY22 / UTY-RLRY / UTY-RFRY / UTY-RHRY / UTY-DCGY / UTY-DTGYZ1 / UTY-ALGXZ1 / UTY-APGXZ1

Easy installation

Communication wiring can be installed easily by only opening the front panel and wire cover.



Optimized design matches to a small room

Efficient operation and refrigerant saving are realized by optimum heat exchanger design suited for small rooms.



Specifications

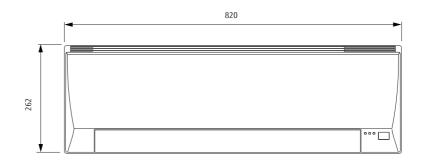
Model name			ASYA004GTAH	ASYA007GTAH	ASYA009GTAH	ASYE004GTAH	ASYE007GTAH	ASYE009GTAH				
Power source				Single - phase, ~230V, 50Hz								
Canacibu	Cooling	kW	1.1	2.2	2.8	1.1	2.2	2.8				
Capacity	Heating	KVV	1.3	2.8	3.2	1.3	2.8	3.2				
Input power		W	13	19	34	13	19	34				
	High		430	550	720	430	550	720				
	Med-H		420	460	570	420	460	570				
Airflow rate	Med	m3/h	390	420	500	390	420	500				
Allilow rate	Med-L m ³ /h		380	390	410	380	390	410				
	Low		360	360	360	360	360	360				
Quie	Quiet		330	330	330	330	330	330				
	High		31	35	43	31	35	43				
	Med-H		30	32	38	30	32	38				
Sound pressure	Med	dB	28	30	34	28	30	34				
level	Med-L	(A)	26	27	29	26	27	29				
	Low		24	24	24	24	24	24				
	Quiet		22	22	22	22	22	22				
Dimensions (H ×	W × D)	mm	262×820×206	262×820×206	262×820×206	262×820×206	262×820×206	262×820×206				
Weight		kg	7.5	7.5	7.5	7	7	7.5				
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35	6.35	6.35				
pipe diameter	Gas (Flare)	mm	9.52	9.52	9.52	9.52	9.52	9.52				
Drain hose diameter (I.D./O.D.)				13.8 / 15	5.8 to 16.7							
EV Kit (option)			-	-	-	UTR-EV09XB	UTR-EV09XB	UTR-EV09XB				
Nobo - Coocificat	one are based.		lowing conditions		When ASV*00	// TAU ACV*007/TAU ACV	/*000CTAH are connected t	to the autilians unit				

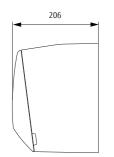
 $\label{thm:note:pecifications} \textbf{Note: Specifications are based on the following conditions.}$

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*004GTAH, ASY*007GTAH, ASY*009GTAH are connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø12.70.

Dimensions (Unit: mm)





Wall Mounted

Models (EEV internal) ASYA012GCAH NEW ASYE012GCAH NEW ASYA014GCAH NEW

Models (EEV external)

ASYE014GCAH NEW



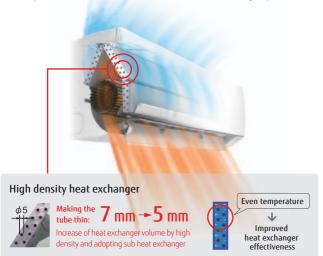


Feature

High efficient compact design

High efficient compact design is realized by mounting a high density and large heat exchanger.

Compact body makes it possible to install inconspicuously even in a meeting or office room and comfortable air conditioning is provided.



More comfort airflow

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

Heating

Vertical airflow provides powerful floor level heating





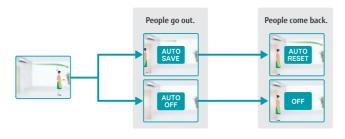
Horizontal airflow does not blow cool air directly at the occupants in the room.



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.





6 Fan Speed Control

Multistep airflow control is possible to suit the environment.

24 dB(A)

6-Step Speed





* Compatible Remote Controller is as follows: UTY-RNRYZ2 / UTY-RLRY / UTY-RSRY / UTY-RHRY / UTY-DCGY / UTY-DTGYZ1 / UTY-ALGXZ1 / UTY-APGXZ1

Optional parts

Wired Remote Controller: UTY-RNRYZ2, UTY-RLRY Wireless Remote Controller: UTY-LNHY Simple Remote Controller: UTY-RSRY, UTY-RHRY



Specifications

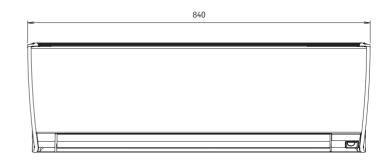
Model name			ASYA012GCAH	ASYA014GCAH	ASYE012GCAH	ASYE014GCAH
Power source				Single - phase	e, ~230V, 50Hz	
Canacitu	Cooling	kW	3.6	4.0	3.6	4.0
Capacity	Heating	KVV	4.0	4.5	4.0	4.5
Input power		W	25	36	25	36
	High		690	800	690	800
	Med-H		610	740	610	740
Airflow rate	Med	m³/h	560	680	560	680
Airriow rate	Med-L	1112/11	530	610	530	610
	Low		470	550	470	550
	Quiet		330	330	330	330
	High		40	44	40	44
	Med-H		37	42	37	42
Sound pressure	Med	dB	35	40	35	40
level	Med-L	(A)	33	37	33	37
	Low		30	34	30	34
	Quiet		24	24	24	24
Dimensions (H ×	W × D)	mm	268 × 840 × 203	268 × 840 × 203	268 × 840 × 203	268 × 840 × 203
Weight		kg	8.5	8.5	8.5	8.5
Connection	Liquid (Flare)		6.35	6.35	6.35	6.35
pipe diameter	Gas (Flare)	mm	12.70	12.70	12.70	12.70
Drain hose diam	eter (I.D./O.D.)			13.8 / 15	.8 to 16.7	
EV Kit (option)			=	-	UTR-EV14XB	UTR-EV14XB

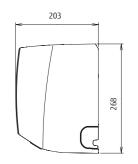
Note: Specifications are based on the following conditions.

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].

Dimensions (Unit: mm)





Wall Mounted

Models Models

ASYA18GBCH ASYA030GTAH ASYA24GBCH ASYA034GTAH



ASYA18 ASYA24

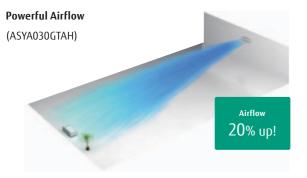


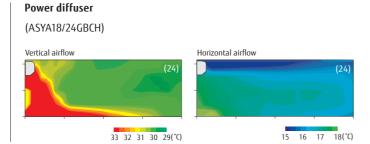
ASYA030 ASYA034



Feature

Powerful & Comfort airflow





Human sensor (ASYA030/034GTAH only)

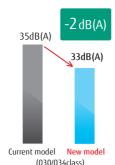
A human sensor senses the movement of humans to reduce operation when one is in the room. the wasteful consumption of energy is reduced automatically to keep down electricity bills.

(Available to wired remote controller as UTY-RNRYZ2)



Quiet operation & 6 Fan speed control

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







* Compatible Remote Controller is as follows: UTY-RNRYZ2 / UTY-RLRY / UTY-RSRY / UTY-RHRY / UTY-DCGY / UTY-DTGYZ1 / UTY-ALGXZ1 / UTY-APGXZ1



Specifications

Model name			ASYA18GBCH	ASYA24GBCH	ASYA030GTAH	ASYA034GTAH	
Power source				Single - phas	e, ~230V, 50Hz		
Canacitu	Cooling	kW	5.6	7.1	9.0	10.0	
Capacity	Heating	KVV	6.3	8.0	10.0	11.2	
Input power		W	32	60	74	103	
	High		840	1,100	1,440	1,620 / 1,520	
	Med-H		-	-	1,200	1,300	
Airflow rate	Med	m³/h	770	910	1,050	1,120	
Allilow rate	Med-L	III3/N	-	-	940	980	
	Low		690	730	890	890	
	Quiet		-	-	700	700	
	High		41	48	53	55 / 54	
	Med-H		-	-	49	51	
Sound pressure	Med	dB	39	43	45	47	
level	Med-L	(A)	-	-	42	43	
	Low		35	35	39	39	
	Quiet		-	-	33	33	
Dimensions (H ×	W × D)	mm	320 × 998 × 238	320 × 998 × 238	340 x 1,150 x 280	340 x 1,150 x 280	
Weight		kg	15	15	18	18	
Connection	Liquid (Flare)		6.35	9.52	9.52	9.52	
pipe diameter	Gas (Flare)	mm	12.70	15.88	15.88	15.88	
Drain hose diame	eter (I.D./O.D.)		12 /	16	13.8 / 15.	8 to 16.7	

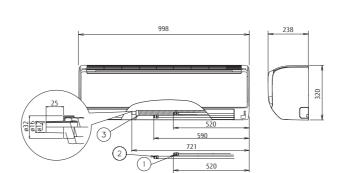
Note: Specifications are based on the following conditions.

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

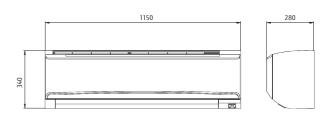
When ASYA18GBCH is connected to the outdoor unit other than J-IIIL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas).

Dimensions (Unit: mm)

Models: ASYA18 / ASYA24







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

User friendly control system provides individual control to centralized control





The AIRSTAGE control system can perform air conditioning control of individual room, centralized control by floor or by building, or centralized energy saving air conditioning control for large buildings.

A variety of air conditioning management schemes are available to match the application, such as linking with the building control system, linking with a single split models, and using various interfaces.

CONTROL SYSTEM

CONTROL SYSTEM OVERVIEW

INDIVIDUAL CONTROLLER

CENTRALIZED CONTROLLER

CONVERTOR / ADAPTOR

BEST CONTROL SOLUTION FOR EACH PROPERTY

Fujitsu General provides the best control solutions suitable for the various properties.

SHOP

Туре	Individual Control		Centraliz	ed Control		Into	egrating Control (Interf	ace)
1000						\Q	-	
	Wired Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	Network Convertor for LONWORKS®	MODBUS® Convertor	KNX® Convertor
Ber	UTY-RNRYZ2, UTY-RLRY	UTY-CGGY	UTY-DCGY	UTY-DTGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-VLGX	UTY-VMSX, UTY-VMGX	UTY-VKGX, UTY-VKSX
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						•	•	•

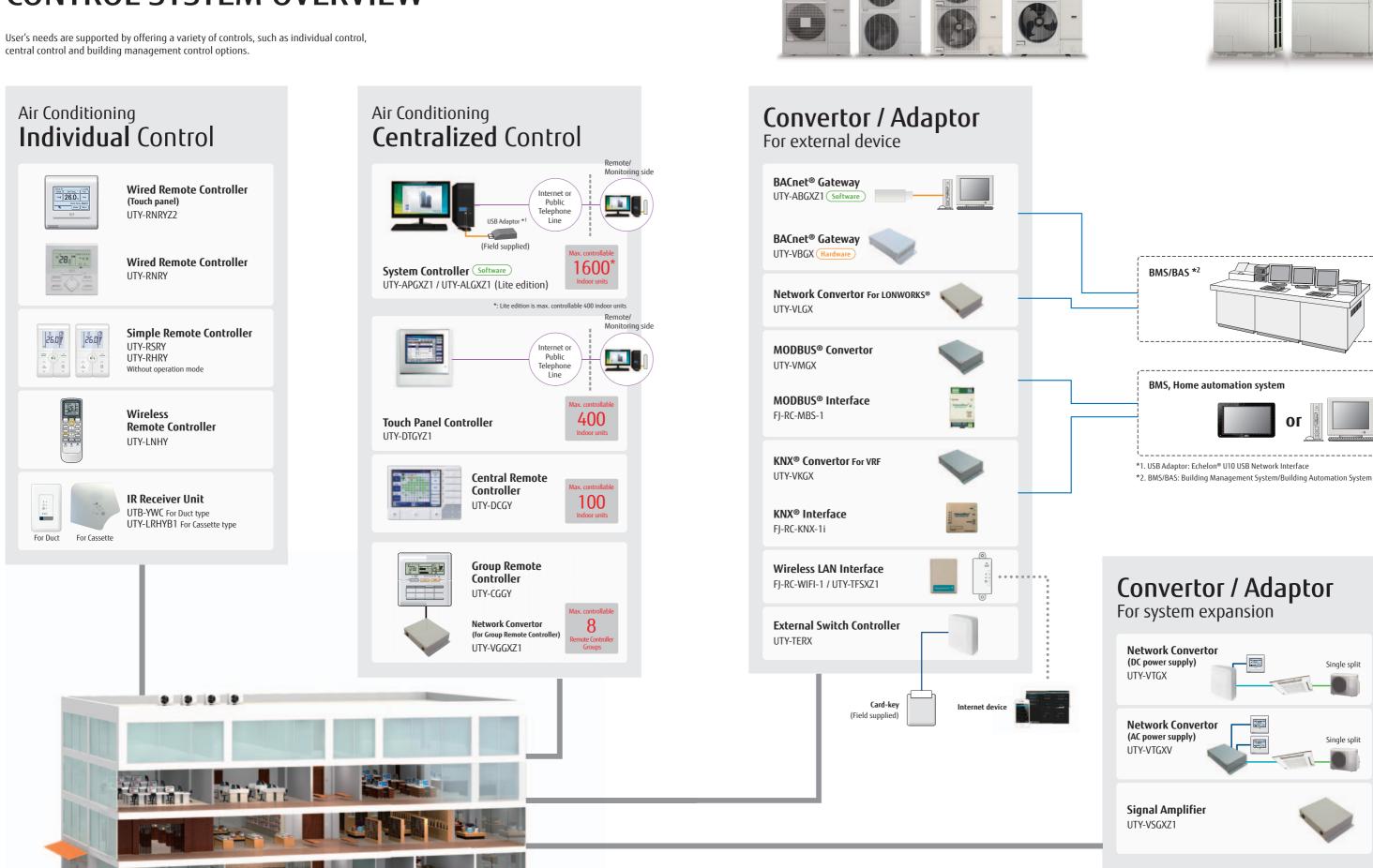
HOTEL

Туре		Individual Control			Centralize	ed Control			Integra	ting Control (In	terface)	
Charles of		kall kall						\				
	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	Network Convertor for LonWorks®	MODBUS® Convertor	KNX® Convertor	External Switch Controller
1000	UTY-RNRYZ2, UTY-RLRY	UTY-RSRY, UTY-RHRY	UTY-LNHY	UTY-CGGY	UTY-DCGY	UTY-DTGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMSX UTY-VMGX	UTY-VKGX UTY-VKSX	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

Туре		Individual Control			Centralize	ed Control			Integra	ting Control (In	terface)	
A STORY		jag jag						\	\rightarrow			
THE STATE OF THE PARTY OF THE P	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	Network Convertor for LonWorks®	MODBUS® Convertor	KNX® Convertor	External Switch Controller
Children	UTY-RNRYZ2, UTY-RLRY	UTY-RSRY, UTY-RHRY	UTY-LNHY	UTY-CGGY	UTY-DCGY	UTY-DTGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMSX UTY-VMGX	UTY-VKGX UTY-VKSX	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												•

CONTROL SYSTEM OVERVIEW



For Light Commercial

• J- Series

For Commercial

• V- Series

COMPARISON TABLE OF CONTROLLERS

The property The	ltem		201							-	
The contribution		Wired Remote Controller (Touch panel)		Simple Remote Controller	Simple Remote Controller* ¹	Wireless Remote Controller	Group Remote Controller			System Controller Lite Software	System Controller Software
Commonweight Comm		UTY-RNRYZ2			UTY-RHRY	UTY-LNHY					UTY-APGXZ1
Second S	Max. controllable remote controller groups				1				400		
Manual Control		16	16	16	16	16	128	100			1600
Control of the cont		-	-	-	_	-	-	16	400	400	1600
Marticonform	On / Off	•	•	•	•	•	•	•	•	•	•
Part	Operation mode setting	•	•	•	_		•	•	•	•	•
Part	Fan speed setting	•	•	•	•	•	•	•	•	•	•
Page-life	Room temp. setting	•	•	•	•	•	•	•	•	•	•
Part	Room temp. set point limitation	•	•	•	•	-	-	•	•	•	•
## Professional Sections Part Pa	Test operation	•	•	•	•	•	-	•	•	-	
Maritable Search	Up/down air direction flap setting	•	•	•	•	•	-	•	•	•	•
Page	Right/left air direction flap setting	•	•	_	_	•	_	•	•	•	•
September	Individual louver control	•	_	-	_	=	_	-	•	_	-
Part	Group setting	_	_	-	_	-	_	•	•	•	•
Process assertion	RC prohibition	-	-	-	-	-	-	•	•	•	•
Manuary model centrally Manuary model ce	Anti freeze setting	•	-	-	-	-	-	•	•	•	•
Manual Service around	Set temp. auto return	•	•	_	-	_	_	_	•	_	_
From	Economy mode setting	•	•	-	_	•	-	•	•	•	•
Commission	Human sensor control	•	-	-	_	-	-	-	•	•	•
Convertisher	Error	•	•	•	•	-	•	•	•	•	•
Proof for first Proof for	Defrosting	•	•	•	•	-	_	•	•	•	•
Fig. personants	Current time	•	•	-	_	•	•	•	•	•	•
Control floration Front	Day of week	•	•	-	_	-	•	-	•	•	•
Confunction proteins	R.C. prohibition	•	•	•	•	_	•	•	•	•	•
Addres deploy Dean temp Dean te	Cooling/heating priority	•	•	•	•	-	•	•	•	•	•
Multi larguage		•	•	•	•	_	•	•	•	•	•
Name registration	<u> </u>	•	_	•	•	_	_	_	•	_	_
Name registric	_ · _ · _ · _ · _ · _ · _ · _ · _ · _ ·	•	_	_	_	_	_	•	•	•	•
Rane segistration		•	_	_	_	_	_	•	•	•	•
Packlight		•		_	_			•	•	•	•
Period Week		•	_	•	•	_	_	•	•	_	
Period P		_	_	_	_	_	_	_	_	_	•
Period P		_	_	_	_	_	_	_	•	•	•
Schedule times Christ Chemp, Mode, Times pet day 8		Week	Week	_	_	_	Week	Week	Year	Year	Year
Times per day											
Sleep timer		8	4	-	_	_	4	20	20	144	144
Program timer	On/off timer	•	•	-	_	•	-	-	-	-	_
Auto of timer	Sleep timer	-	-	-	-		-	-	-	-	=
Day off	Program timer	-		-	-	•	-	-	-	-	=
Min. unit of timer setting (Minutes) 10 · 30 30 - - - - 5 10 10 10 10 10 10 10		•	•	-	-	-		-	•	-	
Status monitoring system		•	•	-	-	-		•	•	•	•
Flectricity charge apportionment	Min. unit of timer setting (Minutes)	10 • 30	30	_	-	5	10	10	10	10	10
First history	Status monitoring system	-	-	-	-	-	-	•	•	•	•
Emergency stop	Electricity charge apportionment	-	-	-	-	-	-	-	0	0	•
Remote management	Error history	•	•	-	-		•	•	•	•	•
Energy saving management — — — — — — — — — — — — — — — — — — —	Emergency stop	-	-		-	-	-	●* ²	●* ²		
E-mail notification for malfunction — — — — — — — — — — — — — — — — — — —	Remote management	-	_	-	-	_	_	-	•	0	•
Key lock Child lock Child lock Child lock Password setting Password se	Energy saving management	=			-	_				0	0
Key lock Child lock Child lock Child lock Child lock Child lock Password setting Password s	E-mail notification for malfunction	=		-	-		=	-	•	•	•
Low poise mode	Key lock				-						Password setting
LOW HOUSE HINGE	Low noise mode	-	-	-	-	-	-	-	•	-	-

*1 "Operation mode" setting is not available for this model.
*2 This function is available only through external input control.
•: Supported
•: Supported
•: Optional function
-: Not supported yet

Wired Remote Controller (Touch Panel)



UTY-RNRYZ2

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



Functions

Backlight

darkened room.

• Backlight enable easy operation in a

• For the lighting time of Backlight, 30

• Backlight activates while the buttons are operated and goes off 30 or 60 seconds after the operation stops.

or 60 seconds can be set.

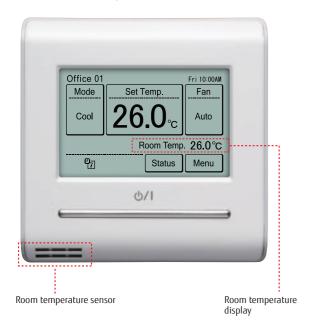
High performance and compact size

• In addition to the individual control, 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.



26.0₀

 This function can be set easily from Menu screen



Child lock

• Lock / unlock method: Push the ON/ OFF button and the screen (4 seconds)

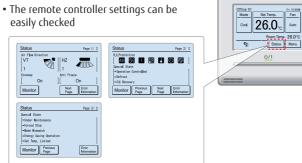


Name Registration

registered in the remote controller screen. This makes it easy to identify



Various convenient functions Displays setting status and Limitations



Summer Time display





• Remote controller names can be the indoor unit you want to control in the room.

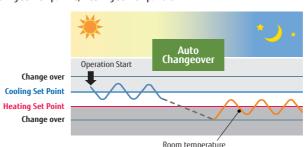


Various energy saving control

Custom Auto

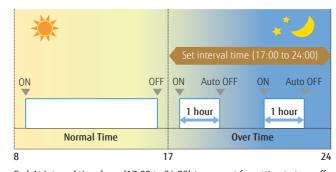
- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.
- * This function is not available for some models.

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



Auto OFF timer

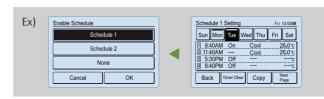
- The indoor unit automatically is turned off when it reaches to the preset operating time frame.
- The time frame of the "Auto off timer" can be flexibly scheduled.
- Can be set off time 30 to 240 minutes



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

- 2 schedules such as for the summer and winter can be set.
- 8 setting changeable per day of week (Setting items: On/Off, Temperature, Mode, Time)



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.

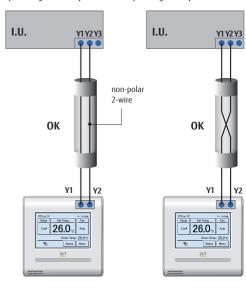
Set Temperature Upper and Lower Limit Setting

• The set temperature range can be set for each operation mode. (Cooling / Heating / Auto).

Simplified installation

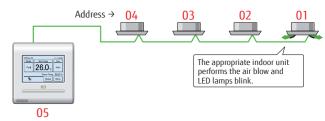
Uses non-polar 2-wire type

• The faulty wiring can be prevented by using non-polar 2-wire.



Auto Address Setting/Setting Position Notification

- Reduce errors and install time compared with the current specification Rotary SW
- When will be set remote controller groups, can also be set automatically new Wired remote controller address
- After auto address setting of new wired remote controller groups, what number can also confirm addresses



Easy Maintenance

Error History Display

- The errors that occur in the indoor unit or remote controller are saved as a history.
- A maximum of 32 error incidents can be saved.



Specifications

-		
Model name		UTY-RNRYZ2
Power Supply		DC 12V
Dimensions (H x W x D)	mm	120 × 120 × 20.4
Weight	q	220

DC12V is supplied by 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



Functions

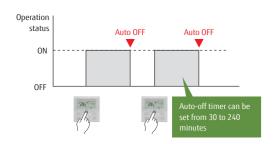
High performance and compact size

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



Auto-off timer

• The indoor unit automatically turns off after a set time has passed.



Weekly timer function

• Not only time setting On / Off, but also setting of the operation mode and set temperature can be set by Weekly timer function.



4 types (ON, OFF, ON, OFF) can be set on every day of the week in a week.

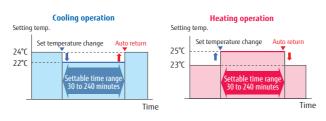
High visibility and easy operation

- "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.



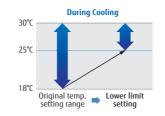
Set temperature auto return

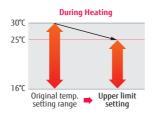
- The setting temperature automatically returns to the previously set temperature.
- The time range in which the set temperature can be changed is 30 to 240 minutes.



Set temperature upper and lower limit setting

 The set temperature range can be set for each operation mode. (Cooling / Heating / Auto)





Specifications

Model name		UTY-RLRY			
Power Supply		DC 12V			
Dimensions (H x W x D)	mm	120 × 120 × 17			
Weight	g	170			

DC12V is supplied by indoor unit.

Simple Remote Controller

Max. controllable 16 indoor units

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







UTY-RHRY Without Operation mode

Functions

Corresponding to various applications

• Vertical louver control:

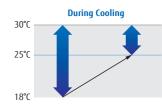
Vertical air flow direction can be adjusted for Duct types with auto louver and Cassette types, which are installed in hotels and conference rooms, can be adjusted.





• Room temperature set point limitation:

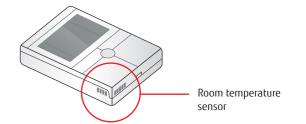
The Simple Remote Controller can manage to energy saving operation in small buildings without the central control unit.





• Built in room temperature sensor:

The Simple Remote Controller detects actual room temperature and controls room climate accuracy.



Specifications

Model name		UTY-RSRY UTY-RHRY				
Power Supply		DC 12V				
Dimensions (H x W x D)	mm	120 × 7	75 × 19.4			
Weight	n	1:	20			

DC12V is supplied by indoor unit.

Wireless Remote Controller

Max. controllable Selectable 16 indoor units daily timers

UTY-LNHY

Simple and sophisticated operations with a choice of 4 daily timers

• A single controller controls up to 16 indoor units.

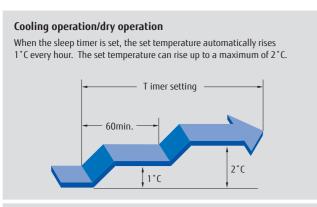


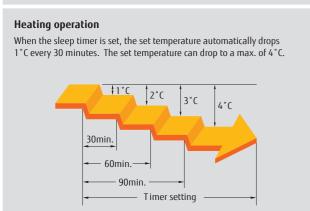
Functions

Built-in daily timer

Select from 4 different timer programs : On / Off / Program / Sleep **Program timer :** The program timer operates the ON and OFF timer once within a 24 hour period.

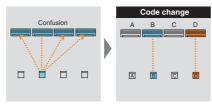
Sleep timer: The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or heating during sleep hours.





Easy installation and operation

Code selector switch prevents indoor unit mix-up. (Up to 4 codes can be set.)

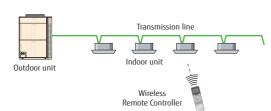


Wide and precise



Address setting

During installation work, address setting can be performed using the Wireless Remote Controller, thus eliminating manual switch setting.



Specifications

-						
Model name		UTY-LNHY				
Power Supply		1.5V (R03 / LR03 / AAA) × 2				
Dimensions (H x W x D)	mm	170 × 56 × 19				
Weight	q	85				

IR Receiver Unit

UTB-YWC

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

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

| • | • • | 85 • | •

Functions

Wiring connection



Specifications

Model name		UTB-YWC			
Power Supply		DC SV			
Dimensions (H x W x D)	mm	145 × 90 × 30			
Weight	g	150			

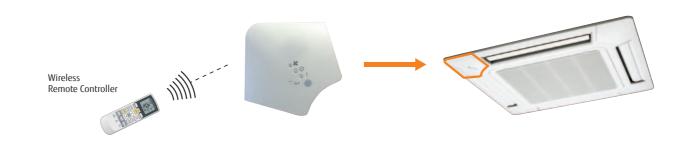
IR Receiver Unit

UTY-LRHYB1

Cassette type indoor unit can be controlled with Wireless Remote Controller



Functions



	rions

Model name		UTY-LRHYB1
Power Supply		DC 5V
Dimensions (H x W x D)	mm	193.9 × 193.9 × 31.2
Weight	g	140

Group Remote Controller / Network Convertor







UTY-CGGY / UTY-VGGXZ1

Group control of indoor units with simple operation

- Up to 8 remote controller groups can be controlled by one Group Remote Controller.
- Up to 64 Group Remote Controllers can be connected in one VRF network system.
- Network Convertor is required to connect Group Remote Controllers to a VRF network system. (Network Convertor allows up to 4 Group Remote Controllers)
- 3-wire type



Notwork Convert

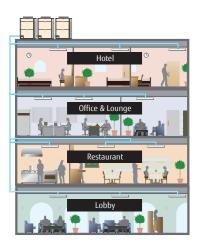
Group Remote Controllers UTY-CGGY

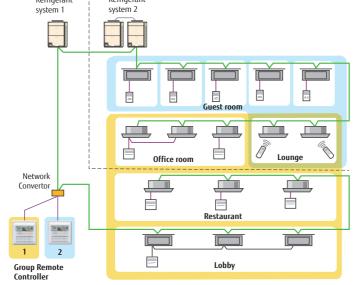
Network Convertor UTY-VGGXZ1 For Group Remote Controller

Functions

Control up to 8 remote controller groups

Single Group Remote Controller controls and monitors up to 8 remote controller groups.





Group Remote Controller 1: To control office room, lounge, restaurant and lobby (8 remote controller groups)

Group Remote Controller 2: To control guest room and launge (7 remote controller groups)

High performance and compact size

ON / OFF, Operating mode, Room temperature and Fan speed setting can be controlled / monitored centrally or individually.



Built-in weekly timers

The weekly timer is provided as a standard function.

Specifications

Model name		UTY-CGGY
Power Supply		DC 12V
Dimensions (H x W x D)	mm	120 × 120 × 18
Weight	q	200

DC12V	is	supplied	hv	indoor	unit.
DCIZV	.,	Jupplied	Uy	1110001	dilic.

Model name UTY-VGGXZ1 Power Supply 208-240V 50/60Hz, Single phase Input power W 8.5 Dimensions (H x W x D) mm 67 × 288 × 211 Weight q 1,500

Central Remote Controller

Max. controllable 100 indoor units

Max. controllable

16
groups

UTY-DCGY

Central control of small- and medium-sized buildings and tenants. The operation status of all connected indoor units can be viewed at a glance on a large LCD monitor to simplify individual control to batched control.

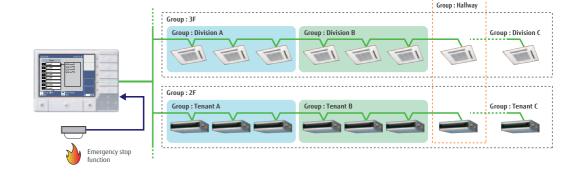
- Individual control and monitor of 100 indoor units
- 5 inch TFT color screen
- User friendly view and easy operation
- External input / output contact
- Detachable power supply unit
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

| Particle | Particle

Functions

System overview

- It allows multiple indoor units grouping (Max.16 groups controlled)
- Interlock with external device



Functions

• Diverse control of indoor units



 Remote controller prohibition (All, On / Off, Mode, Temp, Timer, Filter)



Weekly timer

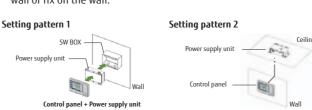


ory • Automatic clock adjustment

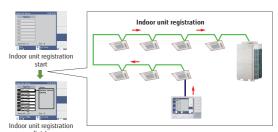


Easy Installation

- The control panel and power supply unit can be installed separately.
- For flexibility in installation, the Control panel can be built into the wall or fix on the wall.



• Automatic or manual indoor unit registration



Specifications

Model name		UTY-DCGY	/
		Control Panel	Power Supply Unit
Power Supply		DC 5 V	100-240V, 50-60Hz, Single phase
Dimensions (H x W x D)	mm	120 x 162 x 25.7	99 x 135 x 39.2
Weight g		308	355
<packing list=""></packing>			
Packing List		Control Panel / Power Supply Unit / Connecting cable, etc.	

Touch Panel Controller



UTY-DTGYZ1

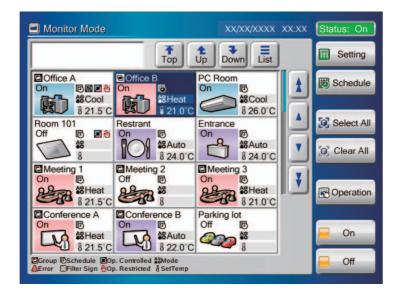
- Large-sized 7.5-inch TFT color
- LCD Easy finger touch operation
- Stylish shape and design to suit all application
- Up to 400 indoor units can be controlled
- Selectable 2 display types (Icon / List) in monitoring mode
- Supports 7 different-languages ,English, Chinese, French, German, Spanish, Russian, Polish
- Mounted with LAN interface for remote control & operation, external input / output with emergency stop and batch ON / OFF



Functions

Control & monitoring from anywhere

- 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.



Easy maintenance

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

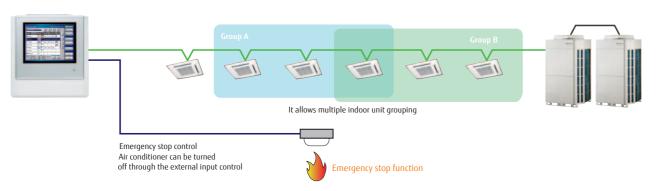


Easy installation

- 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

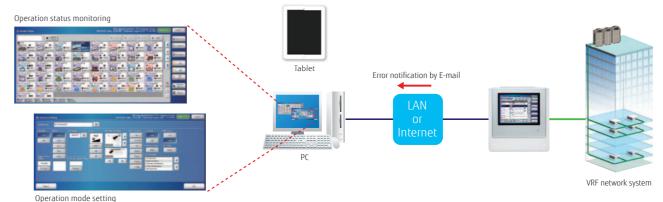


Up to 400 indoor units can be controlled



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

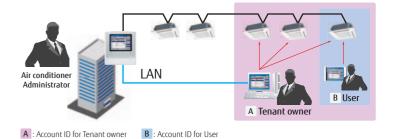
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iphone7 (iOS 10.1)	Safari 10

Tablet

Model name	Browser		
ipad Pro 9.7inch (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.

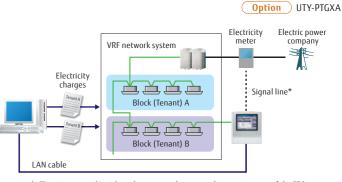
Additional language is displayed on only the remote device, and Touch Panel Controller cannot be added other languages.



/ Languages + Other languages

Electricity charge apportionment

- Electricity charge apportionment can be performed easily for the power consumed when billing users for air conditioning power charges.
 - Apportionment charge/bill calculation
 - Tenant (block) setting
 - Common facilities apportionment setting
 - Rated power consumption allotment setting
 - Individual calculation at cooling and heating
- Electricity meter supported



*: Electricity meter (1unit) can be connected to external input connector of the TPC unit. In this case, electricity meter cannot be connected to outdoor unit simultaneously.

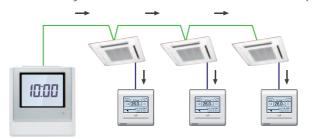
Automatic summer time setting

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

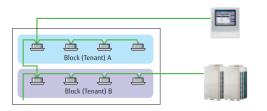
2) The time setting of each controller can be set in batch automatically.



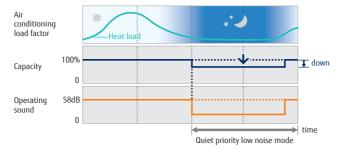
Outdoor low noise operation

Users can choose from 4 low noise levels, depending on the installation environment.

The operation time can be set using the timer.



Quiet priority setting



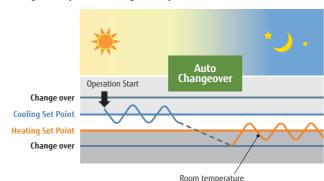
NEW Various energy saving control

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



NEW Refrigerant leakage detection function

The refrigerant leak condition is indicated by the management equipment, and if refrigerant leakage occurs, it is displayed as a pop-up, the user is notified, and the refrigerant is shut off.



FUNCTIONS SUMMARY



$\bullet \colon Supported$	\bigcirc : Optional function	– : Not supported yet
----------------------------	--------------------------------	-----------------------

Refrigerant leakage detection function

		UTY-DTGYZ1	Monitoring
Timer	1	T.	ı
	Period	Year	Year
Schedule timer	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		0	0
Error history		•	•
Emergency stop		● *2	●*2
Remote manager	nent	-	•
Energy saving ma	nagement	-	-
E-mail notificatio	n for malfunction	-	•
Key lock		• Password setting	-
Low noise mode		•	•

Specifications

Model name		UTY-DTGYZ1
Power Supply		100-240V 50/60Hz, Single phase
Dimensions (H x W x D) mm		260 × 246 × 54
Weight	g	2,150
Interface	·	Transmission / LAN / USB / EXT IN / EXT OUT / Reset SW

^{*1} Only setting cancellation can be operated.

^{*2} This function is available only through external input control.

System Controller Software

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.

System Controller Lite Software

UTY-ALGXZ1

UTY-APGXZ1

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.







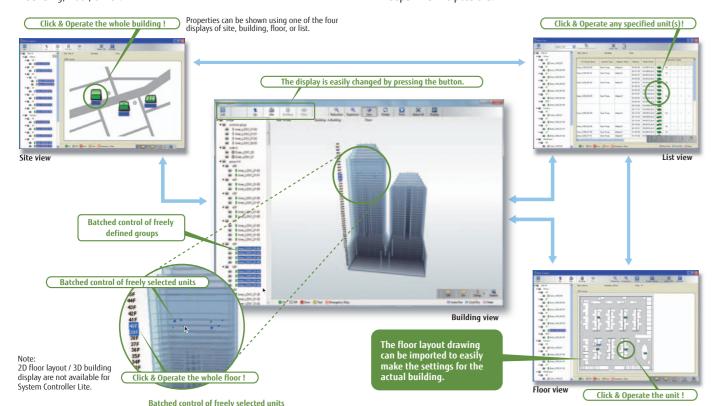


Functions

User friendly view and operation

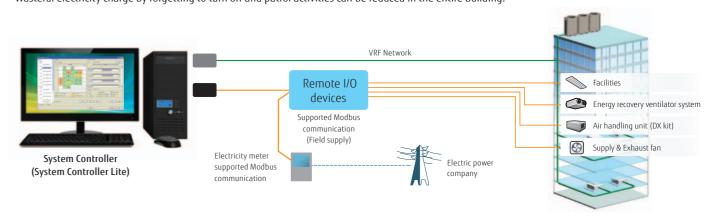
• Click & Operate: The property is shown visually from the perspective most suitable for operation and operated accordingly (Click & Operate). You can select from among the 4 displays of site, building, floor, or list.

• 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.



3rd party devices connected by Modbus can be controlled.

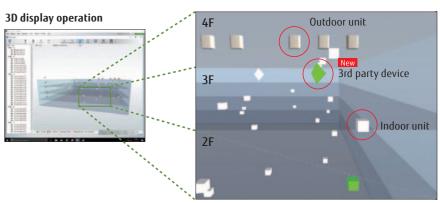
When Modbus Adaptor (locally purchased) is connected to PC, the electric facilities supported by Modbus can be controlled centrally. Wasteful electricity charge by forgetting to turn off and patrol activities can be reduced in the entire building.



Standard for System Controller

3D display of external equipment

3D display is also enabled for 3rd party devices, so Installation location and operation status can be checked at a glance and the operation can be managed easily.



*UTY-APGXZ1 only

Diverse operation management & Data management

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.

Stringana and

Option for System Controller Lite UTY-PLGXX2

Diverse control of indoor 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

Remote controller prohibition

This prohibits changes to the operation mode, temperature, start/stop, etc.

Automatic clock adjustment

The time setting of each controller can be set in batch automatically.

Error display & E-mail notification

Error is notified with popup message, audible sound and E-mail real time when error occurs. Error for the past 1 year are logged and can be reviewed later.

Data base import/export

Imports/exports registration data, layout data, and image data. Only the administrator can make this setting.

Operating & control record

Displays the history of operation status and control.

Functions

Web Operation

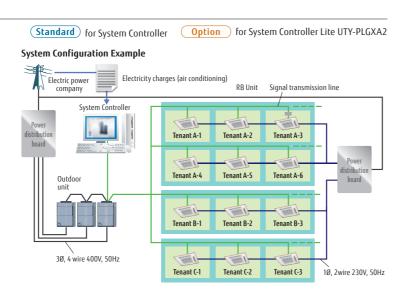
PC and smartphones can be used as simple remote controller. (Indoor unit user setting is necessary to operate it from System Controller side)

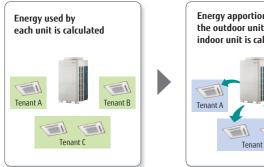


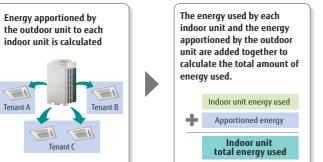
Electricity charge apportionment

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.





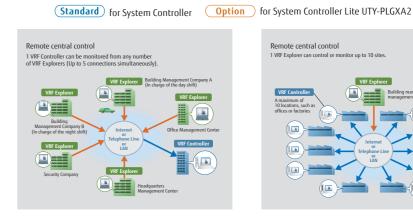


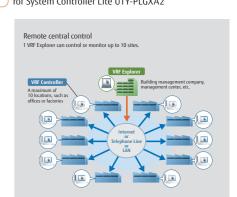
tenant are calculated The distribution ratio for energy used by each indoor unit is calculated and the electricity charges for the energy used by each indoor unit are calculated from the total electricity charges. Tenant B Tenant C Tenant A Electric Electric Electric Bill Bill Bill

Electricity charges by

Remote management

System Controller may be used on site or remotely over various networks for remote central control. System Controller requires 2 softwares 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.

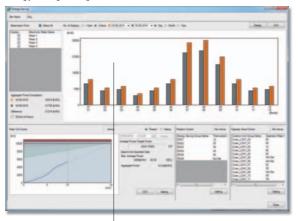




Energy saving management

A variety of energy saving operations can be set and managed depending on the season, weather, and time period. Excellent energy saving operation is performed while keeping users comfortable.

Energy Saving Management Main Screen



Energy saving graph data: This graph compares the electricity consumption with the previous month and previous year to make it easy to analyze the energy saving effect.

Indoor unit rotation operation

Option for System Controller UTY-PEGX Option for System Controller Lite UTY-PLGXE2

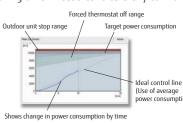
The operation of indoor units can be automatically rotated within a group in accordance with the set annual schedule to reduce power consumption while maintaining comfort. The indoor unit operation stoppage rate can be selected.



Peak cut operation

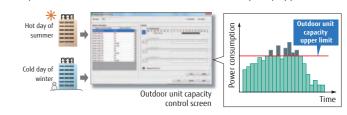
A power meter is connected to detect the total power consumption while shifting the indoor unit set temperature, set the indoor unit forced thermostat off, and taking other measures to carefully control

the power consumed while maintaining comfort and conducting control to maintain the target power consumption set for each time. The indoor units to be controlled can be freely grouped and the control level can be set.



Outdoor unit capacity save

Outdoor unit capacity save switches the outdoor unit capability upper limit to suppress power consumption during hot summers and cold winters by averaging the power saving effect of each refrigerant system. You can select from 50% or more of the capacity upper limit.

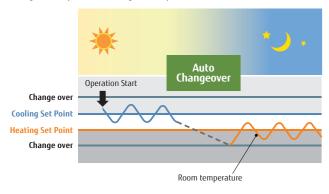


Functions

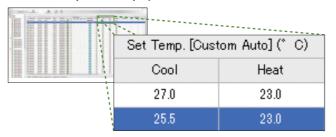
Custom Auto Function

Set the temperature to start cooling and the temperature to start heating, and perform the cooling / heating operation according to the room temperature. When the room temperature is between the cooling set temperature and the heating set temperature, since air conditioning is not performed, energy saving performance is improved.

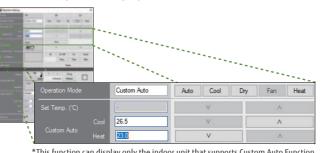
Cooling set temp. 28°C, Heating set temp. 18°C



Custom Auto operation display



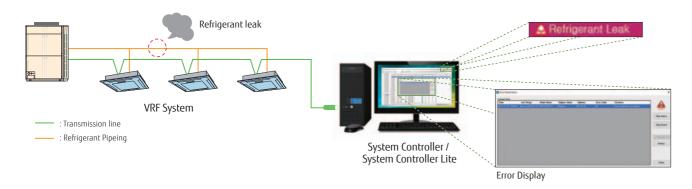
Custom Auto operation display



^{*}This function can display only the indoor unit that supports Custom Auto Function

Refrigerant leakage detect 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.



Error display

Error is notified with popup message, audible sound and real time e-mail when error occurs. Error for the past 1year are logged and can be reviewed later.



Diverse control of indoor units

- Indoor unit operation state, operation mode, etc. are displayed.
- Indoor unit start/stop and operation mode switching, temperature setting, remote controller prohibition, etc. setting.



Operating & control record

Displays the history of operation status and indications.



Energy saving function

Energy saving operation considering comfort by economy setting, temperature set point limitation, etc.

Enable	Dissble	Enable
Range	Lower Limit	Upper Limit
26.0 28.0	v.	- V A
21.0 23.0	v A -	- W A
21.0 - 28.0		- W A

FUNCTIONS SUMMARY

			System	controller			System controller lit		
Function		Туре	UTY-APGXZ1	Option UTY-PEGXZ1	UTY-ALGXZ1	Option UTY-PLGXR2	Option UTY-PLGXA2	Option UTY-PLGXE2	Option UTY-PLGX
	Max. VRF networks		4		1	_	_	_	_
ystem		emote controller groups per VRF network	400	-	400	-	-	_	_
pecification		per System controller	100	_	100	_	_	_	_
pecincation		remote controller groups per System controller	1600	_	400	_	_	_	_
	Max. outdoor units	per System controller	400	_	100	_	_	_	_
	Multi site display		10	_	10	_	_	_	_
	Number of building	/ 1 site	20	_	_	_	_	_	_
	Number of floor per	1 site	200	_	_	_	_	_	_
	Number of floor per		50	-	-	-	_	_	_
ite	3D graphical layout		•	_	_	_	_	_	_
upervision	2D graphical layout		•	_	-	_	_	_	_
	List display		•		•	_	_	<u> </u>	<u> </u>
	Tree display		•		•	_	_		_
	Group display		•	_	•	_	_	_	_
	Error notification		•		•	_	_	_	_
rror	Audible alarm		•	_	•	_	_	_	_
nanagement									
	Error e-mail notifica	3000				_	_	_	_
	Error history		•	_	•	_	-	_	
listory	Operation history		•	_	•	_	_	_	_
	Control history		•	_	•	_	_	_	_
		On/Off	•	-	•	-	-	_	_
		Operation mode	•	_	•	_	_	_	_
		Room temperature	•	_	•	_	_	_	_
	Local Control	Fan speed	•	_	•	_	_	_	_
	Individual	Air flow direction	•	_	•	_	_	_	_
	control	Economy mode	•	_	•	_	_	_	_
		Room temperature set point limitation	•	_	•	_	_	_	_
peration		Antifreeze	•		•	_	_	<u> </u>	_
ontrol		Outdoor unit low noise setting	•			_	_	_	_
		Remote control prohibition setting	•	_	•	_	_	_	_
	Individual		•		•				
	management	Temperature upper and lower limit setting		-		-	_	_	_
		Filter sign reset					_		_
		Memory operation		_		_	_		_
	Other	Pattern operation	•	_	•	_	_	_	_
		Web operation	•	_	•	_	-	_	_
	Annual Schedule		•		•	_	_	_	_
	Special day setting		•		•	_	_	_	_
	On /off per day		72	_	72	_	_	_	_
chedule	On / off per week		504	_	504	_	_	_	_
	Day off		•	-	•	-	_	_	_
	Min. unit of timer so	etting (Minutes)	10	_	10	_	_	_	_
	Low noise mode We		•	_	•	_	_	<u> </u>	_
	Web Operation	,	•		•				
lemote	Remote monitoring		•	_		•	_	_	_
nanagemment	Remote operation of		•			•			_
lialiagellillelit	Remote function se		•			•			_
			•		-		•		_
	Apportionment cha			-		-		-	1
lectricity	Tenant (block) setti					_	•		
harge		pportionment setting	•	_	_	-	•		_
pportionment		mption allotment setting	•	-	_	-	•	_	_
pportioninient		on at cooling and heating		•*		_	•	_	_
	Electricity meter su		-	•	-	-	•	-	_
	Indoor unit rotation	1	_	•	_	_	_	•	_
	Peak cut control			•	_			•	_
nergy	Outdoor unit capaci	ity save	-	•	-	-	-	•	_
aving	Record of energy sa		_	•	-	_	-	•	_
nanagement	Energy saving infor		-	•	-	-	-	•	_
	Power consumption		_	•	_	_	_	•	_
	Electricity meter su			•		_	_	•	_
xternal Device	Monitor	PP	•	_	_	_	_		•
ontrol	Control		•					 	•
UIIUUI		- oosh	•		-				_
	Database import/ex			-		-	_	-	_
)thers	Automatic clock adj	ustment	-		•	_	-	_	_
			7 languages	_	7 languages	-	_	_	_
dicis	Multi language	detection function	•	_	•	_	_	_	_

Available. -: Not available. *: Power calculation application software is necessary, please contact the local FGL representative...

Personal computer system requirements

The required PC specifications are shown in the following table.

	System Controller	System Controller Lite				
Operating system	 Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit), Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) 	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	Intel® CoreTM i3 2 GHz or higher				
Memory	• 2 GB or more (for Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7	• 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 space355	40 GB or more of free space355				
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.	•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 connectior - 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® Reader® 9.0 or later	Adobe® Reader® 9.0 or later				

• Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)re.

<packing lisi=""></packing>							
	For System controller		For System controller Lite				
Typo	System controller	Option	System Controller Lite	Option			
Туре	System controller	Energy manager	System Controller Lite	Remote access	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.

BACnet® Gateway





WHITE-USB-KEY

(Software Protection Key)

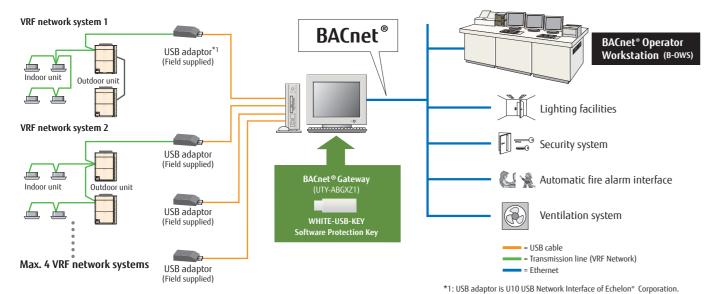


UTY-ABGXZ1

- 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.

Functions

Installation example



Personal computer system requirements

UTY-ABGXZ1
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
Intel® CoreTM i3 2 GHz or higher
• 2 GB or more (for Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)
40 GB or more of free space
1024 x 768 or higher resolution
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.
Adobe® Reader® 9.0 or later

<packing list=""></packing>		
Name and shape	Quantity	Application
WHITE-USB-KEY	1	Includes the software and manuals, license for BACnet® Gateway.

BACnet® Gateway (Hardware)





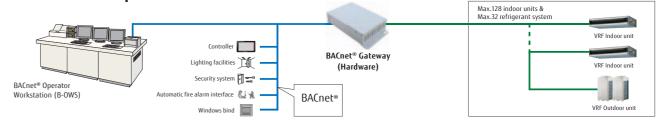
UTY-VBGX

- BACnet® Gateway enables to connect a BMS and FG 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.



Functions

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 etwork	4

Model name		UTY-VBGX		
Power Supply		100-240V 50/60Hz, single phase		
Power Consumption	W	4.6 (max)		
Dimensions (H x W x D)	mm	59.6 × 270.4 × 176		
Weight	g	1,200		

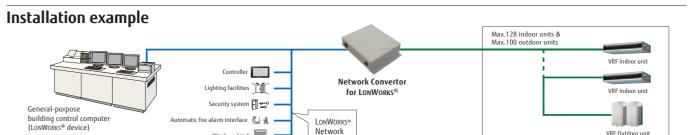
Network Convertor for LonWorks®

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 Convertor for LONWORKS®



Functions



Specifications

Model name		UTY-VLGX	
Power Supply		208-240V 50/60Hz, Single phase	
Power Consumption W		4.5	
Dimensions (H x W x 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.)

MODBUS® Convertor

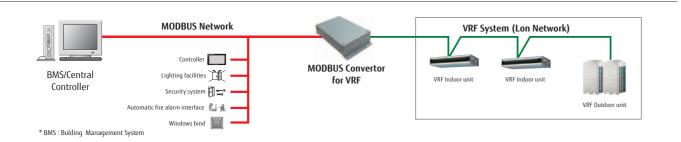
128 100

UTY-VMGX

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

- Compact and lightweight design
- Direct connection to MODBUS Network
- Up to 128 indoor units can be controlled in one MODBUS Convertor
- The MODBUS Convertor permits central monitoring and control of air conditioners from BMS or Central Controller.

Functions



Specifications

Model name		UTY-VMGX
Power Supply		220-240V 50/60Hz
Input power	W	Max. 2
Dimensions (H x W x D)	mm	54 × 260 × 150
Weight	g	1,100

MODBUS® Interface

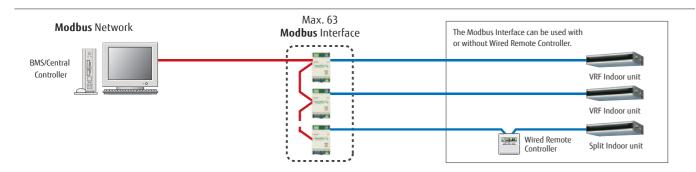


FJ-RC-MBS-1

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

- Simple installation due to small and compact size.
- No separate external power supply required.
- The Modbus Interface permits central monitoring and control of air conditioners from BMS.

Functions



Specifications

Model name		FJ-RC-MBS-1		
Dimensions (H x W x D)	mm	93 × 53 × 58		
Weight	g	85		

KNX® Convertor (for VRF)

UTY-VKGX

It is possible to control the VRF system from central / home controller via KNX network.

- New KNX Convertor enables to connect central/home controller and FG VRF system.
- A maximum of 128 indoor units and 100 outdoor units can be connected to single KNX Convertor.



Functions



Specifications

Model name		UTY-VKGX
Power Supply		220-240V 50/60Hz
Input power	W	1.5
Dimensions (H x W x D)	mm	54 × 260 × 150
Weight	g	1,200

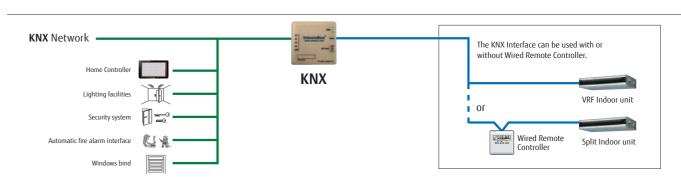
KNX® Interface

FJ-RC-KNX-1i

The KNX Interface allows a complete integration of air conditioners with KNX Network systems.

- Simple installation due to small and compact size.
- No separate external power supply required (just KNX bus power).
- Can be used for single indoor units and group controlled (up to 16) indoor units

Functions



Specifications

Model name		FJ-RC-KNX-1i
Dimensions (H x W x D)	mm	70 × 70 × 28
Weight	g	70

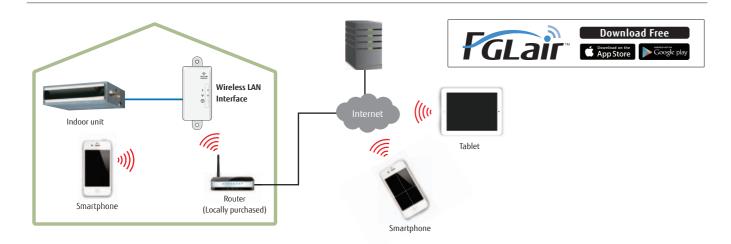
Wireless LAN Interface

UTY-TFSXZ1

- 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

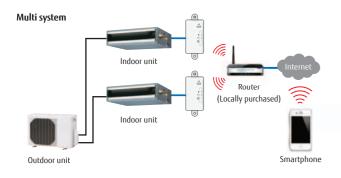


Functions



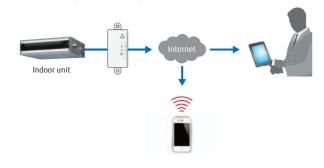
Basic control

- 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



Error display & E-mail notification

- Alerts e-mail notification
- Air conditioning malfunction display
- It enables rapid service response when error occurs.



Multiple air conditioning management

• Multiple air conditioning management at difference locations.

Specifications

Model name		UTY-TFSXZ1
Dimensions (H x W x D)	mm	71 × 38 × 15
Weight	g	35

Wireless LAN Interface IntesisHome 7

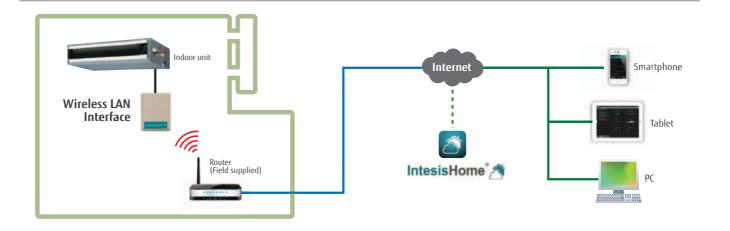


FJ-RC-WIFI-1

- It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, Tablets and PC
- No separate external power supply required
- Can be used for single indoor units and group controlled (up to 16) indoor units



Functions



Basic control

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



(Application screen image)

Advanced control (Optional functions)

- Climate working modes (ECO, Comfort, Powerful) (future release)
- Schedulable functionalities (ON/OFF, Modes, Set point temperature, Fan Speed, Louver position)
- Set temperature limitation (future release)
- Multiple Scenes & Timers and Calendar function

Notifications and History

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

Spe		

Model name		FJ-RC-WIFI-1
Dimensions (H x W x D)	mm	108 × 70 × 28
Weight	g	80

Network Convertor

Max. controllable 16 100 Network Convertors

UTY-VTGX (DC power supply type)
UTY-VTGXV (AC power supply type)

Compact remote controller provides access to basic functions

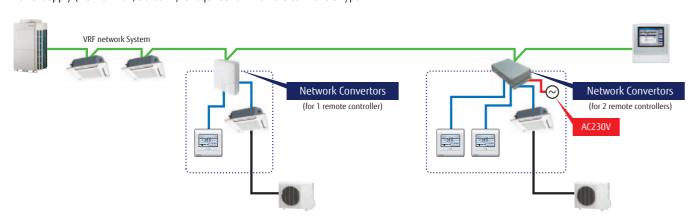
- The network convertors are required when connecting single split system to VRF network system.
- Compact and light weight design
- Connectable to both types of 2-wire and 3-wire remote controllers



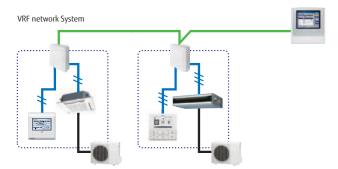
Functions

Installation example

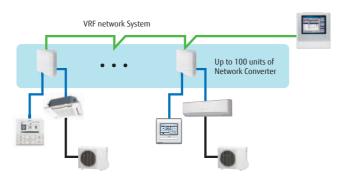
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60Hz) is required for 2 remote controllers type.



- 2-wire and 3-wire type of the wired remote controller can be connectable.
- Power supply (AC220-240V, 50/60Hz) is required for 2 remote controllers type.



 A central control can be provided for the single split systems. (Up to 100 units of Network Convertor is connectable in one VRF network system)



Specifications

Model name		UTY-	VTGX	UTY-VTGXV		
Power Supply		polar 3-wire DC12V non-polar 2-wire DC12V		220-240V 50/60Hz, Single phase		
Input power	W	Max	c. 1.2	Max. 3		
Dimensions (H x W x D)	mm	140 × 1	17 × 43	54 × 260 × 150		
Weight	g	2	50	1,100		

External Switch Controller

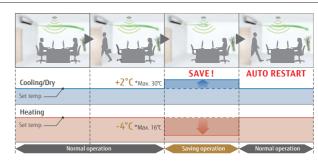
UTY-TERX

- 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.
- 2-wire type
- The set temperature can be specified at two points for cooling and heating individually (4 points).

Functions

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. The above example indicated that a signal is sent to this External Switch Controller if human sensor does not detect for 20 minutes. Human sensor is not mounted on the External Switch Controller.

Specifications

Model name		UTY-TERX			
Power Supply		DC 6.5-16V			
Dimensions (H x W x D)	mm	140 × 117 × 43			
Weight	q	250			

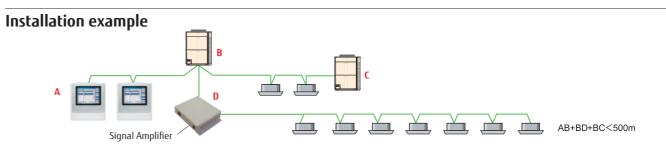
DC12V is supplied by indoor unit.

Signal Amplifier

UTY-VSGXZ1

- $\bullet \ Transmission \ Line \ length \ can \ be \ extended \ up \ to \ 3,600m \ with \ multiple \ Signal \ Amplifiers.$
- Up to 40 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 500m.
- (2) When the total number of units on the transmission line exceeds 64.

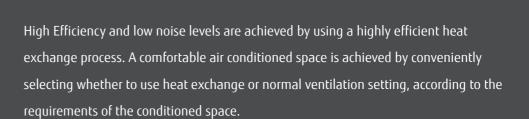
Functions



Specifications

Model name		UTY-VSGXZ1
Power Supply		208-240V 50/60Hz, Single phase
Input power	W	4.5
Dimensions (H x W x D)	mm	67 × 288 × 211
Weight	g	1,500





Energy Recovery Ventilator

DX-Kit for airhandling applications

Energy Recovery Ventilator range

Airflow rate (m³/h)	250	350	500	800	1000
Model code	025	035	050	080	100
Energy Recovery Ventilator					



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VENTILATION

Energy Recovery Ventilator

Models UTZ-BD025C UTZ-BD035C UTZ-BD050C UTZ-BD080C UTZ-BD100C











Feature

Heat exchange ventilation and normal ventilation

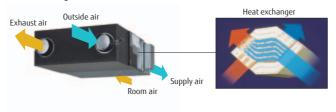
Heat exchange ventilation

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



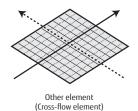
Energy efficiency and ecology

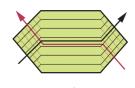
Energy consumption is dramatically reduced by using a counterflow heat-exchange element. Air conditioning load is reduced by approximately 20%, resulting in significant energy savings. Recovers up to 77% of the heat in the outgoing air.



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 remains unchanged.





Fujitsu element (Counter-flow element)

Quiet operation

Significantly reducing low pressure loss and noise allows low-noise operation.

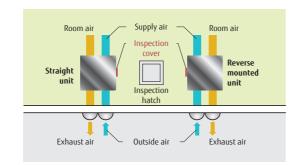
Reverse mountable direct air supply / exhaust system

Adoption of straight air supply / exhaust system:

Duct design is simplified because the air supply / exhaust ducts are

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.



Slim shape and easier installation

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



Extended range of an external static pressure

An external static pressure is improved by adopting a powerful fan

This allows for application in a wide variety building.

Easy remote operation



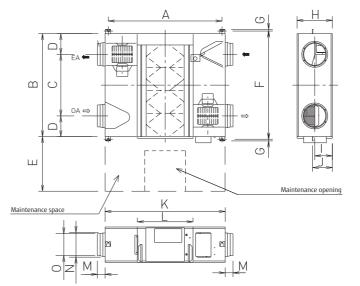
- POWER ON/OFF
- · Air volume High/Low
- Heat exchange /Normal Ventilation
- ON/OFF Timer
- Clean filter display

Specifications

Rated flow rate Model name			250 m ³ /h	350 m ³ /h	500 m ³ /h	800 m ³ /h	1000 m ³ /h			
			UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100C			
Power source					220 - 240V, 50Hz					
	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	1000 / 1000 / 700		
J N	External static pressure	Extra high / High / Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75		
EXCHA	Temperature Exchange Efficiency	Extra high / High / Low	%	75 / 75 / 77	75 / 75 / 78	75 / 75 / 76	75 / 75 / 76	75 / 75 / 79		
External static pressure Temperature Exchange Efficiency Energy Exchange Efficiency Cooling Energy Exchange Efficiency Heating		Extra high / High / Low	%	63 / 63 / 65	66 / 66 / 71	62 / 62 / 64	65 / 65 / 68	65 / 65 / 70		
		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		
_ NC	Input power	Extra high / High / Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311		
NORMAL VENTILATION	Air flow rate	Extra high / High / Low	m³/h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1000 / 1000 / 700		
N E	External static pressure	Extra high / High / Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75		
۷E م	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		
Dimen	nsions (W × D × H)		mm	882 × 599 × 270	1050 × 804 × 317	1090 × 904 × 317	1322 × 884 × 388	1322 × 1134 × 388		
Weight		kg	29	49	57	71	83			
Outlet	duct diameter		mm	150	150	200	250	250		
Operat	tion range		°C	-10 to 40	-10 to 40	-10 to 40	-10 to 40	-10 to 40		
Maxim	num humidity		%	85	85	85	85	85		

^{*} The noise level must be measured 1.5 m below the centre of the unit

Dimensions (Unit: mm)



	UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100C
Α	810	978	1018	1250	1250
В	599	804	904	884	1134
C	315	580	640	428	678
D	142	112	132	228	228
Ε	600	600	600	600	600
F	655	860	960	940	1190
G	19	19	19	19	19
Н	270	317	317	388	388
-1	135	159	159	194	194
J	159	182	182	218	218
K	882	1050	1090	1322	1322
L	414	470	470	612	612
M	95	70	70	85	85
N	Ø164	Ø164	Ø210	Ø258	Ø258
0	Ø144	Ø144	Ø194	Ø242	Ø242

DX-Kit for air handling applications

Models
Control unit
UTY-VDGX

UTP-VX30A UTP-VX60A UTP-VX90A

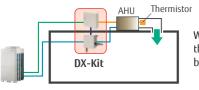
These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or, be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).



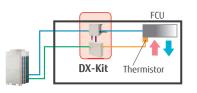


Feature

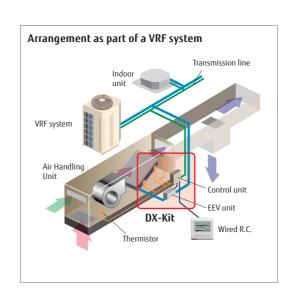
Multiple temperature sensors optimally control the air handling unit and fan coil unit.



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

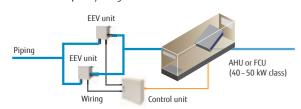


When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.



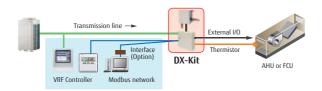
Supports a wide range of capacity classes

- 2 EEV units can be connected in parallel and up to 20 HP (50 kW) large capacity units. (Separation Tube of UTP-LX180A is required.)
- Connectable capacity range: 5 kW to 50 kW

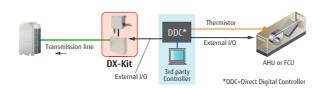


A variety of controls to match the application

 Central control using our VRF controllers or central management controllers



Central control from external controllers



Functions Summary

Inputs

- ON/OFF
- Setting temperature
- Capacity demand
- Heating / Cooling operation mode
- Fault information

Outputs

- ON/OFF indication
- Fan ON/OFF indication
 Thermo ON/OFF indication
- Defrost indication
- Fault indication

Modbus Control

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

Installation Limitation

- Connectable VRF series : All VRF
- Connectable DX-Kit system capacity range : 50 to 100% of the outdoor unit capacity
- Connectable DX-Kit system capacity range with indoor units : 30% or less of the outdoor unit capacity
- Max. wiring length from control unit: 10 m
- Max. piping length between EEV unit and indoor unit: 5 m
- Outdoor installation: Control unit (IP54 class) and EEV unit can be installed at an outdoor space.

[For 2EEV units connection (option)]

• Separation Tube : UTP-LX180A

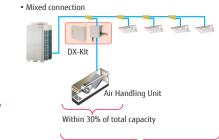


Connectable capacity

DX-Kit

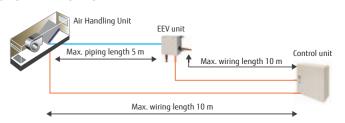
Air Handling Unit

50% – 100% of outdoor unit capacity



50% – 100% of outdoor unit capacity

Piping and wiring length



Specifications

EEV unit UTP-VX30A				UTP-VX60A		UTP-VX90A		UTP-VX90A×2				
Power source		V/Ø/Hz		230/1/50								
Connectable capacity class kW			5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0
Connection	Cooling	134/	5.6 (5.1-5.9)	6.3 (6.0-7.1)	8 (7.2-9.0)	10 (9.1-11.1)	12.5 (11.2-13.2)	14 (13.3-18.0)	22.4 (18.1-23.7)	25 (23.8-28.0)	40 (28.1-44.7)	50.4 (44.8-50.4)
Capacity	Heating	- kW	6.3 (5.7-6.7)	7.1 (6.8-8.0)	9 (8.1-10.0)	11.2 (10.1-12.4)	14 (12.5-15.0)	16 (15.1-20.0)	25 (20.1-26.5)	28 (26.6-31.5)	45 (31.6-49.9)	56.5 (50.0-56.5)
Airflow Rate(Reference value) m3/h		1,060	1,200	1,520	1,600	2,000	2,240	3,560	4,000	6,400	8,000	
Dimensions (H ×	W × D)	mm				160 × 2	20 × 90				(160 × 22	0 × 90)× 2
Weight		kg		2					2 × 2			
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52	12.70	12.70	12.70	12.70

Control unit		UTY-VDGX
Power source	V/Ø/Hz	230/1/50
Dimensions (H × W × D)	mm	400 × 400 × 120
Weight	kg	10

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].



Auto Louver Grille Kit

Models UTD-GXTA-W UTD-GXTB-W UTD-GXTC-W





Feature

Flexible Control

• Operation with indoor unit

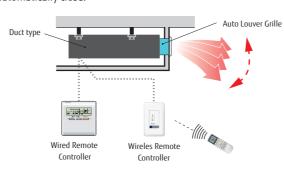
Auto Louver can be operated by synchronizing remote controller of indoor unit.

• UP and Down auto swing

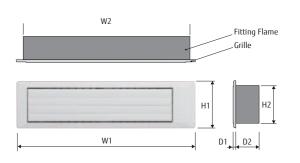
- Auto airflow direction and auto swing 4 steps selectable

• 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 Indo	or Unit		ARXD04/07/09/12/14GALH ARXK04/07/09/12/14GCLH	ARXD18GALH ARXK18GCLH	ARXD24GALH ARXK24GCLH						
Power source				Connecting with Control box of indoor unit							
Fixing of Auto L	ouver Grille			Screw fixing to Flange or Square Duct							
Extension Squar	e Duct Limit		1	.0m (Max. duct length between indoor unit and Grille)							
Dimensions (H >	W × D)	mm	180 × 683 × (84+9)	180 × 883 × (84+9)	180 × 1083 × (84+9)						
M-:	Net	l	2.0	2.5	3.0						
Weight	Gross	- kg	3.0	3.5	4.0						
Color				White							
Louver Motor				Stepping Motor							
Accessories				Fitting Flame, etc.							
	Caalina	°C		18 to 32							
Operation Range	Cooling	% RH		80% or less							
Kange	Heating	°C		16 to 30							

^{*:} The Auto Louver Grille Kit can also be installed to ARXD07/09/12/14/18/24LATH revision code B models. Please refer to the Design & Technical manual for "revision code" details.

CONTROL SYSTEM LIST

Со	ntroller	s / Interface																				
					Cassette					Duct		Indoo	r unit Flo	100					Wall M	lounted		
т			Compact (Grid/ Standard)	4-	way	Circula	ar Flow	Mini (With drain pump)	Slim (With drain pump)	Medium Static Pressure	High Stati	c Pressure	_	EEV external	Ceiling / Floor	Ceiling	_	EEV external	_	EEV external	-	_
Ту	pe		AUXB 04GBLH, AUXB 07/09/12/ 14/18/24 GALH	AUXD 18/24 GALH	AUXA 18/24/30/ 34/36/45/ 54GALH	AUXM 018/024/ 030GLAH	AUXK 018/024/ 030/034/ 036/045/ 054GLAH	ARXK 04/07/09/ 12/14/18/ 24GCLH	ARXD 04/07/09/ 12/14/18/ 24GALH	ARXA 24/30/36/ 45GBLH	ARXC36 GBTH, ARXC45/60 GATH	ARXC72/ 90GBTH, ARXC96 GATH	AGYA 004/007/ 009/012/ 014GCAH	AGYE 004/007/ 009/012/ 014GCAH	ABYA 12/14/18/ 24GATH	ABYA 30/36/45/ 54GATH	ASYA 004/007/ 009 GTAH	ASYE 004/007/ 009 GTAH	ASYA 012/014 GCAH	ASYE 012/014 GCAH	ASYA 18/24 GBCH	ASYA 030/034 GTAH
Controllers	Wired Remote	220.										UTY-R										
S	Controller	28/17/27										UTY-	-									
	Simple Remote Controller	2-wire type 3-wire type								U	JTY-RSRY,	UTY-RHRY,	UTY-RSKY	r, uty-rhk	Υ							
	Wireless Remote Controller											UTY-	LNHY									
	Group Remote Controller										U1	TY-CGGY +	UTY-VGGX	Z1								
	Central Remote Controller											UTY-	DCGY									
	Touch Panel Controller			UTY-DTGYZ1																		
	System Controller, System Controller Lite			● UTY-APGXZ1, UTY-ALGXZ1																		
	IR Receiver Unit	*			RHYB1	UTY-L	BHXD			• UTB-YWC												
Interface	BACnet Gateway	10									U	TY-ABGXZ		ΣX								
	Network Convertor for LONWORKS											UTY-	VLGX									
	MODBUS Convertor											UTY-V	/MGX									
	MODBUS Interface		F	• J-RC-MBS	-1				F	J-RC-MBS-	-1					MBS-1					FJ-RC- MBS-1	
	KNX Convertor											UTY-										
	KNX Interface		F	J-RC-KNX-	-1i				FJ	• J-RC-KNX-1	1i					KNX-1i					FJ-RC- KNX-1i	
	Wireless LAN	9				UTY-T	FSXZ1						UTY-T	FSXZ1					FSXZ1			UTY- TFSXZ1
	Interface		F	• J-RC-WIFI	-1				F	J-RC-WIFI-	-1					WIFI-1					FJ-RC- WIFI-1	
	External Switch Controller			● UTY-TERX																		

OPTIONAL PARTS LIST

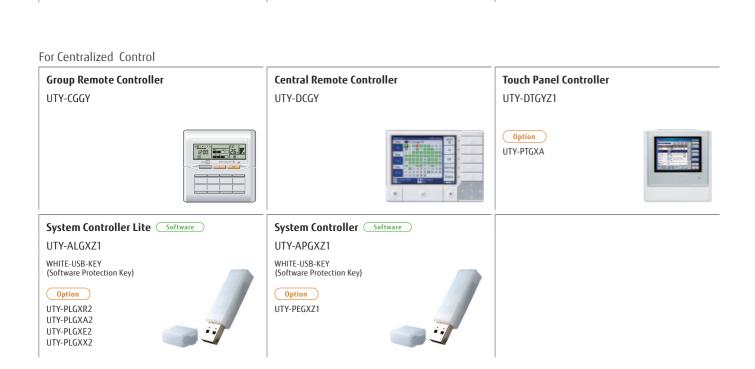
ther												Indo	or unit									
			 		Cassette					Duct		IIIdo		DOL					Wall M	ounted		
			Compact (Grid/ Standard)	4-1	way	Circula	ar Flow	Mini (With drain pump)	Slim (With drain pump)	Medium Static Pressure	High Stat	ic Pressure	_	EEV external	Ceiling / Floor	Ceiling	_	EEV external	-	EEV external	-	_
Гуре			AUXB 04GBLH, AUXB 07/09/12/ 14/18/24 GALH	AUXD 18/24 GALH	AUXA 18/24/30/ 34/36/45/ 54GALH	AUXM 018/024/ 030GLAH	AUXK 018/024/ 030/034/ 036/045/ 054GLAH	ARXK 04/07/09/ 12/14/18/ 24GCLH	ARXD 04/07/09/ 12/14/18/ 24GALH	ARXA 24/30/36/ 45GBLH	ARXC36 GBTH, ARXC45/60 GATH	ARXC72/ 90GBTH, ARXC96 GATH	AGYA 004/007/ 009/012/ 014GCAH	AGYE 004/007/ 009/012/ 014GCAH	ABYA 12/14/18/ 24GATH	ABYA 30/36/45/ 54GATH	ASYA 004/007/ 009 GTAH	ASYE 004/007/ 009 GTAH	ASYA 012/014 GCAH	ASYE 012/014 GCAH	ASYA 18/24 GBCH	ASYA 030/034 GTAH
Hum Sens	nan sor Kit	10					● SHZXC															
Rem Sens Unit	102	New amenity space can be offered by installing the Remote sensor.								● UTY-XSZX												
Cass Grill	sette e	UTG-UFYE-W	UTG- UFYE-W UTG-			UTG-U	IKYC-W IKYA-B															
		UTG-UKYC-W UTG-UKYA-B	UFYC-W				-															
Auto Louv Grill								UTD-G	EXTA-W TB-W(18) TC-W(24)													
Long	g Life er									UTD- LF25NA	UTD- LF60KA											
Flan	ige	0—								UTD- SF045T UTD- RF204						UTD- RF204						
Drai Pum Unit	ıp 📗									UTZ- PX1NBA						UTR- DPB24T						
Wide Pane	e el	Indoor unit 950 600 Panel (mm)		UTG-A	KXA-W	l .	KXA-W															
Pani Spai		(mm) 242 Panel spacer		UTG-B	KXA-W GYA-W	l .	KXA-W															
	h Air ke Kit	For Compact For Cassette Cassette	UTZ- VXAA		• VXRA	l .	VXRA															
Air C Shul Plat		For Compact Cassette For Cassette	UTR- YDZB		-YDZK	l .	YDZK															
for h	lation ligh nidity	For Compact Cassette type / Cassette type	UTZ- KXGC	UTZ- KXRA	UTZ- KXRA	l .	● KXRA															
Half Cond Kit	cealed	This kit is used to half conceal floor type indoor											1	-STA								

For Cassette type

OPTIONAL PARTS

Controllers For Individual Control Wired Remote Controller (Touch Panel) **Wired Remote Controller** Simple Remote Controller UTY-RNRYZ2 UTY-RLRY UTY-RSRY With operation mode $\begin{array}{c|c} \text{Office BT} & \text{for 10 sites} \\ \hline \text{Mode} & & \text{Set Temp.} \\ \hline \text{Cost} & & \text{26.0}_{\odot} \\ \hline \end{array} \begin{array}{c} \text{For.} \\ \text{Auto} \\ \end{array}$ **Simple Remote Controller Wireless Remote Controller IR Receiver Unit** UTY-RHRY UTY-LNHY UTB-YWC For All Duct types except Large Airflow Duct Without operation mode **IR Receiver Unit Human Sensor Kit** UTY-LRHYB1 UTY-SHZXC

For Circular Flow Cassette type



Convertors / Adaptors

For External device



Network Convertor for LonWorks® UTY-VLGX



MODBUS® Convertor for VRF



MODBUS® Interface

FJ-RC-MBS-1



KNX® Convertor for VRF UTY-VKGX

KNX® Interface FJ-RC-KNX-1i



Wireless LAN Interface

FJ-RC-WIFI-1



Wireless LAN Interface

UTY-TFSXZ1



For System expansion



Drain Pump Unit

UTR-DPB24T

For Ceiling type

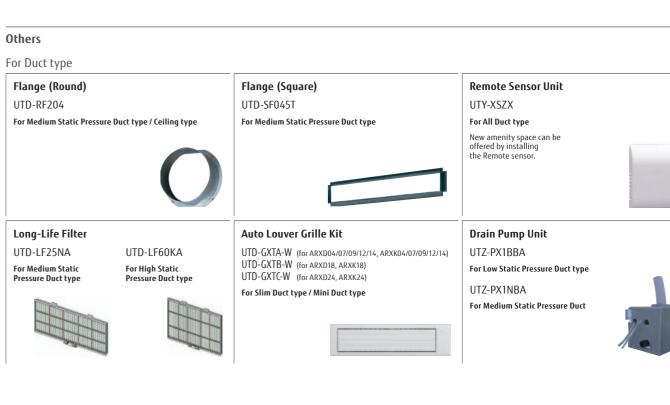
OPTIONAL PARTS

Panels For Cassette type Cassette Grille Cassette Grille Cassette Grille NEW UTG-UFYE-W UTG-UFYC-W UTG-UGYA-W For Compact Grid type For Compact Cassette type For Cassette type Cassette Grille Cassette Grille UTG-UKYC-W UTG-UKYA-B For Circular Flow Cassette type For Circular Flow Cassette type Others For Cassette type Wide Panel **Insulation Kit** for High Humidity **Panel Spacer** UTG-AKXA-W UTG-BGYA-W UTZ-KXRA For Cassette type For Cassette type For Cassette type UTZ-KXGC For Compact Cassette type Panel 600 Panel spacer Fresh Air Intake Kit Air Outlet Shutter Plate Air Outlet Shutter Plate UTZ-VXAA UTZ-VXRA UTR-YDZB UTR-YDZK For Compact For Cassette type For Compact Cassette type For Cassette type Shuts the air outlet when only Shuts the air outlet when only using as 3 blow out. using as 3 blow out. * Not applicable for VRF V-II tropical and V-III tropical series For Ceiling type For Floor type

Half Concealed Kit

This kit is used to half conceal floor type indoor unit into the

UTR-STA
For Floor type



Communication system: External Connect Kit For Indoor unit For Outdoor unit UTY-XWZXZ7 UTY-XWZXZD UTY-XWZXZ6 UTY-XWZXZB UTY-XWZXZE UTY-XWZXZ9 UTY-XWZXZC UTY-XWZXZF For RB unit For Central Remote Controller **For Touch Panel Controller** UTY-XWZXZ6 UTY-XWZXZ7 UTY-XWZXZA UTY-XWZXZB UTY-XWZXZ8 UTY-XWZXZA

FUNCTION LIST

External Input and Output Function/External Connect Kit/Communication Kit

				1		Indoor unit							Indoo					Outd	oor unit			Contr	oller	Other
	Compact Grid type /	Cassette 4-way	Circular Flow	Mini (With drain	Slim (With drain	Medium Static Pressure	High Static	Flo	EEV external	Floor/	 Ceilling	_	EEV external			J-IIIL	J-III	J-IIS	V-III	V-III Tropical	VR-II	Central Remote Controller	Touch Panel Controller	RB Unit
ype	AUXB 04GBLH, AUXB 07/09/12/ 14/18/24 GALH	AUXD 18/24GALH, AUXA 18/24/30/ 34/36/45/54 GALH	AUXM 018/024/030 GLAH, AUXK 018/024/030/ 034/036/045/ 054GLAH	ARXK 04/07/09/ 12/14/18/24 GCLH	ARXD 04/07/09/ 12/14/18/24 GALH	ARXA 24/30/36/45 GBLH	ARXC 36GBTH, ARXC 45/60GATH, ARXC 72/90GBTH, ARXC 96GATH	AGYA 004/007/ 009/012/014 GCAH	AGYE 004/007/ 009/012/014 GCAH	ABYA 12/14/18/24 GATH	ABYA 30/36/45/54 GATH	ASYA 004/007/009 GTAH, ASYA 012/014GCAH	ASYE 004/007/009 GTAH, ASYE 012/014GCAH	ASYA 18/24GBCH	ASYA 030/034GTAH	AJG 072/090/108/ 126/144 LELAH	AJY 040/045/054 LBLAH, AJY 040/045/054 LELAH	040/045/054	AJY 072/090/108/ 126/144/162 LNLBH	AJY 072/090/108/ 126/144/162 LALBH	AJYA 072/090/ 108/126/144 GALH	UTY-DCGY	UTY-DTGYZ1	UTP-RX01AF UTP-RX01BF UTP-RX01CF UTP-RX04BF
Operation / Stop						●UTY-XWZXZD ○UTY-XWZXZB							●UTY-3 OUTY-3	XWZXZD XWZXZB										
All On / All Off																						●UTY-XWZXZ7 ○UTY-XWZXZ8	●*2 ○*2	
Batch Stop																		●UTY:	XWZXZ6					
Forced Stop				1		●UTY-XWZXZD ○UTY-XWZXZB							●UTY-3	XWZXZD XWZXZB										
Emergency Stop						●UTY-XWZXZD ○UTY-XWZXZB							●UTY-3 OUTY-3	XWZXZD XWZXZB				●UTY:	XWZXZ6			●UTY-XWZXZ7 ○UTY-XWZXZ8	●*2 ○*2	
Forced Thermostat off						● UTY-XWZXZE ○ UTY-XWZXZ7							●UTY-3	XWZXZE XWZXZ7										
Low Noise Mode Operation																		●UTY:	XWZXZ6	1				
Cooling/ Heating Priority																		●UTY-XWZXZ6						●UTY-XWZXZ ○UTY-XWZXZ
Outdoor Unit Operation Peak Control																		●UTY:	XWZXZ6					
Power Usage Information from Electricity Meter																		●ИТУ	XWZXZF				●*2 ○*2	
Operation Status						•UTY-XWZXZC							●UTY-	XWZXZC				OUTY	XWZXZ6			ОПТА-Х	WZXZA	
Error Status						●UTY-XWZXZC							●UTY-	XWZXZC				OUTY	XWZXZ6			ОПТА-Х	WZXZA	
Indoor Unit Fun Operation Status						●UTY-XWZXZC							●UTY-	XWZXZC										
Auxiliary Heater Output					●UTY	-XWZXZC																		
Base Heater																	●UTY-XWZXZ9)		●UTY-XWZXZ9	1			

^{*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

SEPARATION TUBE etc.

Connection Units Separation Tube UTP-AX054A UTP-AX180A UTP-AX567A UTP-AX090A Gas Pipe Liquid Pipe UTP-BX567A UTP-BX090A UTP-BX180A UTP-LX180A for DX-Kit Suction Gas Pipe Liquid Pipe Header UTR-H0906L / UTR-H1806L UTR-H0908L / UTR-H1808L UTP-J0906A / UTP-J1806A UTP-J0908A / UTP-J1808A Outdoor Unit Branch Kit UTP-CX567A UTP-DX567A Suction Gas Pipe Discharge Gas Pipe Liquid Pipe EV Kit **RB** Unit UTP-RX01AH / UTP-RX01BH / UTP-RX04BH Model code ≤ 09 : UTR-EV09XB Model code ≤ 09 : UTR-EV09XB Multi type UTP-RX01CH Model code ≥ 12 : UTR-EV14XB Model code ≥ 12 : UTR-EV14XB For Compact Wall Mounted type For Compact Floor type Single type

Specifications

Separation Tube

Model name		UTP-AX054A	UTP-AX090A	UTP-AX180A	ı	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-B	X180A		UTP-BX567A
Total cooling capacity of indoor unit	kW	28.0 or less	28.1 t	0 56.0		56.1 or more

Header

Model name	3-6 Branches	UTR-H0906L	UTR-H1806L
Model Hallie	3-8 Branches	UTR-H0908L	UTR-H1808L
Total cooling capacity of	indoor unit kW	28.0 or less	28.1 to 56.0
	1		
Model name	3-6 Branches	UTP-J0906A	UTP-J1806A
Model Hallie	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)
Model come	2 outdoor units	1	
Model name	3 outdoor units	2	2

EV Kit

Model name	UTR-E	V09XB	UTR-EV14XB					
Application Model	ASYE004GTAH ASYE007GTAH ASYE009GTAH	AGYE004GCAH AGYE007GCAH AGYE009GCAH	ASYE012GCAH ASYE014GCAH	AGYE012GCAH AGYE014GCAH				

RB Unit

Model name			Single type		Multi type
Number of Outdoor unit		UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH
Power source	V/Ø/Hz		230 /	1/50	
Input power	W	17	24	31	96
Number of branches		1	1	1	4
Maximum capacity of connectable indoor units(Q)	kW	Q ≦ 8.0	Q ≦ 18.0	Q ≦ 28.0	Q ≤ 56.0*1
Maximum capacity of connectable indoor units per branch(Q)	kW	Q ≦ 8.0	Q ≦ 18.0	Q ≦ 28.0	Q ≤ 18.0
Maximum number of connectable indoor units per branch		3	8	8	8
Dimensions (H×W×D)	mm	198 × 298 × 268	198 × 298 × 268	198 × 298 × 268	260 × 658 × 428

^{*1:} In case of two RB units connected in series (total 8-branches), maximum capacity of connectable indoor units is up to 56.0kW.

SUPPORT

Our know-how supports you not only during the product release but also from guiding implementation to product maintenance.

AIRSTAGE™ SUPPORT

AIRSTAGE™ / RAC SUPPORT TOOL

QUICK SERVICE & MAINTENANCE

SERVICE TOOL

WEB MONITORING TOOL

Category					Infor	matic	n Ma	iteria	I					To	ol	
	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	Design Simulator (RAC, PAC, VRF)	CFD Simulation	Service Tool / Web Monitoring Tool	Mobile Technician
Product Training	•	•														
Product Information Seek			•	•	•	•	•									
Technical Information Seek							•	•								
Model Selection							•						•			
Design							•		•	•						
Verification														•		
Installation							•				•					
After sales and Service												•			•	•



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

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 AIRSTAGETM Systems
- Control System on-site training

















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

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

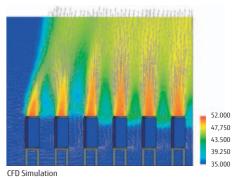
- Product News
- Brochures & All Manuals
- Feature Promotion Movie

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





AIRSTAGE™ /RAC SUPPORT TOOL

Put the charts and pens away and design your projects on your computer with ease using the Design Simulator.

Everything from selecting indoor and outdoor units, allocating controls and optional parts to designing the piping and wiring systems is made easier using the program's built-in features.

Once your project is designed take advantage of the Export functions to easily get materials lists, product specifications, refrigerant calculations and more - it'll even export to Word, Excel, or Acrobat formats, and group the relevant CAD data for your project.

Design Simulator

Automatically create model selection information

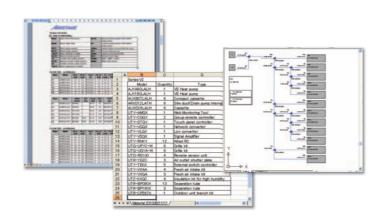
- Each unit can be automatically set by entering the required performance, type, and temperature conditions for each indoor unit and then dragging and dropping into the outdoor unit.
- Piping and wiring diagrams can be created automatically and it is easy to set branches, grouping, and options.
- The additional refrigerant charging amount is automatically calculated when the pipe length is entered.
- It is also easy to set the remote controller groups, central controller and converters.
- The equipment list including the equipment information is created automatically.



Output the format that matches the application

The information specific to your project can be exported in a number of industry standard file formats.

- Word format (rtf)(doc)
- Excel format (csv)
- Acrobat format (pdf)
- Auto CAD format (DXF)
- 2D Data (DXF)3D Data (RFA)



Update your Design Simulator

Database can be easily updated online using AutoUpdate function through FTP.



User side (PC)

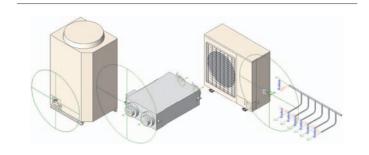
FTP server side (PC)

BIM Building Information Modeling

Fujitsu General provides the Building Information Modeling (BIM) object models and contents for our VRF system and some products to the architect, designer and contractor using Autodesk® Revit® technology from our Website and Autodesk® Seek Website, etc.

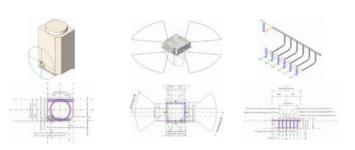
3D and 2D product data

We provide 3D data that closely resemble the actual product appearance. 2D CAD design operations are supported and 2D display is also provided. The data can also be output in other formats, such as DXF and DWG, which are used by other design CAD.



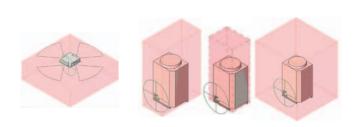
Installation limitation

The equipment installation limitation range is shown. Installation requirements, such as distance from the wall, is automatically displayed to make it easy to produce highly reliable layout designs.



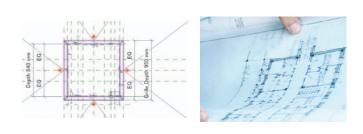
Update your Design Simulator

Other information, such as symbols showing the airflow direction that are required for installation drawings, is built in and can be automatically reflected in 2D drawings. Installation drawings can be created easily.



Product specifications & link information

Contains the basic information required for air conditioner design, including unit size, capacity, input power, noise, and airflow rate. These data can be procured from the Fujitsu General Website, Design Simulator, and Autodesk® Seek Website.



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.

Mobile troubleshooting tool for iPhone & Android



We will release an App of troubleshooting tool for iPhone, iPod touch and other Apple products. This application is a troubleshooting tool for Fujitsu General air conditioner (RAC/PAC, VRF)

It helps you to check air conditioner condition. Error code check, Troubleshooting, and Sensor check are available.



Easy maintenance & monitoring

Design for easy maintenance

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.









Unit

Error diagnosis by Service Tool

Error diagnosis by Service Tool
The unit status details for VRF s

The unit status details for VRF system can be checked on PC screen by connecting Service Tool.

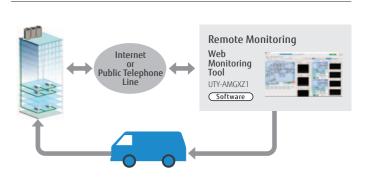
Quick countermeasures can be taken

- Operation status/control
- Monitoring operating condition
- Monitoring sensor data
- Indication of trend graph
- Error history
- Indication of refrigerant circuit diagram
- Automatic operation check for refrigeration cycle

Refrigerant piping USB adaptor (Locally purchased) USB adaptor (Locally purchased) UTY-ASGXZ1 Software

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.



SERVICE TOOL

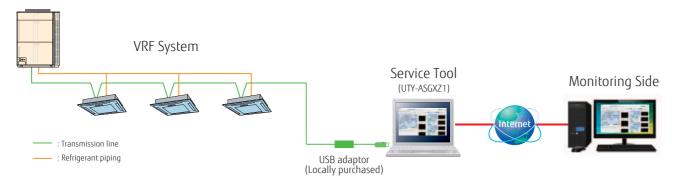
UTY-ASGXZ1

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)

Functions

System Over View



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.





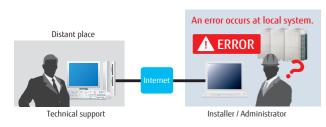


- Discharge temperature normal value
- ☑ Super heat volume normal value ○K ☑ High pressure pipe normal value ○K
- Low pressure pipe normal value OK

DK P

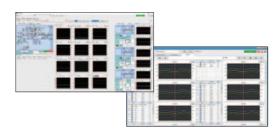
Remote technical support & maintenance

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.

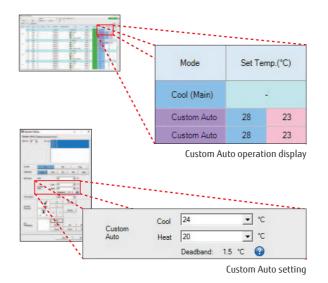


Various trend graph display

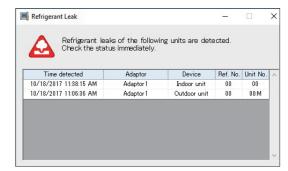
Previously, only 3 kinds of each sensor value can be displayed. However, multiple graphs can be displayed in new Service Tool depending on the situation. The refrigeration cycle can be checked in detail.



NEW Custom Auto Function



NEW Refrigerant leakage detect Function



Refrigerant leak alart display

Function summary

	UTY-ASGXZ1
Interchangeability of equipment	•
Indication of equipment list	•
Operation control	•
Indication of refrigerant circuit diagram	•
Commissioning tool	•
Storage and CSV output of operating history (sensor data)	•
Indication of trend graph	•
Printing of trend graph	•
Monitoring and screen display of abnormalities	•
E-mail automatic transmission of abnormalities	=
Network Topology Analyzer	•
Remote Setting	•
System Time Setting	•
Central Release	•
Model Name Writer	•
Error Memory Reader	•
Time Guard Information	•
Automatic operation check for refrigeration cycle	•
Many different kinds of graph display	•
Automatic update of software	•
NEW Custom Auto function	•
NEW Display of individual louver control function	•
NEW Display of human sensor control function	•
NEW Refrigerant leakage detect function (Europe only)	•

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)
СРИ	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 x 768 or higher resolution
Interface	USB port for U10 USB Network Interface and Software protection key
Software	Internet Explorer® 11 or Microsoft Edge
•Echelon® U10 USB Network	Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

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	NACKING LIJI?				
	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

WEB MONITORING TOOL

UTY-AMGXZ1

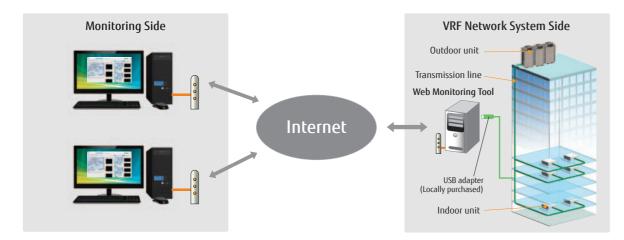
Product features

- 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.

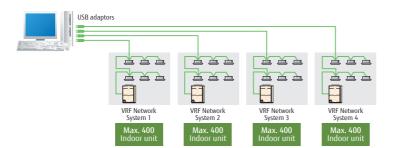
Functions

Web Monitoring System

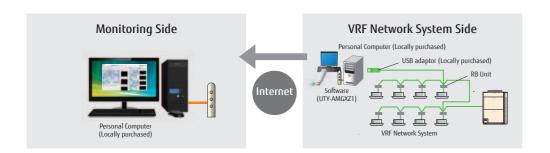


Support 4 VRF network systems

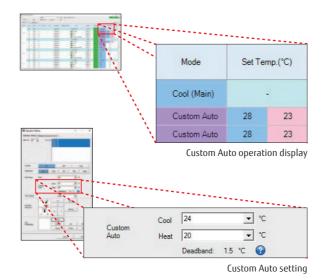
USB adaptor (max. 4 adaptors per PC) permit, monitoring of up to 1,600 indoor units.
Suitable for large-scale buildings or hotels.



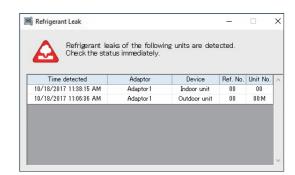
System components



NEW Custom Auto Function



NEW Refrigerant leakage detect Function



Refrigerant leak alart display

Function summary

	UTY-AMGXZ1
Interchangeability of equipment	•
Indication of equipment list	•
Operation control	•
Indication of refrigerant circuit diagram	•
Commissioning tool	•
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Printing of trend graph	•
Monitoring and screen display of abnormalities	•
E-mail automatic transmission of abnormalities	•
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Remote Setting	•
System Time Setting	•
Central Release	•
Model Name Writer	=
Error Memory Reader	-
Time Guard Information	•
Automatic operation check for refrigeration cycle	-
Many different kinds of graph display	•
Automatic update of software	•
NEW Custom Auto function	•
NEW Display of individual louver control function	•
NEW Display of human sensor control function	•
NEW Refrigerant leakage detect function (Europe only)	•

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 x 768 or higher resolution	
nterface	USB port (for 10 USB Network Interface Max.4, Software protection key) Either of the following interface is required for remote connection: - Public Telephone Line: Modem is required Internet using LAN: Ethement port is required	
Software	Internet Explorer® 11 or Microsoft Edge	

<PACKING LIST>

VI ACKING LIST	TACKING 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





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