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CREATION OF COMFORT

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 **LARGE** BUILDING



Heat Recovery Modular type for simultaneous heating and cooling

AIRSTAGE VR-II

8 HP - 48 HP 34 Models

P34~



Heat Pump Modular type for heating or cooling operation

AIRSTAGE V-III

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

P42~



For **SMALL** BUILDING



Heat Pump type for heating or cooling o

AIRSTAGE J-IIIL

8 HP - 12 HP 3 Models

P48~



Heat Pump type for heating or cooling

AIRSTAGE J-III

4 HP - 6 HP 6 Models

P52~



Heat Pump type for heating or cooling operation

AIRSTAGE J-TIS

4 HP - 6 HP 3 Models

P56~

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VENTILATION

OUR SOLUTION FOR ALL

PROPERTIES

Fujitsu General provides the best solutions suitable for properties.

Solution Point



Target Property



LIGHT COMMERCIAL

For Small offices, Hotels, 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.





NEW PRODUCTS

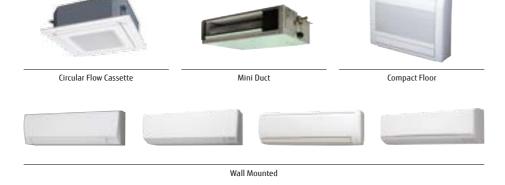
Small VRF AIRSTAGE™ J-IIIL



Indoor Units For Light Commercial

Various indoor units

- 4 types 35 models
- The substantial capacity range and indoor unit type suit to various room size and layout
- 4 types 1.1 kW indoor units



Individual Control

Wired Remote Controller (Touch Panel)

- Easy-to-use and highly-functional controllers
- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.



Simple Remote Controller

- Up to 16 indoor units can be controlled
- Simple design to match the stylish interior.
- Large LCD screen & simple operation buttons





Centralized Control

Touch Panel Controller

- Up to 400 indoor units can be controlled
- Control and monitor Fujitsu's air conditioner via LAN or Internet.
- Easy maintenance & installation



System Controller Software System Controller Lite Software

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.*
- Simple BMS, 3rd party supported by Modbus communication can be controlled.
- *: System controller lite = Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can



Convertor / Adaptor

Various Convertors

• 4 models of hardware and software are put on the market all together. KNX® Convertor











Service & Maintenance Tool

Service Tool & Web Monitoring Tool Software

- Extensive monitoring and analysis functions for installation and maintenance
- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Automatic operation check for refrigeration cycle.



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.



Energy saving solution suitable for meeting rooms and business discussion rooms

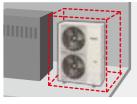
When there are no people in the room, save operation starts automatically to prevent unnecessary power consumption by linking up with a human sensor and external input/output kit.



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







Small VRF System

Up to 12 HP by compact outdoor unit

Small VRF system is suitable for the buildings with many small rooms. Max. 30 indoor units can be connected.





Circular Airflow Cassette blows out in all directions without temperature unevenness



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





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

1.1 kW personal air conditioning





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

Centralized control of both air conditioning and lighting

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

System Controller Lite









HOTELS

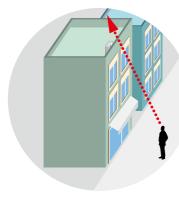
Fujitsu General provides perfect total air conditioning systems that take into account comfort, energy saving, external appearance, safety and easy installation for small low-rise hotels.

AIRSTAGE J-IIL

Appearance-oriented compact outdoor unit

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





Small VRF System

Large space air conditioning in the reception and lobby

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.



System Controller

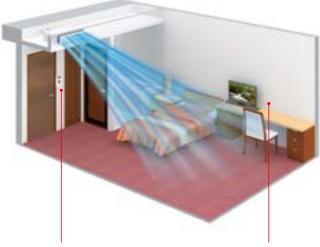
Guest room air conditioning with excellent comfort, energy saving and easy installation

Space saving

Mini duct type with 198 mm height and 450mm 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

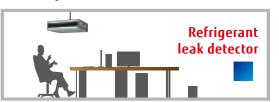
The Auto Louver Grille Kit achieves comfortable airflow by adjusting the air direction.



Simple Remote Controller with sophisticated design

Safety measures

Refrigerant leak detection system is provided. This system detects a refrigerant leak and then sounds an alarm to shut off the leakage.



- Emergency stop in the event of an emergency
- Emergency stop function for each refrigerant system (VRF system)

SHOPS, RESTAURANT & COMPLEX BUILDING Small VRF system

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.

COMPLEX BUILDING





LAN or Wireless LAN





Centralized control of air conditioning for all tenants

Centralized control with simple touch panel operation of scheduled operation by tenant, centralized control and electricity charge apportionment



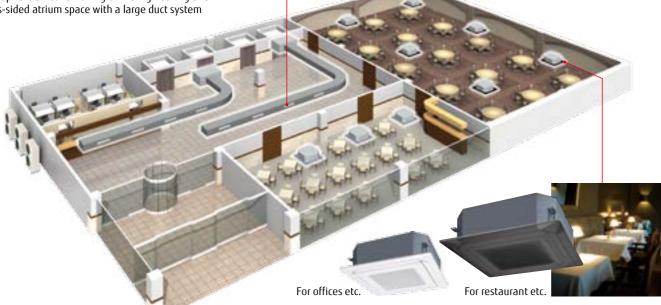
Remote monitoring of air conditioning



High Static Pressure Duct

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

AIRSTAGE

Small VRF system

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.



Medium Static Pressure Duct

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RESTAURANT

LARGE BUILDING

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

Individual air conditioning system for large buildings

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



AIRSTAGE 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

Abundant lineup suitable to match the operating environment

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



Heat Pump Modular type for heating or cooling operation



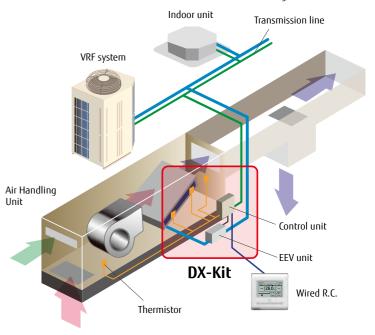
8 HP - 54 HP 39 Models

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

Ventilation(AHU) linked with VRF system

Fujitsu General's DX-Kit enable other manufacture's air handling units(AHU) to be incorporated into a Fujitsu VRF system.

Possible to control comfortable air conditioning and ventilation.





System Controller (UTY-APGXZ1) System Controller Lite

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

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.







AIRSTAGE™ VRF SYSTEMS CAN BE DESIGNED TO CREATE AN AIR CONDITIONING SOLUTION TO SUIT MOST BUILDINGS REQUIREMENTS.

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

HIGH ENERGY EFFICIENCY

MORE COMFORT

HIGH RELIABILITY

DESIGN FLEXIBILITY

EASY INSTALLATION

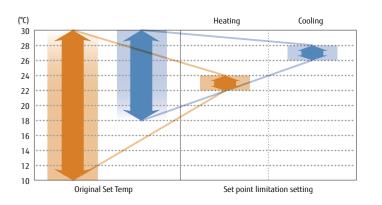
EASY SERVICE & MAINTENANCE



Operation Performance is Efficiently Controlled.

Room temperature set point limitation

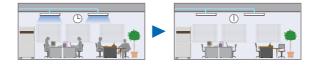
The minimum and maximum temperature ranges can be limited, which provide further energy saving while maintaining the comfort of the occupants.

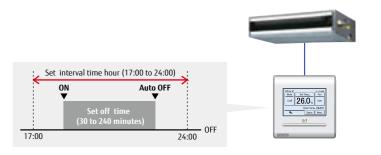


Auto-off timer

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.

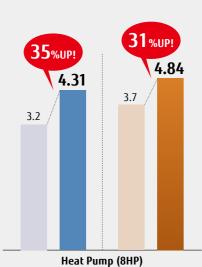




Highly Energy Efficiency

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



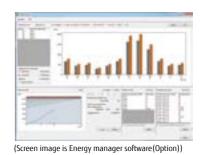


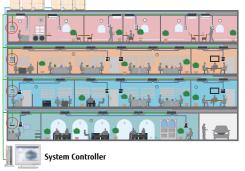


Energy saving management

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

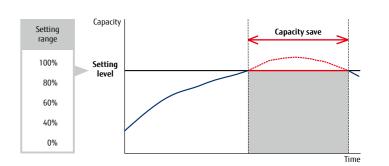
Excellent energy saving operation is performed by using System Controller.





Capacity save operation

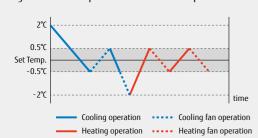
Operation capacity can be set in 5 steps for rated capability. The power consumption at peak is cut down and the maximum load is suppressed.





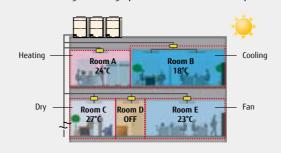
Auto changeover function

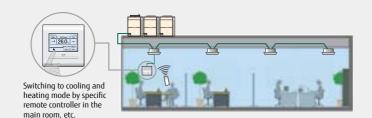
At Auto setting, the cooling/heating mode is automatically switched according to the set temperature and room temperature.



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.

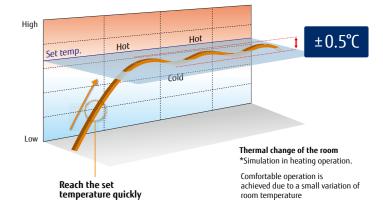
Automatic cooling / heating operation for each room is possible





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.

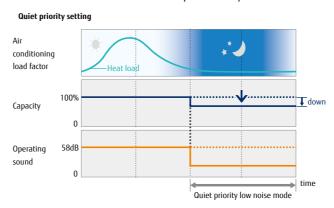


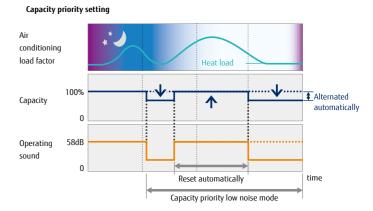
Small capacity indoor unit

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.

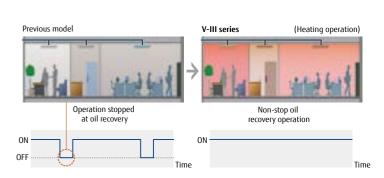




Non-stop oil recovery operation

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

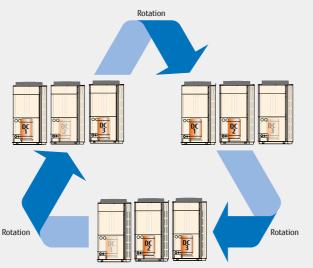
*: AIRSTAGE VR-II series is not available.





Outdoor unit rotational operation

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

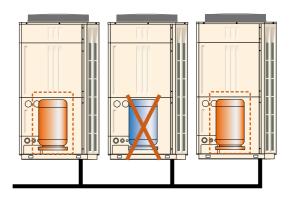


Note: Rotational operation is alternated by the start / stop timing of the compressor.

Backup operation

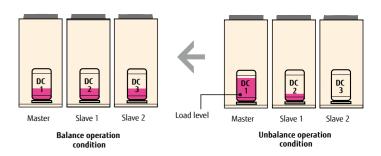
If one compressor fails, backup operation will be performed by the remaining compressors*.

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



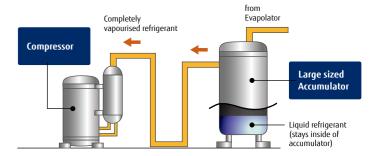
Advanced refrigerant control

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.



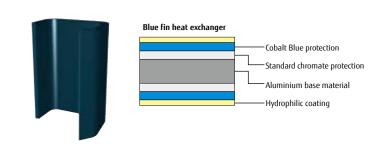
Liquid flow back protection

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 capacity connection



- *1. Conditions of maximum connectable indoor unit capacity ratio is as the chart below.
- *2. Only 4HP is 46%
- *3. Max. capacities in the combinations including the 18HP outdoor unit fall below 150%.

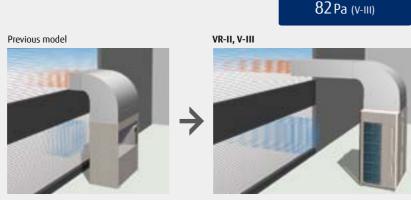
Series		connectable capacity ratio
Selles	Without 1.1kW models	With 1.1kW models*4
VR-II	150%	130%
J-IIIL	150%	150%
J-III	150%	150%
J-IIS	130%	117%

*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%.

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.

Powerful discharge air prevents a short-circuit.

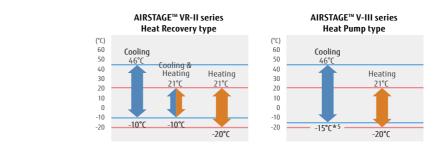


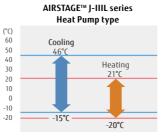
80 Pa (VR-II)

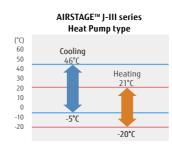
Large diameter fan and DC motor has been utilized allowing an external static pressure of 80Pa to 82Pa. This is approximately 2.6 times greater than the previous model.

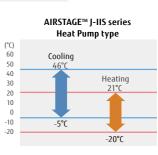
Wide operating range

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









- *5. Note: When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.
- *6. Note: When a multiple outdoor unit connection is used, operating range is from -5°C to 52°C in cooling.

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.



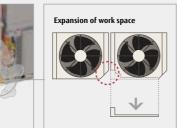
Can be transported in a small elevator



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.

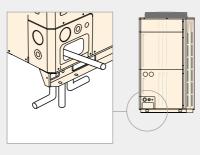






Flexible piping connection

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

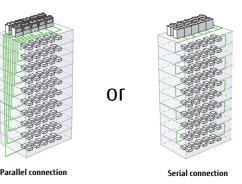




Flexible installation by 4 way pipe direction (J-IIIL is 3 way pipe direction.)

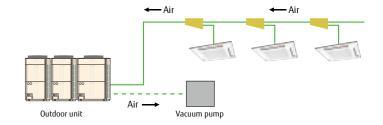
Simple wiring work

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



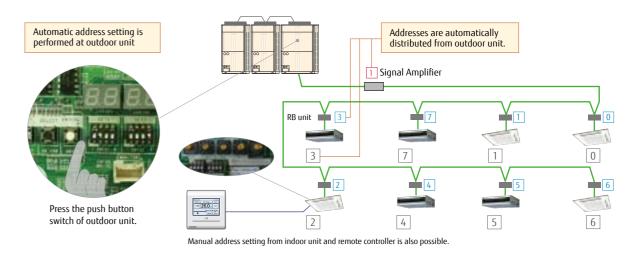
Easy evacuation - using vacuum mode function

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

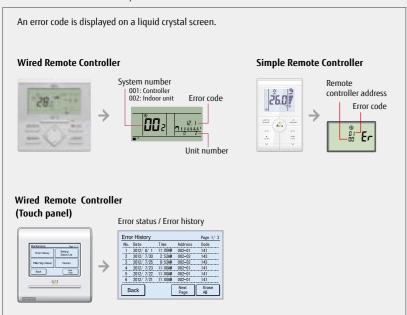
- Operation mode status
- Discharge temperature/Pressure status
- Compressor operation indication
- Address/type/number of outdoor unit

Movable PCB panel

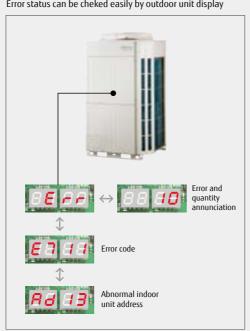
Easier for maintenance work behind the PCB



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



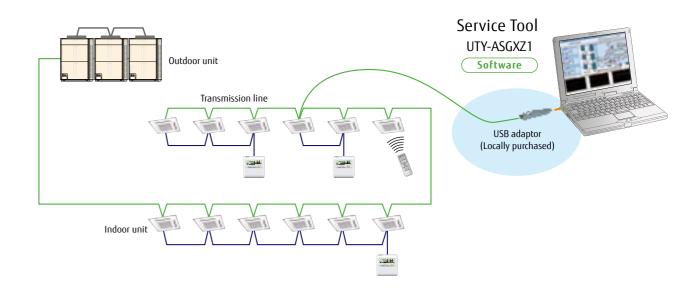
Error status can be cheked easily by outdoor unit display



Error diagnosis by Service Tool

Connection to Service Tool

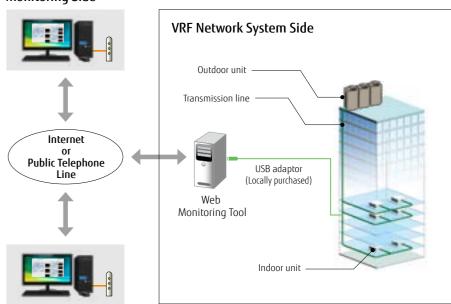
- Detail operation status and recent error history can be checked and analyzed by using the Service Tool.
- Last 5 min. operation memory can be also be recorded.



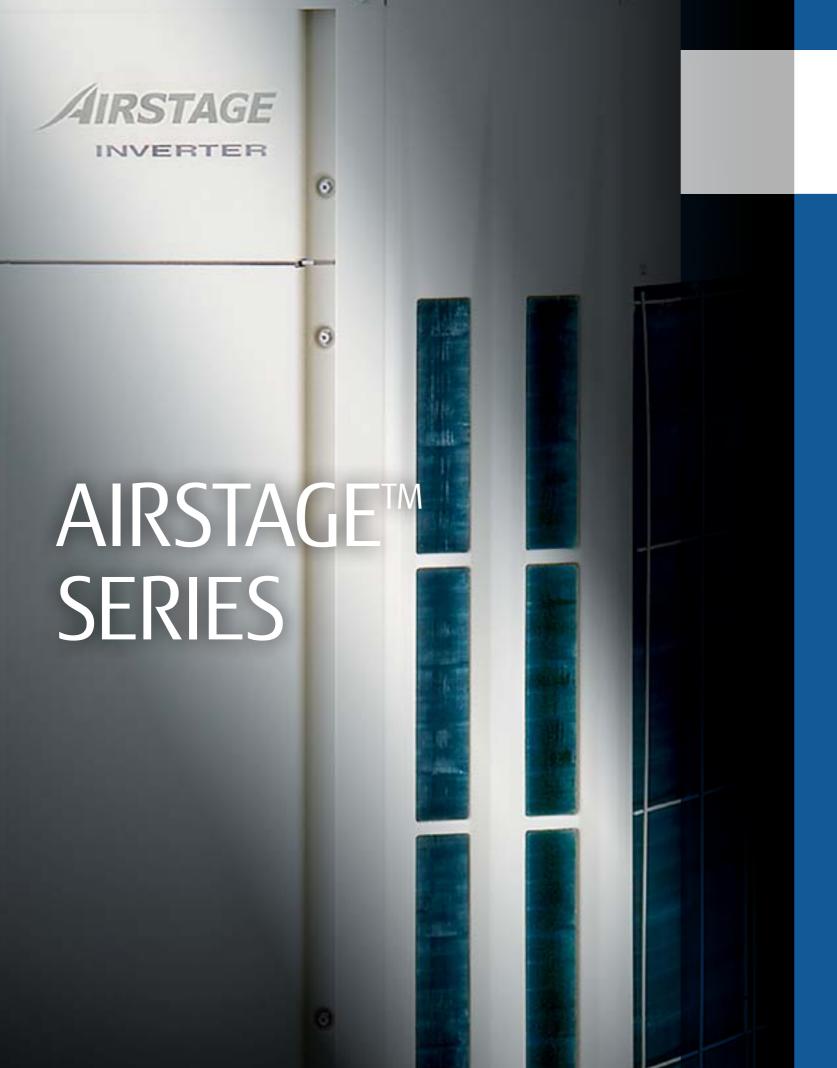
Remote monitoring

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







The AIRSTAGE 5 Series has a total of 85 models to meet the environmental and building size requirements.

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 RECOVERY TYPE AIRSTAGE VR-II

HEAT PUMP TYPE AIRSTAGE V-III

HEAT PUMP TYPE AIRSTAGE J-IIIL

HEAT PUMP TYPE AIRSTAGE J-III

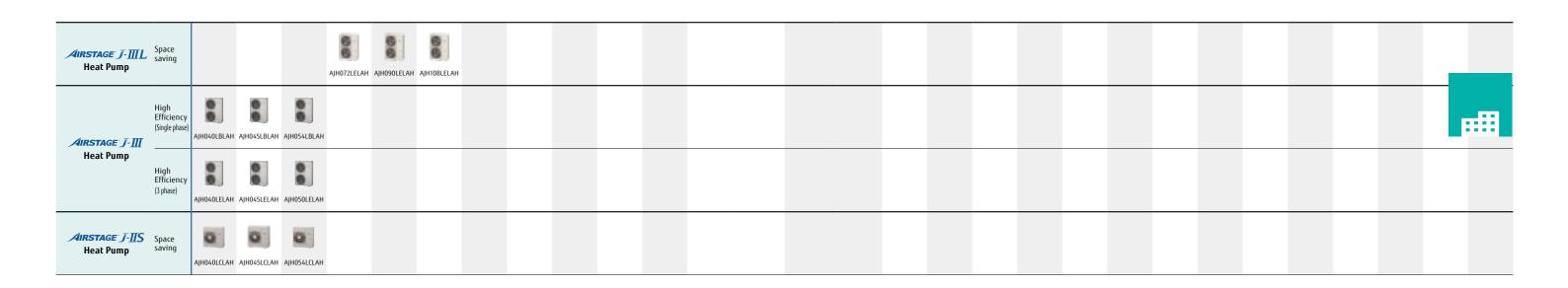
HEAT PUMP TYPE AIRSTAGE J-IIS

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 VR-II	Space saving				AJHA72GALH	AJHA90GALH	AJH108GALH	AJH126GALH	AJH144GALH	AJH162GALH	AJH180GALH	AJH198GALH	AJH216GALH	AJHZ34GALH			AJH288GALH											
Heat Recovery	High Efficiency								AJH144GALHH				AJH216GALHH				AJH288GALHH											
∕AIRSTAGE [√-]][[Space saving				AJH072LALBH	AJH090LALBH	AJH108LALBH	AJH126LALBH	AJH144LALBH	AJH162LALBH			AJH216LALBH	AJH234LALBH			AJH288LALBH								AJH432LALBH	AJH450LALBH	AJH468LALBH	AJH486LALBH
Heat Pump	High Efficiency								AJH144LALBHH	AJH162LALBHH			AJH216LALBHH				AJH288LALBHH						AJH396LALBHH	AJH414LALBHH				



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.

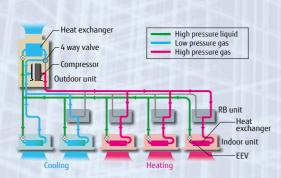
Annual cooling operation

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

Handles changes in the temperature difference

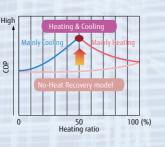
The operation mode can be freely changed when there are large temperature differences during the day, such as between seasons.

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.

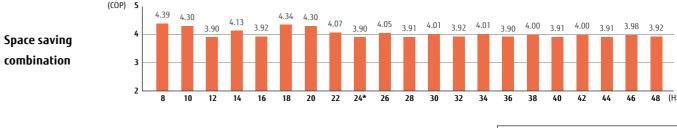
Our Heat recovery systems achieve high operating energy efficiency by drawing heat from the room to be cooled and transferring it as energy for rooms that are to be heated.

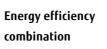


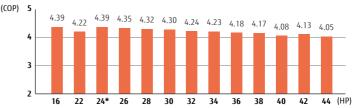
Features

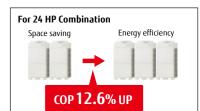
Efficiency in actual operation

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 saving technology that boosted operation efficiency

Powerful large By using CFD*1 tec achieves high perfe

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.



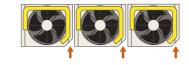
High efficient compressor Large capacity DC inverter compressor

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

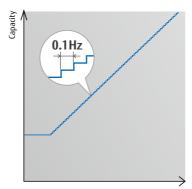
Large capacity DC inverter compressor

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.



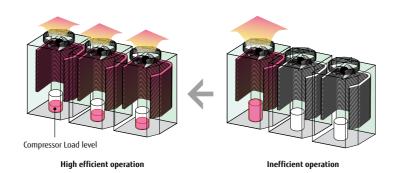
Inverter frequency

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

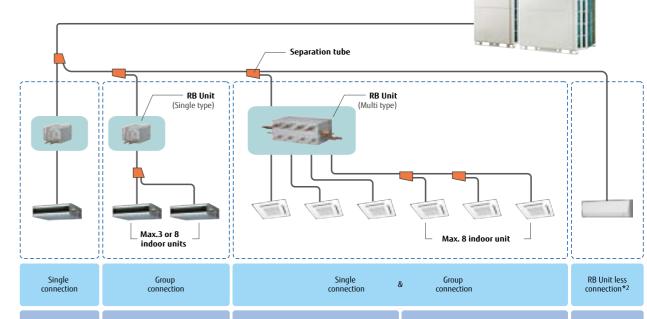
The heat exchanger in the outdoor unit is split into two parts (Top and Bottom). The efficiency of the heat exchanger has been improved by adopting an optimum refrigerant path control where the refrigerant is distributed more into the top heat exchanger as this is where there is a greater air flow intake.



High efficient refrigerant flow control Large intake Small intake Heat exchanger Outdoor unit

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

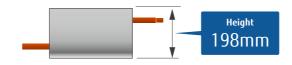
cooling and heating

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

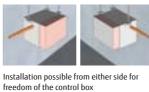
cooling and heating

- 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



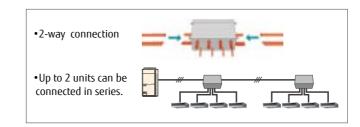
- Small & slim design saves space
- A drain pipe is not required
- The control box position can be changed to meet the installation





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



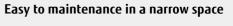


cooling and heating

RB unit (single type)

RB unit (multi type)

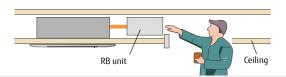
Cooling







- 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.



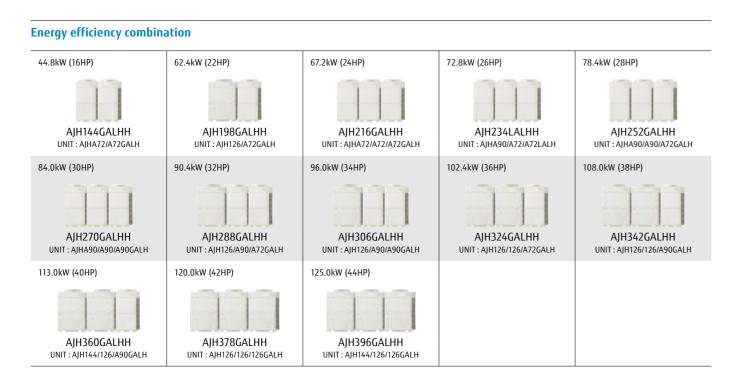
AJH432GALH UNIT : AJH144/144/144GALH

• Combinations other than the followings are not recommended.



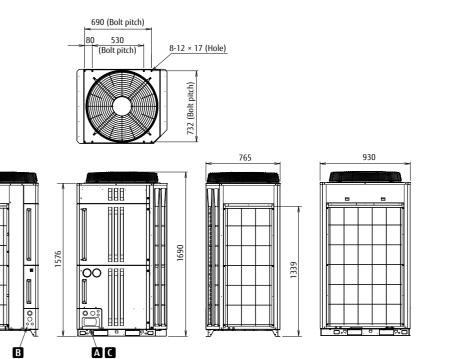
(Unit:mm)

Space saving combination 22.4kW (8HP) 40.0kW (14HP) 45.0kW (16HP) 28.0kW (10HP) 33.5kW (12HP) AJHA72GALH AJHA90GALH AJH108GALH AJH126GALH AJH144GALH UNIT : AJHA72GALH UNIT: AJH126GALH UNIT: AJH144GALH UNIT: AIHA90GAI H UNIT: AIH108GAI H 50.4kW (18HP) 61.5kW (22HP) 73.0kW (26HP) 56.0kW (20HP) 67.0kW (24HP) AJH180GALH AJH198GALH AJH216GALH AJH234GALH AJH162GALH UNIT: AJHA90/A72GALH UNIT: AJHA90/A90GALH UNIT: AJH108/A90GALH UNIT: AJH108/108GALH UNIT: AJH144/90GALH 78.5kW (28HP) 85.0kW (30HP) 90.0kW (32HP) 95.0kW (34HP) 100.5kW (36HP) AJH270GALH AJH288GALH AJH252GALH AJH306GALH AJH324GALH UNIT: AJH108/108/A90GALH UNIT: AJH144/126GALH UNIT: AJH144/108GALH UNIT:AJH144/144GALH UNIT: AJH108/108/108GALH 118.0kW (42HP) 106.5kW (38HP) 112.0kW (40HP) 123.5kW (44HP) 130.0kW (46HP) AJH342GALH AJH360GALH AJH378GALH AJH396GALH AJH414GALH UNIT: AJH144/108/A90GALH UNIT: AJH144/108/108GALH UNIT: AJH144/144/A90GALH UNIT: AJH144/144/108GALH UNIT: AJH144/144/126GALH 135.0kW (48HP)

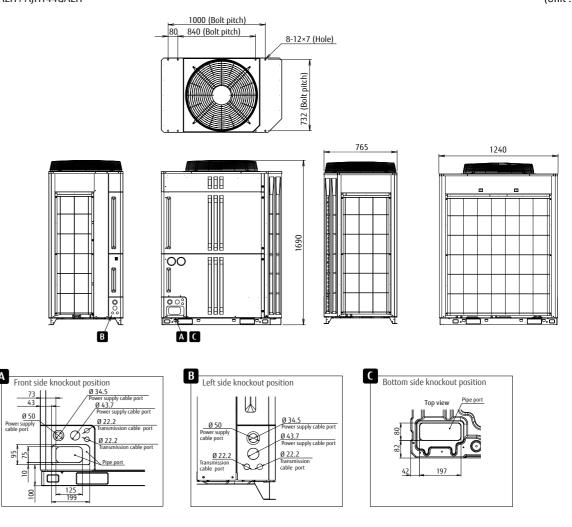


Dimensions

8,10,12HP: AJHA72GALH / AJHA90GALH / AJH108GALH



14,16HP: AJH126GALH / AJH144GALH (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
				Ð									Ĥ										
Model name			AJHA72GALH	AJHA90GALH	AJH108GALH	AJH126GALH	AJH144GALH	AJH162GALH	AJH180GALH	AJH198GALH	AJH216GALH	AJH234GALH	AJH252GALH	AJH270GALH	AJH288GALH	AJH306GALH	AJH324GALH	AJH342GALH	AJH360GALH	AJH378GALH	AJH396GALH	AJH414GALH	AJH432GALH
Unit 1 Unit 2 Unit 3			AJHA72GALH	AJHA90GALH	AJH108GALH	AJH126GALH	AJH144GALH	AJHA90GALH AJHA72GALH	AJHA90GALH AJHA90GALH	AJH108GALH AJHA90GALH	AJH108GALH AJH108GALH	AJH144GALH AJHA90GALH	AJH144GALH AJH108GALH	AJH144GALH AJH126GALH	AJH144GALH AJH144GALH	AJH108GALH AJH108GALH AJHA90GALH	AJH108GALH AJH108GALH AJH108GALH	AJH144GALH AJH108GALH AJHA90GALH	AJH144GALH AJH108GALH AJH108GALH	AJH144GALH AJH144GALH AJHA90GALH	AJH144GALH AJH144GALH AJH108GALH	AJH144GALH AJH144GALH AJH126GALH	AJH144GALH AJH144GALH AJH144GALH
Maximum Connectable I	ndoor 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 ca	oacity 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-	phase 4 wire, 400 V,	50Hz									3-phase 4 wi	re, 400 V, 50Hz	,				-
	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	KW	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
	Cooling	1111	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	kW	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	14/04/	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	W/W	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	ID (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	dB (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 stati	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 outpu	t	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				
	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
Typ Pofrigoraph	e (Global Warming P	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)	R410A (2,088)	R410A (2,088)				
Refrigerant	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		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 diamete	er Discharge Gas	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		-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				
	Cooling/Heating	,	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21				

Energy Efficiency Combination

Rating Capacity rang	ge		HP	16	22	24	26	28	30	32	34	36	38	40	42	44
Model name				AJH144GALHH	AJH198GALHH	AJH216GALHH	AJH234GALHH	AJH252GALHH	AJH270GALHH	AJH288GALHH	AJH306GALHH	AJH324GALHH	AJH342GALHH	AJH360GALHH	AJH378GALHH	AJH396GALHH
Unit 1 Unit 2 Unit 3				AJHA72GALH AJHA72GALH	AJH126GALH AJHA72GALH	AJHA72GALH AJHA72GALH AJHA72GALH	AJHA90GALH AJHA72GALH AJHA72GALH	AJHA90GALH AJHA90GALH AJHA72GALH	AJHA90GALH AJHA90GALH AJHA90GALH	AJH126GALH AJHA90GALH AJHA72GALH	AJH126GALH AJHA90GALH AJHA90GALH	AJH126GALH AJH126GALH AJHA72GALH	AJH126GALH AJH126GALH AJHA90GALH	AJH144GALH AJH126GALH AJHA90GALH	AJH126GALH AJH126GALH AJH126GALH	AJH144GALH AJH126GALH AJH126GALH
Maximum Connecta	ble Indoor Unit	t*1		24	33	36	39	42	45	48	51	54	57	60	64	64
Indoor unit connectabl	le capacity	Cooling	kW	22.4-67.2	31.2-93.6	33.6-100.8	36.4-109.2	39.2-117.6	42.4-126.0	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		44.8	62.4	67.2	72.8	78.4	78.4	90.4	90.4	102.4	108.0	113.0	120.0	125.0
Capacity		Heating	kW	50.0	70.0	75.0	81.5	88.0	88.0	101.5	101.5	115.0	121.5	126.5	135.0	140.0
		Cooling		10.90	16.79	16.35	18.01	19.67	19.67	23.90	23.90	28.13	29.79	32.06	34.02	36.29
Input power		Heating	kW	11.40	16.60	17.10	18.73	20.36	20.36	23.93	23.93	27.50	29.13	31.00	32.70	34.57
EER		Cooling		4.11	3.72	4.11	4.04	3.99	3.99	3.78	3.78	3.64	3.63	3.52	3.53	3.44
СОР		Heating	W/W	4.39	4.22	4.39	4.35	4.32	4.32	4.24	4.24	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	1*2 /	Cooling	4D (A)	59 / 80	61 / 82	61 / 82	62 / 83	62 / 83	63 / 84	63 / 84	64/85	64 / 85	64 / 86	65 / 86	65 / 86	65 / 86
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 s	static pressure		Pa	80	80	80	80	80	80	80	80	80	80	80	80	80
Compressor motor o	utput		kW	7.5×2	11.0+7.5	7.5×3	7.5×3	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3
Heat exchanger fin				Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
		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		765	765	765	765	765	765	765	765	765	765	765	765	765
Weight			kg	262×2	286+262	262×3	262×3	262×3	262×3	286+262×2	286+262×2	286×2+262	286×2+262	286×2+262	286×3	286×3
Refrigerant	Type (Global V	Warming Pot	tential)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
	_	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
Connection pipe dia	_	scharge 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
		uction Gas		28.58	34.92	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27
	_	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	-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
	Cool	oling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

Note: Specifications are based on the following conditions.

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

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

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

^{*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.

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

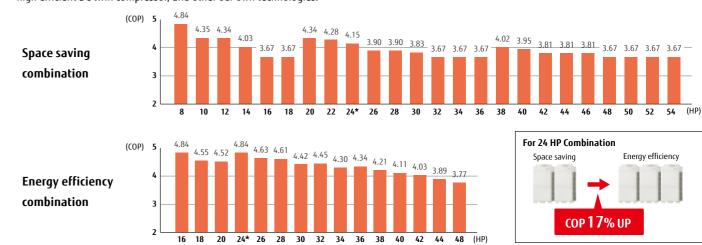
The flexible communication method and piping connections makes installation and maintenance easy even for large systems.

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

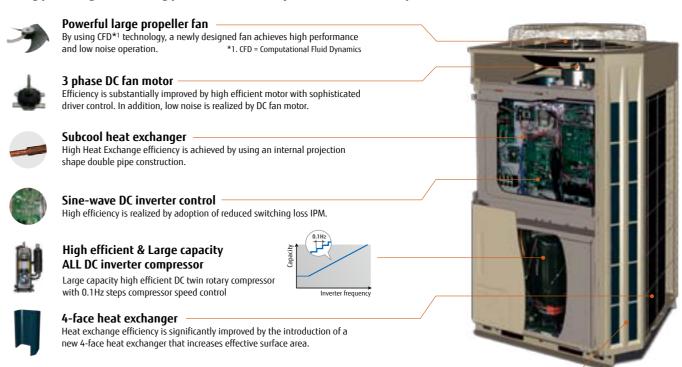
Features

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

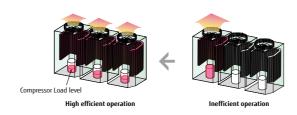


Advanced energy saving control

Multiple outdoor operation control

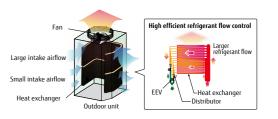
This control method operates all compressors at part load and distributes refrigerant to all heat exchangers to improve the overall system efficiency.

Front intake port (corner cut air inhaling structure)



Heat exchanger refrigerant control

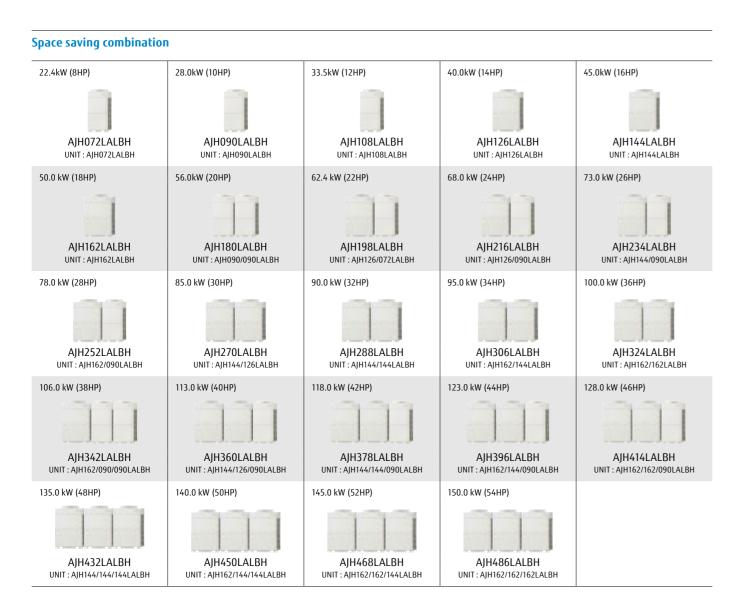
The efficiency of the top and bottom heat exchanger in the outdoor unit has been improved by adopting an optimum refrigerant path

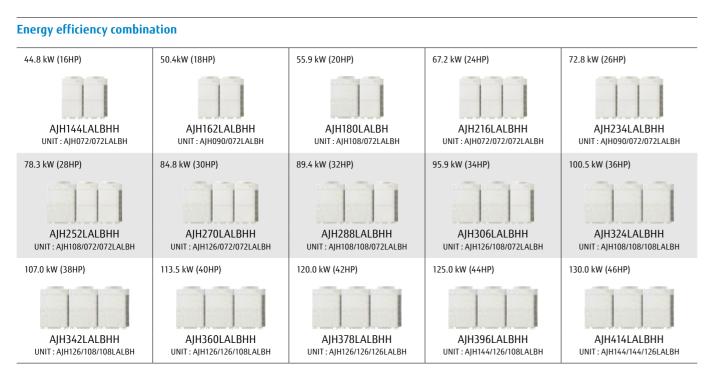


• Combinations other than the followings are not recommended.



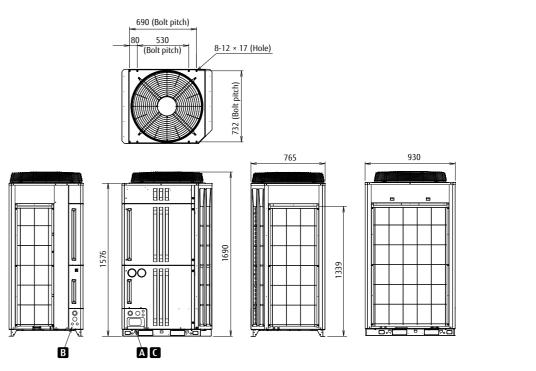
(Unit:mm)



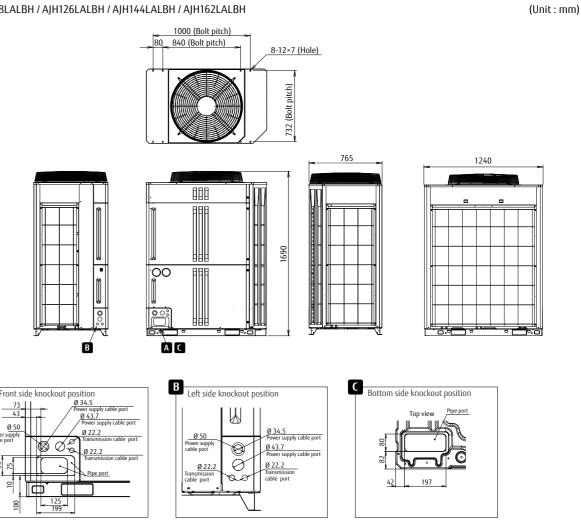


Dimensions

8,10HP: AJH072LALBH / AJH090LALBH



12,14,16,18HP: AJH108LALBH / AJH126LALBH / AJH144LALBH / AJH162LALBH





Space Saving C	Combinatio	n																									
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			AJH072LALBH	AJH090LALBH	H AJH108LALBH	AJH126LALBH	H AJH144LALBH	AJH162LALBH	AJH180LALBH	AJH198LALBH	AJH216LALBH	AJH234LALBH	H AJH252LALBH		AJH270LALBH	AJH288LALBH	AJH306LALBH	AJH324LALBH	AJH342LALBH	AJH360LALBH	AJH378LALBH	AJH396LALBH	AJH414LALBH	AJH432LALBH	AJH450LALBH	AJH468LALBH	AJH486LALBH
Unit 1 Unit 2 Unit 3			AJH072LALBH	AJH090LALBH	H AJH108LALBH	AJH126LALBH	H AJH144LALBH	AJH162LALBH					AJH162LALBH AJH090LALBH	,	AJH144LALBH AJH126LALBH	AJH144LALBH AJH144LALBH	AJH162LALBH AJH144LALBH	AJH162LALBH AJH162LALBH	AJH162LALBH AJH090LALBH AJH090LALBH	AJH144LALBH AJH126LALBH AJH090LALBH	AJH144LALBH AJH144LALBH AJH090LALBH	AJH162LALBH AJH144LALBH AJH090LALBH	AJH162LALBH AJH162LALBH AJH090LALBH	AJH144LALBH AJH144LALBH AJH144LALBH	AJH162LALBH AJH144LALBH AJH144LALBH	AJH162LALBH AJH162LALBH AJH144LALBH	AJH162LALBH AJH162LALBH AJH162LALBH
Maximum Connectable Ind	door 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 capac	city 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	iase 4 wire, 400 \	/, 50Hz			1								3-pl	hase 4 wire, 400 V,	50Hz					
6	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	62.4	68.0	73.0	78.0	<u>'</u>	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	KVV	25.0	31.5	37.5	45.0	50.0	50.0	63.0	70.0	76.5	81.5	81.5		95.0	100.0	100.0	100.0	113.0	126.5	131.5	131.5	131.5	150.0	150.0	150.0	150.0
Input power	Cooling	kW	5.20	7.28	8.96	10.96	13.01	16.56	14.56	16.16	18.24	20.29	23.84		23.97	26.02	29.57	33.12	31.12	31.25	33.30	36.85	40.40	39.03	42.58	46.13	49.68
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
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	0 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	αυ (A)	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 p	oressure	Pa	82	82	82	82	82	82	82	82	82	82	82		82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output		kW	7.5	7.5	11.0	11.0	11.0	11.0	7.5×2	11.0+7.5	11.0+7.5	11.0+7.5	11.0+7.5		11.0×2	11.0×2	11.0×2	11.0×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin		Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin				
	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	(5) 1 1111	kg	252	252	275	275	275	275	252×2	275+252	275+252	275+252	275+252		275×2	275×2	275×2	275×2	275+252×2	275×2+252	275×2+252	275×2+252	275×2+252	275×3	275×3	275×3	275×3
Refrigerant Type ((Global Warming 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) 11.8+11.7		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088) 11.8+11.7×2	R410A (2,088) 11.8×2+11.7	R410A (2,088) 11.8×2+11.7	R410A (2,088) 11.8×2+11.7	R410A (2,088) 11.8×2+11.7	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	11.7 (24.4)	11.7 (24.4)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.7×2 (24.4×2)	(24.6+24.4)	(24.6+24.4)	(24.6+24.4)	(24.6+24.4)		11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	(24.6+24.4×2)	(24.6×2+24.4)	(24.6×2+24.4)	(24.6×2+24.4)	(24.6×2+24.4)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88		19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	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	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46		-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46				
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21				

Energy	Efficienc	y Combin	ation															
Rating Capacit	ty range		HP	16	18	20	24	26	28	30	32	34	36	38	40	42	44	46
									Ũ.									
Model name				AJH144LALBHH	AJH162LALBHH	AJH180LALBHH	AJH216LALBHH	AJH234LALBHH	AJH252LALBHH	AJH270LALBHH	AJH288LALBHH	AJH306LALBHH	AJH324LALBHH	AJH342LALBHH	AJH360LALBHH	AJH378LALBHH	AJH396LALBHH	AJH414LALBHH
Unit 1				AJH072LALBH	,			AJH090LALBH	AJH108LALBH			AJH126LALBH	AJH108LALBH	'	AJH126LALBH	AJH126LALBH	AJH144LALBH	AJH144LALBH
Unit 2 Unit 3				AJHU/2LALBH	AJH072LALBH	AJHU/ZLALBH		AJH072LALBH AJH072LALBH	AJH072LALBH AJH072LALBH	AJH072LALBH	AJH108LALBH	AJH108LALBH AJH072J AJ BH	AJH108LALBH AJH108J AJ BH	AJH108LALBH AJH108LALBH	AJH126LALBH AJH108LALBH	AJH126LALBH AJH126LALBH	AJH126LALBH AJH126LALBH	AJH144LALBH AJH126LALBH
	nectable Indoor	Unit*1		34	39	43	52	56	60	64	64	64	AJITIOOLALDII	AJITTOOEAEBIT	64	64	64	64
Indoor unit conn	nectable 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				I		I	I	3-ph	ase 4 wire, 400 V	5007						3.phaco / win	e, 400 V, 50Hz	
rower source		Cooling		44.8	50.4	55.9	67.2	72.8	78.3	84.8	89.4	95.9	100.5	107.0	113.5	120.0	125.0	130.0
Capacity		Heating	kW	50.0	56.5	62.5	75.0	81.5	87.5	95.0	100.0	107.5	112.5	120.0	127.5	135.0	140.0	145.0
		Cooling		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		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	e level*2 /	Cooling	10 (4)	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 exte	ernal static pres	sure	Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor m	otor 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 exchange	er 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
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 (Glo	bal Warming Po	tential)	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	Ch	arge	kg(CO2eq-T)	11.7×2 (24.4×2)	11.7×2 (24.4×2)	11.8+11.7 (24.6+24.4)	11.7×3 (24.4×3)	11.7×3 (24.4×3)	11.8+11.7×2 (24.6+24.4×2)	11.8+11.7×2 (24.6+24.4×2)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
Connection pig	ne diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
pi	pe didilicter	Discharge Gas		28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27
Operation rand	ne	Cooling	•c	-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 rang	gc	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

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

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

However ARXC72 and ARXC90 can be used signal connection.

^{*2 :} The noise value is the value when measured in an anechoic room. When measured in the actual installed state, surrounding noise and reflections are received and the measured value is usually larger than the indicated value.



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

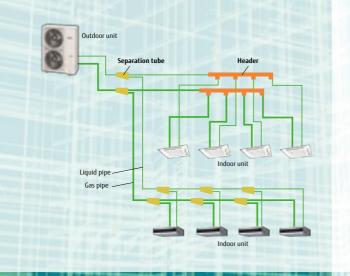
Quiet design

Small Office

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

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.



Current model Compact Design This model is much more compact than conventional 12HP comparable outdoor unit. Inconspicuous installation is available even on the roof. Model / 12HP class Height difference 1,428mm 16% Space area 0.71 m² 227%

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.



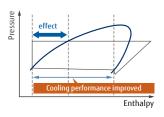
- DC inverter control

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

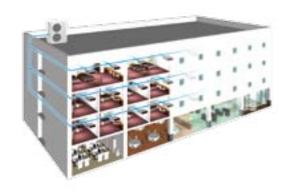
15-120 rps

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.

AIRSTAGE J- IIIL

Long piping capability

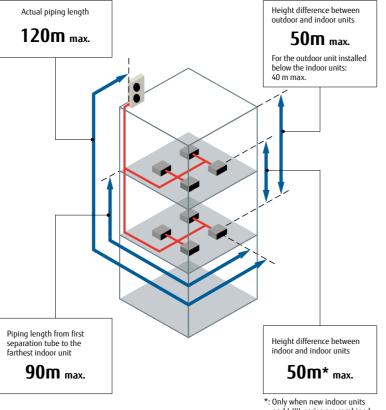
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 400 m. This opens up new possibilities in system design.



Up to 30 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 30 units.

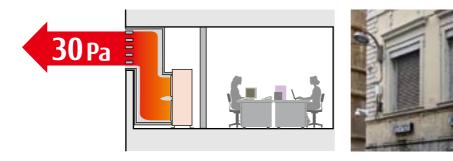
Total pipe length 400m max.



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

High Static Pressure

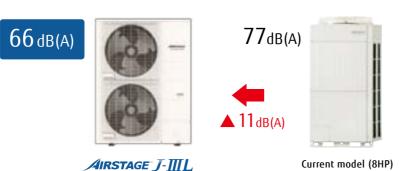
External static pressure is available up to 30 Pa. (only 12HP)



Top Class Low Operating Sound

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

Sound Power level



Specifications

Rating Capac	ity range	HP	8	10	12
Model name			AJH072LELAH	AJH090LELAH	AJH108LELAH
Maximum Co	nnectable Indoor Unit		1-20	1-25	1-30
Power source				3-phase, ~400V, 50Hz	
	Cooling		22.4	28.0	33.5
Capacity	Nominal Heating	kW	22.4	28.0	33.5
	Max Heating	1	25.0	31.5	37.5
	Cooling		6.30	8.59	10.42
Input power	Nominal Heating	kW	4.65	6.61	8.18
Input power No	Max Heating	1	5.45	8.29	10.25
EER	Cooling		3.56	3.26	3.22
con	Nominal Heating	W/W	4.82	4.24	4.10
LOP	Max Heating	1	4.56	3.80	3.66
Air flow rate	·	m3/h	8,400	9,000	11,000
External stati	ic pressure(Max.)	Pa	20	30	30
ER OP Iir flow rate xternal static pressure level / ower level Dimensions Veight Type (c	level / Cooling	10 (4)	52 / 66	54/69	59/73
	Heating	dB (A)	54 /-	57/-	61/-
	Height		1,428	1,428	1,428
Dimensions	Width	mm	1,080	1,080	1,080
	Depth	1	480	480	480
Weight		kg	170	177	178
0 - (-:)	Type (Global Warming F	otential)	R410A (2,088)	R410A (2,088)	R410A (2,088)
kerrigerant	Charge	kg(CO2eq-T)	7.0 (14.6)	7.5 (15.7)	7.5 (15.7)
Connection p	ipe Liquid		9.52	9.52	12.70
diameter	Gas	mm	19.05	22.20	28.58
Total pipe ler	igth		400	400	400
Max. Height	difference	m		50/40 (Outdoor unit: Upper/Lower)	
Operation ran	Cooling	- °c	-15 to 46	-15 to 46	-15 to 46
Operation rar	Heating] '	-20 to 21	-20 to 21	-20 to 21

Note: Specifications are based on the following conditions.

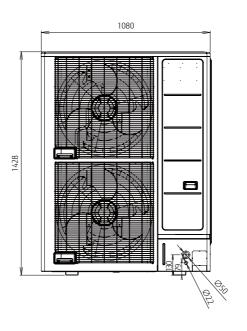
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

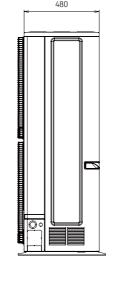
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

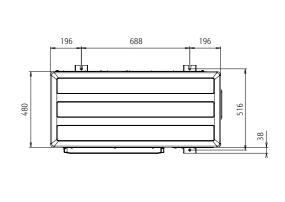
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.

Dimensions

Models: AJH072LELAH / AJH090LELAH / AJH108LELAH







(Unit:mm)



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

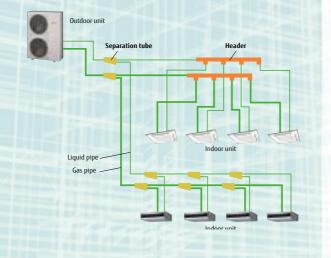
Heat pump inverter control is used to achieve an efficient cooling and heating operation in any indoor unit

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.

Small Office

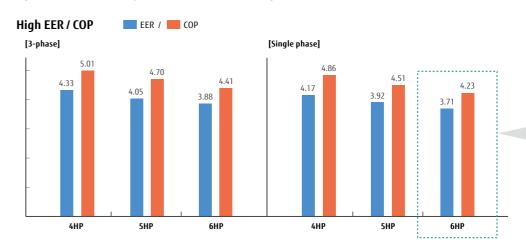
System configuration example

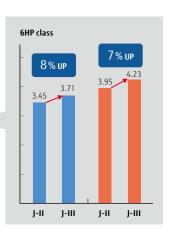
- This system is used for small and medium-sized buildings. 1 refrigerant system is used for each outdoor unit.
- Connection of multiple indoor units using separation tubes and



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



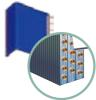
Large propeller fan

High performance and low noise realized by large propeller and optimization of angle.



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 3-row large heat exchanger.



DC twin rotary compressor

Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.

DC Twin Rotary compresso Compressor capacity



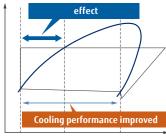
DC inverter control

Efficiency is improved by mounting of new active filter module.



Subcool heat exchanger

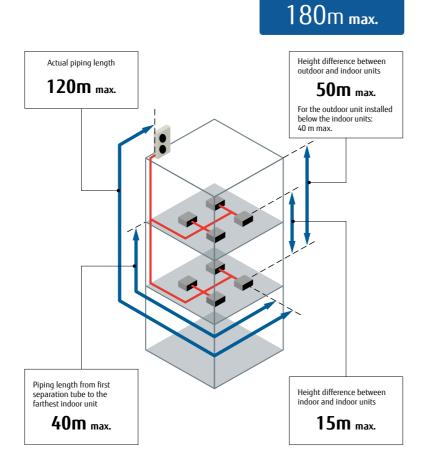
Cooling performance is improved by mounting of dual tube heat exchanger.



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.

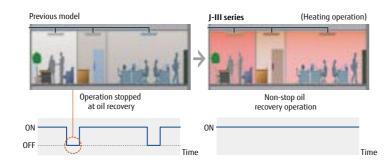




Total pipe length

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 Capacity	y range	HP	4	5	6	4	5	6
Model name			AJH040LBLAH	AJH045LBLAH	AJH054LBLAH	AJH040LELAH	AJH045LELAH	AJH054LELAH
Maximum Conr	nectable Indoor Unit		1-9	1-10	1-13	1-9	1-10	1-13
Power source				Single-phase, ~230V, 50H	łz		3-phase, ~400V, 50Hz	I.
	Cooling	1,,,,	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	Law	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			6,200	6,400	6,900	6,200	6,400	6,900
Sound pressure le	vel / Cooling	4D (A)	50 / 66	51 / 67	53 / 69	50 / 66	51 / 67	53 / 69
Power level	Heating	dB (A)	52 / 68	AjH045LBLAH 1-10 1-10 1-13 Single-phase, ~230V, 50Hz 14.0 15.5 16.0 18.0 3.57 4.18 3.55 4.26 3.92 3.71 4.51 4.51 4.23 6,400 6,900 51/67 53/69 53/69 53/69 55/71 58lue fin Blue fin Blue fin Blue fin Blue fin 1,334 1,334 970 970 970 370 370 117 119 R410A (2,088) R410A (2,088) R410A (2,088) S3 (11.1) 9.52 9.52 15.88 19.05 180 40 (Outdoor unit: Upper/Lower) -5 to 46 -5 to 46 -5	52 / 68	53 / 69	55 / 71	
Heat exchange	r 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		370	370	370	370	370	370
Weight		kg	117	117	119	119	119	119
D - (-:)	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 pip	e 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 leng	th		180	180	180	180	180	180
Max. Height di	fference	— m	50/4	0 (Outdoor unit: Upper/L	ower)	50/4	0 (Outdoor unit: Upper/L	ower)
0	Cooling	• • • • • • • • • • • • • • • • • • • •	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
Operation rang	e 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.

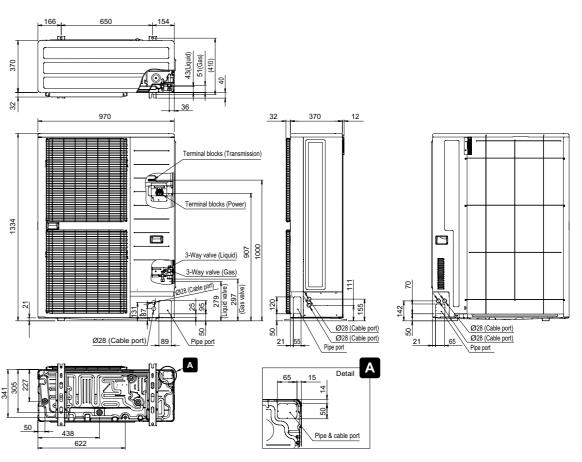
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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: AJH040LBLAH / AJH045LBLAH / AJH054LBLAH / AJH040LELAH / AJH045LELAH / AJH054LELAH



(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

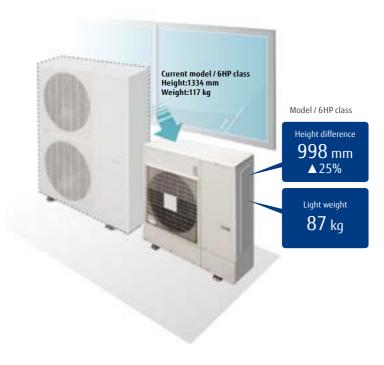
Economical individual air conditioning is realized by ALL-DC technology, large capacity DC twin rotary compressor, and 3-row heat exchanger though the size is compact.

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.

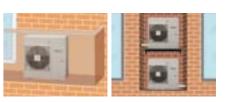
Large Homes System configuration example

It Can be Easily Carried and **Installed Obscure Place**



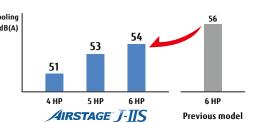
Small and light weight outdoor unit

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



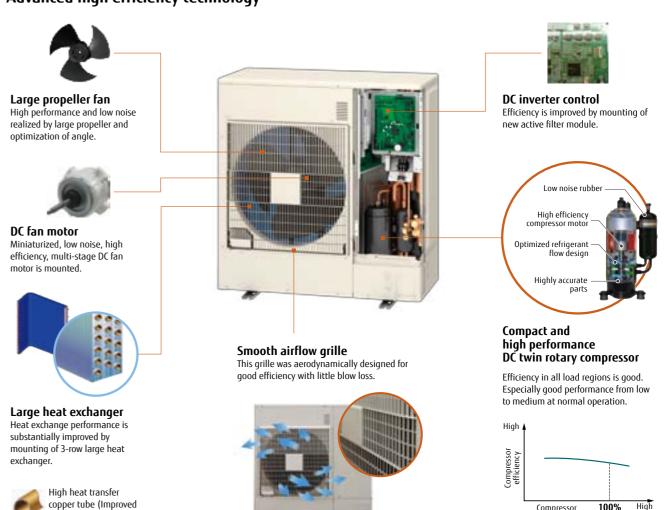
Low sound level design

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



Advanced high efficiency technology

lead angle)



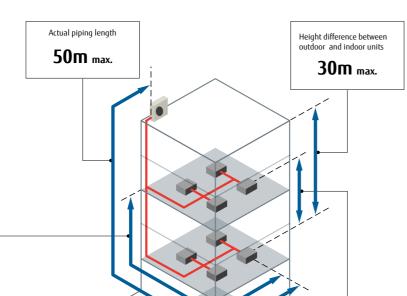
100%



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.





Total pipe length

80m max.

Height difference between indoor and indoor units

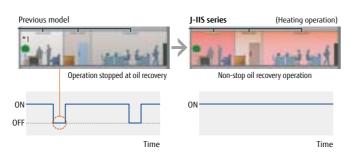
15m max.

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.

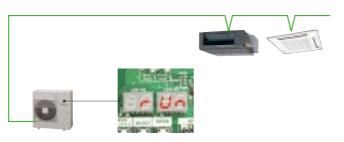
Piping length from first separation tube to the farthest indoor unit

40m max.



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 Capaci	ty range		HP	4	5	6
Model name				AJH040LCLAH	AJH045LCLAH	AJH054LCLAH
Maximum Cor	nectable	Indoor Unit		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
		Cooling	1,,,,	3.44	4.43	5.03
Input power		Heating	- kW	3.09	3.93	4.11
EER		Cooling		3.52	3.16	3.00
СОР		Heating	W/W	4.40	4.07	4.01
Air flow rate			m3/h	4,040	4,200	4,200
Sound pressure	oressure level / Cooli evel Heati xxchanger fin	Cooling	4D (A)	51 / 67	53 / 69	54 / 70
Power level		Heating	dB (A)	54 / 68	4.43 3.93 3.16 4.07 4,200 53/69 55/69 Blue fin 998 970 370 86 R410A (2,088)	56 / 70
Heat exchang	er fin			Blue fin	Blue fin	Blue fin
		Height		998	998	998
Dimensions		Width	mm	970	970	970
		Depth	7	370	370	370
Weight			kg	86	86	87
0 - (-:)	Type (Glo	bal Warming	Potential)	R410A (2,088)	R410A (2,088)	R410A (2,088)
Refrigerant -	Cl	harge	kg(CO2eq-T)	4.0 (8.4)	4.0 (8.4)	4.0 (8.4)
Connection pi	pe	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 d	ifference		m m	30	30	30
On ocabion can		Cooling	-°c	-5 to 46	-5 to 46	-5 to 46
Operation ran	ge	Heating	7 '	-20 to 21	-20 to 21	-20 to 21

Note : Specifications are based on the following conditions.

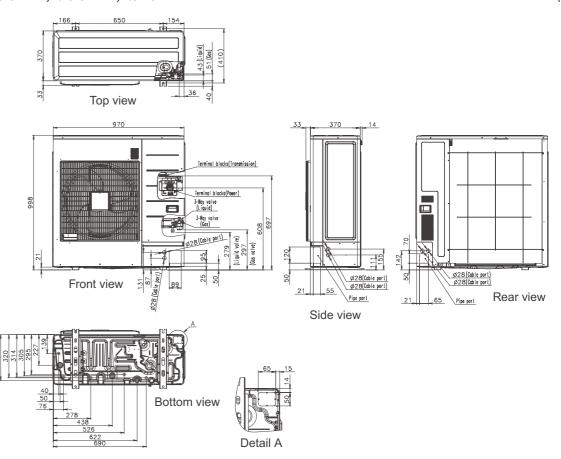
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.

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

Dimensions

Models: AJH040LCLAH / AJH045LCLAH / AJH054LCLAH

(Unit:mm)





16 Types and 97 models available to meet the requirements of any building design.

The AIRSTAGE indoor units were developed to be highly efficient, compact, low noise and to have user friendly operation. With a variety of indoor units and capacities available, Fujitsu General has an indoor unit to match any requirement which is easy to install and maintain.

Further, a variety of options are available to achieve an air conditioning environment that is more desirable from the user's perspective.

INDOOR UNITS LINE-UP

4-way Flow Compact Cassette

4-way Flow Cassette

Circular Flow Cassette

Mini Duct

Slim Duct / Slim Concealed Floor

Low Static Pressure Duct / Concealed Floor

Medium Static Pressure Duct

High Static Pressure Duct

Large Airflow Duct

Compact Floor

Floor / Ceiling

Ceiling

Compact Wall Mounted / Wall Mounted

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. 16 types, 97 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
	4-way Flow Compact	AUXB04GBLH	AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH	AUXB18GALH	AUXB24GALH									
	(Slim type) 4-way Flow						AUXD18GALH	AUXD24GALH									
Cassette	(Large type)						AUXA18GALH*3	AUXA24GALH* ³	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH				
	(Slim type)						AUXM018GLAH	AUXM024GLAH	AUXM030GLAH								
	(Large type)						AUXK018GLAH	AUXK024GLAH	AUXK030GLAH	AUXK034GLAH	AUXK036GLAH	AUXK045GLAH	AUXK054GLAH				
	Mini Duct (With drain pump)	ARXK04GCLH	ARXK07GCLH	ARXK09GCLH	ARXK12GCLH	ARXK14GCLH	ARXK18GCLH	ARXK24GCLH									
	Slim Duct (With drain pump)	ARXD04GALH* ³	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH	ARXD18GALH	ARXD24GALH									
	Low Static Pressure Duct		ARXB07GALH	ARXB09GALH	ARXB12GALH	ARXB14GALH	ARXB18GALH	ARXB24GALH	ARXB30GALH		ARXB36GALH	ARXB45GALH					
Duct	Medium Static Pressure Duct							ARXA24GBLH	ARXA30GBLH		ARXA36GBLH	ARXA45GBLH					
	High Static Pressure Duct										ARXC36GBTH	ARXC45GATH		ARXC60GATH*1	ARXC72GBTH*1	ARXC90GBTH*1	ARXC96GATH*1
	(Compact type) Large Airflow Duct						ARXN018GLBH* ⁴	ARXN024GTBH*4	ARXN030GTBH*4								
	(Large type)						ARXN18GATH*2	ARXN24GATH*2	ARXN30GATH*2	ARXN34GATH*2	ARXN36GATH*2	ARXN45GATH*2					
	Floor (Same as Ceiling models)				ABHA12GATH	ABHA14GATH	ABHA18GATH	ABHA24GATH									
Floor	Slim Concealed Floor (Same as Slim Duct models)	ARXD04GALH	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH	ARXD18GALH	ARXD24GALH									
	Concealed Floor (Same as Low Pressure Static Duct Models)		ARXB07GALH	ARXB09GALH	ARXB12GALH	ARXB14GALH	ARXB18GALH										
	Compact Floor	AGHA004GCAH	AGHA007GCAH	AGHA009GCAH	AGHA012GCAH	AGHA014GCAH											
Ceiling	Ceiling				ABHA12GATH	ABHA14GATH	ABHA18GATH	ABHA24GATH	ABHA30GATH		ABHA36GATH	ABHA45GATH	ABHA54GATH				
	Compact Wall Mounted (EEV internal)		ASHA07GACH	ASHA09GACH	ASHA12GACH	ASHA14GACH											
Wall Mounted	Wall Mounted						ASHA18GACH	ASHA24GACH	ASHA30GACH								
	To shounce	ASHA004GTAH	ASHA007GTAH	ASHA009GTAH	ASHA012GCAH	ASHA014GCAH	ASHA18GBCH	ASHA24GBCH	ASHA030GTAH	ASHA034GTAH							

^{*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.

4-way Flow Compact Cassette

Models

AUXB04GBLH AUXB07GALH

AUXB09GALH

AUXB12GALH

AUXB14GALH AUXB18GALH

AUXB24GALH

Feature

2-stage turbo fan

High efficiency design by 2 stage structure

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



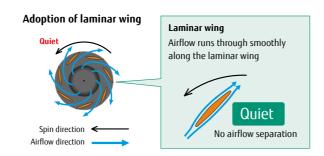


Previous turbo fan In the case of a previous fan, the air outlet range was narrow as the airflow moved to the motor side which meant the velocity of air passing through the heat exchanger was uneven.

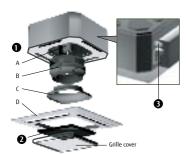


Quiet quality

Optimization of wing form (laminar wing type) and wing number (7 blades each) Designed by CFD-analysis (fluid) simulations



Improvement of the airflow distribution



Maintenance of fan motor and fan

Maintenance of the fan motor and fan can be done easily after taking off the panel as the bell mouth of the fan can be removed easily.

A: Fan motor B: 2-stage turbo fan C : Bell-mouth D : Panel

2 Air filter : standard equipment

3 Adaptation of transparent drainage parts

During installation, maintenance and operation, the drain pump and kit can be checked easily.

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 from floor to ceiling (m)							
Model code	Standard mode	High ceiling mode						
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						

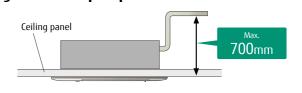


Compact design

Worlds first 24,000Btu model in the compact cassette category (Easy installation by taking off ceiling panel of 600 x 600 size)



High lift drain pump



Optional parts

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

Specifications

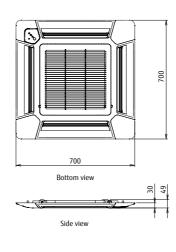
Model name			AUXB04GBLH	AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH	AUXB18GALH	AUXB24GALH			
Power source					Sir	ngle - phase, ~230V, 50	Hz					
Capacitu	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1			
Capacity	Heating	KVV	1.3	2.8	3.2	4.1	5.0	6.3	8.0			
Input power		W	23	25	25	29	35	36	84			
	High		530	540	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			
	Low	(* 1)	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 × 570			
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	12.70	12.70	12.70	12.70	12.70	15.88	15.88			
Drain hose diameter (I.D./O.D.)			25/32									
	Model name		UTG-UFGC-W									
Cassette Grille	Dimensions (H×W×D)	mm		50 × 700 × 700								
	Weight	kg	2.6									

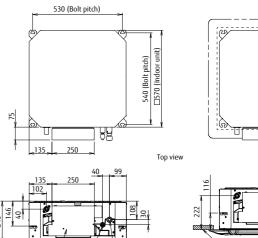
Note: Specifications are based on the following conditions.

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

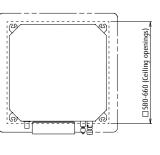
*1: This value is under cooling operation.

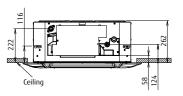
Dimensions (Unit: mm)





Liquid pipe Gas pipe



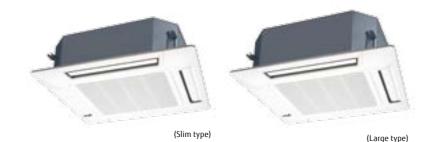


4-way Flow Cassette

Models (Slim type) AUXD18GALH AUXA18GALH

Models (Large type) AUXD24GALH AUXA24GALH **AUXA30GALH AUXA34GALH AUXA36GALH AUXA45GALH**

AUXA54GALH

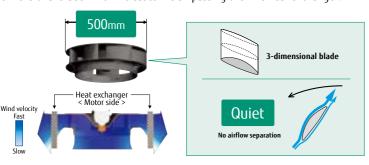


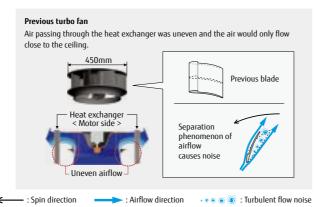


Feature

High efficiency turbo fan with 3-dimensional blade

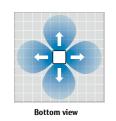
High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.

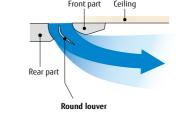


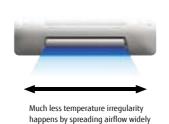


Improvement of the airflow distribution

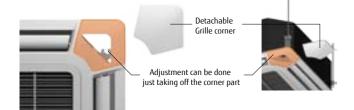
The louver design distributes air leaving a space between the chassis and the ceiling allowing far and wide air flow distribution.







Adjustment of hanger position is possible after installation

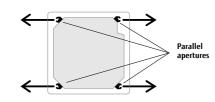


High ceiling mode

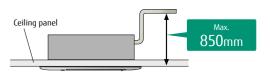
This cassette can be installed up to a height of 4.2m (36/45/54).

Model code	The maximum height from floor to ceiling (m)							
woder 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-LRHGB1 Air Outlet Shutter Plate : UTR-YDZK Panel Spacer: UTG-BKXA-W Insulation Kit for High Humidity: UTZ-KXRA Wide Panel: UTG-AKXA-W Fresh Air Intake Kit: UTZ-VXRA

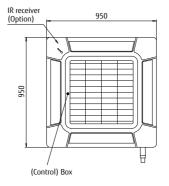
Specifications

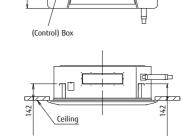
Model name			AUXD18GALH	AUXD24GALH	AUXA18GALH	AUXA24GALH	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH		
Power source				Single - phase, ~230V, 50Hz									
C	Cooling	kW	5.6	7.1	5.6	7.1	9.0	10.0	11.2	12.5	14.0		
Capacity	Heating	KVV	6.3	8.0	6.3	8.0	10.0	11.2	12.5	14.0	16.0		
Input power		W	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		
ievei	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 diameter (I.D./O.D.)			25/32										
	Model name						UTG-UGGA-W						
Cassette Grille	Dimensions (H×W×D)	mm		50 × 950 × 950									
	Weight	kg		5.5									

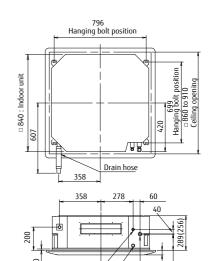
Note: Specifications are based on the following conditions.

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**

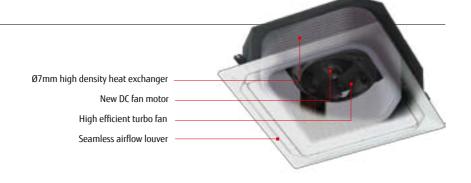




Feature

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.





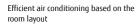
Individual louver control

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



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. Power is saved while Auto saving Operation stops after Auto OFF people go out.

(Option)



Specifications

Model name			AUXM018GLAH	AUXM024GLAH	AUXM030GLAH	AUXK018GLAH	AUXK024GLAH	AUXK030GLAH	AUXK034GLAH	AUXK036GLAH	AUXK045GLAH	AUXK054GLAH	
Power source				Single - phase, ~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	
Allilow late	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 (A)	31	32	34	36	36	37	37	38	40	42	
level	Lo-Hi		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 diameter (I.D./O.D.)						25	/ 32						
	Model nar	ne					UTG-UKGC-W	/ UTG-UKGA-B					
Cassette Grille	Dimensions (H×W×D)	mm					53×95	0×950					
	Weight	kg					6	.0					

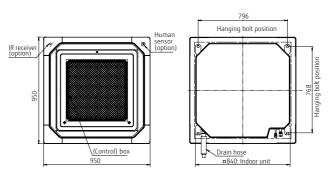
Note: Specifications are based on the following conditions.

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.

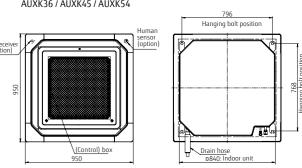
Dimensions (Unit: mm)

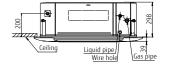
Models: AUXM18 / AUXM24 / AUXM30





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





Mini Duct

Models (With drain pump)

ARXK04GCLH

ARXK07GCLH

ARXK09GCLH ARXK12GCLH

ARXK14GCLH

ARXK18GCLH

ARXK24GCLH



Feature





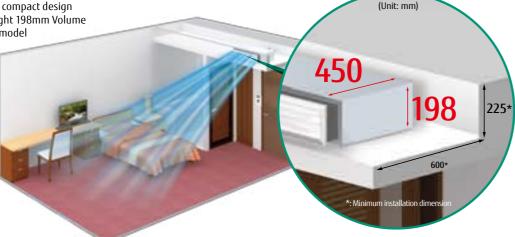


Large living space available

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

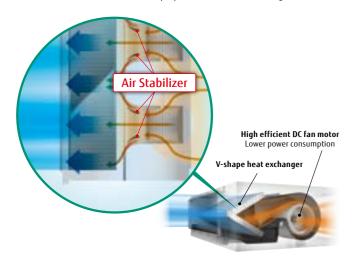
• Minimum size: Depth 450mm, Height 198mm Volume 30% down compared with current model

• 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



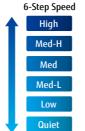
Parts can be replaced from the side of the body where maintenance is easier

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-RNRGZ2 / UTY-RLRG / UTY-RSRG / UTY-RHRG / UTY-DCGG / UTY-DTGGZ1 / 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

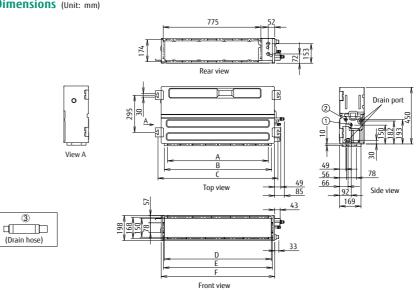
Model name			ARXK04GCLH	ARXK07GCLH	ARXK09GCLH	ARXK12GCLH	ARXK14GCLH	ARXK18GCLH	ARXK24GCLH			
Power source			Single - phase, -230V, 50Hz									
Canacity	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1			
Capacity	Heating	KVV	1.3	2.8	3.2	4.0	5.0	6.3	8.0			
Input power W		W	26	28	28	35	66	73	80			
	High		460	460	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 range		Pa	0 to 30	0 to 30	0 to 30	0 to 30	0 to 50	0 to 50	0 to 50			
Standard static 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].

Dimensions (Unit: mm)



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

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

Slim Duct / Slim Concealed Floor

Models (With drain pump)

ARXD04GALH

ARXD07GALH

ARXD09GALH

ARXD12GALH

ARXD14GALH

ARXD18GALH

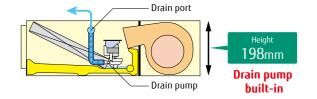
ARXD24GALH



Feature

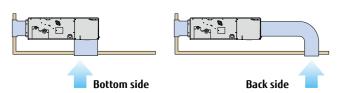
Slim design

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 ARXD24

Slim Concealed Floor





Selectable with a wide range of static pressure

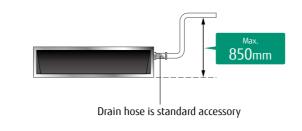
By using DC fan motor, it is possible to change of static pressure range 0 to 90Pa. The change of static pressure range is possible by remote controller.



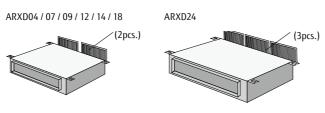
0 to 90 Pa

*24 model is 0 to 50Pa

High lift drain pump

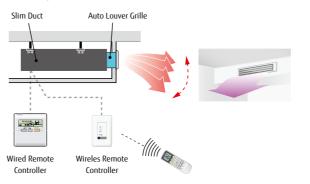


Filter (Accessory)



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							
Canacitu	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 ra	ange	Pa	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 diameter (I.D./O.D.)					25 / 32					

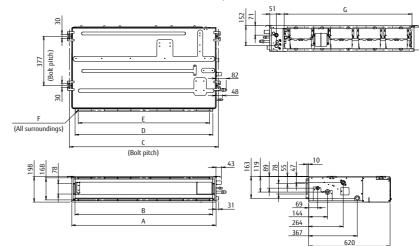
Note: Specifications are based on the following conditions.

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)

*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
C	734	934	1134
D	650	850	1050
Ε	P100x6=600	P100x8=800	P100x10=1000
F	18xØ5	22xØ5	26xØ5
G	574	774	974

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

Low Static Pressure Duct / Concealed Floor

Models

ARXB07GALH ARXB09GALH **ARXB12GALH** ARXB14GALH **ARXB18GALH**





ARXB14GALH ARXB18GALH

Concealed Floor

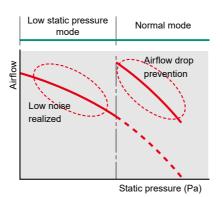




Low noise level

A low noise level has been achieved for each capacity

Model		79		12	14	18
Static pressure range	Ра			0 to 50		
Noise level (Low speed)	dB(A)	24	27	25	30	30



Specifications

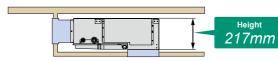
Model name			ARXB07GALH	ARXB09GALH	ARXB12GALH	ARXB14GALH	ARXB18GALH
Power source					230V ~, 50Hz		
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6
	Heating	KVV	2.8	3.2	4.0	5.0	6.3
Input power		W	46	55	63	90	96
Airflow rate	High	m³/h	370 (103)	440 (122)	590 (164)	800 (222)	890 (247)
	Med	(I/s)	310 (86)	370 (103)	500 (139)	750 (208)	810 (225)
	Low		280 (78)	340 (94)	450 (125)	700 (194)	730 (203)
Static pressure range		Pa	0 to 50	0 to 50	0 to 50	0 to 50	0 to 50
Standard static pressure)	' "	25	25	25	25	25
Sound pressure level	High		29	31	30	33	36
	Med	dB(A)	26	29	28	32	34
	Low		24	27	25	30	30
Dimensions (H x W x D)		mm	217 x 66	63 x 595			
Weight		kg	1	5	:	22	23
Connection	Liquid (Flare)			ø6	5.35		ø9.52
pipe diameter	Gas (Flare)	mm		ø1:	2.70		ø15.88
	Drain hose	1		,	VP25[ø25(I.D.); ø32(O.U.)]	

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.

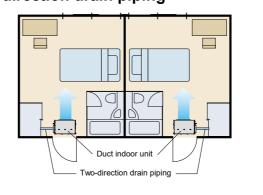
Compact design

Ultra-slim duct air conditioner for easy installation



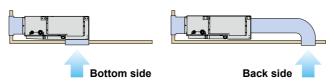
Slim size (217mm) allows installation even where the space above the ceiling is narrow.

Two-direction drain piping



Air-intake

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



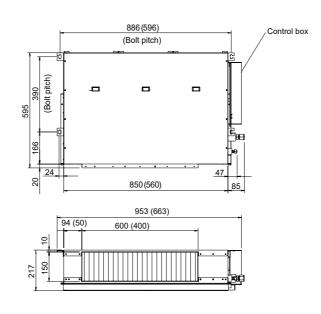
Remote Sensor Unit: UTY-XSZX UTB-YWC

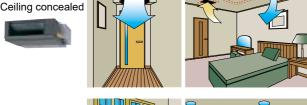
Dimensions (Unit: mm)

Models: ARXB07 / ARXB09 / ARXB12 / ARXB14 / ARXB18

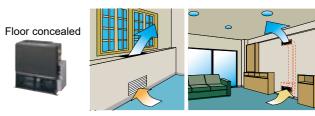
*Service accessibility must be allowed for when installing the product.

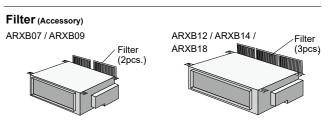
Please consult the installation manual for the necessary service access size





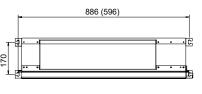
Flexible installation

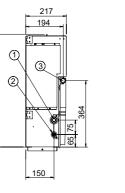


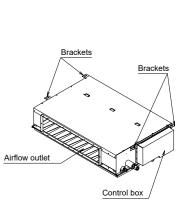


Optional parts

IR Receiver Unit: Drain Pump Unit: UTZ-PX1BBA







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

Low / Medium Static Pressure Duct

Models (Low Static Pressure Duct)

ARXB24GALH ARXB30GALH ARXB36GALH

ARXB45GALH

Models (Medium Static Pressure Duct)

ARXA24GBLH ARXA30GBLH ARXA36GBLH ARXA45GBLH

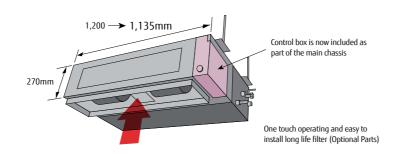




Feature

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.



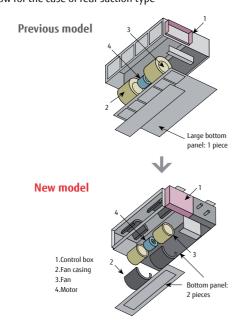
Selectable with a wide range of static pressure

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

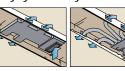
Two-direction drain piping



Embedded in Ceiling

Installation styles

Hanging from Ceiling



Easy setting by using remote controller

The change of static pressure range is possible by remote controller



Optional parts

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

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

Specifications

Model name			ARXB24GALH	ARXB30GALH	ARXB36GALH	ARXB45GALH	ARXA24GBLH	ARXA30GBLH	ARXA36GBLH	ARXA45GBLH	
Power source				Single - phase, ~230V, 50Hz				Single - phase, ~230V, 50Hz			
Canacitu	Cooling	kW	7.1	9.0	11.2	12.5	7.1	9.0	11.2	12.5	
Capacity	Heating	KVV	8.0	10.0	12.5	14.0	8.0	10.0	12.5	14.0	
Input power		W	145	198	253	338	94	108	194	240	
	High		1,100	1,410	1,710	1,970	1,280	1,410	1,840	1,970	
Airflow rate	Med	m³/h	920	1,280	1,600	1,790	990	1,280	1,600	1,860	
	Low		810	1,150	1,470	1,670	840	1,150	1,470	1,640	
Static pressure range		D.	0 to 80	0 to 80	0 to 80	0 to 80	0 to 150	0 to 150	0 to 150	0 to 150	
Standard static p	ressure	Pa	40	50	50	60	40	50	50	60	
	High		31	34	37	41	31	34	37	41	
Sound pressure level	Med	dB (A)	27	32	35	38	27	32	35	38	
icvei	Low	(,,,	25	29	33	36	23	29	33	36	
Dimensions (H ×	W × D)	mm		270 × 1,	135 × 700			270 × 1,1	35 × 700		
Weight kg		kg	39	42	42	42	36	40	40	40	
Connection	Liquid (Flare)		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	19.05	19.05	15.88	15.88	19.05	19.05	
Drain hose diameter (I.D./O.D.)			25	/ 32			25 /	32			

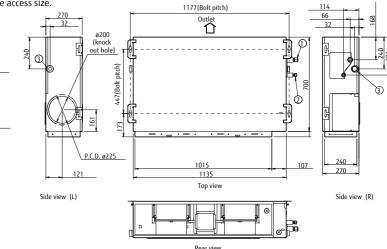
Note: Specifications are based on the following conditions. Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. $Pipe \ length: 7.5 \ m; \ Height \ difference \ between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

Dimensions (Unit: mm)

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

> ø205 hole Side view (L)

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



High Static Pressure Duct

Models

Models

Models

ARXC96GATH

ARXC36GBTH ARXC45GATH ARXC60GATH

ARXC72GBTH ARXC90GBTH



ARXC36 ARXC45 ARXC60

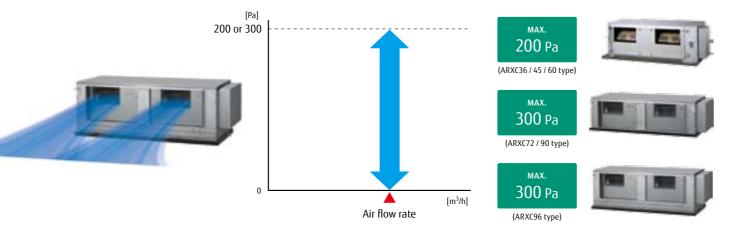
ARXC72 ARXC90



Feature

Static pressure selection

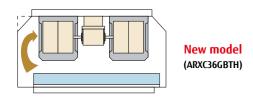
By using DC fan motor, it is possible to change static pressure range from 0 to 200Pa (ARXC36) / 300Pa (ARXC72 / 90 / 96).



Low noise

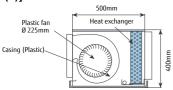
Models: ARXC36 / ARXC45 / ARXC60

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.



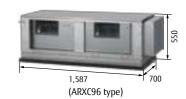
(ARXC72 / 90 / 96 type)

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.



(ARXC36 / 45 / 60 type) (ARXC72 / 90 type)



(Unit:mm)

Optional parts

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

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

Specifications

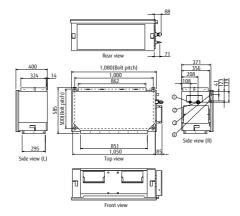
Model name			ARXC36GBTH	ARXC45GATH	ARXC60GATH*	ARXC72GBTH*	ARXC90GBTH*	ARXC96GATH*			
Power source				Single - phase, ~230V, 50Hz							
Canacitu	Cooling	kW	11.2	12.5	18.0	22.4	25.0	28.0			
Capacity Heating		KVV	12.5	14.0	20.0	25.0	28.0	31.5			
Input power		W	207	715	730	681	819	838			
	High		1,990	3,500	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 range		Pa	0 to 200	100 to 250	100 to 250	0 to 300	0 to 300	0 to 300			
Standard static p	ressure	Ра	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		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 diameter (I.D./O.D.)					25	/ 32	*	*			

Note: Specifications are based on the following conditions.

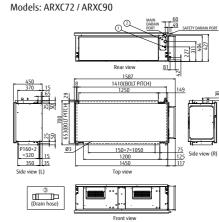
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V]. *: ARXC60/72/90/96G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

Dimensions (Unit: mm)

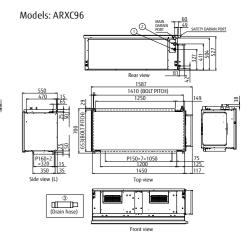
Models: ARXC36 / ARXC45 / ARXC60



- 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



ARXN01



RXN024 ARXN03



Feature

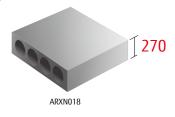
Large airflow volume

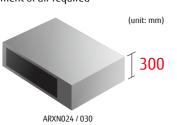
It can be installed in places such as early replacement of air required by large airflow volume.



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	•	
Capacity	Cooling	kW	5.6	7.1	9.0	
Сарасіту	Heating	KVV	6.3	8.0	10.0	
Input power		W	173	180	273	
	High		1,720	2,100	2,700	
	Med-H		-	2,050	2,390	
Airflow rate	Med	m³/h	1,470	1,860	2,080	
Allilow late	Med-L	1115/11	-	1,660	1,770	
	Low		1,360	1,470	1,470	
	Quiet		-	1,260	1,260	
Static pressure r	ange	Pa –	0 to 80	0 to 100	0 to 100	
Standard static p	ressure	Pd	50	50	50	
	High		36	37	41	
	Med-H		-	35	38	
Sound pressure	Med	dB	33	33	34	
level	Med-L	(A)	-	31	31	
	Low	Г	30	28	28	
	Quiet		-	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	•	

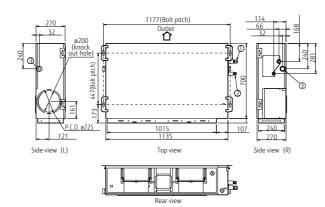
Note : Specifications are based on the following conditions.

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.

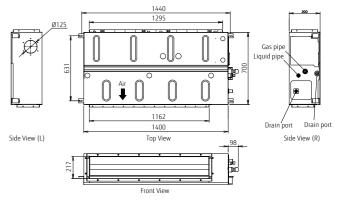
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].

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

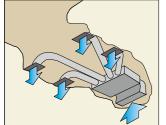
Large airflow volume

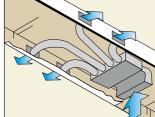
It can be installed in places such as early replacement of air required by large airflow volume.





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							
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		D _a	50 to 100	50 to 150	50 to 250	50 to 250	50 to 300	50 to 300			
Standard static p	ressure	Pa	50	50	50	50	60	60			
	High		35	37	40	43	45	45			
Sound pressure level	Med	dB (A)	-	=	=	=	=	=			
icvei	Low	(7.1)	-	=	=	=	=	=			
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.

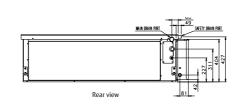
Cooling: Indoor temperature of 27*CDB / 19*CWB, and outdoor temperature of 35*CDB / 24*CWB.

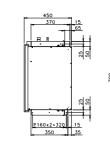
Heating: Indoor temperature of 20*CDB / (15*CWB), and outdoor temperature of 7*CDB / 6*CWB.

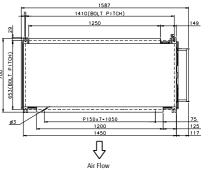
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].

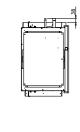
Large Airflow Duct can be connected to V-III series only.

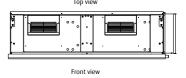
Dimensions (Unit: mm)











Compact floor

Models (EEV internal)

AGHA004GCAH AGHA007GCAH AGHA009GCAH AGHA012GCAH AGHA014GCAH

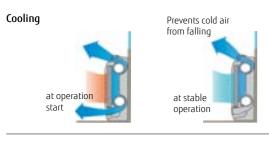




Feature

2-Fan & Wide airflow

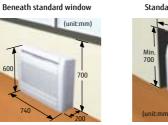
Individual vertical airflow by 2-fan can control the whole room comfortably.

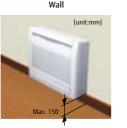


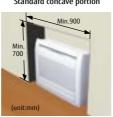
Heating Prevents cold draft from at stable

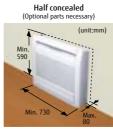
Flexible & easy installation

Due to compact and whole surface suction method model, floor, concealed, half concealed, or wall mounted installation can be









Quiet operation

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

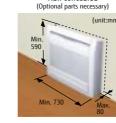






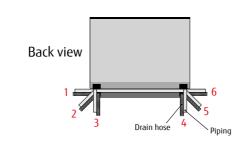
^{*} Compatible Remote Controller is as follows: UTY-RNRGZ2 / UTY-RLRG / UTY-RSRG / UTY-RHRG / UTY-DTGGZ1 / UTY-ALGXZ1 / UTY-APGXZ1

available to match the room layout.



Flexible piping connection 6 direction of drain & piping

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





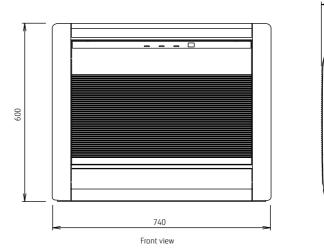
Specifications

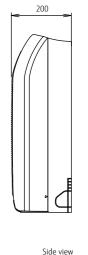
Model name			AGHA004GCAH	AGHA007GCAH	AGHA009GCAH	AGHA012GCAH	AGHA014GCAH
Power source					Single - phase, ~230V, 50Hz		
Canacitu	Cooling	kW	1.1	2.2	2.8	3.6	4.0
Capacity	Heating	KVV	1.3	2.8	3.2	4.0	4.5
Input power		W	12 / 14	16	17	22	29
	High		380 / 430	470	500	590	670
	Med-H		350	420	450	520	590
Airflow rate	Med	m³/h	320	390	400	470	520
Allilow rate	Med-L		310	360	360	420	450
	Low		280	330	330	390	390
	Quiet		210	270	270	340	340
	High		35 / 36	37	38	42	46
	Med-H		33	35	36	39	42
Sound pressure	Med	dB	31	33	34	37	39
level	Med-L	(A)	30	31	31	35	36
	Low		28	29	29	33	33
	Quiet		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
Weight		kg	15	15	15	15	15
Connection	Liquid (Flare)		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
Drain hose diam	eter (I.D./O.D.)				13.8 / 15.8 to 16.7		
EV Kit (option)			=	=	=	=	=

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

Dimensions (Unit: mm)





Floor / Ceiling

Models

ABHA12GATH **ABHA14GATH ABHA18GATH** ABHA24GATH









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



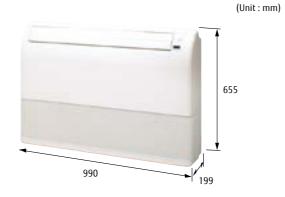
High power DC fan motor

- 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			ABHA12GATH	ABHA14GATH	ABHA18GATH	ABHA24GATH	
Power source			•	Single - phase	e, ~230V, 50Hz		
Canacitu	Cooling	kW	3.6	4.5	5.6	7.1	
Capacity	Heating	KVV	4.0	5.0	6.3	8.0	
Input power		W	30	42	74	99	
High	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	(71)	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	
oipe diameter Gas (Flare)		mm	12.70	12.70	15.88	15.88	
Drain hose diameter (I.D./O.D.)		25/32					

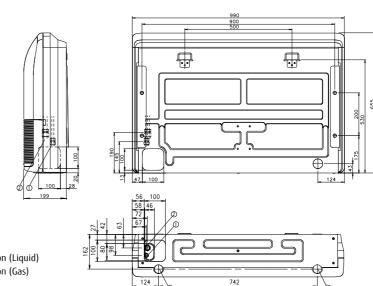
Note: Specifications are based on the following conditions.

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

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

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

Dimensions (Unit: mm)



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

Ceiling

Models

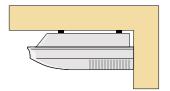
ABHA30GATH ABHA36GATH ABHA45GATH **ABHA54GATH**





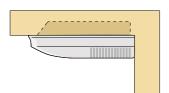
Feature

Installation

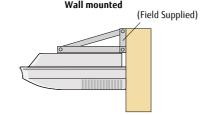


General installation pattern which suspends the indoor unit from the ceiling.





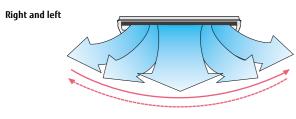
Installation pattern where part of the indoor unit is embedded into the ceiling.



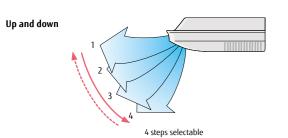
Installation which fixes the indoor unit to the wall by the use of wall brackets (Field supplied). This type of installation can be used when the ceiling space is insufficient.

Double auto swing and wide airflow

Auto airflow direction and auto swing

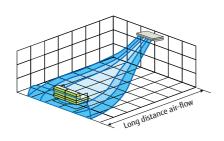


5 steps selectable



Long airflow

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

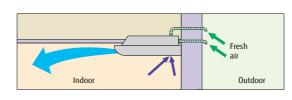


High power DC fan motor

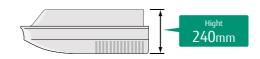
• High power • Wide rotation range • High efficiency



Fresh air intake

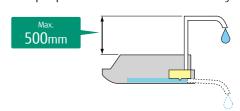


Slim & Compact design



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			ABHA30GATH	ABHA36GATH	ABHA45GATH	ABHA54GATH			
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	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	(,,	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						

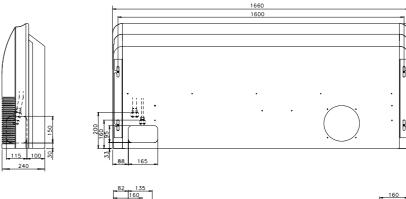
Note: Specifications are based on the following conditions.

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

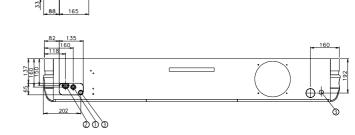
Heating: Indoor temperature of 20*CDB / (15*CWB), and outdoor temperature of 7*CDB / 6*CWB.

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



Compact Wall Mounted

Models (EEV internal model)

ASHA07GACH ASHA09GACH ASHA12GACH **ASHA14GACH**





Filter features

High quality air conditioning by incorporation of high performance

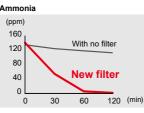


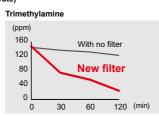
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

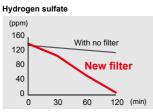


Apple-catechin filter uses static electricity to clean fine particles and dust in the air.

Deodorizing effect (Odor reduction rate)







Testing organization **Environmental Sanitary Inspection Center** Test method:

Specifications

Model name			ASHA07GACH	ASHA09GACH	ASHA12GACH	ASHA14GACH				
Power source				Single - phase, ~230V, 50Hz						
Capacity	Cooling	kW	2.2	2.8	3.6	4.5				
Сараспу	Heating	KVV	2.8	3.2	4.1	5.0				
Input power		W	17	18	22	34				
	High		490	500	560	670				
Airflow rate	Med	m³/h	450	450	480	490				
	Low		370/420*1	370/420*1	420	420				
	High		35	36	39	44				
Sound pressure evel	Med	dB (A)	33	33	35	37				
evei	Low	(,,	27/31*1	27/31*1	31	32				
Dimensions (H ×	W × D)	mm	275 x 790 x 215							
Veight kg		kg	9							
Connection	Liquid (Flare)			6.:	35					
oipe diameter	Gas (Flare)	mm		12.	.70					
Drain hose diam	eter (I.D./O.D.)			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.

*1 : This value is under cooling operation.

Compact size

Powerful output even compact design

Though the indoor unit is compact, it features a large, high pressure cross fan (90mm diameter) in a centre mounted configuration and a Lambda type heat exchanger to provide plenty of power.



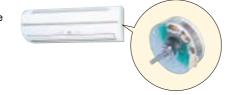
Auto swing louvre

The Auto Swing Louvre function ensures that the air direction corresponds to the mode selected. 1 2

790mm

New style high power DC fan motor

- · High power
- Wide rotation range
- · High efficiency
- Compact size



Easy maintenance

Easy maintenance has been realized as the front panel can removed for easy access.



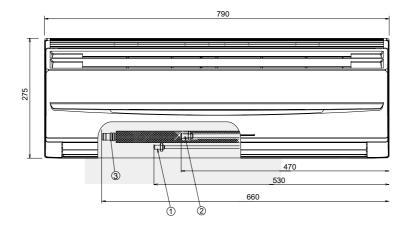
--→ Swing

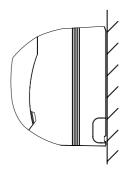
Symmetrical design

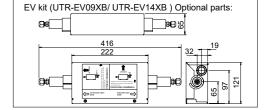
Symmetrical, clean design that suits all interiors.

Dimensions (Unit: mm)

Models: ASHA07 / ASHA09 / ASHA12 / ASHA14







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

Models

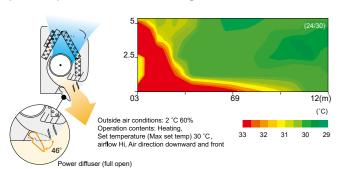
ASHA18GACH ASHA24GACH ASHA30GACH



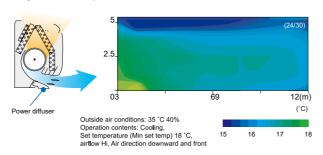


More comfort airflow by adopting power diffuser

"Vertical airflow" provides powerful floor level heating



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



Specifications

Model name			ASHA18GACH	ASHA24GACH	ASHA30GACH		
Power source			230V ~, 50Hz				
Capacity	Cooling	kW	5.6	7.1	8.0		
	Heating	KVV	6.3	8.0	9.0		
Input power		W	32	60	91		
	High	m³/h	840 (233)	1,100 (305)	1,240 (343)		
Airflow rate	Med	(I/s)	770 (213)	910 (252)	980 (271)		
	Low		690 (191)	730 (202)	770 (213)		
	High		41	48	52		
Sound pressure level	Med	dB(A)	39	43	45		
	Low		35	35	35		
Dimensions (H x W x D)		mm		320 x 998 x 228			
Weight		kg		15			
Connection	Liquid (Flare)						
pipe diameter	Gas (Flare)	mm		ø15.88			
	Drain			ø12 (I.D.) ; ø16 (O.D.)			

Note: Specifications are based on the following conditions.

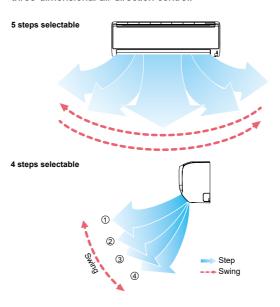
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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].

Double auto swing

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

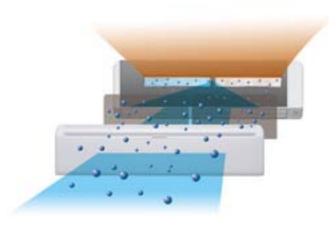


Compact & Slim design

By using DC fan motor, compact design is realized.



Air conditioner filter features



High quality air conditioning by incorporation of high performance filter.



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



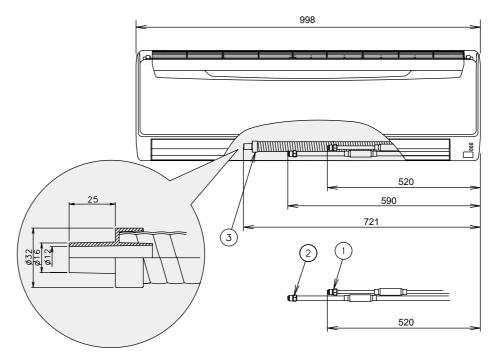
Apple-catechin filter uses static electricity to clean fine particles and dust in the air.

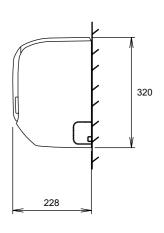
Easy maintenance

Simplification of drain pan cleaning improves maintenance-ability.

Dimensions (Unit: mm)

Models: ASHA18 / ASHA24 / ASHA30





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

Models

ASHA004GTAH ASHA007GTAH ASHA009GTAH

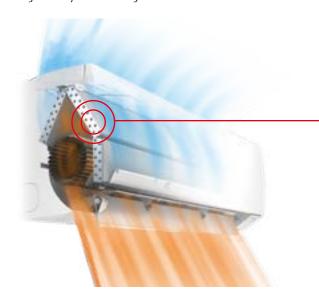




Feature

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)

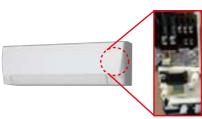




^{*} Compatible Remote Controller is as follows: UTY-RNRGZ2 / UTY-RLRG / UTY-RSRG / UTY-RHRG / UTY-DTGGZ1 / UTY-ALGXZ1 / UTY-APGXZ1

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	del name		ASHA004GTAH	ASHA007GTAH	ASHA009GTAH		
Power source			Single - phase, ~230V, 50Hz				
Canacibu	Cooling	kW	1.1	2.2	2.8		
Capacity	Heating	KVV	1.3	2.8	3.2		
nput power		W	13	19	34		
	High		430	550	720		
	Med-H		420	460	570		
Airflow rate	Med	m³/h	390	420	500		
Allilow late	Med-L	1113/11	380	390	410		
	Low		360	360	360		
	Quiet		330	330	330		
	High		31	35	43		
	Med-H		30	32	38		
Sound pressure	Med	dB	28	30	34		
evel	Med-L	(A)	26	27	29		
	Low		24	24	24		
	Quiet		22	22	22		
Dimensions (H ×	W × D)	mm	262×820×206	262×820×206	262×820×206		
Veight		kg	7.5	7.5	7.5		
onnection	Liquid (Flare)		6.35	6.35	6.35		
oipe diameter	Gas (Flare)	mm	9.52	9.52	9.52		
rain hose diam	eter (I.D./O.D.)		13.8 / 15.8 to 16.7				
V Kit (option)	•		=	=	=		

Note: Specifications are based on the following conditions.

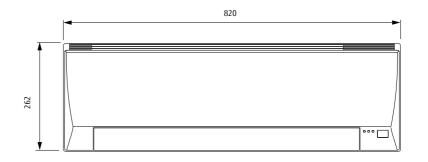
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

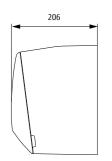
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

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

Dimensions (Unit: mm)





Models

ASHA012GCAH NEW ASHA014GCAH 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

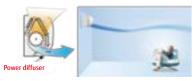
Vertical airflow provides powerful floor level heating





Cooling

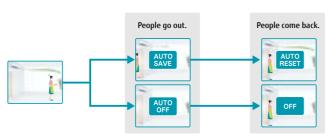
Horizontal airflow does not blow cool air directly at the occupants in the room.



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.



Low noise 24 dB(A)

6-Step Speed High Med-H Med Med-L Low

* Compatible Remote Controller is as follows: UTY-RNRGZ2 / UTY-RLRG / UTY-RSRG / UTY-RHRG / UTY-DCGG / UTY-DTGGZ1 / UTY-ALGXZ1 / UTY-APGXZ1

Optional parts

Wired Remote Controller: UTY-RNRGZ2, UTY-RLRG Wireless Remote Controller: UTY-LNHG Simple Remote Controller: UTY-RSRG, UTY-RHRG



Specifications

Model name			ASHA012GCAH	ASHA014GCAH			
Power source			Single - phase, ~230	IV, 50Hz			
anneibu	Cooling	kW	3.6	4.0			
Capacity	Heating	KVV	4.0	4.5			
nput power		W	25	36			
	High		690	800			
Airflow rate —	Med-H		610	740			
	Med	m³/h	560	680			
	Med-L	1113/11	530	610			
	Low Quiet		470	550			
		ĺ	330	330			
	High		40	44			
	Med-H		37	42			
ound pressure	Med	dB	35	40			
evel	Med-L	(A)	33	37			
	Low	ſ	30	34			
	Quiet		24	24			
imensions (H ×	W × D)	mm	268 × 840 × 203	268 × 840 × 203			
Veight		kg	8.5	8.5			
onnection	Liquid (Flare)		6.35	6.35			
ipe diameter	Gas (Flare)	mm	12.70	12.70			
rain hose diam	eter (I.D./O.D.)	Ī	13.8 / 15.8 to 1	13.8 / 15.8 to 16.7			
V Kit (option)			=	=			

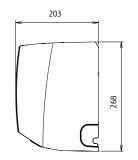
Note : Specifications are based on the following conditions.

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 Models

ASHA18GBCH ASHA030GTAH ASHA24GBCH ASHA034GTAH



ASHA18 ASHA24

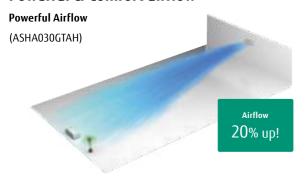


ASHA030 ASHA034

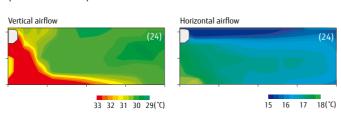


Feature

Powerful & Comfort airflow







Human sensor (ASHA030/034GTAH only)

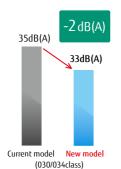
A human sensor senses the movement of humans to reduce operation when one is in the room. the wasteful consumption of energy is reduced automatically to keep down electricity bills.

(Available to wired remote controller as UTY-RNRGZ2)



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-RNRGZ2 / UTY-RLRG / UTY-RSRG / UTY-RHRG / UTY-DCGG / UTY-DTGGZ1 / UTY-ALGXZ1 / UTY-APGXZ1



Specifications

Model name			ASHA18GBCH	ASHA24GBCH	ASHA030GTAH	ASHA034GTAH			
Power source				Single - phase, ~230V, 50Hz					
Canadibu	Cooling	kW	5.6	7.1	9.0	10.0			
Capacity	Heating	KW	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	1113/11	-	-	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 diam	eter (I.D./O.D.)		12 /	16	13.8 / 15.	13.8 / 15.8 to 16.7			

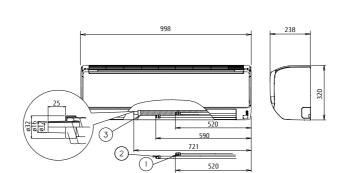
Note: Specifications are based on the following conditions.

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].

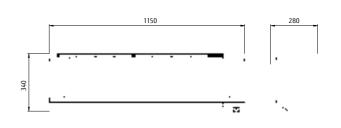
When ASHA18GBCH is connected to the outdoor unit other than J-IIIL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas).

Dimensions (Unit: mm)

Models: ASHA18 / ASHA24



Models: ASHA030 / ASHA034



- 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

AIRSTAGE

BEST CONTROL SOLUTION FOR EACH PROPERTY

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

CL	ı	N	n
ЭГ	1	v	۲

Туре	Individual Control		Centraliz	ed Control		Into	egrating Control (Interfa	ice)
CO PORTO	- S					>	9	9
1.3	Wired Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	Network Convertor for LonWorks®	MODBUS® Convertor	KNX® Convertor
	UTY-RNRGZ2, UTY-RLRG	UTY-CGGG	UTY-DCGG	UTY-DTGGZ1	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

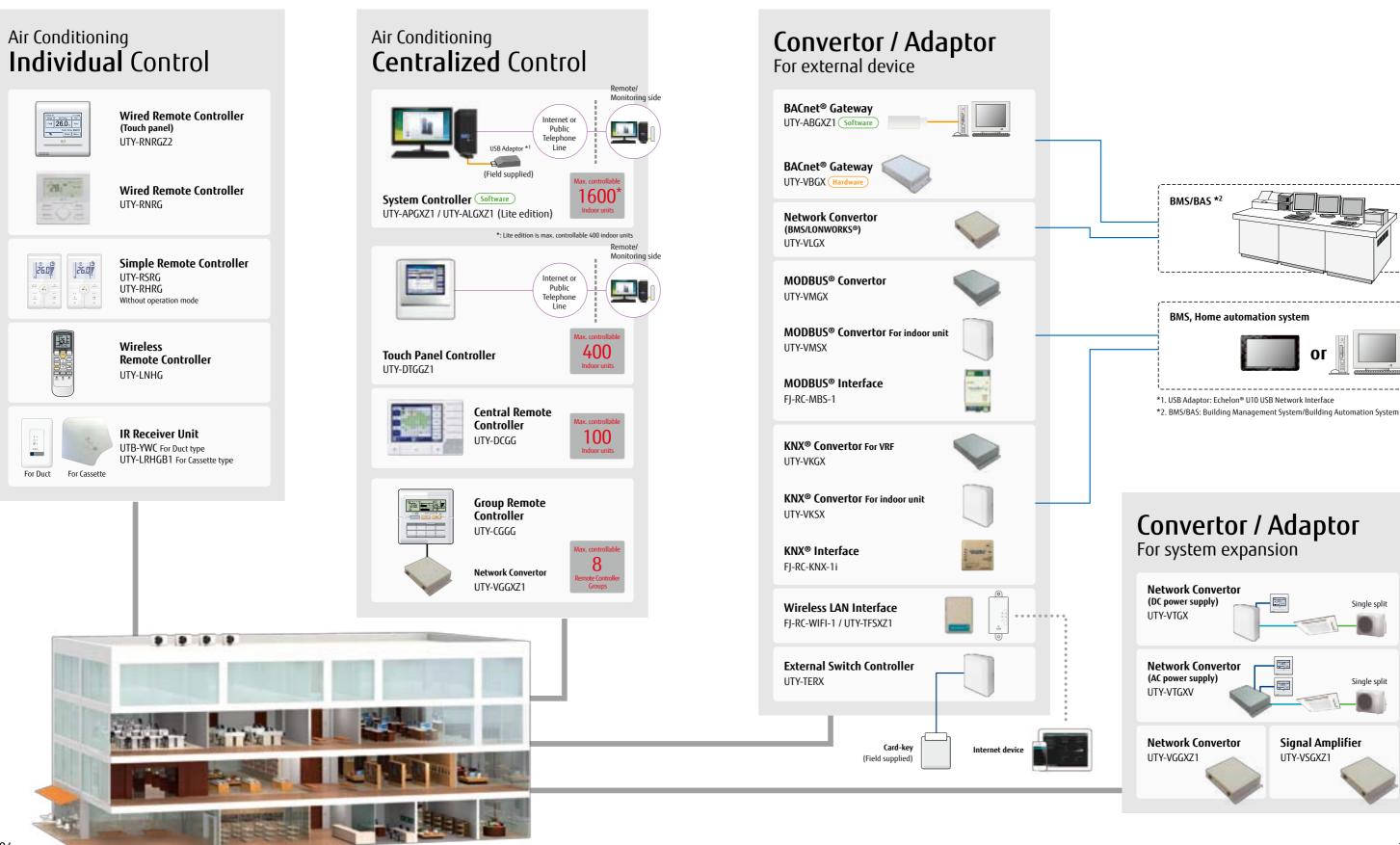
Туре		Individual Control			Centralize	ed Control			Integra	iting Control (In	terface)	
		par par						0	\rightarrow	V	V	
Marca 2	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	Network Convertor for LonWorks®	MODBUS® Convertor	KNX® Convertor	External Switch Controller
	UTY-RNRGZ2, UTY-RLRG	UTY-RSRG, UTY-RHRG	UTY-LNHG	UTY-CGGG	UTY-DCGG	UTY-DTGGZ1	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		jiaji jiaji						0	\rightarrow	Q	9	
The Court 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
Spire	UTY-RNRGZ2, UTY-RLRG	UTY-RSRG, UTY-RHRG	UTY-LNHG	UTY-CGGG	UTY-DCGG	UTY-DTGGZ1	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

User's needs are supported by offering a variety of controls, such as individual control, central control and building management control options.



For Light Commercial

• Small VRF

For Commercial

• Large VRF

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COMPARISON TABLE OF CONTROLLERS

ype	200	(47)	sep							
	Wired Remote Controller (Touch panel)	Wired Remote Controller	Simple Remote Controller	Simple Remote Controller *1	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller Lite Software	System Controller Software
lodel name	UTY-RNRGZ2	UTY-RLRG	UTY-RSRG	UTY-RHRG	UTY-LNHG	UTY-CGGG	UTY-DCGG	UTY-DTGGZ1	UTY-ALGXZ1	UTY-APGXZ1
lax. controllable remote controller groups	1	1	1	1	1	8	100	400	400	1600
lax. controllable indoor units	16	16	16	16	16	128	100	400	400	1600
lax. controllable groups	-	-		-	-	-	16	400	400	1600
On / Off	•	•	•	•	•	•	•	•	•	•
Operation mode setting	•	•	•	-	•	•	•	•	•	•
Fan speed setting	•	•	•	•	•	•	•	•	•	•
Room temp. setting	•	•	•	•	•	•	•	•	•	•
Room temp. set point limitation	•	•	•	•		-	•	•	•	•
Test operation	•	•	•	•	•	-	•	•	-	=
Up/down air direction flap setting	•	•	•	•	•	-	•	•	•	•
Right/left air direction flap setting	•	•	-	-	•	-	•	•	•	•
Individual louver control	•	-	-	-	=	-	-	•	-	-
Group setting	-	-	-	-		-	•	•	•	•
RC prohibition	-	-	-	-	_	-	•	•	•	•
Anti freeze setting	•	-	-	-		-	•	•	•	•
Set temp. auto return	•	•	_	-		-	-	•	-	
Economy mode setting	•	•	_	-	•	-	•	•	•	•
Human sensor control	•	-	-	-		-	-	•	•	•
Custom Auto setting	•	-	-	-	-	-	-	•	-	-
Error	•	•	•	•	-	•	•	•	•	•
Defrosting	•	•	•	•		-	•	•	•	•
Current time	•	•	=	-	•	•	•	•	•	•
Day of week	•	•	-	-	-	•	-	•	•	•
R.C. prohibition	•	•	•	•	_	•	•	•	•	•
Cooling/heating priority	•	•	•	•		•	•	•	•	•
Address display	•		•	•	-			•	_	
Room temp Multi language	•	_	_	-		_	-	•	-	-
Summer time	•			_			•	•	•	•
Name registration	•		_	_	_		•	•	•	•
Backlight	•		•	•			•	•	_	_
2D floor layout / 3D building display	_	_	_	_		_	_		_	•
Period	Week	Week	_	_		Week	Week	Year	Year	Year
Schedule timer On/off, Temp, Mode, Times per day	8	4	_	-	-	4	20	20	144	144
On/off timer	•	•	_	_	•	_	_		_	
Sleep timer	_	_	_	_	•		_	=		
Program timer	_	_	_	_	•	_	_	_	_	_
Auto off timer	•	•	_	_		_	_	•	_	_
Day off	•	•	_	_		_	•	•	•	•
Min. unit of timer setting (Minutes)	10 • 30	30	-	_	5	10	10	10	10	10
Status monitoring system	-	_	_	-	-	-	•	•	•	•
Electricity charge apportionment	-	=	=	_	-	=	=	0	0	•
Error history	•	•	=	_	_	•	•	•	•	•
Emergency stop	-	_	-	-	=	-	•*2	•*2	=	=
Remote management	-	_	-	-	=	-	-	•	0	•
Energy saving management	-	_	-	-	=	-	-	-	0	0
E-mail notification for malfunction	-	-	-	-	-	-	-	•	•	•
Key lock	Child lock	Child lock	-	-	-	Child lock	Password setting	Password setting	Password setting	• Password setting
Low noise mode	-			_	-	-	-	•	_	_

Wired Remote Controller (Touch Panel)



UTY-RNRGZ2

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

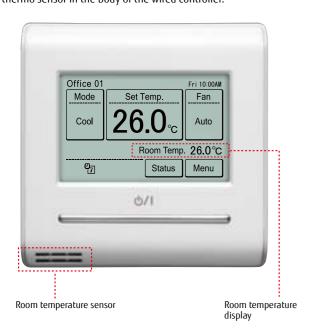
High performance and compact size

• 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.



Child lock

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



Backlight

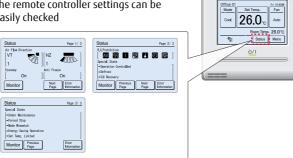
- Backlight enable easy operation in a darkened room.
- For the lighting time of Backlight, 30 or 60 seconds can be set.
- Backlight activates while the buttons are operated and goes off 30 or 60 seconds after the operation stops.



Various convenient functions

Displays setting status and Limitations

• The remote controller settings can be easily checked



Summer Time display

 This function can be set easily from Menu screen



Name Registration

• Remote controller names can be registered in the remote controller screen. This makes it easy to identify the indoor unit you want to control in the room.

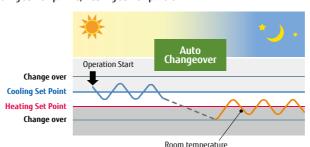


Various energy saving control

Custom Auto

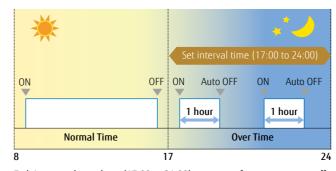
- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.
- * This function is not available for some models.

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.

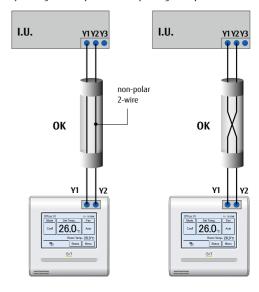
Set Temperature Upper and Lower Limit Setting

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

Simplified installation

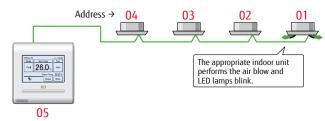
Uses non-polar 2-wire type

• 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-RNRGZ2			
Power Supply		DC 12V			
Dimensions (H x W x D)	mm	120 × 120 × 20.4			
Weight	g	220			

DC12V is supplied by indoor unit.

Wired Remote Controller

16

UTY-RLRG

- 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

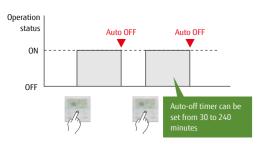
High performance and compact size

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



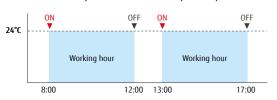
Auto-off timer

• 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.

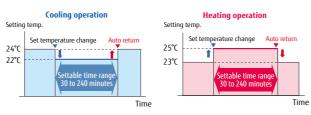
High visibility and easy operation

- "Mode", "Set Temp", and "Fan" are displayed at large size on the top screen.
- Each function to be set is indicated by
- Control guide is displayed and operation is simple and straightforward.



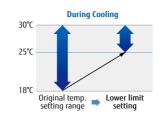
Set temperature auto return

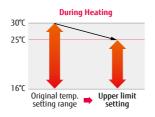
- The setting temperature automatically returns to the previously set temperature.
- The time range in which the set temperature can be changed is 30 to 240 minutes.



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-RLRG			
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

16

UTY-RSRG

UTY-RHRG (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



LITY-RHRG Without Operation mode

26.07

Functions

Corresponding to various applications

Vertical louver control:

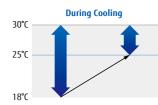
Vertical air flow direction can be adjusted for Duct types with auto louver and Cassette types, which are installed in hotels and conference rooms, can be adjusted.





• Room temperature set point limitation:

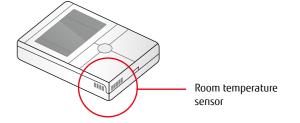
The Simple Remote Controller can manage to energy saving operation in small buildings without the central control unit.





Built in room temperature sensor:

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



Specifications

Model name		UTY-RSRG UTY-RHRG					
Power Supply		1 1	DC 12V				
Dimensions (H x W x D)	mm	120 × 75 × 19.4					
Weight	a	120					

DC12V is supplied by indoor unit.

Wireless Remote Controller

Max. controllable Selectable 16 indoor units daily timers

UTY-LNHG

Simple and sophisticated operations with a choice of 4 daily timers

• A single controller controls up to 16 indoor units.

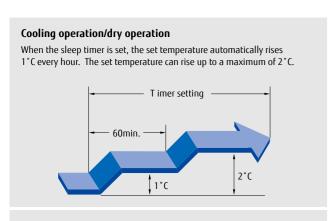


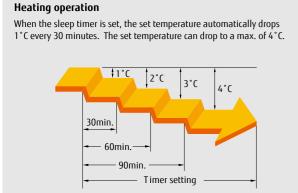
Functions

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.

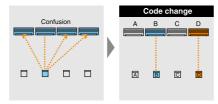
Sleep timer: The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or heating during sleep hours.





Easy installation and operation

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

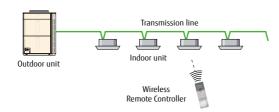


Wide and precise



Address setting

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



Specifications

-		
Model name		UTY-LNHG
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

Necessary to control for all Duct types* by 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.



Functions

Wiring connection



Specifications

Model name		UTB-YWC
Power Supply		DC 5V
Dimensions (H x W x D)	mm	145 × 90 × 30
Weight	g	150

IR Receiver Unit

UTY-LRHGB1

Cassette type indoor unit can be controlled with Wireless Remote Controller



Functions



	เตลเ	

•		
Model name		UTY-LRHGB1
Power Supply		DC 5V
Dimensions (H x W x D)	mm	193.9 × 193.9 × 31.2
Weight	g	140

Group Remote Controller

UTY-CGGG

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 (UTY-VGGXZ1) is required to connect Group Remote Controllers to a VRF network system.

(Network Convertor allows up to 4 Group Remote Controllers)

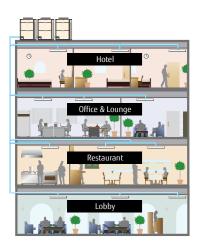


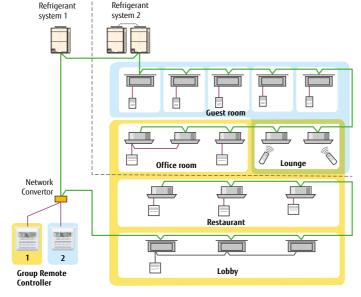


Functions

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.

- 1. The timer can be set up for up to 4 times per day. (On / Off, operating mode, set temperature)
- 2. Allows separate settings for each day of the week.

Specifications

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

DC12V is supplied by indoor unit.

Central Remote Controller

Max. controllable Max. controll 100 16 groups

UTY-DCGG

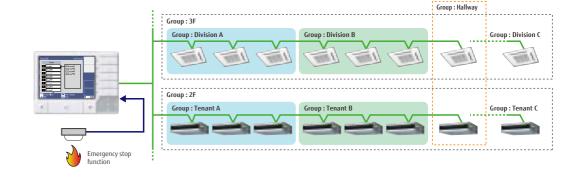
Central control of small- and medium-sized buildings and tenants. The operation status of all connected indoor units can be viewed at a glance on a large LCD monitor to simplify individual control to batched control.

- 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)

Functions

System overview

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



Functions

Diverse control of indoor units



(All, On / Off, Mode, Temp, Timer, Filter)

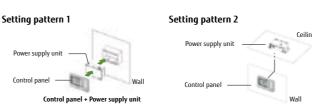


• Error history

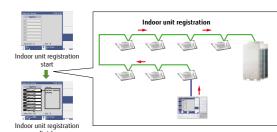
Automatic clock adjustment

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-DCGG		
		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

400 100 400

UTY-DTGGZ1

- · 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

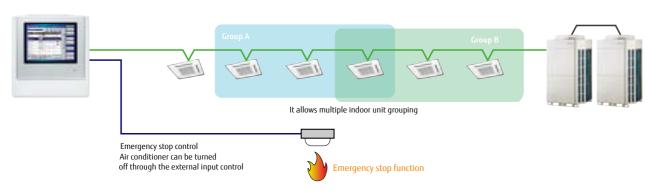


Easy installation

- 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

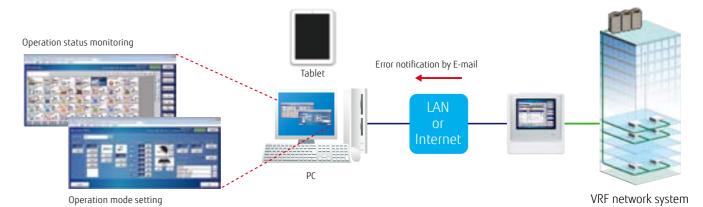


Up to 400 indoor units can be controlled



Control & monitoring 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.









operation monitoring

Not only operations but also detail settings such as schedule or group settings can be operated from remote locations.

Smart Phone

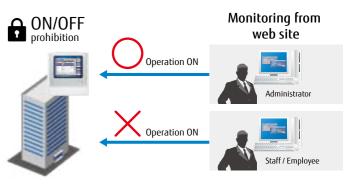
Model name	Browser	
Nexus 6P (Android 7.1.1)	Google Chrome 5.5	
iphone7 (iOS 10.1)	Safari 10	



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.

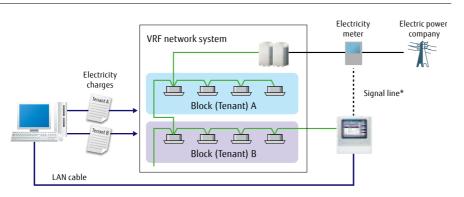
Additional language is displayed on only the remote device, and Touch Panel Controller cannot be added other languages.



Functions

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.

Option UTY-PTGXA

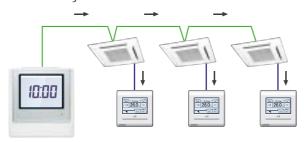
Automatic summer time setting

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

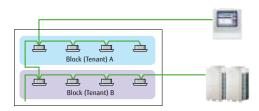
2) The time setting of each controller can be set in batch automatically.



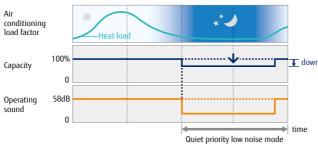
Outdoor low noise operation

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

The operaion time can be set using the timer.



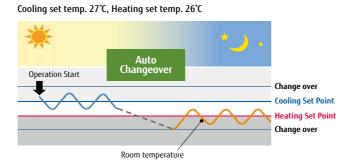
Quiet priority setting



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.



FUNCTIONS SUMMARY

	UTY-DTGGZ1	Monitoring side
Air conditioning control function	n .	,
On / Off	•	•
Operation mode setting	•	•
Fan speed setting	•	•
Room temp. setting	•	•
Room temp. set point limitation	•	•
Test operation	•	•
Up/down air direction flap setting	•	•
Right/left air direction flap setting	•	•
Individual louver control	● *1	•
Group setting	•	•
RC prohibition	•	•
Anti freeze setting	•	•
Set temp. auto return	-	•
Various energy saving control	-	•
Economy mode setting	•	•
Human sensor control	-	•
Custom Auto setting	•	•
Display		1
Error	•	•
Defrosting	•	•
Current time	•	•
Day of week	•	•
R.C. prohibition	•	•
Cooling/heating priority	•	•
Address display	•	•
Room temp	•	•
Multi language	•	•
Summer time	•	•
Time zone setting	•	•
Name registration	•	•
Backlight	•	•
Language setting	7	7+other
		1

∩ · Ontional function	

*1 Only setting cancellation can be operated.
*2 This function is available only through external input control.

	UTY-DTGGZ1	Monitoring side			UTY-DTGGZ1	Monitoring side
trol function			Timer			
	•	•		Period	Year	Year
	•	•	Schedule timer	On/off, Temp,	20	20
	•	•		Mode, Times per day	20	20
	•	•	On/off timer		-	_
itation	•	•	Sleep timer		_	_
	•	•	Program timer		-	-
setting	•	•	Auto off timer		-	•
p setting	•	•	Day off		•	•
	•*1	•	Min. unit of timer	setting (Minutes)	10	10
	•	•	Control			
	•	•	Status monitoring	system	•	•
	•	•	Electricity charge	apportionment	0	0
	-	•	Error history		•	•
itrol	-	•	Emergency stop		•*2	•*2
	•	•	Remote managen	nent	-	•
	-	•	Energy saving ma	nagement	-	-
	•	•	E-mail notification	n for malfunction	-	•
	•	•	Key lock		• Password setting	-
	•	•	Low noise mode		•	•
	•	•	- Eow Holse Hidde			
	•	•	-			
	•	•	-			
			-			
	•	•				
	•					

Specifications

Model name		UTY-DTGGZ1
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

System Controller Software

UTY-APGXZ1

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.



UTY-ALGXZ1

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.







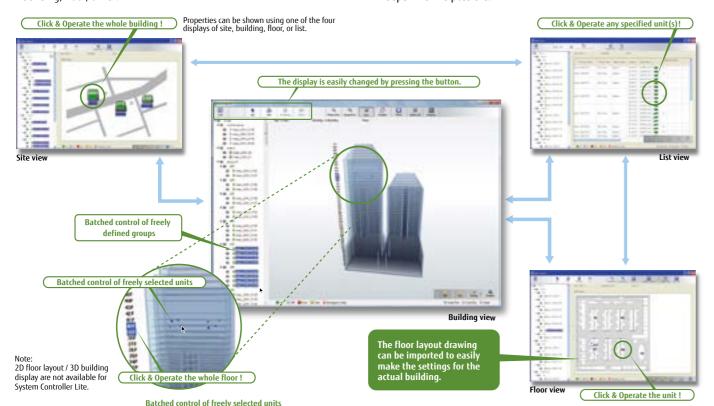
100

Functions

User friendly view and operation

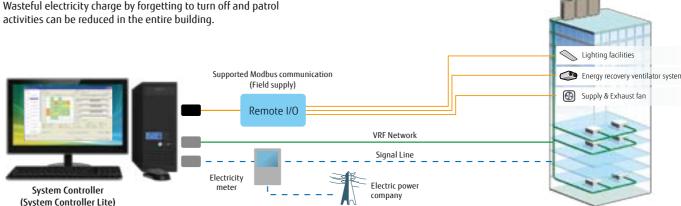
• Click & Operate: The property is shown visually from the perspective most suitable for operation and operated accordingly (Click & Operate). You can select from among the 4 displays of site, building, floor, or list.

• 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



Standard for System Controller

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
- Settings can be made for periods straddling midnight.
- Allows programming of special settings for holidays, including public holidays, for a complete year.
- Low noise operation of outdoor unit can be scheduled.

Diverse control of indoor 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.

Option for System Controller Lite UTY-PLGXX2

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.

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)



Functions

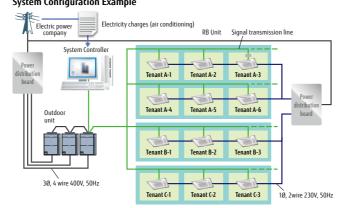
Electricity charge apportionment

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.

Standard for System Controller Option for System Controller Lite UTY-PLGXA2 System Configuration Example



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 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.

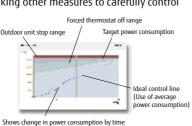
Energy Saving Management Main Screen

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

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

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.



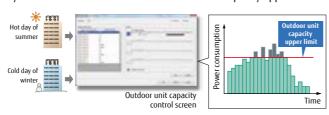
Indoor unit rotation operation

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



Outdoor unit capacity save

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



FUNCTIONS SUMMARY

			System controller		System controller lite				
Function		Туре	UTY-APGXZ1	Option UTY-PEGXZ1	UTY-ALGXZ1	Option UTY-PLGXR2	Option UTY-PLGXA2	Option UTY-PLGXE2	Option UTY-PLGXX
	Max. VRF networks si		4	_	1	_	_	_	_
System		note controller groups per VRF network	400	_	400	_	_	_	_
specification	Max. outdoor units p		100	_	100	_	_	_	_
эрсспісаціон		mote controller groups per System controller	1600	_	400	_	_	_	_
	Max. outdoor units p	er System controller	400		100		_		_
	Multi site display		10	_	10	_	_	_	_
	Number of building / 1 site		20	_	_	_	_	_	_
	Number of floor per 1		200	_	_	_	_	_	_
Site	Number of floor per 1		50	_	_	_	_	_	_
supervision	3D graphical layout v	iew	•	_	_	_	_	_	_
supervision	2D graphical layout v	iew	•	_	_	_	_	_	_
	List display		•	_	•	_	_	_	_
	Tree display		•	-	•	-	-	-	_
	Group display		•	_	•	_	_	_	_
r	Error notification		•	_	•	_	_	_	_
Error	Audible alarm		•	_	•	-	_	_	_
management	Error e-mail notificat	ion	•	-	•	-	_	_	_
	Error history		•	_	•	_	_	_	_
History	Operation history		•	_	•	_	_	_	_
,	Control history		•	-	•	_	_	_	_
		On/Off	•	_	•	_	_	_	_
		Operation mode	•	_	•	_	_	_	_
		Room temperature	•	_	•	_	_	_	_
		Fan speed	•		•	_	_		_
	Individual	Air flow direction	•	-		_	_	_	_
	control	Economy mode		_	•	_	_	_	_
	Control	Room temperature set point limitation	•	_	•	_	_	_	_
Operation		Test operation		-		_			
control		Antifreeze	•		•			-	
COILLIOI		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	-	-	-	_
Schedule	On / off per week		504	_	504	_	_	_	_
	Day off		•	_	•	_	_	_	_
	Min. unit of timer set		10	_	10	-	_	-	-
	Low noise mode Wee	kly schedule	•	_	•	_	_	_	_
	Remote monitoring		•	_	_	•	_	_	_
Remote	Remote operation co	ntrol	•	_	_	•	_	_	_
managemment	Remote function sett	ing	•	_	_	•	_	_	_
	Web Remote Controll	er	•	_	_	•	_	_	_
	Apportionment charg	e/bill calculation	•	_	_	_	•	_	_
El a con	Tenant (block) setting	q	•	_	_	_	•	_	_
Electricity	Common facilities ap	portionment setting	•	_	-	_	•	_	_
charge		ption allotment setting	•	_	-	_	•	_	_
apportionment		at cooling and heating	-	•*	-	-	•	_	_
	Electricity meter supp		-	•	-	-	•	_	_
	Indoor unit rotation		_	•	-	_	_	•	_
	Peak cut control		-	•	-	_	_	•	_
Energy	Outdoor unit capacity	/ save		•	_	_	_	•	_
saving	Record of energy savi			•	_	_	_	•	_
management	Energy saving inform			•	_	_	_	•	_
	Power consumption r		+	•		_		•	
	Electricity meter supp			•	- -		-	•	_
External Device	Monitor	Jorea	•					_	-
	Control			- -	_	_	-		
Control					-				
04	Database import/exp		•	-	•	-	-	-	_
Others .	Automatic clock adju	stment	7 languages	_		_	_	_	_
	Multi language			_	7 languages	l –	_	_	_

Personal computer system requirements

	System Controller	System Controller Lite			
Operating system	 Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64 Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-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 connection - 1 USB port is required for Echelon® U10 USB Network Interface * The maximum number of required USB port depends on the applicable system configuration.			
Graphic accelerator	Microsoft® DirectX® 9.0c compatible				
Software	Adobe® Reader® 9.0 or later				

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

<pacning list=""></pacning>							
	For System	For System controller		For System controller Lite			
Type 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

123

^{*1:} Software protection key to be inserted in a USB slot running System Controller or System Controller Lite. System Controller or System Controller Lite may only run on a PC with WHITE-USB-KEY. However, WHITE-USB-KEY is not required for remote VRF Explorer software

BACnet® Gateway







UTY-ABGXZ1

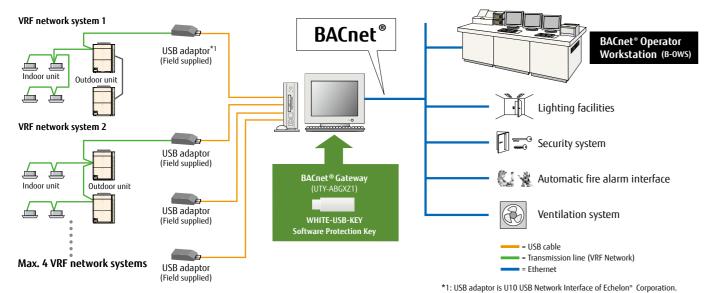
- It is possible to connect medium to large sized BMS to VRF network system via BACnet®, a global standard for open networks.
- A maximum of 1600 indoor units with 4 VRF network systems (a maximum of 400 indoor units & 100 outdoor units for one network system) can be connected to one BACnet® Gateway.
- • It is possible to control or monitor VRF network system from BMS via BACnet $^{\tiny{\textcircled{\tiny 0}}}$ Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.
- $\bullet \ \, \text{Scheduling function, Alarm \& Event functions as well as Electricity Change Apportionment function are provided in BACnet @ Gateway. } \\$
- 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.



WHITE-LISB-KEY

Functions

Installation example



Personal computer system requirements

	UTY-ABGXZ1		
Operating system	Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish		
CPU	Intel® CoreTM i3 2 GHz or higher		
Memory	• 2 GB or more (for Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)		
HDD	40 GB or more of free space		
Display	1024 x 768 or higher resolution		
Interface	Ethernet port (for getting access to the Internet using LAN) USB ports (Maximum of 5 ports) 1 USB port is required for WHITE-USB-KEY/WibuKey connection Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB ports depends on the applicable system configurations.		
Software	Adobe® Reader® 9.0 or later		

	CKING LIST>		
Nam	ne and shape	Quantity	Application
WHI	TE-USB-KEY	1	Includes the software and manuals, license for BACnet® Gateway.

BACnet® Gateway (Hardware)

Max. controllate 1 VRF network systems

Max. control

Max. controllable 128 indoor units

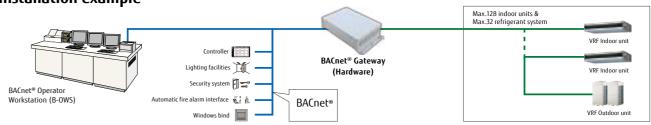
UTY-VBGX

- 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-135-2010) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet

Hanney

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	208-240V 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

4

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®

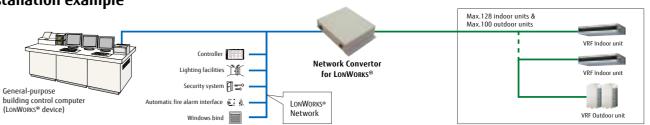


128

100

Functions

Installation example



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

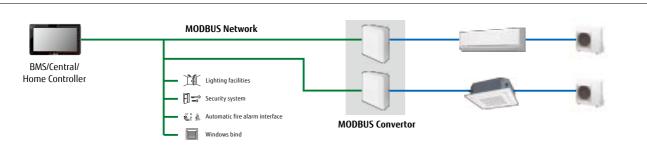
MODBUS® Convertor for Indoor Unit

UTY-VMSX

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

- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS Convertor must be connected one by one in the indoor unit.
- The MODBUS Controller permits central monitoring and control of air conditioners from BMS/Central/Home Controller.

Functions



Specifications

Model name		UTY-VMSX
Power Supply		DC12V
Input Power	W	Max. 1.2
Dimensions (H x W x D)	mm	140 × 117 × 43
Weight	g	200

Temperature	Operating / Packaged	°C	0~46 / -10~60
Humidity	Operating / Packaged	%	0~95 / 0~95
Maximum Connectable indoor unit number per 1 MODBUS Convertor			1

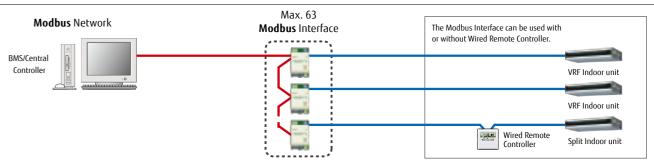
MODBUS® Interface

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

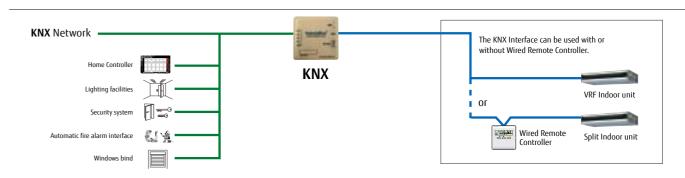
KNX® Interface

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

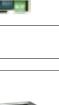
Model name		FJ-RC-KNX-1i
Dimensions (H x W x D)	mm	70 × 70 × 28
Weight	g	70

126













KNX® Convertor (for VRF)

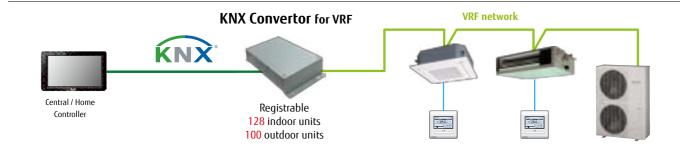
Max. controllable 128 100 outdoor units

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

Madalasas		HTV MICCY	
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	a	1,200	

KNX® Convertor (for Indoor unit)

Max. controllable

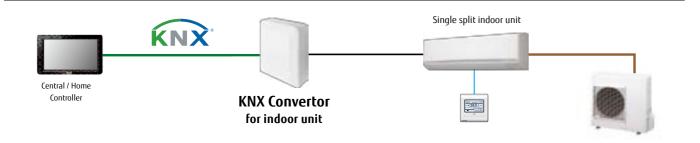
1
Single indoor unit

UTY-VKSX

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 indoor unit.
- Compact and light weight design

Functions



Specifications

Model name		UTY-VKSX			
Power Supply		(DC12V)			
Input power	W	0.6			
Dimensions (H x W x D) mm		140 × 117 × 43			
Weight	g	250			

Wireless LAN Interface

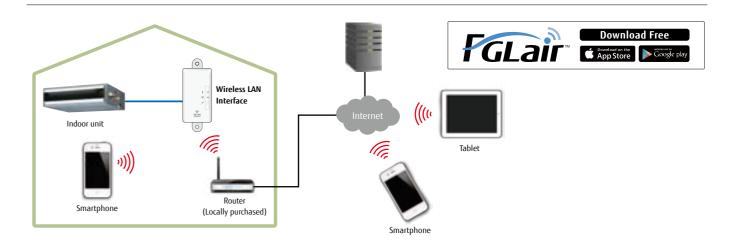
UTY-TFSXZ1

- 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



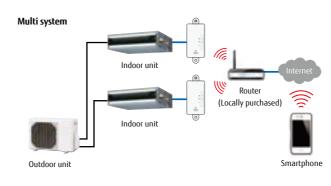


Functions



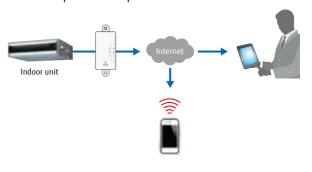
Basic control

- 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.

-						- •		
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Model name		UTY-TFSXZ1
Dimensions (H x W x D)	mm	71 × 38 × 15
Weight	g	85

Wireless LAN Interface IntesisHome

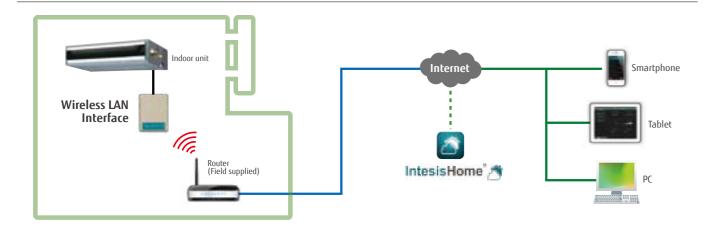


FJ-RC-WIFI-1

- 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)

Specifications

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

Network Convertor

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



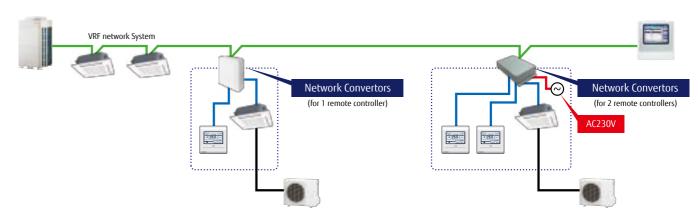
16

100

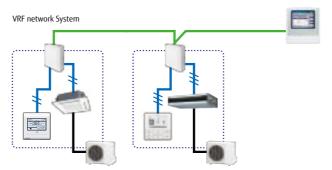
Functions

Installation example

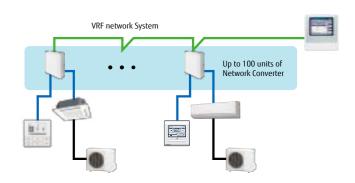
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60Hz) is required for 2 remote controllers type.



- 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. 1.2		Max. 3	
Dimensions (H x W x D)	mm	140 × 117 × 43		54 × 260 × 150	
Weight	g	250		1,100	

Network Convertor

UTY-VGGXZ1

- This Network Convertor is to be used for connecting single split system or Group Remote Controller (UTY-CGGY / UTY-CGGG) with the VRF network system.
- Please select the function by switching the dip switch during the installation.

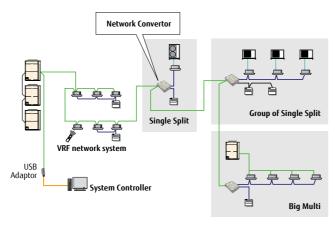




Functions

Used for connecting single split system

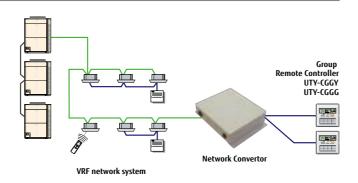
- Split type systems can be centrally controlled from Touch Panel Controller or System Controller through connection to the VRF's network convertor.
- On / Off Control, Master control, Room temperature and Fan speed setting via the Network Convertor are available.
- One Network Convertor can be used to connect and control up to 16 single units.



Please consult your distributor for connectable split type air conditioner. Up to 100 Network Convertors may be connected in single VRF network system One Network Convertor is considered as a single refrigerant system, irrespective of the number of connected single models.

Used for connecting **Group Remote Controller**

4 Group Remote Controllers can be connected to a single Network Convertor (UTY-VGGXZ1).



st 2 refrigerant circuits can be covered by a single Network Convertor (UTY-VGGXZ1) . Up to a total of 16 Network Convertors (UTY-VGGXZ1) and System Controlled adaptors can be connected in a single VRF network system

Specifications

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	g	1,500			

External Switch Controller

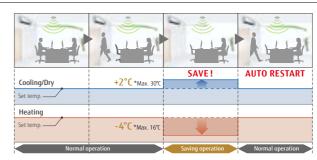
UTY-TERX

- 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	

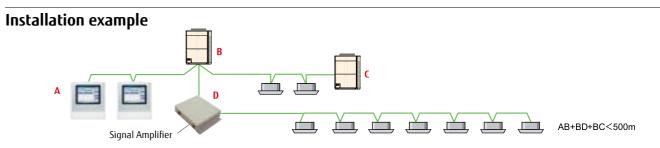
DC12V is supplied by indoor unit.

Signal Amplifier

UTY-VSGXZ1

- 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.

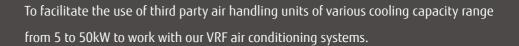
Functions



Specifications

Madelassas		UTV NECVO			
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			





Outdoor Air Unit

DX-Kit for airhandling applications

VENTILATION

Outdoor Air Unit

Models ARXH054GTAH ARXH072GTAH ARXH096GTAH

The heat pump method efficiently processes the outdoor air for cooling and heating and supplies 100% fresh air into a room.



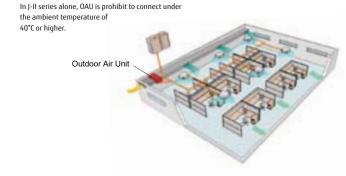


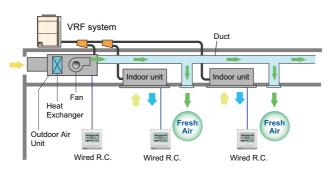


One VRF system can provide air conditioning and air supply at the same time.

Outdoor Air Unit can be connected in a same VRF*1 system as one of indoor unit series and can create fresh and comfortable air supply together from our high advanced technology.

*1. Connectable VRF series:J-IIS, J-II, V-II, V-III, J-III, J-IIIL In J-II series alone, OAU is prohibit to connect under the ambient temperature of





* Make sure the connected capacity is within the range of 50% to 100% of the outdoor unit capacity. In addition, if there are mixed connections with indoor units, make the Outdoor Air Unit connection capacity 30% or less of the outdoor unit capacity.

Specifications

Rated flow rate			1000 m³/h	1500 m³/h	2000 m³/h
Model No.			ARXH054GTAH	ARXH072GTAH	ARXH096GTAH
Power source			230/1/50	230/1/50	230/1/50
Capacity	Cooling	1.107	14.0	22.4	28.0
Capacity	Heating	kW	8.9	13.9	17.4
Input Power	Cooling / Heating	W	179	292	370
Airflow Rate		m³/h	1,080	1,680	2,100
Static Pressure	Static Pressure Standard (range)		185 (50-185)	200 (50-200)	200 (50-240)
Sound Pressure Level	•	dB (A)	42	44	47
Dimensions (H x W x D)		mm	425×1,367×572	425×1,367×572	450×1,583×700
Weight			48	55	71
Connection Pipe Diameter (Small / Large) mm			Ø9.52/Ø19.05	Ø12.70/ Ø22.22	Ø12.70/ Ø22.22
Operation Range	Cooling	°CDB	5 to 43	5 to 43	5 to 43
Operation Range	Heating	CDB	-7 to 21	-7 to 21	-7 to 21
Refrigerant			R410A	R410A	R410A

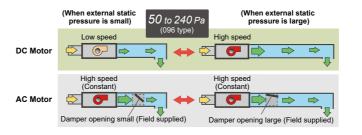
Note: Specifications are based on the following conditions Cooling: Outdoor temperature of 33°CDB / 28°CWB. Heating: Outdoor temperature of 0°CDB / -2.9°CWB. Pipe length: 7.5 m Voltage: 230 [V].

High energy savings and flexible duct design by using DC motor

· Greatly reduces electricity consumption by adopting permanent magnet compared to when using an AC motor.



- · Compared with AC motor, changing the speed makes it possible to respond flexibly to the external static pressure from 50 Pa to 240 Pa. Even if damper equipment is not used, static pressure can be adjusted and duct design is easy.
- · Static pressure can be set easily using wired remote controller.



Top class compact design

• Top class lightweight compact design at just 425 mm in height, 55 kg in weight for ARXH072 type. This unit can be installed easily even at narrow space.



Various Controller

Supplied variety of controllers as options, such as individual controller, central controller, and building management

Individual Controller



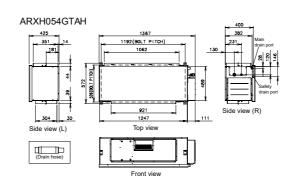
Central Controller

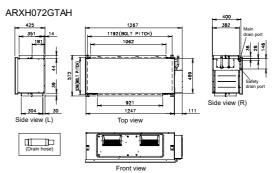


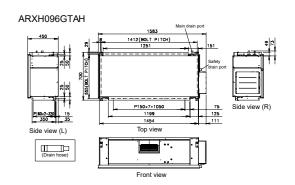
* The temperature setting is discharged air temperature setting. The air volume is set to a constant speed.

Dimensions (Unit:mm)

Models: ARXH054GTAH / ARXH072GTAH / ARXH096GTAH







DX-Kit for air handling applications

Models
Control unit
UTY-VDGX

EEV unit UTP-VX30A UTP-VX60A UTP-VX90A

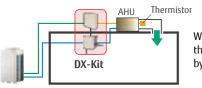
These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a General VRF system or, be connected to a dedicated General VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).



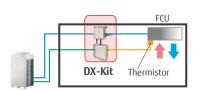


Feature

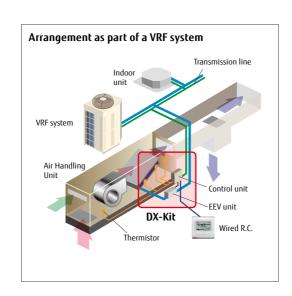
Multiple temperature sensors optimally control the air handling unit and fan coil unit.



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

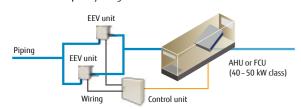


When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.



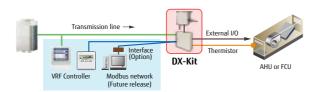
Supports a wide range of capacity classes

- 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

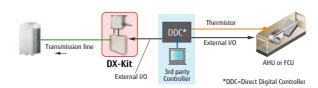


A variety of controls to match the application

 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

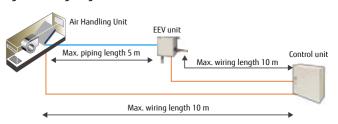
Single connection



Mixed connection
 DX-Kit
 DX-Kit
 Air Handling Unit
 Within 30% of total 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			
Canacibu	Cooling	kW	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(Ref	erence 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 (Option)

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





Feature

Flexible Control

• Operation with indoor unit

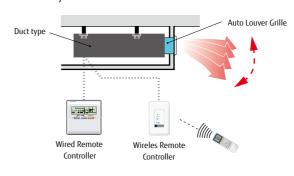
Auto Louver can be operated by synchronizing remote controller of indoor unit.

• UP and Down auto swing

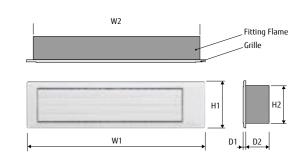
- Auto airflow direction and auto swing 4 steps selectable

• 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	oor Unit	ARXD04/07/09/12/14GALH ARXK018GALH ARXK04/07/09/12/14GCLH ARXK18GCLH									
Power source				Connecting with Control box of indoor unit							
Fixing of Auto I	ouver Grille			Screw fixing to Flange or Square Duct							
Extension Squa	re Duct Limit			1.0m (Max. duct length between indoor unit and Grille)							
Dimensions (H	× W × D)	mm	180 × 683 × (84+9)	180 × 1083 × (84+9)							
Wajaht	Net	lia I	2.0	2.5	3.0						
Weight	Gross	kg	3.0	3.5	4.0						
Color	•	· 1		White							
Louver Motor				Stepping Motor							
Accessories				Fitting Flame, etc.							
	Carlia	°C		18 to 32							
Operation Range	Cooling	% RH		80% or less							
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.

OPTIONAL PARTS LIST

					Cassette					Duct		Indoo	r unit Flo	nor.	I	I	1		Walls	ounted		
			4-way	4-1	way		ar Flow	Mini (With drain	Slim (With drain	Medium Static	High Stati	r Pressure	_	EEV	Ceiling / Floor	Ceiling	_	EEV	wall M	EEV		
Тур	e		AUXB 04GBLH,	AUXD	AUXA	AUXM	AUXK 018/024/	pump) ARXK	pump) ARXD	Pressure	ARXC36	ARXC72/	AGHA	external AGHE	ABHA	ABHA	ASHA	external ASHE	ASHA	external ASHE	ASHA	ASHA
		,	AUXB 07/09/12/ 14/18/24 GALH	18/24 GALH	18/24/30/ 34/36/45/ 54GALH	018/024/ 030GLAH	030/034/ 036/045/ 054GLAH	04/07/09/ 12/14/18/ 24GCLH	04/07/09/ 12/14/18/ 24GALH	24/30/36/ 45GBLH	GBTH, ARXC45/60 GATH	90GBTH, ARXC96 GATH	004/007/ 009/012/ 014GCAH	004/007/ 009/012/ 014GCAH	12/14/18/ 24GATH	30/36/45/ 54GATH	004/007/ 009 GTAH	004/007/ 009 GTAH	012/014 GCAH	012/014 GCAH	18/24 GBCH	030/034 GTAH
	Wired Remote	1/260 =										UTY-R	NRGZ2									
	Controller											UTY-	RLRG									
	Simple Remote Controller	2-wire type 3-wire type								U	TY-RSRG, I	JTY-RHRG	UTY-RSK	G, UTY-RHI	KG							
	Wireless Remote Controller											UTY-	LNHG									
	Group Remote Controller										UT	Y-CGGG +	UTY-VGGX	Z1								
	Central Remote Controller			● UTY-DCGG																		
	Touch Panel Controller			UTY-DTGGZ1																		
	System Controller, System Controller Lite										UT	Y-APGXZ1,	UTY-ALG	KZ1								
	Wireless	0				UTY-T	-						UTY-T	FSXZ1				UTY-T	FSXZ1			UTY- TFSXZ
	LAN Interface		F,	● J-RC-WIFI-	-1				F	• J-RC-WIFI-	1				`	WIFI-1			F	● FJ-RC-WIFI-	1	
	KNX Convertor	>]]		● UTY-VKGX	(UTY-	VKSX VKGX			● UTY-VKGX			UTY- UTY-		l	VKGX		UTY-	VKSX VKGX		UTY- VKGX	UTY- VKSX UTY- VKGX
	KNX Interface		FJ	● J-RC-KNX-	·1i				FJ	J-RC-KNX-	1i				l	KNX-1i			F	● J-RC-KNX-	1i	
	MODBUS Convertor	V]	ı	● UTY-VMG〉	K	UTY-\ UTY-\	VMSX		ı	● UTY-VMGX	(UTY-	VMSX VMGX	l	● VMGX		UTY-	VMSX VMGX		UTY- VMGX	UTY- VMSX UTY- VMGX
	MODBUS Interface	Tendor of	F,	J-RC-MBS-	-1				FJ-RC-1	MBS-1					FJ-RC-	MBS-1			FJ-RC-	MBS-1		
	External																					

Others

		<u> </u>		Carrotto					Duct		Indoo	or unit				I		14/-II 14			
				Cassette			Mini	Slim	Medium			Flo		Ceiling /	Ceiling		FF)/	walim	ounted		
Туре		4-way Compact	4-1	way	Circul	ar Flow	(With drain pump)		Static Pressure	High Stat	ic Pressure	-	EEV external	Floor	Cenning	_	EEV external	-	EEV external	-	-
		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	AGHA 004/007/ 009/012/ 014GCAH	AGHE 004/007/ 009/012/ 014GCAH	ABHA 12/14/18/ 24GATH	ABHA 30/36/45/ 54GATH	ASHA 004/007/ 009 GTAH	ASHE 004/007/ 009 GTAH	ASHA 012/014 GCAH	ASHE 012/014 GCAH	ASHA 18/24 GBCH	ASHA 030/034 GTAH
IR Receiver Unit			UTY-L	RHGB1	UTY-I	● LBHXD			UTB-YWC												
Human Sensor Kit	10				1	SHZXC															
Remote Sensor Unit	New amenity space can be offered by installing the Remote sensor.								UTY-XSZX												
Cassette Grille	UTG-UKGA-B UTG-UFGD-W UTG-UFGD-W	UTG- UFGD-W	`	■ IGGA-W		● JKGC-W JKGA-B															
Auto Louver Grille Kit							UTD-GX	SXTA-W TB-W(18) TC-W(24)													
Long Life Filter									UTD- LF25NA	UTD- LF60KA											
Flange	0-								UTD- SF045T UTD- RF204						UTD- RF204						
Drain Pump Unit									UTZ- PX1NBA						UTR- DPB24T						
Wide Panel	Indoor unit 950 600 Panel 600 (mm)			KXA-W GYA-W	1	● AKXA-W															
Panel Spacer	(mm) 242 Panel spaces		UTG-B	KXA-W GYA-W	1	● BKXA-W															
Fresh Air Intake Kit	For Compact For Cassette Cassette	UTZ- VXAA	l	● VXRA	1	• -VXRA															
Air Outlet Shutter Plate	For Compact Cassette For Cassette	UTR- YDZB	l	• -YDZK	1	• -YDZK															
Insulation for High Humidity	For Compact Cassette type / Cassette type	UTZ- KXGC	UTZ- KXRA	UTZ- KXRA	1	• KXRA															
Half Concealed Kit	This kit is used to half conceal floor type indoor unit into the wall.												-STA								

OPTIONAL PARTS

Controllers For Individual Control Simple Remote Controller Wired Remote Controller (Touch Panel) **Wired Remote Controller** UTY-RNRGZ2 UTY-RLRG UTY-RSRG With operation mode | Mode | Set Temp. | Figs. | Figs. | Auto Simple Remote Controller Wireless Remote Controller **IR Receiver Unit** UTY-RHRG UTY-LNHG UTB-YWC Without operation mode For All Duct types except Large Airflow Duct **IR Receiver Unit Human Sensor Kit** UTY-LRHGB1 UTY-SHZXC For Cassette type For Circular Flow Cassette type

For Centralized Control

Group Remote Controller UTY-CGGG



Central Remote Controller



Touch Panel Controller UTY-DTGGZ1

Option

UTY-PTGXA





System Controller Lite Software UTY-ALGXZ1





System Controller Software UTY-APGXZ1



UTY-DCGG



Convertors / Adaptors

For External device

BACnet® Gateway Software UTY-ABGXZ1 WHITE-USB-KEY (Software Protection Key)	Network Convertor for LonWorks® UTY-VLGX	MODBUS® Convertor for VRF UTY-VMGX	MODBUS® Convertor for Indoor Unit UTY-VMSX
MODBUS® Interface FJ-RC-MBS-1	KNX® Convertor for VRF UTY-VKGX	KNX® Convertor for Indoor Unit UTY-VKSX	KNX® Interface FJ-RC-KNX-1i
Wireless LAN Interface FJ-RC-WIFI-1	Wireless LAN Interface UTY-TFSXZ1		

For System expansion

Network Convertor for single split UTY-VTGX DC power supply type	Network Convertor for single split UTY-VTGXV AC power supply type	Network Convertor for Group Remote Controller UTY-VGGXZ1	External Switch Controller UTY-TERX
Signal Amplifier UTY-VSGXZ1			

Panels

Cassette Grille	Cassette Grille	Cassette Grille	Cassette Grille
UTG-UFGC-W	UTG-UGGA-W	UTG-UKGC-W	UTG-UKGA-B
For Compact Cassette type	For Cassette type	For Circular Flow Cassette type	For Circular Flow Cassette type

OPTIONAL PARTS

For Duct type

Flange (Round)

UTD-RF204 For Medium Static Pressure Duct type / Ceiling type

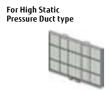
Flange (Square) UTD-SF045T

For Medium Static Pressure Duct type









UTD-LF60KA

Auto Louver Grille Kit

UTD-GXTA-W (for ARXD04/07/09/12/14, ARXK04/07/09/12/14) UTD-GXTB-W (for ARXD18, ARXK18) UTD-GXTC-W (for ARXD24, ARXK24)

For Slim Duct type / Mini Duct type



Drain Pump Unit

Remote Sensor Unit

UTZ-PX1BBA For Low Static Pressure Duct type

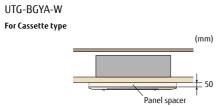
UTZ-PX1NBA

For Medium Static Pressure Duct

For Cassette type



Panel Spacer



Insulation Kit for High Humidity UTZ-KXRA

For Cassette type

UTZ-KXGC

For Compact Cassette type



Fresh Air Intake Kit

UTZ-VXAA For Compact Cassette type UTZ-VXRA For Cassette type



 $\mbox{\ensuremath{^{\star}}}$ Not applicable for VRF V-II tropical and V-III tropical series

Air Outlet Shutter Plate

UTR-YDZB

For Compact Cassette type

Shuts the air outlet when only using as 3 blow out.



Air Outlet Shutter Plate

UTR-YDZK

For Cassette type

Shuts the air outlet when only using as 3 blow out.



For Ceiling type

Drain Pump Unit UTR-DPB24T For Ceiling type



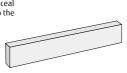
For Floor type

Half Concealed Kit

UTR-STA

For Floor type

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



Others

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 Remot	te Controller	For Touch Panel Co	ontroller
For RB unit UTY-XWZXZ6	For Central Remol	te Controller	For Touch Panel Co	entroller
		_		
UTY-XWZXZ6	UTY-XWZXZ7			

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

				ndoor unit						Outdoor unit			Contro		Other
		Cassette	Duct				Wall	J-IIIL	J-III	J-IIS	VR-II	V-III	Central Remote Controller	Touch Panel Controller	RB Unit
pe		4-way Compact, 4-way, Circular Flow	Mini (With drain pump), Slim (With drain pump), Medium Static Pressure, High Static Pressure	Floor, Floor EEV external	Ceiling / Floor	Ceiling	Mounted, Wall Mounted EEV external	AJH 072/090/108 LELAH	AJH 040/045/054 LBLAH, AJH 040/045/054 LELAH	AJH 040/045/054 LCLAH	AJHA 072/090/108/ 126/144 GALH	AJH 072/090/108/ 126/144/162 LALBH	UTY-DCGG	UTY-DTGGZ1	UTP-RX01AH UTP-RX01BH UTP-RX01CH UTP-RX04BH
Input	Operation / Stop			UTY-XWZXZ UTY-XWZXZ											
	All On / All Off												• UTY-XWZXZ7 • UTY-XWZXZ8	● *2 ○ *2	
	Batch Stop									• UTY-XWZXZ6	i				
	Forced Stop			UTY-XWZXZ UTY-XWZXZ											
	Emergency Stop			UTY-XWZXZ UTY-XWZXZ						● UTY-XWZXZ6	i		• UTY-XWZXZ7 • UTY-XWZXZ8	● *2 ○ *2	
	Forced Thermostat off			UTY-XWZXZ UTY-XWZXZ											
	Low Noise Mode Operation									● UTY-XWZXZ6	i				
	Cooling/ Heating Priority								● UTY-	XWZXZ6		● UTY-XWZXZ6			O UTY-XWZX
	Outdoor Unit Operation Peak Control									● UTY-XWZXZ6	i				
	Power Usage Information from Electricity Meter									• UTY-XWZXZF	:			● *2 ○ *2	
Outpu	Operation Status		•	UTY-XWZXZ	С					O UTY-XWZXZ6	,		O UTY-XV	VZXZA	
	Error Status		•	UTY-XWZXZ	С					O UTY-XWZXZ6	,		○ UTY-XV	VZXZA	
	Indoor Unit Fun Operation Status		•	UTY-XWZXZ	С										
	Auxiliary Heater Output		• UTY-XWZXZC												
	Base Heater									• UTY-XWZXZ)				

because Touch Panel Controller has an external input terminal block.

OPTIONAL PARTS

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

Specifications

Separation Tube

Model name		UTP-AX054A	ı	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 to 56.0			56.1 or more

Header

Model name	3-6 Branches		UTR-H0906L	UTR-H1806L
	3-8 Branches		UTR-H0908L	UTR-H1808L
Total cooling capacity of indoor unit kW		kW	28.0 or less	28.1 to 56.0
Model name	3-6 Branches		UTP-J0906A	UTP-J1806A
	3-8 Branches		UTP-J0908A	UTP-J1808A
Total cooling capacity of indoor unit kW		kW	28.0 or less	28.1 to 56.0

Outdoor unit Branch kit

Model name		UTP-CX567A (for V-III)	UTP-DX567A (for VR-II)	
Model name	2 outdoor units	1		
model flame	3 outdoor units 2	2		

EV Kit

Model name	UTR-EV09XB		UTR-EV14XB	
Application Model	ASHE004GTAH ASHE007GTAH ASHE009GTAH	AGHE004GCAH AGHE007GCAH AGHE009GCAH	ASHE012GCAH ASHE014GCAH	AGHE012GCAH AGHE014GCAH

RB Unit

Model name Number of Outdoor unit		Single type			Multi type
		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.