Refrigerant R410A INVERTER

FUJITSU

Variable Refrigerant Flow System

AIRSTAGE™

HEAT PUMP & HEAT RECOVERY

VRF CATALOGUE



FUJITSU GENERAL AUSTRALIA



Circular Flow Cassette

DESIGNED for COMFORT

AIRSTAGE™ VR-II
8 HP model



AIRSTAGE™ J-IIIL
14 / 16 HP model



The AIRSTAGE™ series provides high energy savings, comfort, and reliability to the end user.

Design, installation, and servicing are highly flexible and simple. We offer an abundant VRF system lineup to match regional and local customer needs with a range of combinations from low to high capacity.

For **Residential & Light Commercial**

AIRSTAGE™ J-IIIL

Heat Pump type
8 HP - 12 HP 3 Models / 3 phase
14 HP - 16 HP 2 Models / 3 phase



AIRSTAGE™ J-III

Heat Pump type
4 HP - 6 HP 3 Models / Single phase



AIRSTAGE™ J-IIS

Heat Pump type
4 HP - 6 HP 3 Models / Single phase



For **Commercial**

AIRSTAGE™ VR-II

Heat Recovery Modular type
for simultaneous heating and cooling operation
8HP - 48HP 33 models
- Space saving combinations: 8 HP to 48HP / 21 models
- Energy efficiency combinations: 16HP to 42HP / 12 models

AIRSTAGE™ V-III

Heat Pump Modular type
8HP - 48HP 33 models
- Space saving combinations: 8 HP to 48HP / 21 models
- Energy efficiency combinations: 16HP to 42HP / 12 models



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FLEXIBLE SOLUTIONS

Fujitsu General has been developing and manufacturing high quality and energy efficient products for more than 35 years. Using the latest Japanese technology and state of the art expertise, our products have been designed in accordance with our aim of creating the most comfortable environment possible, regardless of the project type or design.

AIRSTAGE™ Series



Property Suitability

RESIDENTIAL & LIGHT COMMERCIAL

Fujitsu General offers a diverse range of air conditioning systems focused on residential and small sized buildings.



COMMERCIAL

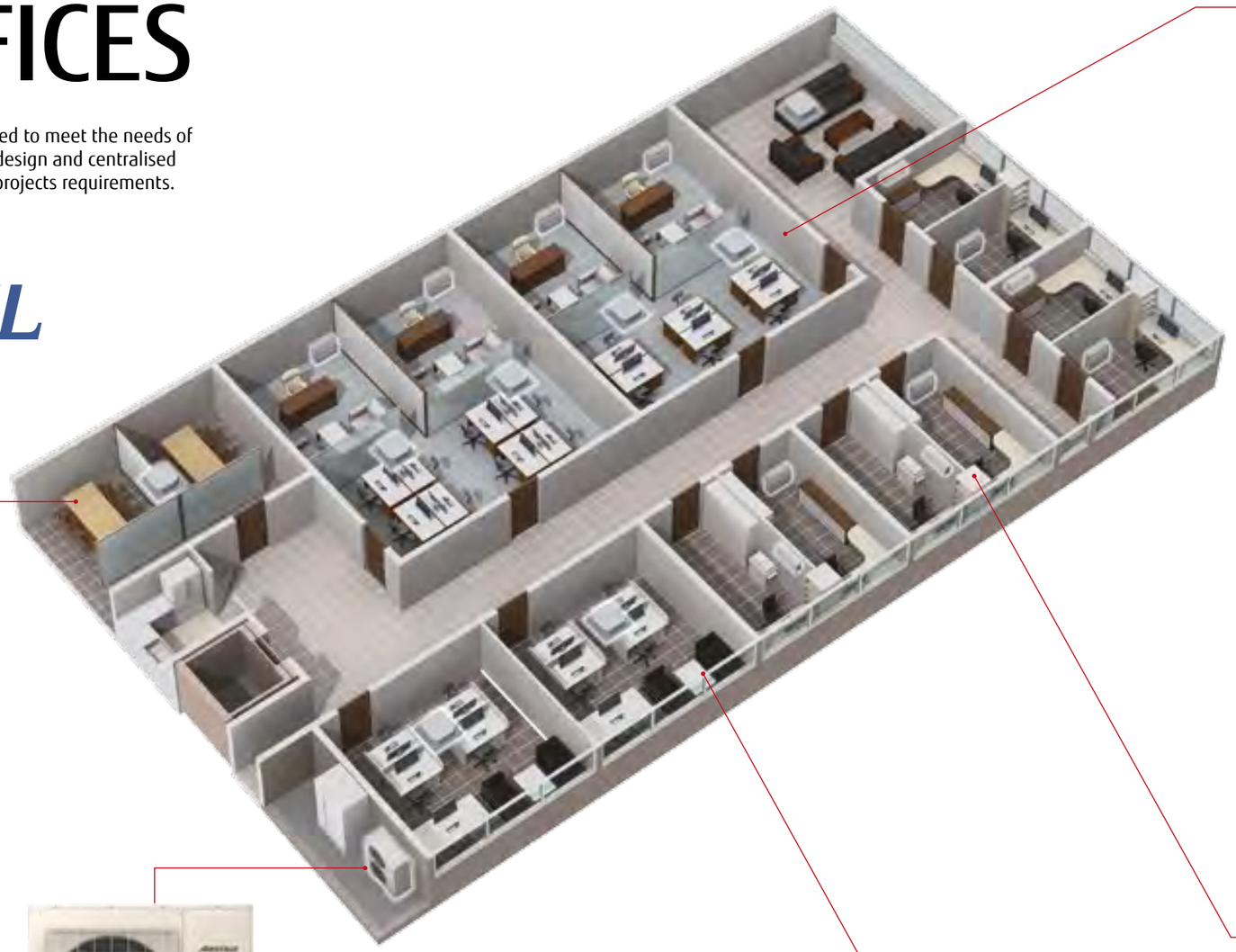
Fujitsu General provides single and modular type VRF systems with efficient operation, comfort, design flexibility, easy installation and consistent reliability.



SMALL OFFICES

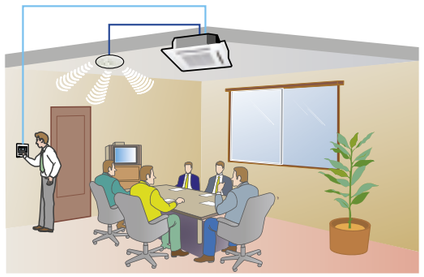
Fujitsu General provides a wide range of solutions designed to meet the needs of a small building. With energy saving features, low noise design and centralised control, this range is sure to meet your light commercial projects requirements.

AIRSTAGE™ J-IIIL



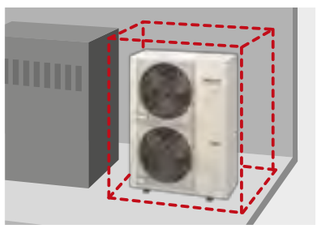
Energy saving solutions suitable for meeting rooms and business private offices

Energy saving features can be utilised with the human sensor feature and external input / output kit. This means unecessary power consumption will be prevented when no movement is detected in the room.



Compact outdoor unit with low noise

This compact outdoor unit achieves significant space saving, meaning you can install it on a rooftop or in a plant area. Low noise operation is possible at night by utilising low noise mode.





J-IIIL Series

Up to 16 HP using the compact outdoor unit

The J-IIIL Series is suitable for the buildings with multiple small rooms. Max. 30 indoor units can be connected.

Even airflow throughout your space



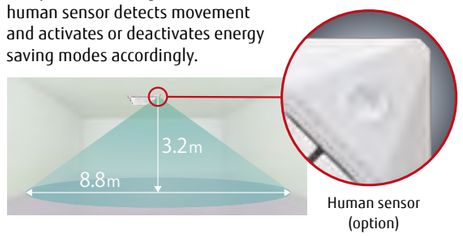
The Circular Airflow Cassette creates a consistent and even temperature via multi-directional airflow functionality.



Each louvre can be set individually by the controller* to prevent people from being exposed to direct airflow.



Energy saving operation commences when there are no occupants by linking up with the human sensor option. The unit will adjust its operation depending on the presence of occupants within a given room. The human sensor detects movement and activates or deactivates energy saving modes accordingly.



Human sensor (option)

Indoor units





Extensive range of low capacity indoor units to suit small rooms or spaces.

Centralised control of both air conditioning and third party equipment

It is possible to perform centralised control of third party equipment in addition to air conditioners. This is useful in allowing whole building energy saving management and control.

System Controller UTY-APGXZ1



*Touch panel wired RC (UTY-RNRYZ3)

VRF indoor units



Third party equipment



SHOPS, RESTAURANTS
& MIXED USE DEVELOPMENTS

Purpose built and tenant friendly solutions for small commercial complexes.

COMPLEX BUILDING

J-IIS Series



Centralised control

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

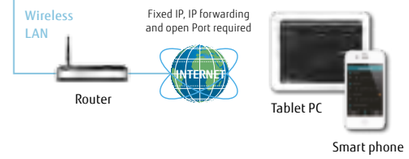


Central Remote Controller
UTY-DCGYZ1

Control and monitoring

The controller allows high visibility and easy operation as all settings are accessible from the main screen. The controller can be monitored remotely using a tablet or smart phone through a web browser to show detailed information of an error status and the ability to view key sensor values for troubleshooting.







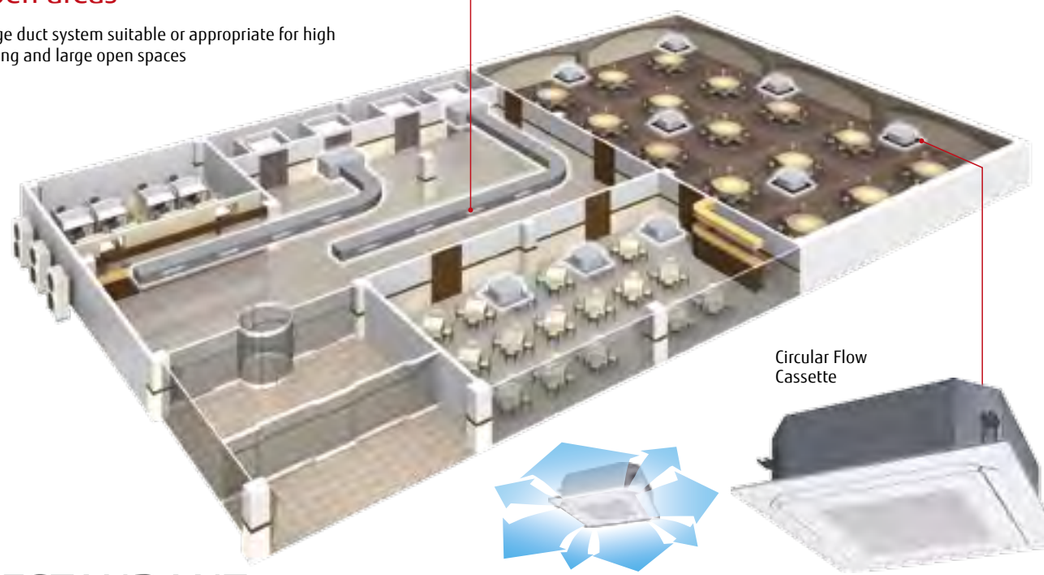
High Static Pressure Duct

Air conditioning options for open areas

Large duct system suitable or appropriate for high ceiling and large open spaces

AIRSTAGE™





Circular Flow Cassette



RESTAURANT

Uniform air distribution for large areas

Air distribution design allows for circular airflow to spread to every corner of the room.

SHOPS



Capable of cooling in low ambient conditions

Low outside air temperature cooling operation is necessary in winter in stores with a lot of heat inside. Our air conditioning systems allow flexibility supporting cooling operation at -15°C.

0-150 Pa



Medium Static Pressure Duct

HOTELS & APARTMENTS

Fujitsu General provides energy saving air conditioning systems offering flexible installation and cutting edge design solutions for hotels and apartments that also take into account comfort, efficiency, external appearance, and system safety features.

AIRSTAGE™

Simultaneous cooling and heating

The VR-II heat recovery series functionality allows simultaneous cooling and heating operation, with a maximum outdoor capacity of 48HP.



Smart and cutting edge design. Extensive lineup from 8 HP to 48 HP in 2 HP increments. Connectable indoor unit capacity ratio of 50 to 150%.

8HP-48HP 33 models

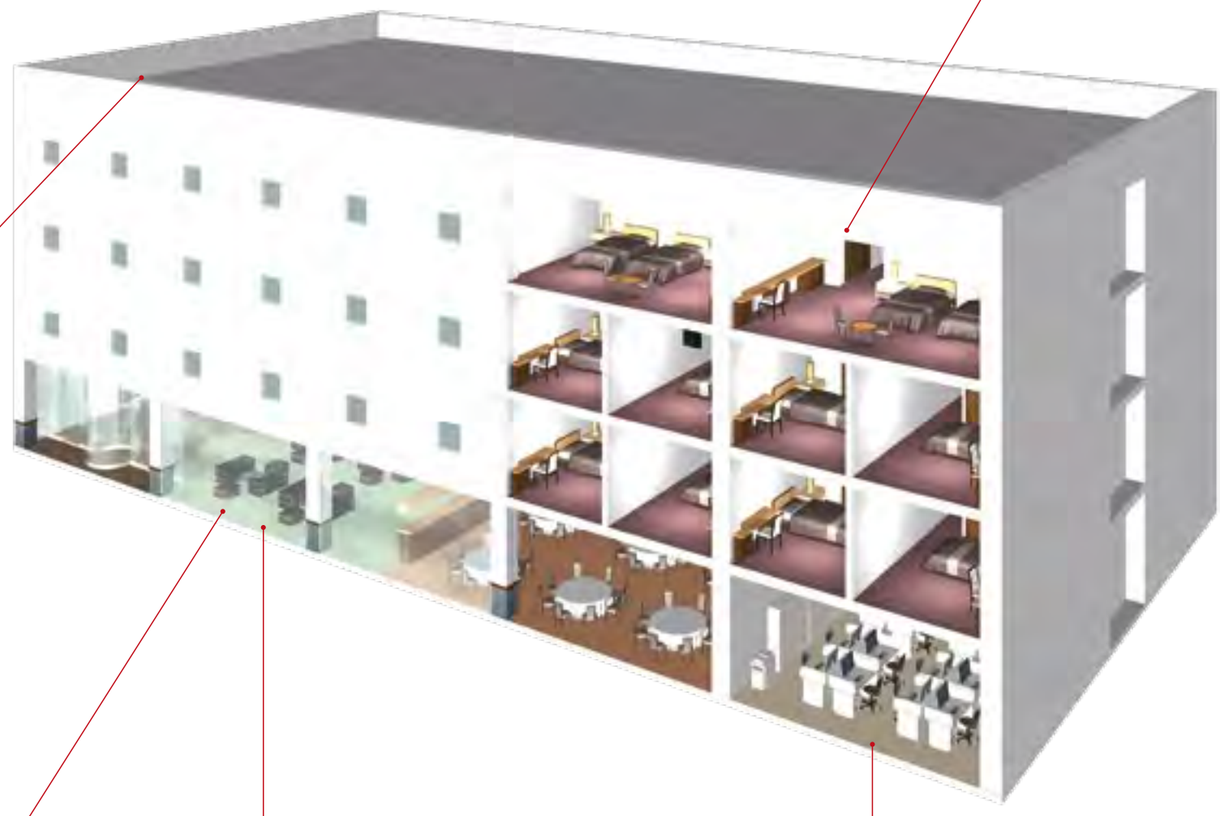
- Space saving combinations: 8HP to 48HP / 21 models
- Energy efficiency combinations: 16HP to 42HP / 12 models

Large area air conditioning for reception and lobby areas

High Static Pressure Duct suitable for large spaces with high ceilings



High Static Pressure Duct



Ventilation support

Outdoor Air Units connect with the VRF system to meet ventilation requirements.



Outdoor Air Unit

Centralised control

Air conditioning in shared spaces such as waiting areas and hallways can be controlled centrally. Temperature and operating conditions can be managed without manual adjustment by guests.



System Controller



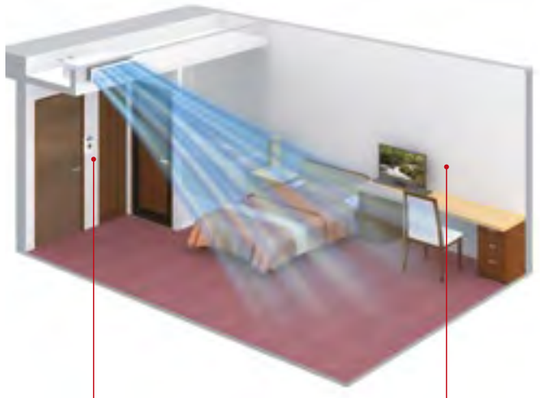
Guest room air conditioning delivering excellent comfort, energy efficiency and easy installation

Space saving

Mini duct type with 198mm height and 450mm depth. This can be installed in narrow ceiling spaces.



Mini Duct



Comfortable airflow

The optional Auto Louvre Grille Kit achieves comfortable airflow by adjusting the direction of airflow.

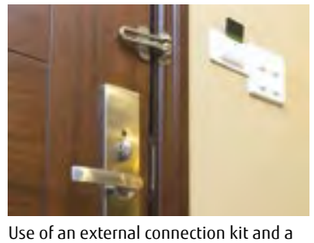




Simple Remote Controller with sophisticated design

Room card switch

Using the room card prevents guests from forgetting to switch off the air conditioner when departing their room.

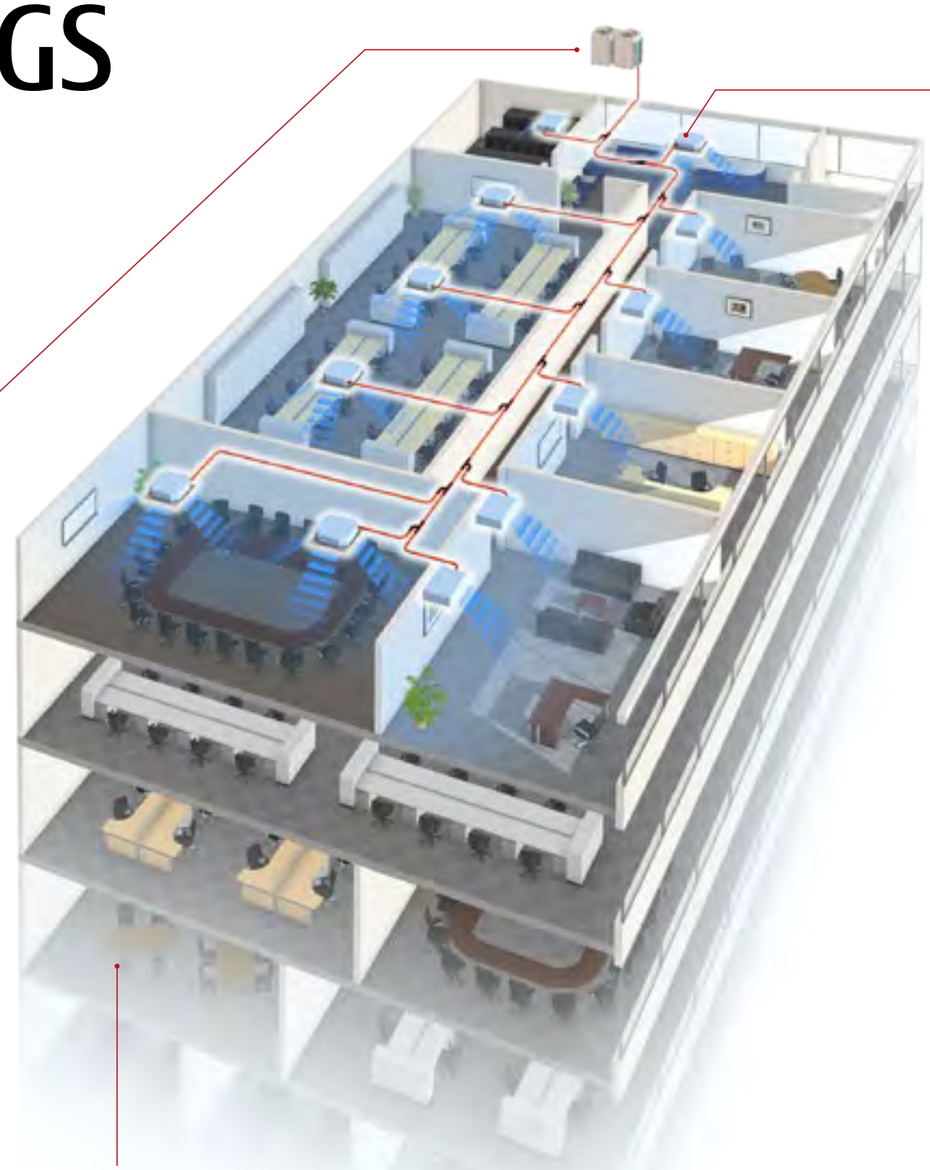


Use of an external connection kit and a third party supplied room card switch.

LARGE BUILDINGS

Fujitsu General provides modular VRF systems that are highly efficient, reliable and offer flexible installation for large or high rise buildings.

AIRSTAGE™ V-III



Diverse lineup suitable to match your operating environment

The VRF V-III series lineup is designed to meet various needs with energy efficient models. These units are compatible with high outdoor air ambient temperatures.



Heat Pump Modular type for heating or cooling operation

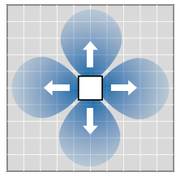
8 HP - 48 HP 33 Models
- Space saving combinations: 8 HP to 48 HP / 21 models
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4-way Flow Cassette

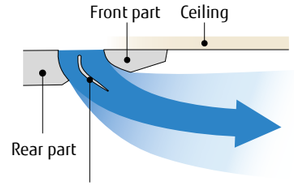


Improved airflow distribution

The unique design of the louvres and added space between the chassis and ceiling maximises airflow distribution within the room.



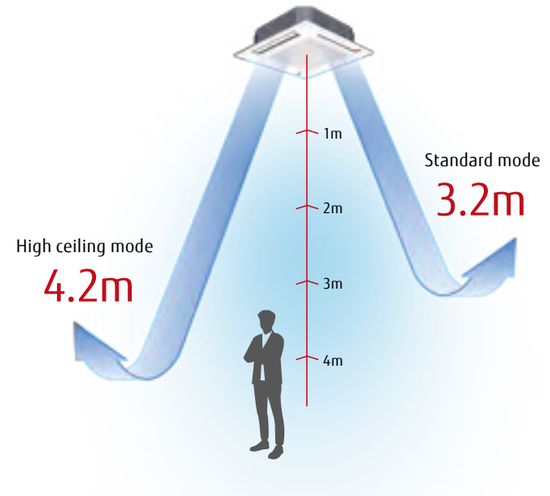
Bottom view



Round louvre

High ceiling mode

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



Difference in height Up to 110 m

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

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



Pressure Sensor Kit

Centralised control of both air conditioning and lighting*

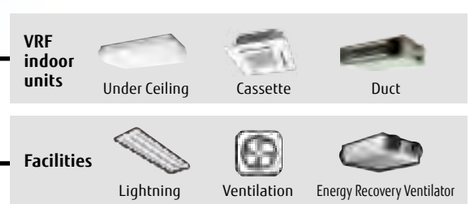
It is possible to centrally control lighting and ventilation equipment in addition to air conditioners. This is useful in allowing whole building energy saving management and control.

System Controller (UTY-APGXZ1)

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

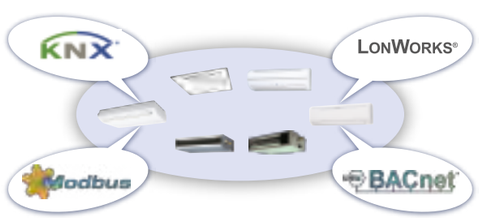
*Requires a third party MODBUS DIDO device.





BMS integration

Major protocols including Modbus, BACnet, KNX and LonWorks are supported allowing Fujitsu AIRSTAGE™ equipment to be easily integrated using one of our gateway options.



AIRSTAGE™ CORE TECHNOLOGY



HIGH ENERGY EFFICIENCY

MAXIMISED COMFORT

CONSISTENT RELIABILITY

DESIGN FLEXIBILITY

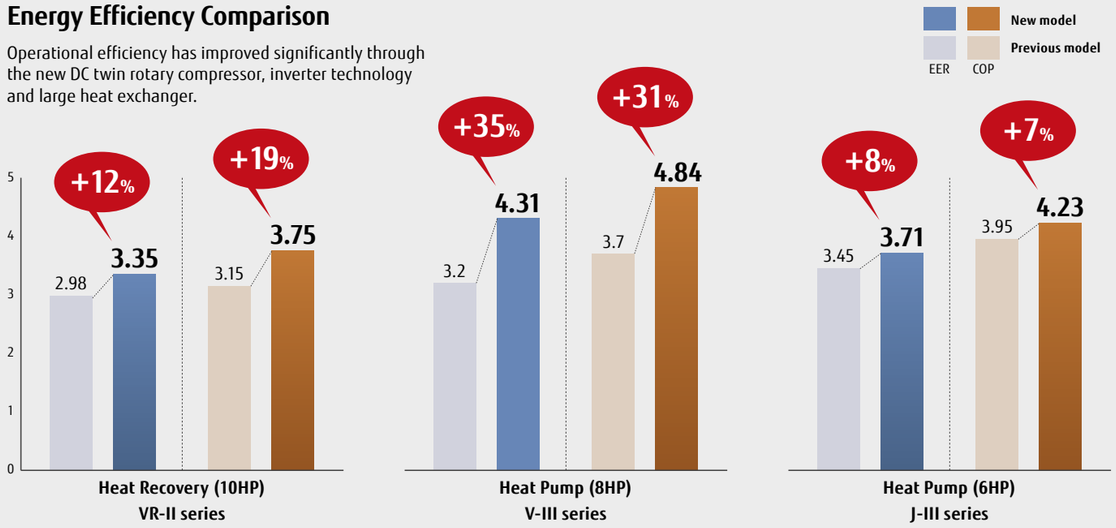
EASY INSTALLATION

EASY SERVICE & MAINTENANCE

HIGH ENERGY EFFICIENCY

Energy Efficiency Comparison

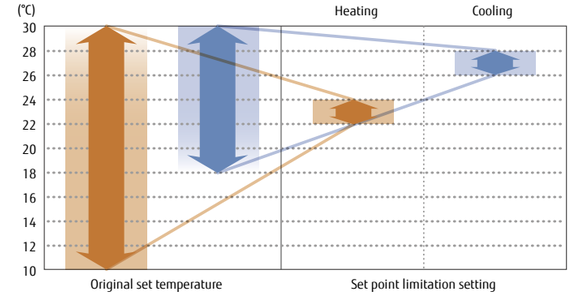
Operational efficiency has improved significantly through the new DC twin rotary compressor, inverter technology and large heat exchanger.



Performance and Control

Room temperature set point limitation

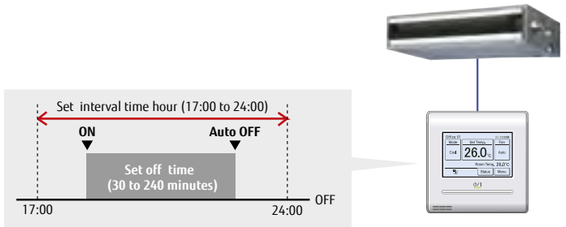
The minimum and maximum temperature ranges can be limited, which provides further energy saving functionality whilst maintaining the comfort of the occupants.



Auto-off timer

The new wired remote controller is equipped with an OFF timer function that automatically stops the units operation when a fixed time has elapsed from the start of operation. The schedule for the auto off timer can be programmed.



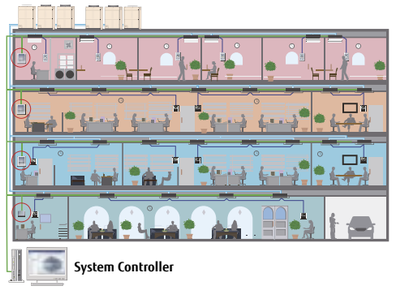


Energy saving management

A variety of energy saving operations can be set and managed depending on the season, weather and time period using the system controller and a third party watt hour meter.

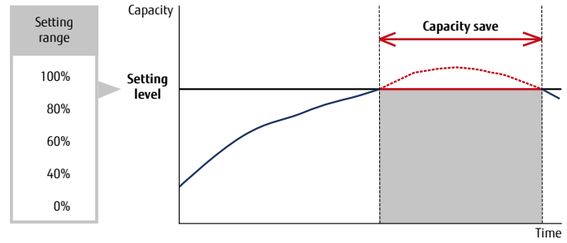


Energy management software(Option)



Operational capacity

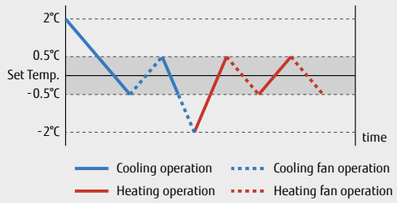
Operation capacity can be set in 5 simple steps for rated capability. The power consumption at peak is cut down and the maximum load is suppressed.



MAXIMISED COMFORT

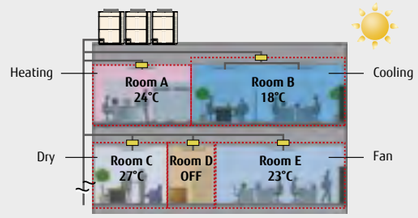
Auto change over function

When the auto setting is selected, the unit automatically switches between cooling and heating modes according to the set temperature and room temperature.

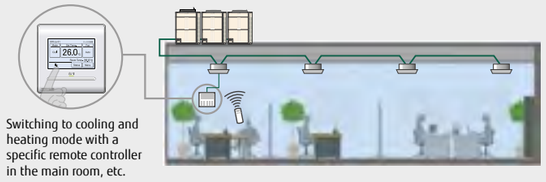


The auto change over setting allows for the product to easily switch between cooling and heating modes regardless of the operation mode of the other indoor units. This can be done via a specific indoor unit with a wired remote controller. This ensures comfortable operation all year round.

*: Only available on VR-II



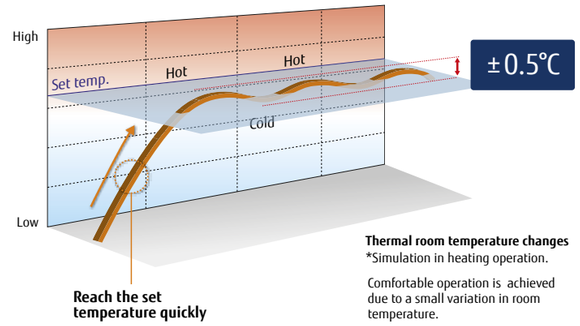
Individual rooms with automatic heating and cooling operation



Switching to cooling and heating mode with a specific remote controller in the main room, etc.

Precise refrigerant flow control

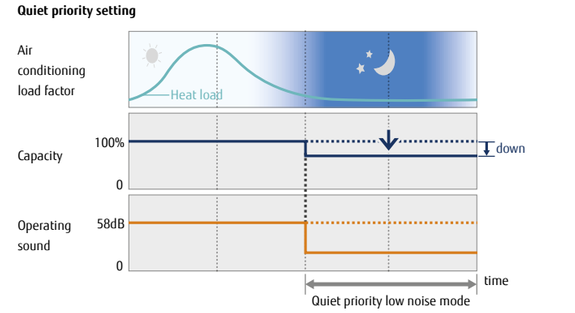
Precise and smooth refrigerant flow control is achieved by using the DC Inverter control in conjunction with an individual indoor unit electronic expansion valve. This allows the set temperature to be controlled ±0.5°C.



Quiet operation

Low noise mode

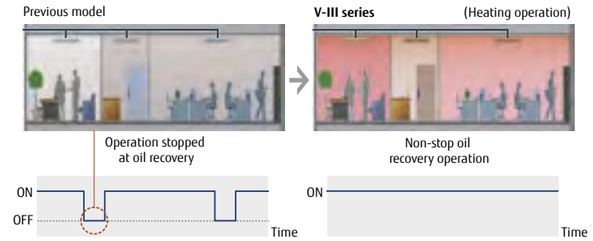
Two low noise modes can be selected automatically through the 'quiet priority setting' and 'capacity priority setting' depending on the noise or capacity requirements. This feature can be controlled via an outdoor unit external input and / or system controller.



Non-stop oil recovery operation

A comfortable room temperature is maintained during the oil recovery mode as the unit continues to operate without stopping the cooling or heating operation.

*: Not available on the AIRSTAGE VR-II

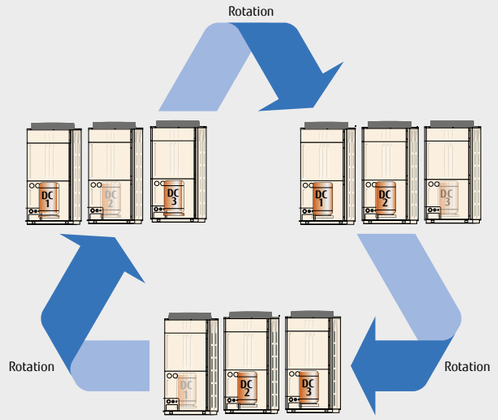


CONSISTENT RELIABILITY



Outdoor unit rotational operation

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

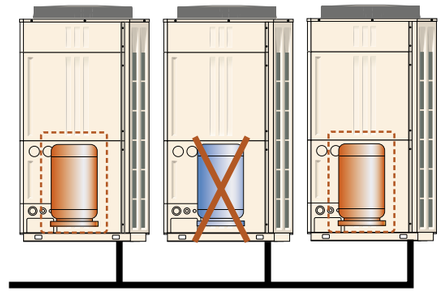


Note: Rotational operation is alternated by the start / stop timing of the compressor.

Backup operation

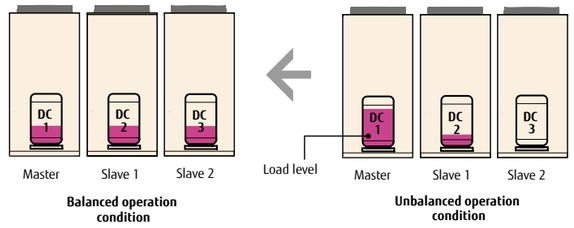
If one compressor fails, backup operation will be performed by the remaining compressors*.

* Note: Backup operation may not be possible depending on the system error.



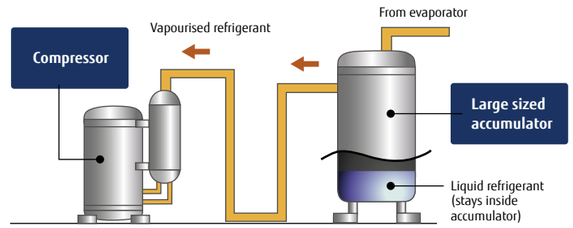
Advanced refrigerant control

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.



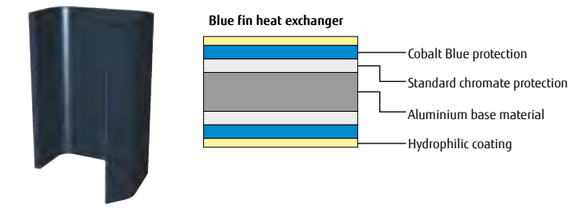
Liquid flow back protection

Through a larger accumulator, the non vapourised refrigerant stays within the accumulator to ensure no liquid refrigerant is being fed into the compressor.



Adoption of blue fin heat exchanger

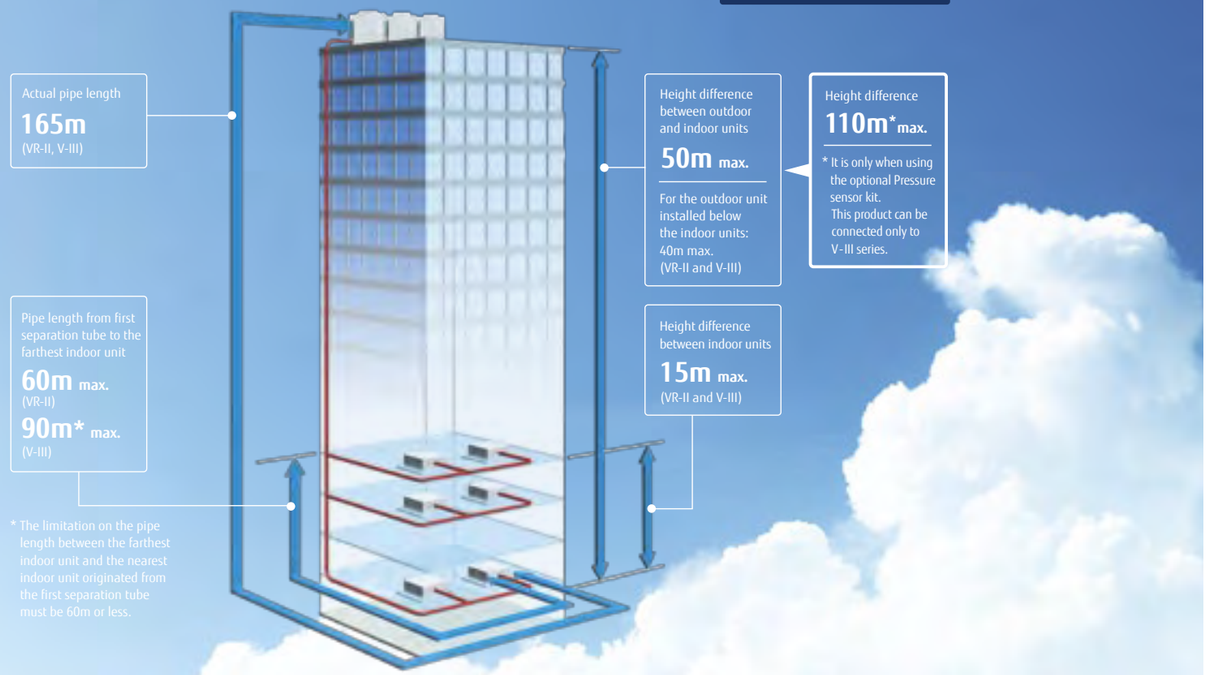
The corrosion resistance of the outdoor heat exchanger has been improved by the introduction of blue fin treatment.



DESIGN FLEXIBILITY

Overall piping length 1,000m

Total pipe length
1,000m max.

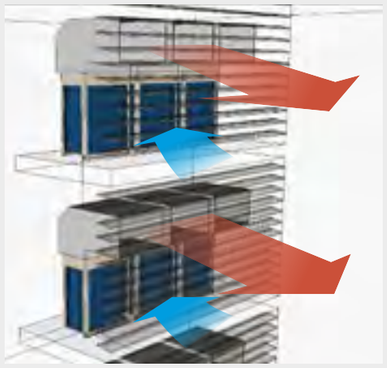


* The limitation on the pipe length between the farthest indoor unit and the nearest indoor unit originated from the first separation tube must be 60m or less.

High static pressure

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

Powerful discharge of air prevents a short-circuit.



80Pa (VR-II)
82Pa (V-III)

Previous model



VR-II, V-III



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

High capacity connection

AIRSTAGE™ J-IIIL series Heat Pump type

14HP-16HP



Connectable indoor unit capacity range
50% to 150%

Connectable indoor unit number
up to 30

AIRSTAGE™ J-IIIL series Heat Pump type

8HP-12HP



Connectable indoor unit capacity range
50% to 150%

Connectable indoor unit number
up to 22

AIRSTAGE™ J-III series Heat Pump type

4HP-6HP



Connectable indoor unit capacity range
50% to 150%

Connectable indoor unit number
up to 10

AIRSTAGE™ J-IIS series Heat Pump type

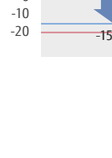
4HP-6HP

Connectable indoor unit capacity range
50% to 130%

Connectable indoor unit number
up to 8

AIRSTAGE™ VR-II series Heat Recovery type

8HP-48HP

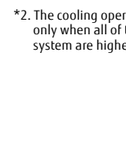


Connectable indoor unit capacity range
50% to 150%

Connectable indoor unit number
up to 64

AIRSTAGE™ V-III series Heat Pump type

8HP-48HP



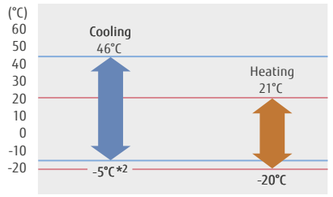
Connectable indoor unit capacity range
50% to 150%

Connectable indoor unit number
up to 64

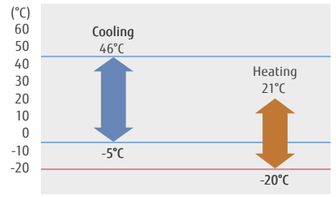
Wide operating range

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

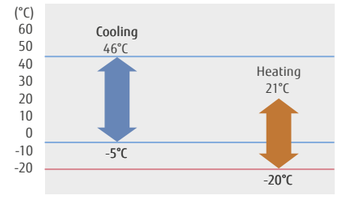
AIRSTAGE™ J-IIIL series Heat Pump type



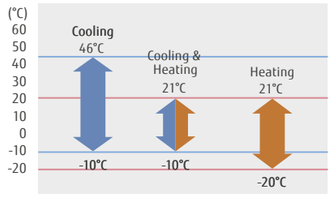
AIRSTAGE™ J-III series Heat Pump type



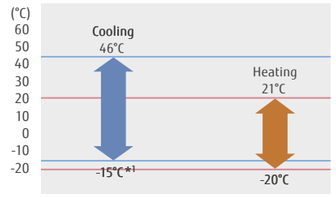
AIRSTAGE™ J-IIS series Heat Pump type



AIRSTAGE™ VR-II series Heat Recovery type



AIRSTAGE™ V-III series Heat Pump type



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

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

EASY INSTALLATION



Easily transported

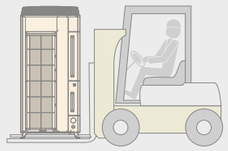
Easily craned using lifting belt hooks

Design of outdoor unit allows for lifting straps to be used.



Transporting by forklift

Transport with forklift is possible.

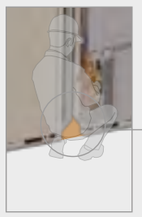


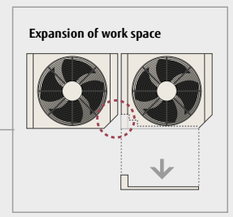
Can be transported in a small elevator



Easy access

By adopting an L-Shape front panel that can be removed, the work space for installation and service has been significantly improved by this new design.



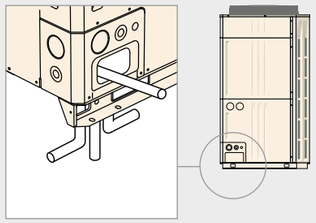




Removable front panel allows easy installation

Flexible piping connection

Piping and wiring are available to the front, rear, bottom and side.

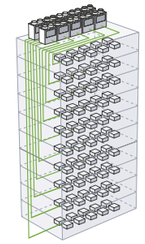




Flexible installation by 4 way pipe direction (J-IIIL is 3 way pipe direction.)

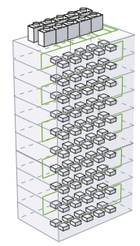
Simple wiring

Installation of the wiring is made easier as the communication wiring can be installed in a series or parallel configuration between the indoor, outdoor and RB units.



Parallel connection

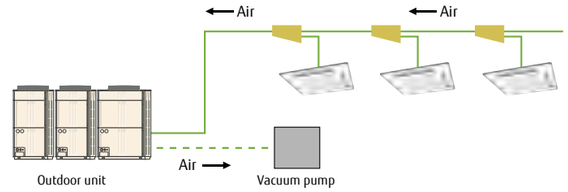
or



Serial connection

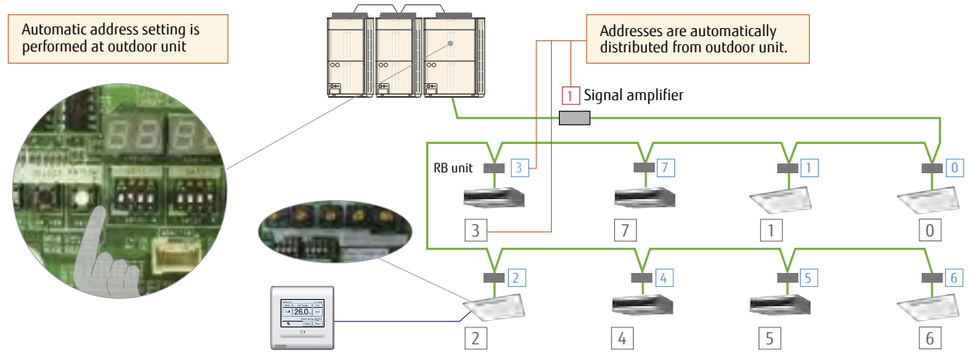
Easy evacuation using vacuum mode function

The vacuum mode function enables all expansion valves of the 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.



*Specific wiring method is required.

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

Easy commissioning using the Service Tool

The service tool can be used to check system characteristics including the refrigerant temperature, pressure and the operating status of the electronic expansion valves, making it easy to determine whether the units are functioning correctly.



EASY SERVICE & MAINTENANCE



Easy maintenance design

Self diagnosis can be performed using the LED display which makes it easy to check function setting status, refrigerant temperature, pressure, compressor operation time and other factors.



Easy to read 7 segment LED : Provides detailed operational and error status without using any specific equipment.

7 segment LED

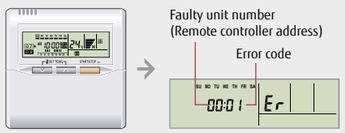
- Operation mode status
- Discharge temperature / pressure status
- Compressor operation indication
- Address / type / number of outdoor units

Movable PCB panel
Easier for maintenance work behind the PCB

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

An error code is displayed on a liquid crystal screen.

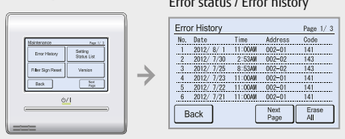
Wired Remote Controller



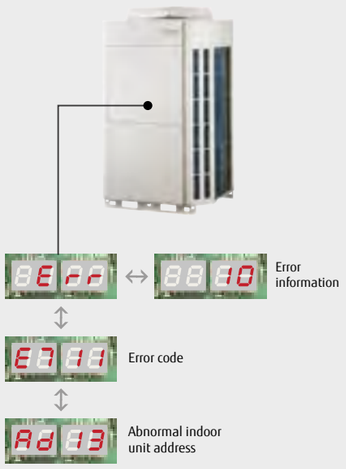
Simple Remote Controller



Wired Remote Controller (Touch panel)

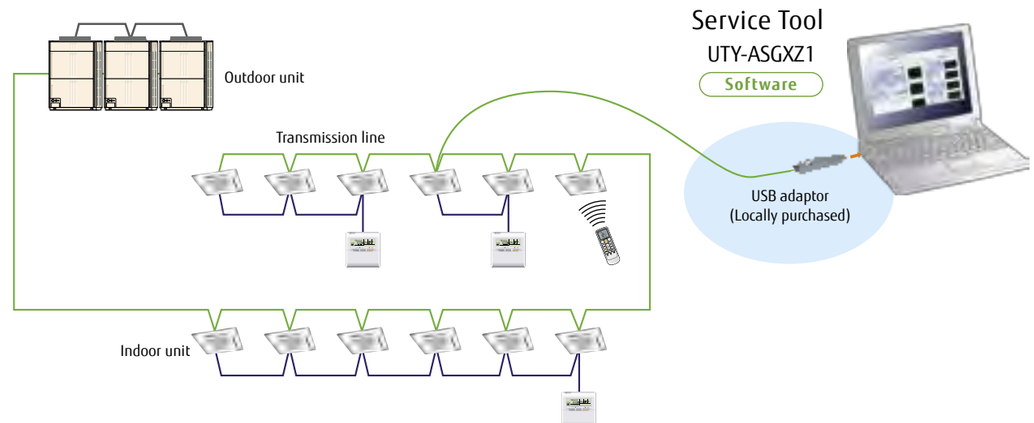


Error status can be cheked easily by outdoor unit display



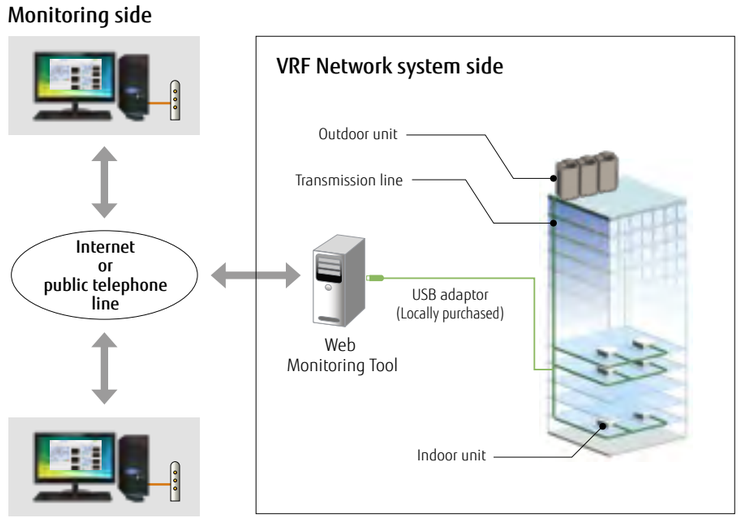
Error diagnosis using the Service Tool

- Detail operation status and recent error history can be checked and analysed by using the Service Tool.



Remote monitoring

The Web Monitoring system allows you to view system operation anytime over the internet in real time.



AIRSTAGE™ SERIES



The 5 series of the AIRSTAGE™ range has a total of 73 outdoor models to meet the project scope or building size requirements

The AIRSTAGE™ series outdoor units have been 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™ LINEUP

HEAT PUMP TYPE AIRSTAGE™ J-IIS

HEAT PUMP TYPE AIRSTAGE™ J-III

HEAT PUMP TYPE AIRSTAGE™ J-IIIL

HEAT PUMP TYPE AIRSTAGE™ V-III

HEAT RECOVERY TYPE AIRSTAGE™ VR-II

AIRSTAGE™ LINEUP

Fujitsu General's range of AIRSTAGE™ products allows installation flexibility to meet the unique size and application needs of your project.

Outdoor units range

HP	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
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	123.0	128.0	135.0
AIRSTAGE J-IIS Heat Pump	AJT040LCLAH	AJT045LCLAH	AJT054LCLAH																					
AIRSTAGE J-III Heat Pump	AJY040LBLAH	AJY045LBLAH	AJY054LBLAH																					
AIRSTAGE J-IIIL Heat Pump				AJY072LELAH	AJY090LELAH	AJY108LELAH	AJY126LELAH	AJY144LELAH																
AIRSTAGE V-III Heat Pump — Space saving				AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY180LALBH	AJY198LALBH	AJY216LALBH	AJY234LALBH	AJY252LALBH	AJY270LALBH	AJY288LALBH	AJY306LALBH	AJY324LALBH	AJY342LALBH	AJY360LALBH	AJY378LALBH	AJY396LALBH	AJY414LALBH	AJY432LALBH
AIRSTAGE V-III Heat Pump — High efficiency								AJY144LALBHH		AJY180LALBHH		AJY216LALBHH	AJY234LALBHH	AJY252LALBHH	AJY270LALBHH	AJY288LALBHH	AJY306LALBHH	AJY324LALBHH	AJY342LALBHH	AJY360LALBHH	AJY378LALBHH			
AIRSTAGE VR-II Heat Recovery — Space saving				AJTA72GALH	AJTA90GALH	AJT108GALH	AJT126GALH	AJT144GBLH	AJT162GALH	AJT180GALH	AJT198GALH	AJT216GBLH	AJT234GBLH	AJT252GBLH	AJT270GBLH	AJT288GBLH	AJT306GBLH	AJT324GBLH	AJT342GBLH	AJT360GBLH	AJT378GBLH	AJT396GBLH	AJT414GBLH	AJT432GBLH
AIRSTAGE VR-II Heat Recovery — High efficiency								AJT144GALH		AJT180GALHH		AJT216GALHH	AJT234GALHH	AJT252GALHH	AJT270GALHH	AJT288GALHH	AJT306GALHH	AJT324GALHH	AJT342GALHH	AJT360GBLHH	AJT378GBLHH			



HEAT PUMP TYPE

AIRSTAGE™ J-IIS series

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

Compact design and high efficiency is realised by ALL-DC technology, large capacity DC twin rotary compressor and a 3-row heat exchanger

Flexible systems for small and medium building air conditioning requirements

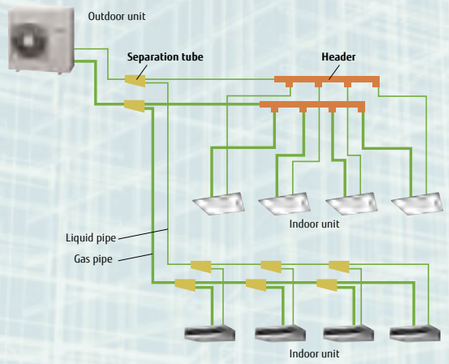
Due to the compact size and flexible piping design, the J-IIS series can be installed easily in limited spaces, such as in homes, shops, and small offices. Multiple indoor units of various capacities and types can be connected.

Large homes

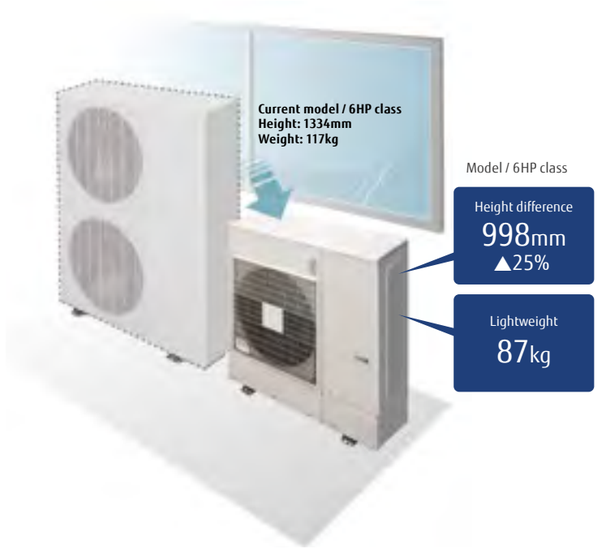




System configuration example



Easy transportation and flexible installation



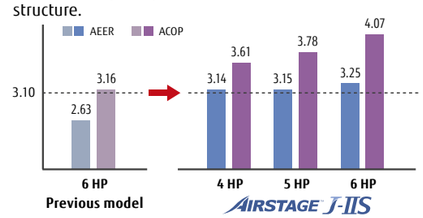
Small and lightweight outdoor unit

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



High AEER* and ACOP*

High average cooling and heating efficiency are significantly realised by utilising All DC inverter control, DC twin rotary compressor, and advanced airflow structure.



*AEER: Average Energy Efficiency Ratio
*ACOP: Average Coefficiency Of Performance

Advanced high efficiency technology



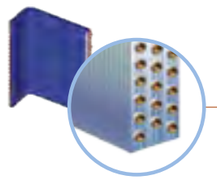
Large propeller fan

High performance and low noise realised by the large propeller and angle optimisation.



DC fan motor

The outdoor unit utilises a miniaturised, high efficiency, multi-stage DC fan motor.



Large heat exchanger

Heat exchange performance is substantially improved by the use of a 3-row large heat exchanger.

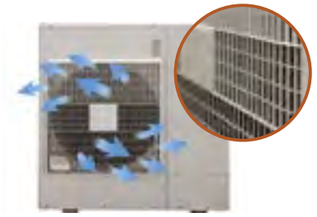


High heat transfer copper tube (improved lead angle)



Smooth airflow grille

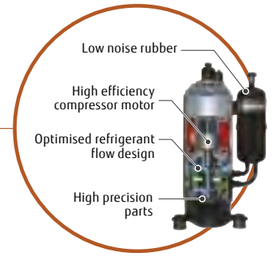
The aerodynamic design enhances efficiency with little blow loss.





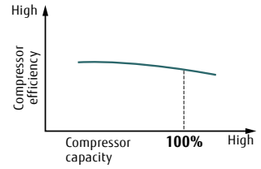
DC inverter control

Efficiency is improved through the new active filter module.



Compact and high performance DC twin rotary compressor

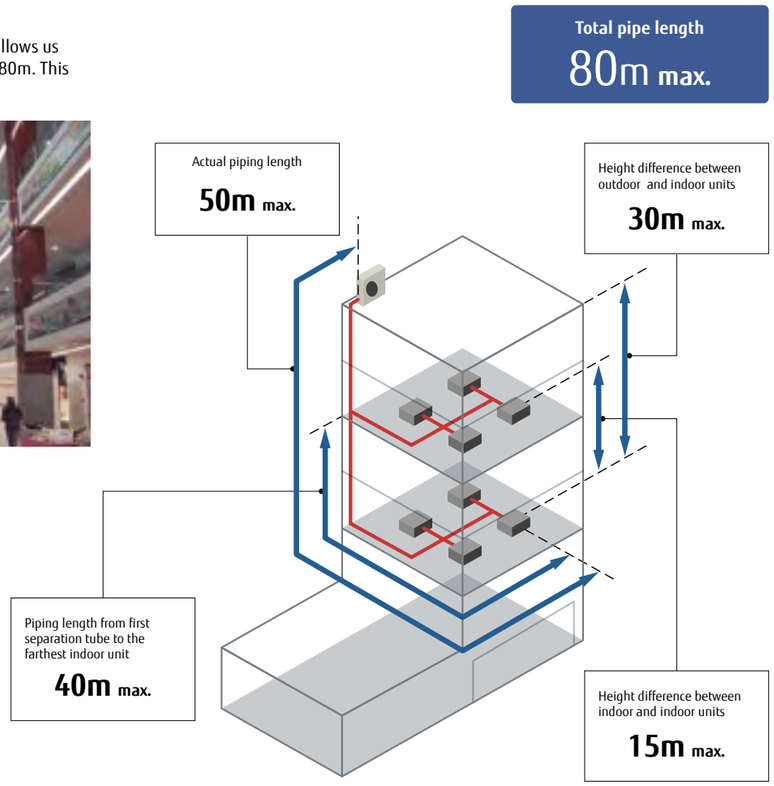
Efficiency is delivered in all load regions particularly when at low to medium load requirements.



Long piping capability

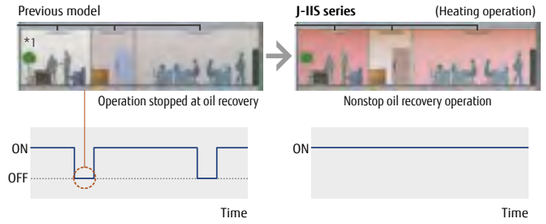
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 80m. This opens up new possibilities in system design.





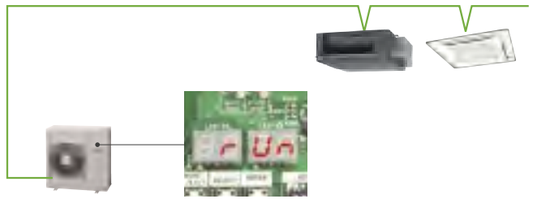
Nonstop oil recovery operation

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

With the connection check function it is possible to confirm whether the wiring connection and address settings are correct.



- Displays connected indoor unit numbers
- Duplicate set address numbers of indoor unit can be identified

Specifications

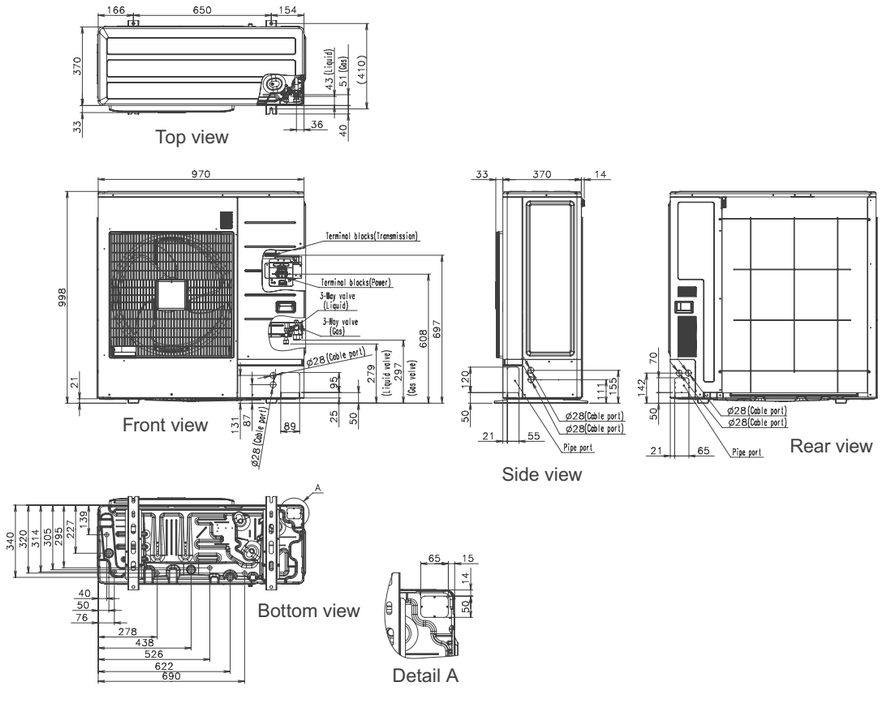
Rating capacity range		HP	4	5	6
Model name			AJT040LCLAH	AJT045LCLAH	AJT054LCLAH
Maximum connectable indoor unit			7	8	8
Power source			Single-phase, ~230V, 50Hz		
Capacity	Cooling	kW	12.1	14.0	15.1
	Heating		13.6	16.0	16.5
Input power	Cooling	kW	3.44	4.23	4.58
	Heating		3.09	3.93	4.11
EER	Cooling	W/W	3.52	3.31	3.30
COP	Heating		4.40	4.07	4.01
Air flow rate	Cooling	m3/h (l/s)	4,040 (1,122)	4,200 (1,167)	4,540 (1,261)
	Heating		4,040 (1,122)	4,200 (1,167)	4,200 (1,167)
Sound pressure level	Cooling	dB (A)	51	53	56
	Heating		54	55	56
Heat exchanger fin			Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	998	998	998
	Width		970	970	970
	Depth		370	370	370
Weight		kg	86	86	87
Refrigerant	Type		R410A	R410A	R410A
	Charge	kg	4.0	4.0	4.0
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52
	Gas		15.88	15.88	15.88
Total pipe length		m	80	80	80
Max. height difference			30	30	30
Operation range	Cooling	°C	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21

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

These are the measured values in the manufacturer's anechoic chamber.
Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.

Dimensions

Models: AJT040LCLAH / AJT045LCLAH / AJT054LCLAH (Unit: mm)



HEAT PUMP TYPE

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 and apartments.

System Outline

High energy efficiency

Heat pump inverter control is used to achieve efficient cooling or heating operation with any indoor unit combination.

Flexible systems for small and medium size building air conditioning requirements

The space saving design and long piping design allows flexible installation on roofs or balconies of small and medium size buildings.
Multiple indoor units of various capacities and types can be connected.

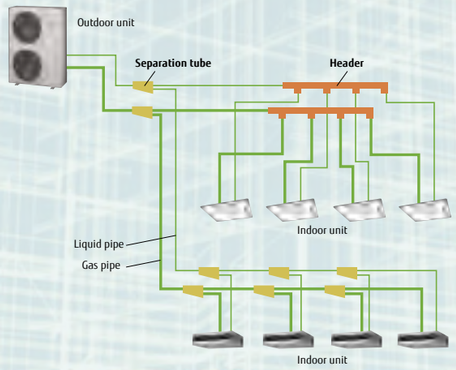
Small office





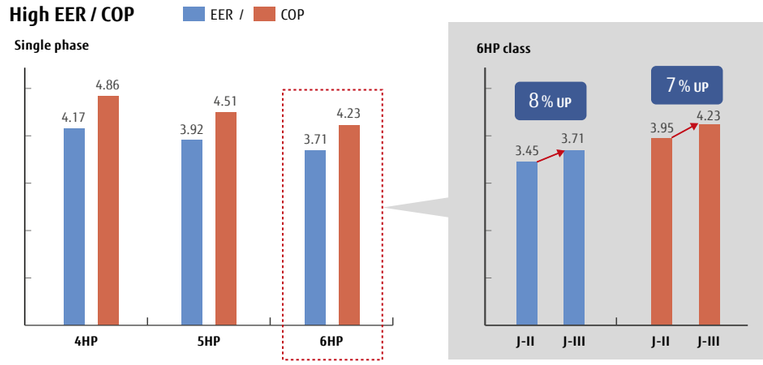
System configuration example

- This system is typically used for small and medium-sized buildings
- This example shows the connection of multiple indoor units using separation tubes and headers



Efficiency during operation

The high COP is achieved for all models through a large heat exchanger, highly efficient DC twin compressor and our own technologies.



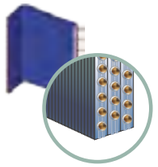
Advanced high efficiency technology



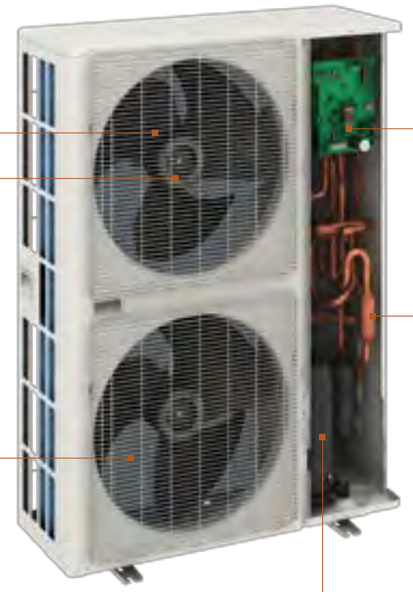
Large propeller fan
High performance and low noise is realised by the large propeller and angle optimisation.



DC fan motor
The outdoor unit utilises a miniaturised, high efficiency, multi-stage DC fan motor.



Large heat exchanger
Heat exchange performance is substantially improved by the inclusion of a 3-row large heat exchanger.

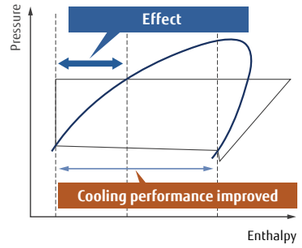




DC inverter control
Efficiency is improved through the new active filter module.



Subcool heat exchanger
Cooling performance is improved from the dual tube heat exchanger.



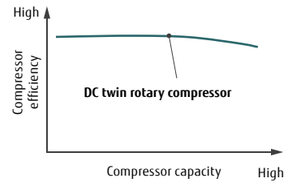
High efficiency compressor motor

Optimised refrigerant flow design

High precision parts

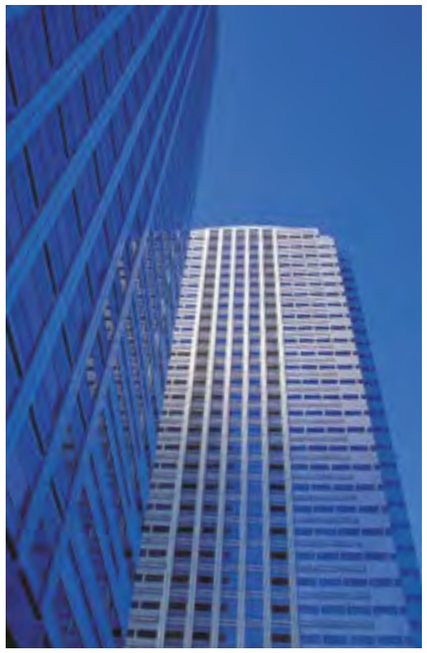


DC twin rotary compressor
Efficiency in all load regions is consistent, especially when meeting low to medium load requirements.

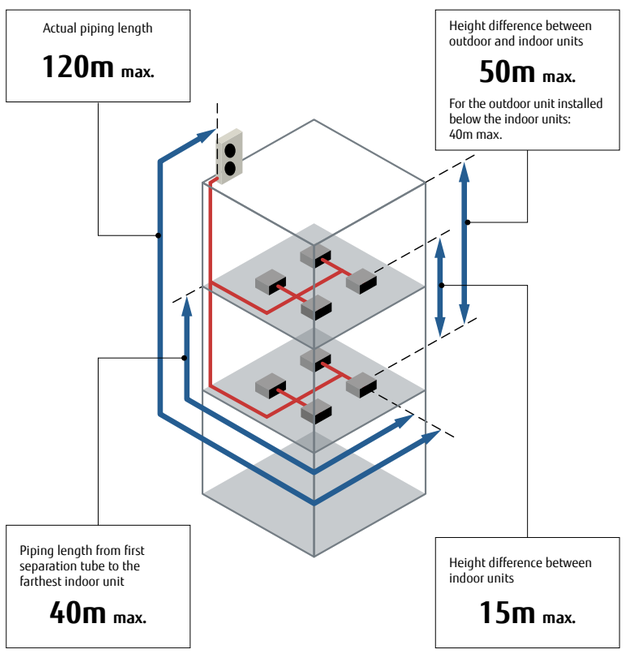


Long piping capability

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

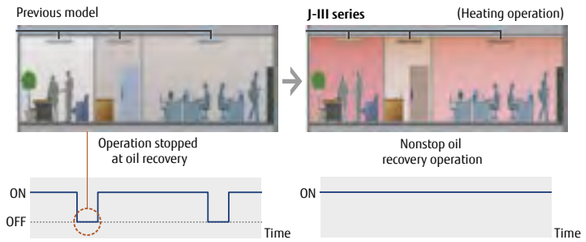


Total pipe length
180m max.



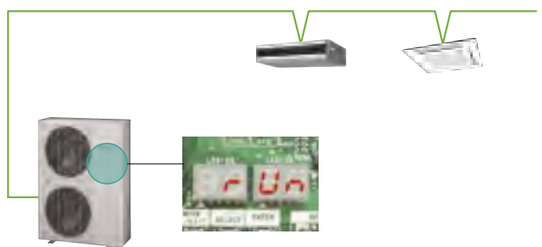
Nonstop oil recovery operation

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

With the connection check function it is possible to confirm whether the wiring connection and address settings are correct.



- Connected unit indoor numbers are displayed
- Duplicate address numbers of indoor unit can be identified

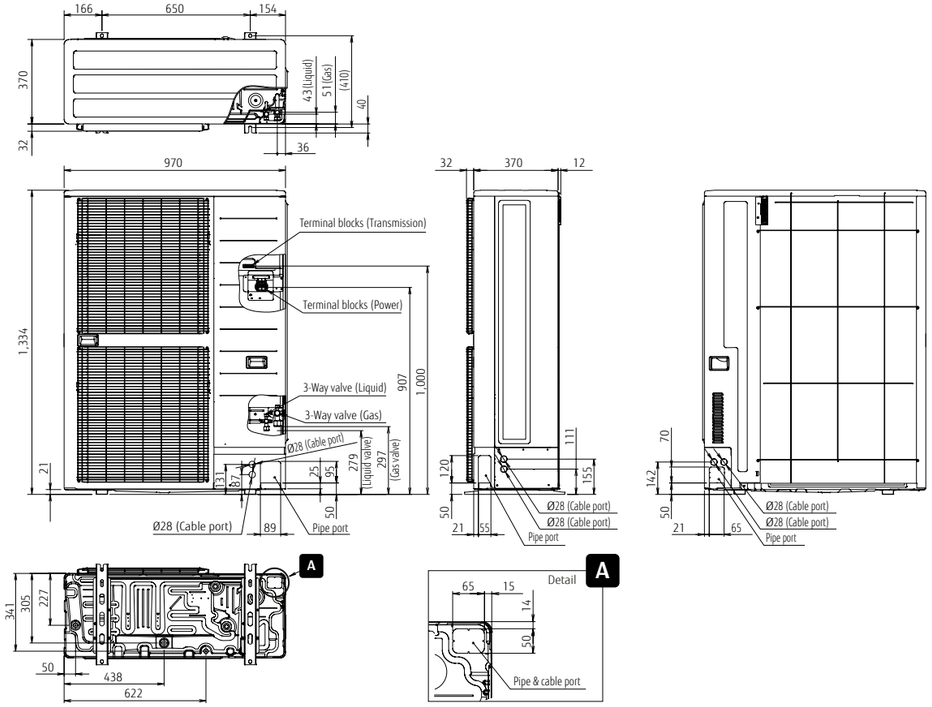
Specifications

Rating capacity range		HP	4	5	6
Model name			AJY040LBLAH	AJY045LBLAH	AJY054LBLAH
Maximum connectable indoor unit			1-8	1-9	1-10
Power source			Single-phase, ~230V, 50Hz		
Capacity	Cooling	kW	12.1	14.0	15.5
	Heating		13.6	16.0	18.0
Input power	Cooling	kW	2.90	3.57	4.18
	Heating		2.80	3.55	4.26
EER	Cooling	W/W	4.17	3.92	3.71
COP	Heating		4.86	4.51	4.23
Air flow rate		m³/h(l/s)	6,200 (1,722)	6,400 (1,778)	6,900 (1,916)
Sound pressure level / Power level	Cooling	dB (A)	50 / 66	51 / 67	53 / 69
	Heating		52 / 68	53 / 69	55 / 71
Heat exchanger fin			Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,334	1,334	1,334
	Width		970	970	970
	Depth		370	370	370
Weight		kg	117	117	119
Refrigerant	Type		R410A	R410A	R410A
	Charge	kg	4.8	5.3	5.3
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52
	Gas		15.88	15.88	19.05
Max. total pipe length		m	180	180	180
Max. height difference			50 / 40 (Outdoor unit: upper / lower)		
Operation range	Cooling	°C	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21

Note: Specifications are based on the following conditions:
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5m; height difference between outdoor unit and indoor unit: 0m.
The protective function may not work when using it outside the operation range.

Dimensions

Models: AJY040LBLAH / AJY045LBLAH / AJY054LBLAH (Unit: mm)



HEAT PUMP TYPE

AIRSTAGE™ J-IIIL series

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

System Outline

Compact outdoor unit

The compact design and low noise level allows the units to be installed in various locations with restricted and / or limited spaces, such as mechanical rooms and / or rooftops.

Small room application

Up to 30 indoor units can be connected due to the optimum heat exchanger structure. The J-IIIL series offers flexibility in design, particularly in instances where there are various small rooms present.

Quiet design

Through unit design and innovation we have developed a system that has low noise operation, whilst maintaining a comfortable environment. This potentially allows installation of units to various places without special sound prevention work.

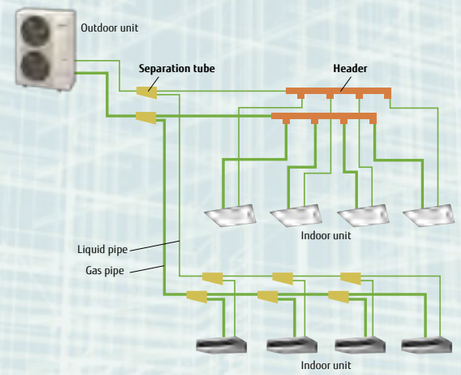
Small office





System configuration example

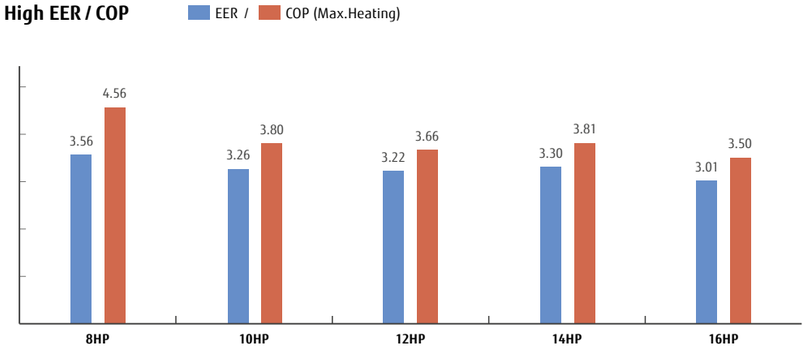
- This system is typically used for small and medium-sized buildings
- This example shows the connection of multiple indoor units using separation tubes and headers



Efficiency in actual operation

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

High EER / COP



Advanced high efficiency technology



∅570mm

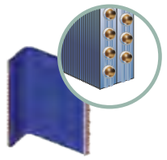
Large propeller fan

High efficiency and low sound operation is achieved by the reduction of draft loss due to Fujitsu General's blade design and large diameter propeller fan.



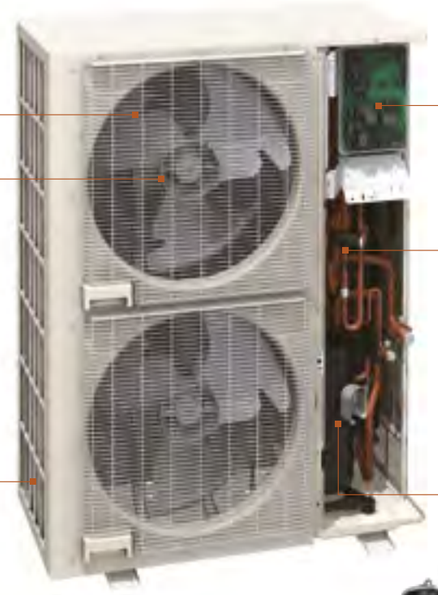
DC fan motor

The outdoor unit utilises a miniaturised, high efficiency, multi-stage DC fan motor.



Large heat exchanger

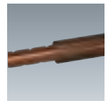
Heat exchange performance is substantially improved by mounting a 2-row large heat exchanger.





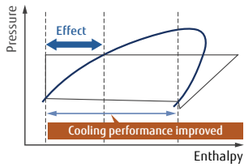
DC inverter control

Efficiency is improved by the use of a new active filter module.



Subcool heat exchanger

Cooling performance is improved by utilising a dual tube heat exchanger.



15-120 rps

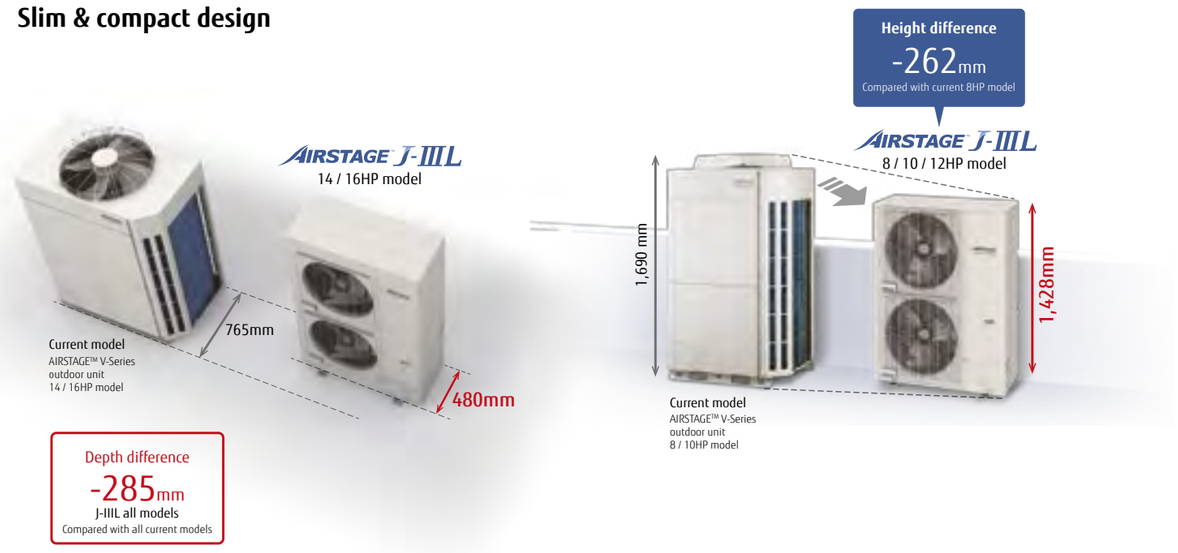


Scroll compressor

The scroll compressor has a wide range of rotational frequencies from 15 to 120 rps. Fujitsu General's unique sensorless sine wave control method enables smooth control of the input power into the motor improving the energy efficiency operating characteristics and the low sound operation.



Slim & compact design



Various installation options




AIRSTAGE™ V-III Series outdoor unit


AIRSTAGE™ J-IIIL Series outdoor unit

Narrow space between buildings

Space saving

Due to the compact and slim design, direct ground installation or wall mounted installation is possible in narrow locations.




AIRSTAGE™ V-III Series outdoor unit


AIRSTAGE™ J-IIIL Series outdoor unit

Installation at the back of the building

Flexible installation

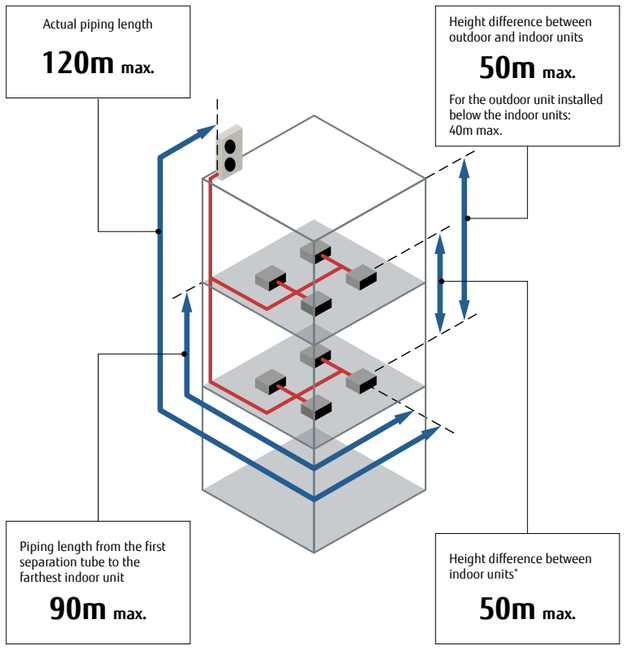
This model is a front discharge type with a slim and low body, so installation space is compact. Building windows are not blocked and space saving is possible.

Long piping capability

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 400m.



Total pipe length
400m max.



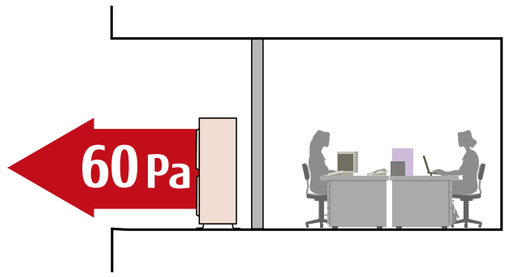
*Only for new indoor units, check technical manual to confirm.

Up to 30* connectible units

A new outdoor unit with optimum heat exchanger structure enables the connection of up to 30 indoor units.
(*:16HP model. 14HP model:27 units, 12HP model: 22 units, 10HP model: 19 units, 8HP model: 15 units)

High static pressure

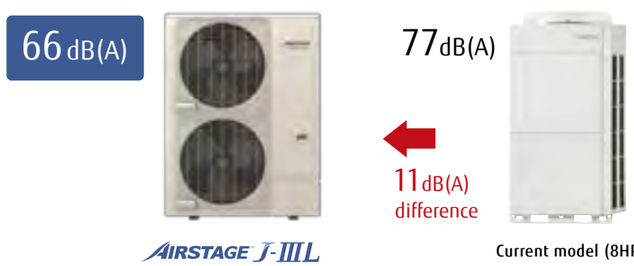
External static pressure is available up to 60 Pa. (only 14 / 16HP)



Low noise characteristics

Low operating sound makes this unit highly suitable to densely populated areas.

Sound power level



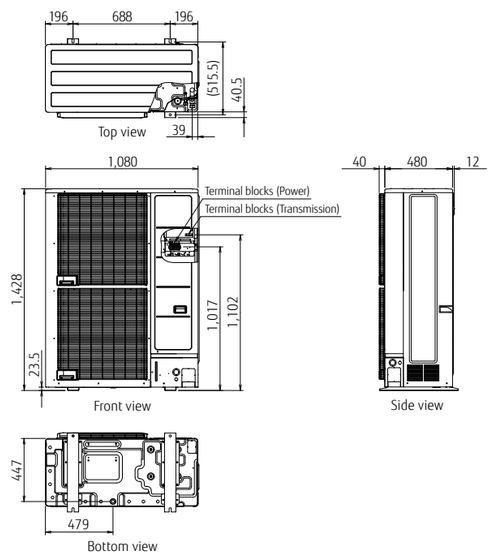
Specifications

Rating capacity range		HP	8	10	12	14	16
Model name			AJY072LELAH	AJY090LELAH	AJY108LELAH	AJY126LELAH	AJY144LELAH
Maximum connectable indoor unit			1-15	1-19	1-22	1-27	1-30
Power source			3-phase, ~400V, 50Hz				
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0
	Nominal heating		22.4	28.0	33.5	40.0	45.0
	Max heating		25.0	31.5	37.5	45.0	50.0
Input power	Cooling	kW	6.30	8.59	10.42	12.12	14.96
	Nominal heating		4.65	6.61	8.18	9.71	11.81
	Max heating		5.45	8.29	10.25	11.81	14.29
EER	Cooling	W/W	3.56	3.26	3.22	3.30	3.01
COP	Nominal heating		4.82	4.24	4.10	4.12	3.81
	Max heating		4.56	3.80	3.66	3.81	3.50
Air flow rate		m^3/h(l/s)	8,400 (2,334)	9,000 (2,500)	11,000 (3,056)	13,000 (3,611)	14,000 (3,889)
External static pressure (max.)		Pa	20	30	30	60	60
Sound pressure level / Power level	Cooling	dB (A)	52 / 66	54 / 69	59 / 73	62 / 75	64 / 77
	Heating		54 / -	57 / -	61 / -	63 / -	65 / -
Dimensions	Height	mm	1,428	1,428	1,428	1,638	1,638
	Width		1,080	1,080	1,080	1,080	1,080
	Depth		480	480	480	480	480
Weight		kg	170	177	178	213	213
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A
	Charge	kg	7.0	7.5	7.5	11.0	11.0
Connection pipe diameter	Liquid	mm	9.52	9.52	12.70	12.70	12.70
	Gas		19.05	22.20	28.58	28.58	28.58
Max. total pipe length		m	400	400	400	400	400
Max. height difference			50 / 40 (Outdoor unit: upper / lower)				
Operation range	Cooling	˚C	-5 to 46*	-5 to 46*	-5 to 46*	-5 to 46*	-5 to 46*
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

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

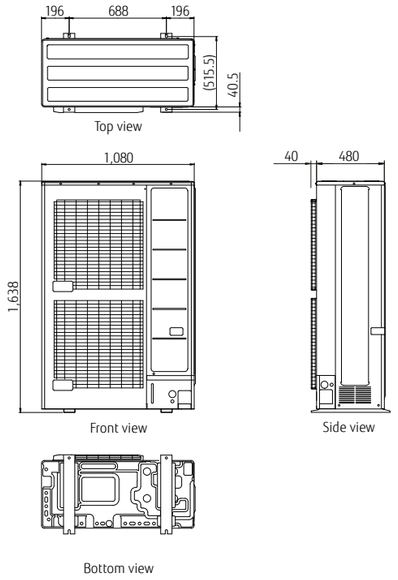
Dimensions

Models: AJY072LELAH / AJY090LELAH / AJY108LELAH



Models: AJY126LELAH / AJY144LELAH

(Unit: mm)



HEAT PUMP TYPE

AIRSTAGE™ V-III series

- Smart and cutting edge design
- Extensive lineup from 8HP to 48HP in 2HP increments
- Connectible indoor unit capacity ratio of up to 150%

System Outline

Excellent energy saving

Our heat pump inverter type systems achieve energy efficient operation for both cooling or heating with the use of inverter technology.

High design flexibility for various building requirements

High rise building air conditioning design and installation flexibility is achieved with concentrated rooftop or individual plant area installation made possible by flexible piping options and the high static pressure design.

Easy installation and maintenance

The flexible communication wiring method and piping connections makes installation and maintenance easy.

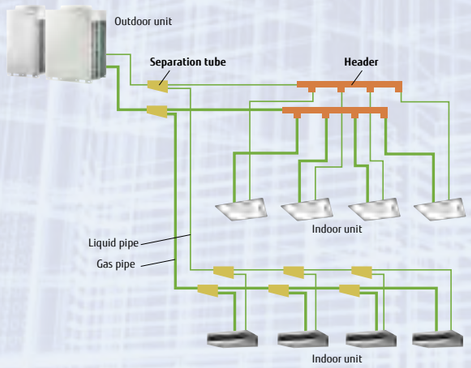
Large office





System configuration example

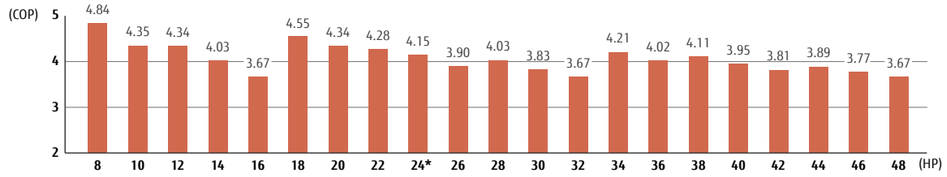
- This system is used for medium and large sized buildings. Connecting a combination of outdoor units makes it possible to create a high-capacity system.
- This example shows the connection of multiple indoor units using separation tubes and headers.



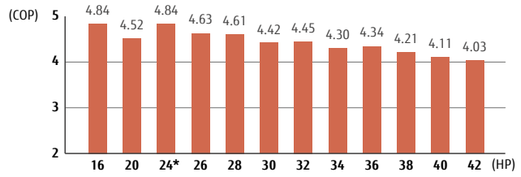
Efficiency during operation

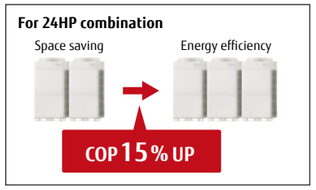
A high COP is realised for all combinations by our unique heat exchanger structure, highly efficient DC twin compressor and additional proprietary technologies.

Space saving combination



Energy efficiency combination





Energy saving technology that enhances operational efficiency



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



3 phase DC fan motor
Efficiency is improved with the highly efficient motor with sophisticated drive control. Additionally, the DC fan motor exhibits a low noise output.



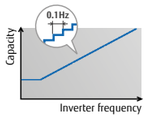
Subcool heat exchanger
High heat exchanger efficiency is achieved by using an internal projection shape with double pipe construction.



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



Large capacity ALL DC inverter compressor
The large capacity highly efficient DC twin rotary compressor with 0.1Hz steps compressor speed control





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

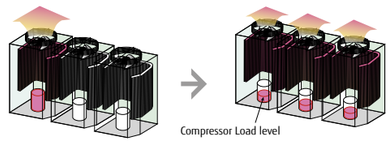
Front intake port (corner cut air inhaling structure)



Advanced energy saving control

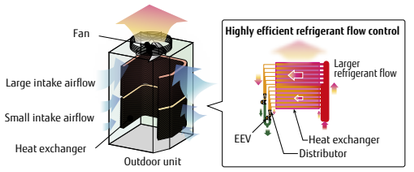
Multiple outdoor operation control

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



Heat exchanger refrigerant control

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



• Combinations other than those specified are not supported.

Space saving combinations

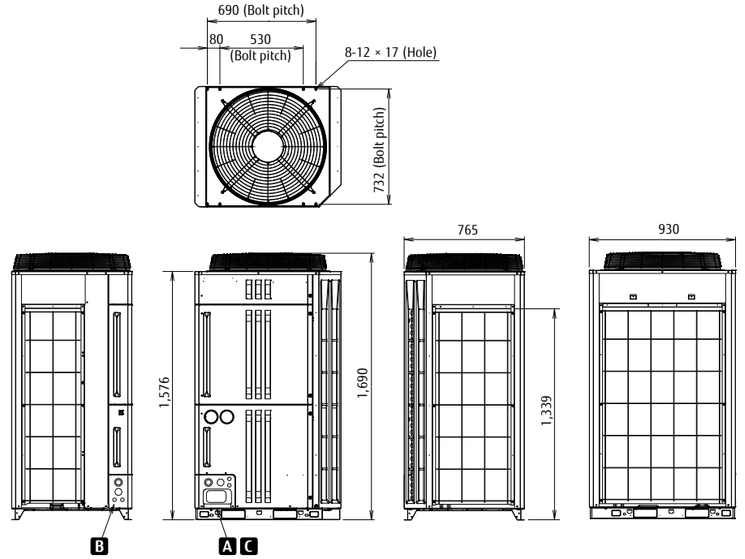
22.4kW (8HP) AJY072LALBH UNIT: AJY072LALBH	28.0kW (10HP) AJY090LALBH UNIT: AJY090LALBH	33.5kW (12HP) AJY108LALBH UNIT: AJY108LALBH	40.0kW (14HP) AJY126LALBH UNIT: AJY126LALBH	45.0kW (16HP) AJY144LALBH UNIT: AJY144LALBH
50.4kW (18HP) AJY162LALBH UNIT: AJY090 / 072LALBH	56.0W (20HP) AJY180LALBH UNIT: AJY090 / 090LALBH	62.4kW (22HP) AJY198LALBH UNIT: AJY126 / 072LALBH	68.0kW (24HP) AJY216LALBH UNIT: AJY126 / 090LALBH	73.0kW (26HP) AJY234LALBH UNIT: AJY144 / 090LALBH
80.0kW (28HP) AJY252LALBH UNIT: AJY126 / 126LALBH	85.0kW (30HP) AJY270LALBH UNIT: AJY144 / 126LALBH	90.0kW (32HP) AJY288LALBH UNIT: AJY144 / 144LALBH	96.0kW (34HP) AJY306LALBH UNIT: AJY126 / 090 / 090LALBH	101.0kW (36HP) AJY324LALBH UNIT: AJY144 / 090 / 090LALBH
108.0kW (38HP) AJY342LALBH UNIT: AJY126 / 126 / 090LALBH	113.0kW (40HP) AJY360LALBH UNIT: AJY144 / 126 / 090LALBH	118.0kW (42HP) AJY378LALBH UNIT: AJY144 / 144 / 090LALBH	125.0kW (44HP) AJY396LALBH UNIT: AJY144 / 126 / 126LALBH	130.0kW (46HP) AJY414LALBH UNIT: AJY144 / 144 / 126LALBH
135.0kW (48HP) AJY432LALBH UNIT: AJY144 / 144 / 144LALBH				

Energy efficiency combinations

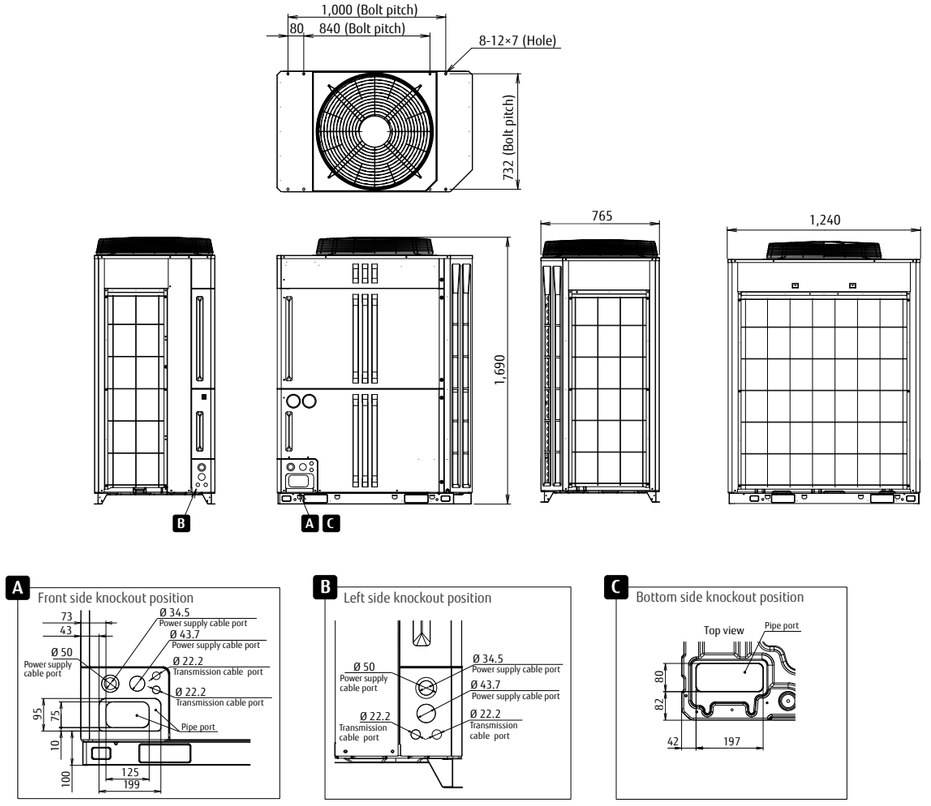
44.8kW (16HP) AJY144LALBHH UNIT: AJY072 / 072LALBH	55.9kW (20HP) AJY180LALBHH UNIT: AJY108 / 072LALBH	67.2kW (24HP) AJY216LALBHH UNIT: AJY072 / 072 / 072LALBH	72.8kW (26HP) AJY234LALBHH UNIT: AJY090 / 072 / 072LALBH	78.3kW (28HP) AJY252LALBHH UNIT: AJY108 / 072 / 072LALBH
84.8kW (30HP) AJY270LALBHH UNIT: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

Dimensions

8 / 10HP: AJY072LALBH / AJY090LALBH (Unit: mm)



12 / 14 / 16HP: AJY108LALBH / AJY126LALBH / AJY144LALBH (Unit: mm)



Space saving combinations

Rating capacity range		HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
Model name			AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY180LALBH	AJY198LALBH	AJY216LALBH	AJY234LALBH	AJY252LALBH	AJY270LALBH	AJY288LALBH	AJY306LALBH	AJY324LALBH	AJY342LALBH	AJY360LALBH	AJY378LALBH	AJY396LALBH	AJY414LALBH	AJY432LALBH
Unit 1 Unit 2 Unit 3			AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY090LALBH AJY072LALBH	AJY090LALBH AJY090LALBH	AJY126LALBH AJY072LALBH	AJY126LALBH AJY090LALBH	AJY144LALBH AJY090LALBH	AJY126LALBH AJY126LALBH	AJY144LALBH AJY126LALBH	AJY144LALBH AJY144LALBH	AJY126LALBH AJY090LALBH	AJY144LALBH AJY090LALBH	AJY126LALBH AJY126LALBH AJY090LALBH	AJY144LALBH AJY126LALBH AJY090LALBH	AJY144LALBH AJY144LALBH AJY090LALBH	AJY144LALBH AJY144LALBH AJY090LALBH	AJY144LALBH AJY126LALBH AJY126LALBH	AJY144LALBH AJY144LALBH AJY126LALBH	AJY144LALBH AJY144LALBH AJY144LALBH
Maximum connectible indoor unit*1			15	16	17	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	64	64	64
Indoor unit connectible capacity	Cooling	kW	11.2 to 33.6	14.0 to 42.0	16.8 to 50.2	20.0 to 60.0	22.5 to 67.5	25.2 to 75.6	28.0 to 84.0	31.2 to 93.6	34.0 to 102.0	36.5 to 109.5	40.0 to 120.0	42.5 to 127.5	45.0 to 135.0	48.0 to 144.0	50.5 to 151.5	54.0 to 162.0	56.5 to 169.5	59.0 to 177.0	62.5 to 187.5	65.0 to 195.0	67.5 to 202.5
Power source			3-phase 4 wire, 400 V, 50Hz									3-phase 4 wire, 400 V, 50Hz											
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	62.4	68.0	73.0	80.0	85.0	90.0	96.0	101.0	108.0	113.0	118.0	125.0	130.0	135.0
	Heating		25.0	31.5	37.5	45.0	50.0	56.5	63.0	70.0	76.5	81.5	90.0	95.0	100.0	108.0	113.0	121.5	126.5	131.5	140.0	145.0	150.0
Input power	Cooling	kW	5.20	7.28	8.96	10.96	13.01	12.48	14.56	16.16	18.24	20.29	21.92	23.97	26.02	25.52	27.57	29.20	31.25	33.30	34.93	36.98	39.03
	Heating		5.17	7.25	8.65	11.17	13.63	12.42	14.50	16.34	18.42	20.88	22.34	24.80	27.26	25.67	28.13	29.59	32.05	34.51	35.97	38.43	40.89
EER	Cooling	W/W	4.31	3.85	3.74	3.65	3.46	4.04	3.85	3.86	3.73	3.60	3.65	3.55	3.46	3.76	3.66	3.70	3.62	3.54	3.58	3.52	3.46
COP	Heating		4.84	4.35	4.34	4.03	3.67	4.55	4.34	4.28	4.15	3.90	4.03	3.83	3.67	4.21	4.02	4.11	3.95	3.81	3.89	3.77	3.67
Air flow rate	High	m³/h (l/s)	11,100 (3,084)	11,100 (3,084)	13,000 (3,611)	13,000 (3,611)	13,700 (3,806)	11,100×2 (3,084×2)	11,100×2 (3,084×2)	13,000+11,100 (3,611+3,084)	13,000+11,100 (3,611+3,084)	13,700+11,100 (3,806+3,084)	13,000×2 (3,611×2)	13,700+13,000 (3,806+3,611)	13,700×2 (3,806×2)	13,000+11,100×2 (3,611+3,084×2)	13,700+11,100×2 (3,806+3,084×2)	13,000×2+11,100 (3,611×2+3,084)	13,700+13,000+11,100 (3,806+3,611+3,084)	13,700×2+11,100 (3,806×2+3,084)	13,700+13,000×2 (3,806+3,611×2)	13,700×2+13,000 (3,806×2+3,611)	13,700×3 (3,806×3)
Sound pressure level*2	Cooling	dB (A)	56	58	57	60	62	60	61	61	62	63	63	64	65	64	65	64	65	66	66	66	67
	Heating		58	59	60	62	64	62	62	63	64	65	65	66	67	65	66	66	67	68	68	68	69
Maximum external static pressure		Pa	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output		kW	7.5	7.5	11.0	11.0	11.0	7.5×2	7.5×2	11.0+7.5	11.0+7.5	11.0+7.5	11.0×2	11.0×2	11.0×2	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	11.0×3
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930	930	1,240	1,240	1,240	930×2	930×2	1,240+930	1,240+930	1,240+930	1,240×2	1,240×2	1,240×2	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	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	252	252	275	275	275	252×2	252×2	275+252	275+252	275+252	275×2	275×2	275×2	275+252×2	275+252×2	275×2+252	275×2+252	275×2+252	275×3	275×3	275×3
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge	kg	11.7	11.7	11.8	11.8	11.8	11.7×2	11.7×2	11.8+11.7	11.8+11.7	11.8+11.7	11.8×2	11.8×2	11.8×2	11.8+11.7×2	11.8+11.7×2	11.8×2+11.7	11.8×2+11.7	11.8×2+11.7	11.8×3	11.8×3	11.8×3
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
	Suction gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27
Operation range	Cooling	˚C	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Energy efficiency combinations

Rating capacity range		HP	16	22	24	26	28	30	32	34	36	38	40	42
Model name			AJY144LALBHH	AJY180LALBHH	AJY216LALBHH	AJY234LALBHH	AJY252LALBHH	AJY270LALBHH	AJY288LALBHH	AJY306LALBHH	AJY324LALBHH	AJY342LALBHH	AJY360LALBHH	AJY378LALBHH
Unit 1 Unit 2 Unit 3			AJY072LALBH AJY072LALBH	AJY108LALBH AJY072LALBH	AJY072LALBH AJY072LALBH AJY072LALBH	AJY090LALBH AJY072LALBH AJY072LALBH	AJY108LALBH AJY072LALBH AJY072LALBH	AJY126LALBH AJY072LALBH AJY072LALBH	AJY108LALBH AJY108LALBH AJY072LALBH	AJY126LALBH AJY108LALBH AJY072LALBH	AJY108LALBH AJY108LALBH AJY108LALBH	AJY126LALBH AJY108LALBH AJY108LALBH	AJY126LALBH AJY126LALBH AJY108LALBH	AJY126LALBH AJY126LALBH AJY126LALBH
Maximum connactible indoor unit*1			24	29	36	39	41	45	47	51	53	57	60	64
Indoor unit connectible capacity	Cooling	kW	22.4 to 67.2	28.0 to 83.8	33.6 to 100.8	36.4 to 109.2	39.2 to 117.4	42.4 to 127.2	44.7 to 134.1	48.0 to 143.8	50.3 to 150.7	53.5 to 160.5	56.8 to 170.2	60.0 to 180.0
Power source			3-phase 4 wire, 400 V, 50Hz									3-phase 4 wire, 400 V, 50Hz		
Capacity	Cooling	kW	44.8	55.9	67.2	72.8	78.3	84.8	89.4	95.9	100.5	107.0	113.5	120.0
	Heating		50.0	62.5	75.0	81.5	87.5	95.0	100.0	107.5	112.5	120.0	127.5	135.0
Input power	Cooling	kW	10.40	14.16	15.60	17.68	19.36	21.36	23.12	25.12	26.88	28.88	30.88	32.88
	Heating		10.34	13.82	15.51	17.59	18.99	21.51	22.47	24.99	25.95	28.47	30.99	33.51
EER	Cooling	W/W	4.31	3.95	4.31	4.12	4.04	3.97	3.87	3.82	3.74	3.70	3.68	3.65
COP	Heating		4.84	4.52	4.84	4.63	4.61	4.42	4.45	4.30	4.34	4.21	4.11	4.03
Air flow rate	High	m³/h (l/s)	11,100×2 (3,084×2)	13,000+11,100 (3,611+3,084)	11,100×3 (3,084×3)	11,100×3 (3,084×3)	13,000+11,100×2 (3,611+3,084×2)	13,000+11,100×2 (3,611+3,084×2)	13,000×2+11,100 (3,611×2+3,084)	13,000×2+11,100 (3,611×2+3,084)	13,000×3 (3,611×3)	13,000×3 (3,611×3)	13,000×3 (3,611×3)	13,000×3 (3,611×3)
Sound pressure level*2	Cooling	dB (A)	59	60	61	62	61	63	61	63	64	64	64	65
	Heating		61	62	63	63	64	65	64	65	66	66	66	67
Maximum external static pressure		Pa	82	82	82	82	82	82	82	82	82	82	82	82
Compressor motor output		kW	7.5×2	11.0+7.5	7.5×3	7.5×2	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
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
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		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
	Depth		765	765	765	765	765	765	765	765	765	765	765	765
Weight		kg	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
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge	kg	11.7×2	11.8+11.7	11.7×3	11.7×3	11.8+11.7×2	11.8+11.7×2	11.8×2+11.7	11.8×2+11.7	11.8×3	11.8×3	11.8×3	11.8×3
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Suction gas		28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27
Operation range	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
	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

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: 7.5m; height difference between outdoor unit and indoor unit: 0m.

*1: Minimum connectible indoor unit number is 2.
However ARXC72 and ARXC90 can be used to signal connection.
*2: The noise value is the value when measured in an anechoic room.
When measured in the actual installed state, surrounding noise and reflections are received, and the measured value is usually larger than the indicated value.

HEAT RECOVERY TYPE

AIRSTAGE™ VR-II series

- Smart cutting edge design
- Extensive lineup from 8HP to 48HP in 2HP increments
- Connectible indoor unit capacity ratio of up to 150%

System Outline

Simultaneous cooling and heating operation using one 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

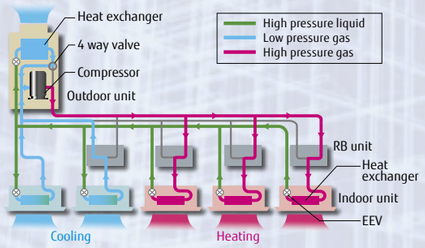
The VR-II series provides annual cooling operation functionality for spaces that require constant temperature control throughout the year.

Temperature difference control

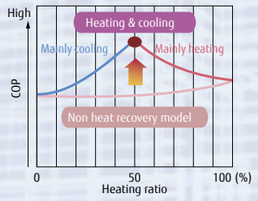
The operation mode can be freely changed when there are large temperature differences during the day, such as between seasons.

Large building





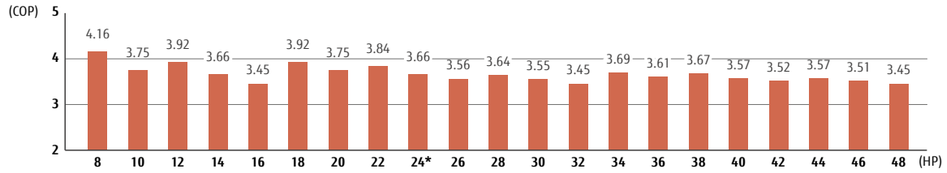
Our heat recovery systems can achieve high operating energy efficiency by drawing heat from the room to be cooled and transferring it as energy for rooms to be heated.



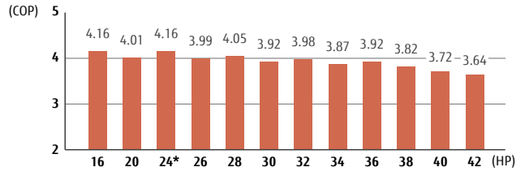
Efficiency during operation

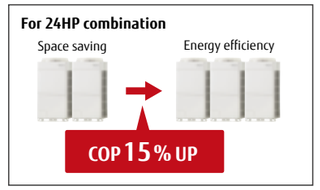
A high COP is achieved for all combinations through our unique heat exchanger structure, highly efficient DC twin compressor and our own proprietary technologies.

Space saving combination



Energy efficient combination





Energy saving technology that enhances operational efficiency



Powerful large propeller fan

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

*1. CFD = computational fluid dynamics



3 phase DC fan motor

Efficiency is improved with the highly efficient motor with sophisticated drive control. Additionally, the DC fan motor exhibits low noise output.



Subcool heat exchanger

High heat exchanger efficiency is achieved by using an internal projection shape with double pipe construction.



Sine-wave DC inverter control

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



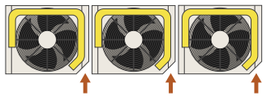
Large capacity DC inverter compressor

Large capacity highly efficient DC twin rotary compressor with excellent part load capability.



4-face heat exchanger

Heat exchanger efficiency is significantly improved by the introduction of a new 4-face heat exchanger with increased 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

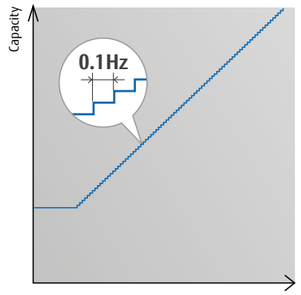
Large capacity DC inverter compressor

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



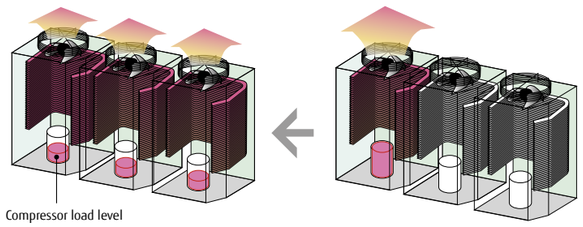
High efficiency compressor speed control

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



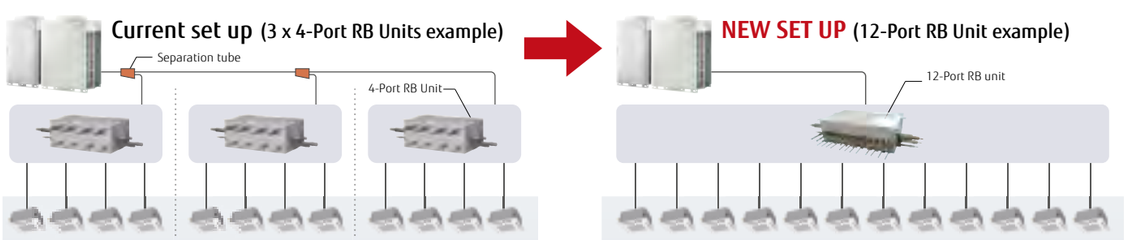
Multiple outdoor operation control

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



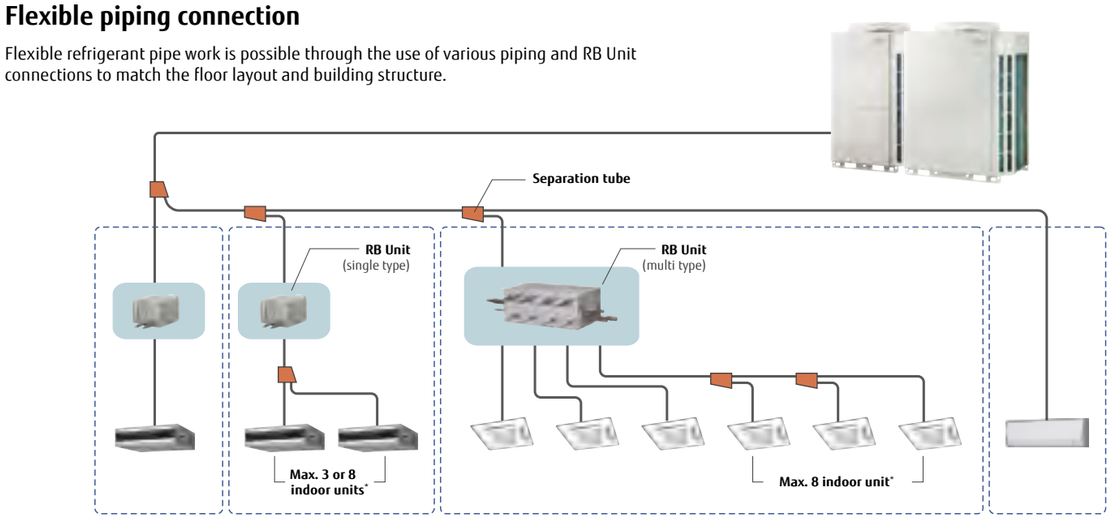
New 8 & 12 RB unit

The new 8 and 12 branch RB units allow for greater flexibility with refrigerant piping work for various floor layouts and building structures.



Flexible piping connection

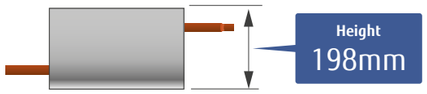
Flexible refrigerant pipe work is possible through the use of various piping and RB Unit connections to match the floor layout and building structure.



- The RB unit can be freely positioned between the first branch and the indoor unit
- The maximum height difference between RB units is 15m

*2. RB Unit is not necessary for cooling only use
Capacity limitations apply. See technical manual

Flexible installation of RB unit



- Compact and slim design saves space
- Drain pipe not required
- The control box position can be changed to meet installation conditions



Installation is possible from either side due to the interchangeable positioning of the control box



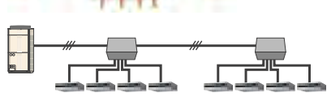
Installation of the control box is possible on the upper side to enable use in narrow spaces

- Compact space saving design
- Drain pipe not required
- Simple installation series connection design

- 2-way connection



Up to 2 multi type RB units can be connected in series





RB unit (single type)

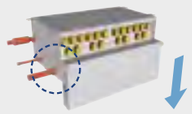


RB unit (multi type)

Easy maintenance in narrow spaces

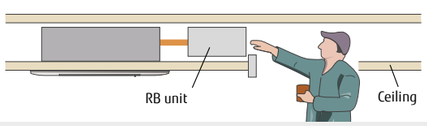


- Maintenance can be performed from the side



- Sliding down the panel on the electrics box allows easy repair and maintenance

- Parts can be replaced easily even within narrow ceiling spaces



• Combinations other than those specified are not supported.

Space saving combinations

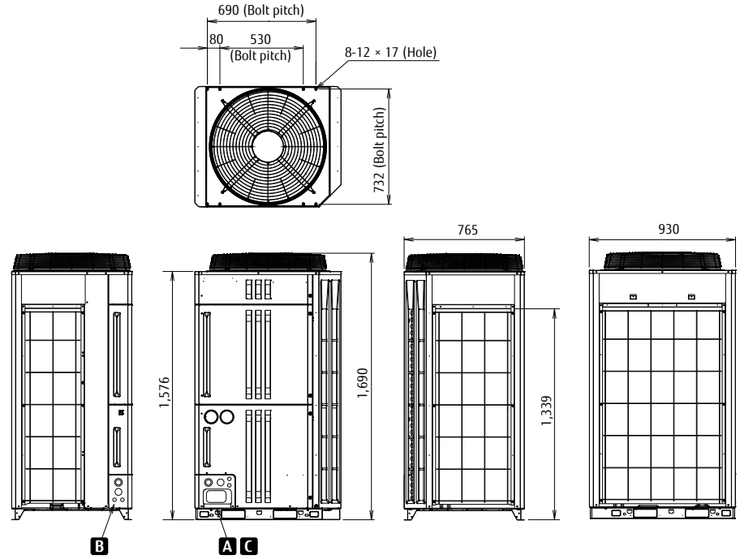
22.4kW (8HP) AJTA72GALH UNIT: AJTA72GALH	28.0kW (10HP) AJTA90GALH UNIT: AJTA90GALH	33.5kW (12HP) AJT108GALH UNIT: AJT108GALH	40.0kW (14HP) AJT126GALH UNIT: AJT126GALH	45.0kW (16HP) AJT144GBLH UNIT: AJT144GBLH
50.4kW (18HP) AJT162GALH UNIT: AJTA90 / A72GALH	56.0W (20HP) AJT180GALH UNIT: AJTA90 / A90GALH	61.5kW (22HP) AJT198GALH UNIT: AJT108 / A90GALH	67.4kW (24HP) AJT216GBLH UNIT: AJT144GBLH / A72GALH	73.0kW (26HP) AJT234GBLH UNIT: AJT144GBLH / A90GALH
78.5kW (28HP) AJT252GBLH UNIT: AJT144GBLH / 108GALH	85.0kW (30HP) AJT270GBLH UNIT: AJT144GBLH / 126GALH	90.0kW (32HP) AJT288GBLH UNIT: AJT144 / 144GBLH	95.4kW (34HP) AJT306GBLH UNIT: AJT144GBLH / A90 / A72GALH	101.0kW (36HP) AJT324GBLH UNIT: AJT144GBLH / A90 / A90GALH
106.5kW (38HP) AJT342GBLH UNIT: AJT144GBLH / 108 / A90GALH	112.4kW (40HP) AJT360GBLH UNIT: AJT144 / 144GBLH / A72GALH	118.0kW (42HP) AJT378GBLH UNIT: AJT144 / 144GBLH / A90GALH	123.5kW (44HP) AJT396GBLH UNIT: AJT144 / 144GBLH / 108GALH	130.0kW (46HP) AJT414GBLH UNIT: AJT144 / 144GBLH / 126GALH
135.0kW (48HP) AJT432GBLH UNIT: AJT144 / 144 / 144GBLH				

Energy efficiency combinations

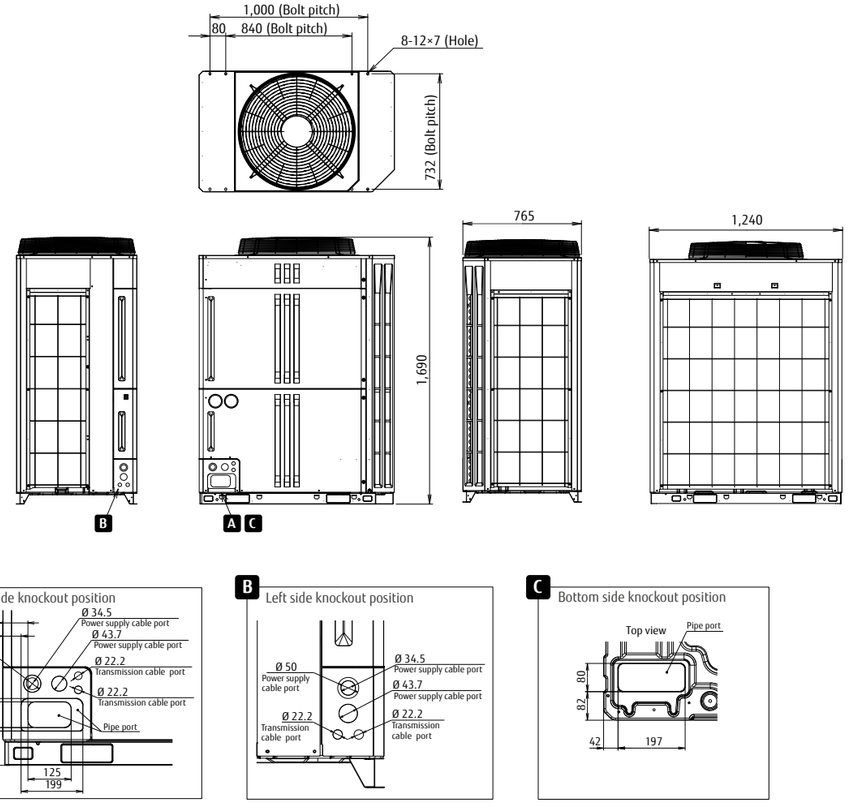
44.8kW (16HP) AJT144GALH UNIT: AJTA72 / A72GALH	55.9kW (20HP) AJT180GALHH UNIT: AJT108 / A72GALH	67.2kW (24HP) AJT216GALHH UNIT: AJTA72 / A72 / A72GALH	72.8kW (26HP) AJT234GALHH UNIT: AJTA90 / A72 / A72GALH	78.3kW (28HP) AJT252GALHH UNIT: AJT108 / A72 / A72GALH
83.9kW (30HP) AJT270GALHH UNIT: AJT108 / A90 / A72GALH	89.4kW (32HP) AJT288GALHH UNIT: AJT108 / 108 / A72GALH	95.0kW (34HP) AJT306GALHH UNIT: AJT108 / 108 / A90GALH	100.5kW (36HP) AJT324GALHH UNIT: AJT108 / 108 / 108GALH	107.0kW (38HP) AJT342GALHH UNIT: AJT126 / 108 / 108GALH
112.0kW (40HP) AJT360GBLHH UNIT: AJT144GBLH / 108 / 108GALH	118.5kW (42HP) AJT378GBLHH UNIT: AJT144GBLH / 126 / 108GALH			

Dimensions

8 / 10HP: AJTA72GALH / AJTA90GALH (Unit: mm)



12 / 14 / 16HP: AJT108GALH / AJT126GALH / AJT144GBLH (Unit: mm)



AIRSTAGE™ VR-II

Space saving combinations

Rating capacity range		HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
Model name			AJTA72GALH	AJTA90GALH	AJT108GALH	AJT126GALH	AJT144GBLH	AJT162GALH	AJT180GALH	AJT198GALH	AJT216GBLH	AJT234GBLH	AJT252GBLH	AJT270GBLH	AJT288GBLH	AJT306GBLH	AJT324GBLH	AJT342GBLH	AJT360GBLH	AJT378GBLH	AJT396GBLH	AJT414GBLH	AJT432GBLH
Unit 1			AJTA72GALH	AJTA90GALH	AJT108GALH	AJT126GALH	AJT144GBLH	AJTA90GALH AJTA72GALH	AJTA90GALH AJTA90GALH	AJT108GALH AJTA90GALH	AJT144GBLH AJTA72GALH	AJT144GBLH AJTA90GALH	AJT144GBLH AJT108GALH	AJT144GBLH AJT126GALH	AJT144GBLH AJT144GBLH	AJT144GBLH AJTA90GALH AJTA72GALH	AJT144GBLH AJTA90GALH AJTA90GALH	AJT144GBLH AJT108GALH AJTA90GALH	AJT144GBLH AJT144GBLH AJTA72GALH	AJT144GBLH AJT144GBLH AJTA90GALH	AJT144GBLH AJT144GBLH AJT108GALH	AJT144GBLH AJT144GBLH AJT126GALH	AJT144GBLH AJT144GBLH AJT144GBLH
Unit 2																							
Unit 3																							
Maximum connectible indoor unit*1			15	16	17	21	24	27	30	32	36	39	42	45	48	51	54	57	60	63	64	64	64
Indoor unit connectible capacity	Cooling	kW	11.2 to 33.6	14.0 to 42.0	16.8 to 50.2	20.0 to 60.0	22.5 to 67.5	25.2 to 75.6	28.0 to 84.0	30.8 to 92.2	33.7 to 101.1	36.5 to 109.5	39.3 to 117.7	42.5 to 127.5	45.0 to 135.0	47.7 to 143.1	50.5 to 151.5	53.3 to 159.7	56.2 to 168.6	59.0 to 177.0	61.8 to 185.2	65.0 to 195.0	67.5 to 202.5
Power source			3-phase 4 wire, 400 V, 50Hz									3-phase 4 wire, 400 V, 50Hz											
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.4	73.0	78.5	85.0	90.0	95.4	101.0	106.5	112.4	118.0	123.5	130.0	135.0
	Heating		25.0	31.5	37.5	45.0	48.5	56.5	63.0	69.0	73.5	80.0	86.0	93.5	97.0	105.0	111.5	117.5	122.0	128.5	134.5	142.0	145.5
Input power	Cooling	kW	6.14	8.37	10.04	13.00	14.48	14.51	16.74	18.41	20.62	22.85	24.52	27.48	28.96	28.99	31.22	32.89	35.10	37.33	39.00	41.96	43.44
	Heating		6.01	8.41	9.57	12.31	14.06	14.42	16.82	17.98	20.07	22.47	23.63	26.37	28.12	28.48	30.88	32.04	34.13	36.53	37.69	40.43	42.18
EER	Cooling	W/W	3.65	3.35	3.34	3.08	3.11	3.47	3.35	3.34	3.27	3.19	3.20	3.09	3.11	3.29	3.24	3.24	3.20	3.16	3.17	3.10	3.11
COP	Heating		4.16	3.75	3.92	3.66	3.45	3.92	3.75	3.84	3.66	3.56	3.64	3.55	3.45	3.69	3.61	3.67	3.57	3.52	3.57	3.51	3.45
Air flow rate	High	m^3/h (l/s)	11,100 (3,084)	11,100 (3,084)	13,000 (3,611)	13,000 (3,611)	13,000 (3,611)	11,100×2 (3,084×2)	11,100×2 (3,084×2)	13,000+11,100 (3,611+3,084)	13,000+11,100 (3,611+3,084)	13,000+11,100 (3,611+3,084)	13,000×2 (3,611×2)	13,000×2 (3,611×2)	13,000×2 (3,611×2)	13,000+11,100×2 (3,611+3,084×2)	13,000+11,100×2 (3,611+3,084×2)	13,000×2+11,100 (3,611×2+3,084)	13,000×2+11,100 (3,611×2+3,084)	13,000×2+11,100 (3,611×2+3,084)	13,000×3 (3,611×3)	13,000×3 (3,611×3)	13,000×3 (3,611×3)
Sound pressure level*2	Cooling	dB (A)	56	58	57	61	61	60	61	61	62	63	62	64	64	64	64	64	65	65	65	66	66
	Heating		58	59	59	61	64	62	62	62	65	65	65	66	67	66	66	66	68	68	68	68	69
Maximum external static pressure		Pa	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80
Compressor motor output		kW	7.5	7.5	11.0	11.0	11.0	7.5×2	7.5×2	11.0+7.5	11.0+7.5	11.0+7.5	11.0×2	11.0×2	11.0×2	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	11.0×3
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930	930	1,240	1,240	1,240	930×2	930×2	1,240+930	1,240+930	1,240+930	1,240×2	1,240×2	1,240×2	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	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	286	286	286	262×2	262×2	286+262	286+262	286+262	286×2	286×2	286×2	286+262×2	286+262×2	286×2+262	286×2+262	286×2+262	286×3	286×3	286×3
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge	kg	11.8	11.8	11.8	11.8	11.8	11.8×2	11.8×2	11.8×2	11.8×2	11.8×2	11.8×2	11.8×2	11.8×2	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Discharge gas		15.88	19.05	19.05	22.22	22.22	22.22	22.22	28.58	28.58	28.58	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92
	Suction gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27
Operation range	Cooling	˚C	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

Energy efficiency combinations

Rating capacity range		HP	16	22	24	26	28	30	32	34	36	38	40	42
Model name			AJT144GALH	AJT180GALHH	AJT216GALHH	AJT234GALHH	AJT252GALHH	AJT270GALHH	AJT288GALHH	AJT306GALHH	AJT324GALHH	AJT342GALHH	AJT360GBLHH	AJT378GBLHH
Unit 1			AJTA72GALH	AJT108GALH	AJTA72GALH	AJTA90GALH	AJT108GALH	AJT108GALH	AJT108GALH	AJT108GALH	AJT108GALH	AJT126GALH	AJT144GBLH	AJT144GBLH
Unit 2			AJTA72GALH	AJTA72GALH	AJTA72GALH	AJTA72GALH	AJTA72GALH	AJTA90GALH	AJT108GALH	AJT108GALH	AJT108GALH	AJT108GALH	AJT108GALH	AJT126GALH
Unit 3					AJTA72GALH	AJTA72GALH	AJTA72GALH	AJTA72GALH	AJTA72GALH	AJTA90GALH	AJT108GALH	AJT108GALH	AJT108GALH	AJT108GALH
Maximum connectible indoor unit*1			24	29	36	39	41	44	47	50	53	57	60	63
Indoor unit connectible capacity	Cooling	kW	22.4 to 67.2	28.0 to 83.8	33.6 to 100.8	36.4 to 109.2	39.2 to 117.4	42.0 to 125.8	44.7 to 134.1	47.5 to 142.5	50.3 to 150.7	53.5 to 160.5	56.0 to 168.0	59.3 to 177.7
Power source			3-phase 4 wire, 400 V, 50Hz									3-phase 4 wire, 400 V, 50Hz		
Capacity	Cooling	kW	44.8	55.9	67.2	72.8	78.3	83.9	89.4	95.0	100.5	107.0	112.0	118.5
	Heating		50.0	62.5	75.0	81.5	87.5	94.0	100.0	106.5	112.5	120.0	123.5	131.0
Input power	Cooling	kW	12.28	16.18	18.42	20.65	22.32	24.55	26.22	28.45	30.12	33.08	34.56	37.52
	Heating		12.02	15.58	18.03	20.43	21.59	23.99	25.15	27.55	28.71	31.45	33.20	35.94
EER	Cooling	W/W	3.65	3.45	3.65	3.53	3.51	3.42	3.41	3.34	3.34	3.23	3.24	3.16
COP	Heating		4.16	4.01	4.16	3.99	4.05	3.92	3.98	3.87	3.92	3.82	3.72	3.64
Air flow rate	High	m^3/h (l/s)	11,100×2 (3,084×2)	13,000+11,100 (3,611+3,084)	11,100×3 (3,084×3)	11,100×3 (3,084×3)	13,000+11,100×2 (3,611+3,084×2)	13,000+11,100×2 (3,611+3,084×2)	13,000×2+11,100 (3,611×2+3,084)	13,000×2+11,100 (3,611×2+3,084)	13,000×3 (3,611×3)	13,000×3 (3,611×3)	13,000×3 (3,611×3)	13,000×3 (3,611×3)
Sound pressure level*2	Cooling	dB (A)	59	60	61	62	61	62	61	62	62	64	64	65
	Heating		61	62	63	63	63	63	63	64	64	65	66	67
Maximum external static pressure		Pa	80	80	80	80	80	80	80	80	80	80	80	80
Compressor motor output		kW	7.5×2	11.0+7.5	7.5×3	7.5×3	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
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
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		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
	Depth		765	765	765	765	765	765	765	765	765	765	765	765
Weight		kg	262×2	286+262	262×3	262×3	286+262×2	286+262×2	286×2+262	286×2+262	286×3	286×3	286×3	286×3
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge	kg	11.8×2	11.8×2	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	Discharge gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92
	Suction gas		28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27
Operation range	Cooling	˚C	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	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

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: 7.5m; height difference between outdoor unit and indoor unit: 0m.

*1: Minimum connectible indoor unit number is 2.
*2: These are the measured values in the manufacturer's anechoic chamber.
Because of the surrounding sound environment, the sound levels measured in actual installation conditions might be higher than the specified values here.

AIRSTAGE™ INDOOR UNITS



16 types and 93 models available to meet the requirements of almost any building design.



The AIRSTAGE™ indoor units were developed to be highly efficient, compact, low noise producing with user friendly operation. With a variety of indoor units and capacities available, Fujitsu General has a unit that's easy to install and maintain and matches almost any requirement.

INDOOR UNITS LINEUP

- 4-way Flow Compact Cassette
- 4-way Flow Cassette
- Circular Flow Cassette
- Mini Duct
- Slim Duct / Slim Concealed Floor
- Medium Static Pressure Duct
- High Static Pressure Duct
- Compact Floor
- Floor / Ceiling
- Ceiling
- Wall Mounted (EEV Internal / External)

INDOOR UNITS LINEUP

Comprehensive range of indoor units with various design and capacity ranges to suit most air conditioning needs.
16 types, 93 models, with a capacity range from 2.2kW to 28.0kW.

Indoor units range

Model code			7	9	12	14	18	24	30	34	36	45	54	60	72	90	96
Capacity range (kW)			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
Cassette	4-way Flow Compact		AUXB007GLEH AUXB07GALH	AUXB009GLEH AUXB09GALH	AUXB012GLEH AUXB12GALH	AUXB014GLEH AUXB14GALH	AUXB018GLEH AUXB18GALH	AUXB024GLEH AUXB24GALH									
	4-way Flow	(Slim type)					AUXD18GALH	AUXD24GALH									
		(Large type)					AUXA18GALH*1	AUXA24GALH*1	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH				
	Circular Flow	(Slim type)					AUXM018GLEH AUXM018GLAH	AUXM024GLEH AUXM024GLAH	AUXM030GLEH AUXM030GLAH								
		(Large type)					AUXK018GLEH AUXK018GLAH	AUXK024GLEH AUXK024GLAH	AUXK030GLEH AUXK030GLAH	AUXK034GLEH AUXK034GLAH	AUXK036GLEH AUXK036GLAH	AUXK045GLEH AUXK045GLAH	AUXK054GLEH AUXK054GLAH				
Duct	Mini Duct (With drain pump)		ARXK007GLEH	ARXK009GLEH	ARXK012GLEH	ARXK014GLEH	ARXK018GLEH	ARXK024GLEH									
	Slim Duct (With drain pump)		ARXD007GLEH	ARXD009GLEH	ARXD012GLEH	ARXD014GLEH	ARXD018GLEH	ARXD024GLEH									
	Medium Static Pressure Duct							ARXA024GLEH	ARXA030GLEH		ARXA036GLEH	ARXA045GLEH					
	High Static Pressure Duct										ARXC036GTEH ARXC36GATH	ARXC45GATH		ARXC60GATH*2	ARXC072GTEH*2	ARXC090GTEH*2	ARXC096GTEH*2
Floor	Floor (Same as Ceiling models)				ABYA012GTEH	ABYA014GTEH	ABYA018GTEH	ABYA024GTEH									
	Slim Concealed Floor (Same as Slim Duct models)		ARXD007GLEH	ARXD009GLEH	ARXD012GLEH	ARXD014GLEH	ARXD018GLEH	ARXD024GLEH									
	Compact Floor		AGYA007GCEH	AGYA009GCEH	AGYA012GCEH	AGYA014GCEH											
	Compact Floor (EEV external)		AGYE007GCEH	AGYE009GCEH	AGYE012GCEH	AGYE014GCEH	With this model, connection of EV kit is necessary.										
Ceiling	Ceiling				ABYA012GTEH	ABYA014GTEH	ABYA018GTEH	ABYA024GTEH	ABYA030GTEH		ABYA036GTEH	ABYA045GTEH	ABYA054GTEH				
Wall Mounted	Wall Mounted		ASYA007GTEH	ASYA009GTEH	ASYA012GCEH	ASYA014GCEH	ASYA18GBCH	ASYA24GBCH	ASYA030GTEH	ASYA034GTEH							
	Wall Mounted (EEV external)		ASYE007GTEH	ASYE009GTEH	ASYE012GCEH	ASYE014GCEH	With this model, connection of EV kit is necessary.										

*1:AUXA18 / 24GALH cannot be connected to J-III L series. *2: ARXC60 / 072 / 090 / 096G cannot be connected to J-IIS series and J-III series.

4-way Flow Compact Cassette

Models (Slim type)
AUXB007GLEH / AUXB009GLEH / AUXB012GLEH
AUXB014GLEH / AUXB018GLEH / AUXB024GLEH

AUXB07GALH / AUXB09GALH / AUXB12GALH
AUXB14GALH / AUXB18GALH / AUXB24GALH



DC FAN

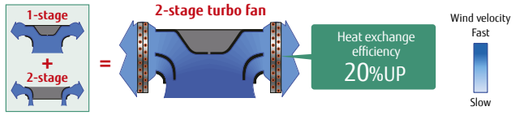
Features

2-stage turbo fan

High efficiency design through 2-stage structure

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





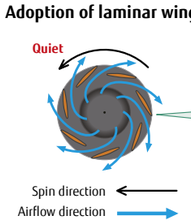
Previous turbo fan
In the case of a previous fan, the air outlet range was narrow as the airflow moved to the motor side which meant the velocity of air passing through the heat exchanger was uneven.



Quiet operation

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

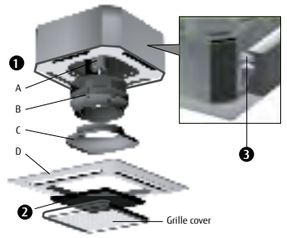
Adoption of laminar wing



Laminar wing
Airflow runs through smoothly along the laminar wing



Improvement of the airflow distribution



❶ 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

❷ Air filter: standard equipment

❸ 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)	
	Standard mode	**High ceiling mode**
7	2.7	–
9	2.7	–
12	2.7	3.0
14	2.7	3.0
18	2.7	3.0
24	2.7	3.0

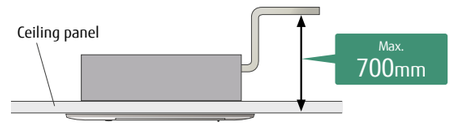


Compact design

The world's first 24,000Btu model in the compact cassette category.
(Easily installed 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
External power supply unit:	UTZ-GXXA (AUXB***GLEH)
Cassette Grille:	UTG-UFYC-W

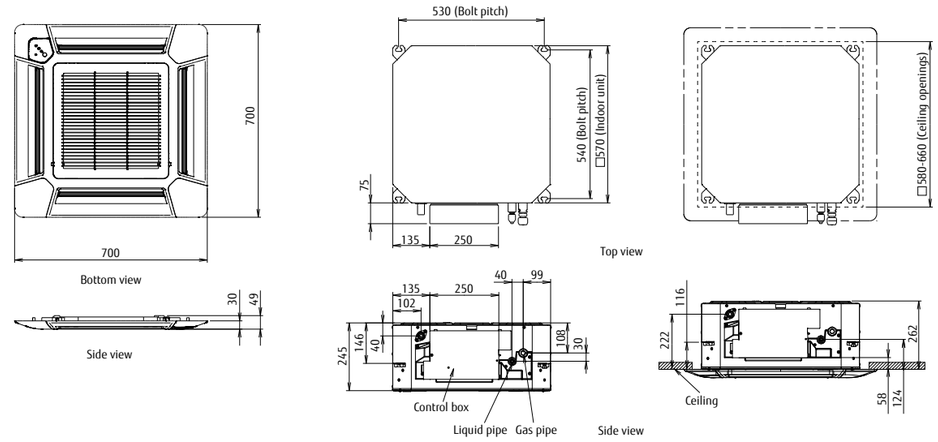
Specifications

Model name			AUXB007GLEH AUXB07GALH	AUXB009GLEH AUXB09GALH	AUXB012GLEH AUXB12GALH	AUXB014GLEH AUXB14GALH	AUXB018GLEH AUXB18GALH	AUXB024GLEH AUXB24GALH
Power source			Single - phase, ~230V, 50Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		2.8	3.2	4.1	5.0	6.3	8.0
Input power		W	25	25	29	35	36	84
Airflow rate	High	m³/h (l/s)	540 (150)	550 (153)	600 (167)	680 (189)	710 (197)	1,030 (286)
	Med-H*		500(138)	520 (144)	560 (156)	620 (172)	660 (183)	910 (253)
	Med		460 (127)	480 (133)	520 (144)	560 (156)	590 (164)	790 (231)
	Med-L*		420 (116)	440 (122)	480 (133)	500 (139)	520 (144)	680 (189)
	Low		390 (108)	400 (111)	430 (119)	440 (122)	460 (128)	560 (156)
	Quiet*		350 (97)	350 (97)	390 (108)	390 (108)	400 (111)	450 (125)
Sound pressure level	High	dB (A)	34	35	37	38	41	50
	Med-H*		32	33	34	37	39	46
	Med		30	31	33	34	36	43
	Med-L*		28	29	31	32	33	39
	Low		27	27	29	30	30	35
	Quiet*		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
Weight		kg	15	15	15	15	17	17
Connection pipe diameter	Liquid (flare)	mm	6.35	6.35	6.35	6.35	9.52(GALH) / 6.35(GLEH)	9.52
	Gas (flare)		12.70(GALH) / 9.52(GLEH)	12.70(GALH) / 9.52(GLEH)	12.70	12.70	15.88(GALH) / 12.70(GLEH)	15.88
Drain hose diameter (I.D./O.D.)			25 / 32					
Cassette grille	Model name		UTG-UFYC-W					
	Dimensions (H×W×D)	mm	49 × 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: 7.5m; height difference between outdoor unit and indoor unit: 0m. Voltage: 230V.

* AUXB***GLEH only

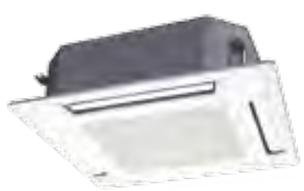
Dimensions (Unit: mm)



4-way Flow Cassette

Models (Slim type)
AUXD18GALH / AUXD24GALH

Models (Large type)
AUXA18GALH / AUXA24GALH / AUXA30GALH
AUXA34GALH / AUXA36GALH / AUXA45GALH
AUXA54GALH



(Slim type)



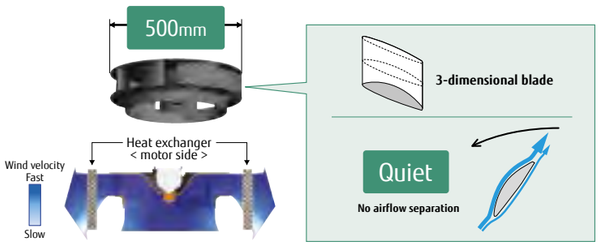
(Large type)

DC FAN

Features

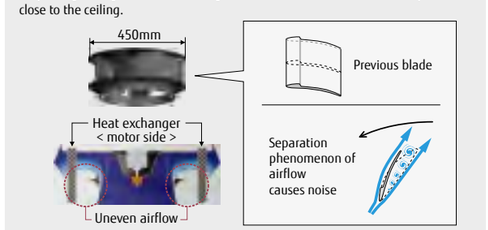
High efficiency turbo fan with 3-dimensional blade

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



Previous turbo fan

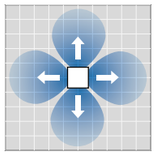
Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.



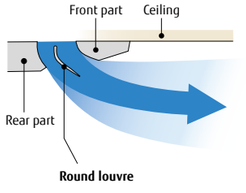
Spin direction Airflow direction Turbulent flow noise

Improvement of the airflow distribution

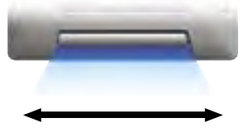
The unique design of the louvres and added space between the chassis and ceiling maximises airflow distribution within the room.



Bottom view

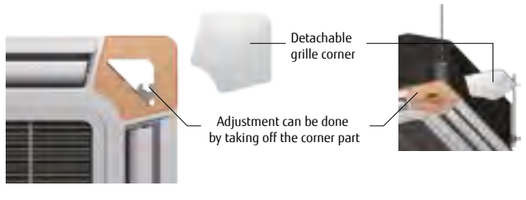


Round louvre



Much less temperature irregularity happens by spreading airflow widely

Adjustment of hanger position is possible after installation

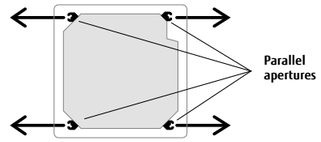


High ceiling mode

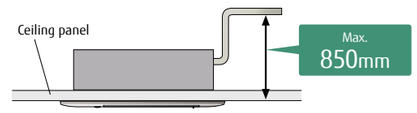
This cassette can be installed up to a height of 4.2m (36 / 45 / 54).

Model code	The maximum height from floor to ceiling (m)	
	Standard mode	**High ceiling mode**
18	3.0	3.5
24	3.0	3.5
30	3.2	3.6
34	3.2	3.6
36	3.2	4.2
45	3.2	4.2
54	3.2	4.2

One way installation



High lift drain pump



Optional parts

IR receiver unit:	UTY-LRHYB1
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
Cassette grille:	UTG-UGYA-W

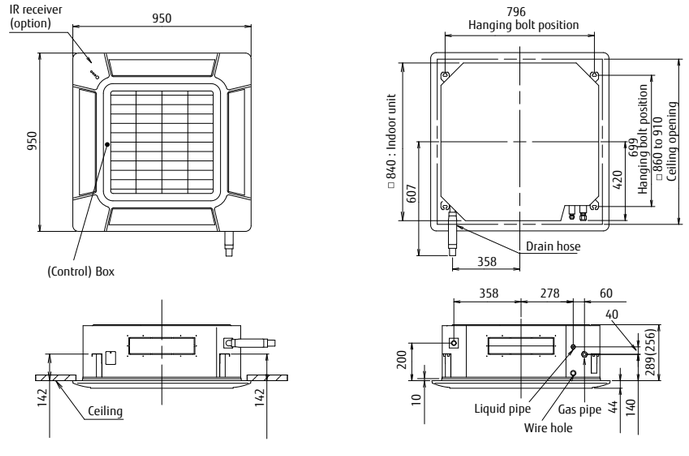
Specifications

Model name			AUXD18GALH	AUXD24GALH	AUXA18GALH	AUXA24GALH	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH
Power source			Single - phase, ~230V, 50Hz								
Capacity	Cooling	kW	5.6	7.1	5.6	7.1	9.0	10.0	11.2	12.5	14.0
	Heating		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
Airflow rate	High	m³/h (l/s)	1,150 (319)	1,280 (356)	1,420 (394)	1,420 (394)	1,600 (444)	1,750 (486)	1,800 (500)	1,900 (528)	2,000 (556)
	Med		940 (261)	1,040 (289)	1,230 (342)	1,230 (342)	1,300 (361)	1,300 (361)	1,300 (361)	1,370 (381)	1,370 (381)
	Low		870 (242)	870 (242)	1,100 / 1,000*1 (306 / 278)	1,100 / 1,000*1 (306 / 278)	1,100 (306)	1,100 (306)	1,100 (306)	1,100 (306)	1,100 (306)
Sound pressure level	High	dB (A)	36	38	40	40	40	43	44	46	47
	Med		30	33	36	36	38	38	38	39	39
	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 pipe diameter	Liquid (flare)	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Gas (flare)		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								
Cassette grille	Model name		UTG-UGYA-W								
	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: 7.5m; height difference between outdoor unit and indoor unit: 0m. Voltage: 230V.

*1: This value is under cooling operation.

Dimensions (Unit: mm) AUXD18 / AUXD24



Circular Flow Cassette

Models (Slim type)
AUXM018GLEH / AUXM024GLEH / AUXM030GLEH
AUXM018GLAH / AUXM024GLAH / AUXM030GLAH

Models (Large type)
AUXK018GLEH / AUXK024GLEH / AUXK030GLEH
AUXK034GLEH / AUXK036GLEH / AUXK045GLEH
AUXK054GLEH
AUXK018GLAH / AUXK024GLAH / AUXK030GLAH
AUXK034GLAH / AUXK036GLAH / AUXK045GLAH
AUXK054GLAH



(Slim type)



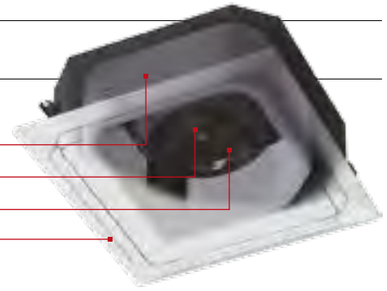
(Large type)

DC FAN

Features

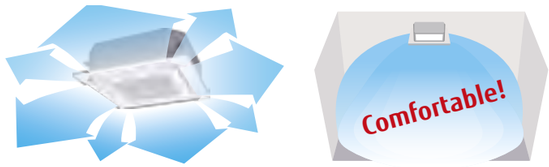
Unique Circular Flow design

The new cassette type creates a consistent and even temperature via multi-directional 360° airflow functionality. This is achieved by mounting a high performance DC fan motor, new turbo fan and unique seamless airflow louvre design.



Uniform temperature air conditioning

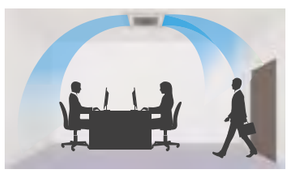
Achieve a consistent and even temperature in the room with circular flow and wide vertical airflow spreading conditioned air to every corner of the room.



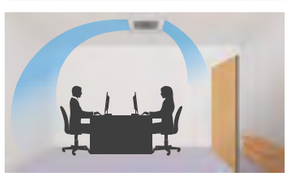
Individual louvre control

Each louvre can be set individually with the touch panel wired remote control, allowing different directional airflows according to various room layouts.

* Touch Panel Wired RC (UTY-RNRYZ3) only



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



Efficient air conditioning based on the room layout

Human sensor increases energy saving operation

Energy saving operation starts automatically by detecting the motion of a person. The human sensor detects movement and activates or deactivates energy saving mode accordingly.
Two modes can be selected: save operation and stop mode.

*Touch Panel Wired RC (UTY-RNRYZ3) only

2 modes can be selected

Auto saving
Power is saved while people are away.

Auto OFF
Operation stops after people go out.

Optional parts

IR receiver unit:	UTY-LBHXD
Human sensor kit:	UTY-SHZXC
Air outlet shutter plate:	UTR-YDZK
Panel spacer:	UTG-BKXA-W
Wide panel:	UTG-AGXA-W
Insulation kit for high humidity:	UTZ-KXRA
Fresh air intake kit:	UTZ-VXRA
External power supply unit:	UTZ-GXXA (AUXM***GLEH, AUXK***GLEH)
Cassette grille:	UTG-UKYC-W



Specifications

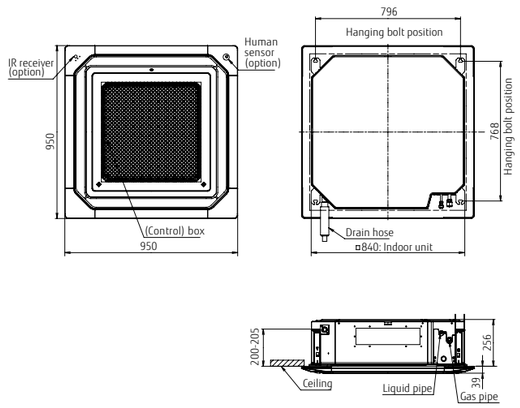
Model name			AUXM018GLEH AUXM018GLAH	AUXM024GLEH AUXM024GLAH	AUXM030GLEH AUXM030GLAH	AUXK018GLEH AUXK018GLAH	AUXK024GLEH AUXK024GLAH	AUXK030GLEH AUXK030GLAH	AUXK034GLEH AUXK034GLAH	AUXK036GLEH AUXK036GLAH	AUXK045GLEH AUXK045GLAH	AUXK054GLEH AUXK054GLAH
Power source			Single - phase, ~230V, 50Hz									
Capacity	Cooling	kW	5.6	7.1	9.0	5.6	7.1	9.0	10.0	11.2	12.5	14.0
	Heating		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
Airflow rate	High	m³/h (l/s)	1,050(292)	1,120(311)	1,470(408)	1,420(394)	1,420(394)	1,440(400)	1,440(400)	1,620(450)	1,820(506)	2,040(567)
	Med-H		930(258)	1,050(292)	1,160(322)	1,360(378)	1,360(378)	1,400(389)	1,400(389)	1,500(417)	1,590(442)	1,800(500)
	Med		900(250)	930(258)	1,070(297)	1,300(361)	1,300(361)	1,340(372)	1,340(372)	1,400(389)	1,500(417)	1,590(442)
	Med-L		870(242)	900(250)	930(258)	1,270(353)	1,270(353)	1,300(361)	1,300(361)	1,340(372)	1,400(389)	1,440(400)
	Low		810(225)	870(242)	900(250)	1,200(333)	1,200(333)	1,280(356)	1,280(356)	1,280(356)	1,300(361)	1,300(361)
	Quiet		780(217)	780(217)	780(217)	1,150(319)	1,150(319)	1,150(319)	1,150(319)	1,150(319)	1,150(319)	1,150(319)
Sound pressure level	High	dB (A)	33	35	40	38	38	39	39	41	44	47
	Med-H		32	33	36	37	37	38	38	40	42	45
	Med		31	32	34	36	36	37	37	38	40	42
	Med-L		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 pipe diameter	Liquid (flare)	mm	6.35	9.52	9.52	6.35	9.52	9.52	9.52	9.52	9.52	9.52
	Gas (flare)		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									
Cassette grille	Model name		UTG-UKYC-W									
	Dimensions (H×W×D)	mm	53×950×950									
	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: 7.5m; height difference between outdoor unit and indoor unit: 0m. Voltage: 230V.

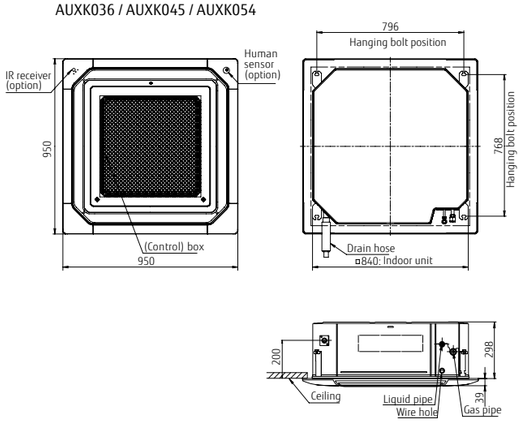
When AUX*018GLAH, GLEH is connected to the outdoor unit other than J-IIIL, pipe diameter should be Ø9.52 / Ø15.88 (Liq / Gas)
When AUXK036GLAH, GLEH, AUXK045GLAH, GLEH, and AUXK054GLAH, GLEH are connected to the outdoor unit other than J-IIIL, gas pipe diameter should be Ø19.05.

Dimensions (Unit: mm)

Models: AUXM018 / AUXM024 / AUXM030



Models: AUXK018 / AUXK024 / AUXK030 / AUXK034
AUXK036 / AUXK045 / AUXK054



Mini Duct

Models (with drain pump)
ARXK007GLEH / ARXK009GLEH / ARXK012GLEH
ARXK014GLEH / ARXK018GLEH / ARXK024GLEH



ARXK007 ARXK009 ARXK012 ARXK014



ARXK018



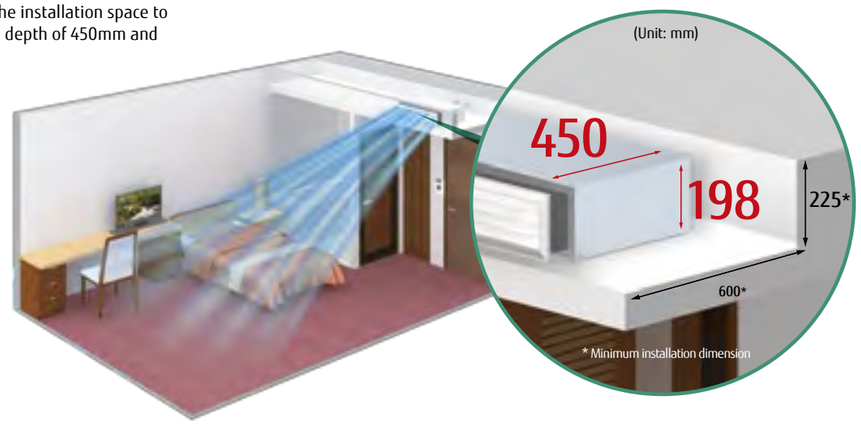
ARXK024

DC FAN

Features

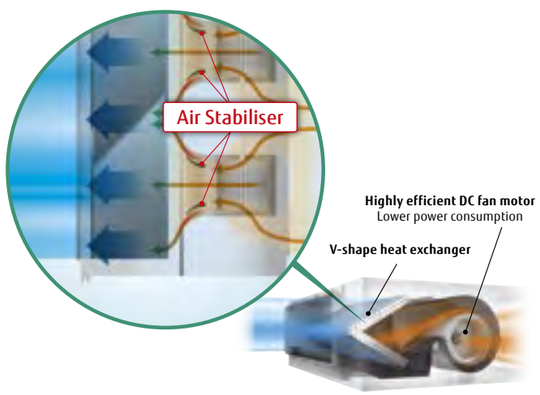
Compatible with the requirements of the installation space

- The compact design allows for the installation space to be reduced down to a minimum depth of 450mm and height of 198mm
- Lightweight: 16kg, 10% down



Optimum airflow path and low noise operation

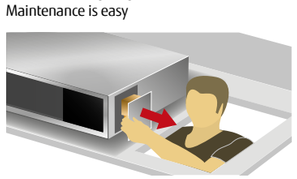
Low noise is realised drastically with the stabilised airflow design



Easy design and maintenance for drainage

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 the remote controller.
* 0 to 30 Pa. (012 model)

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 be installed in quiet areas.

Low noise
21 dB(A)
at 007 / 009 models



* Compatible remote controllers:
UTY-RNRYZ3 / UTY-RSRY / UTY-RHRY / UTY-DCGYZ1 / UTY-DTGYZ1 / UTY-ALGXZ1 / UTY-APGXZ1

Auto louvre grille kit (option)

- Thin design provides a comfortable living environment over a wide area
- Automatic louvre grille provides comfortable air conditioning from floor to ceiling (option)



Optional parts

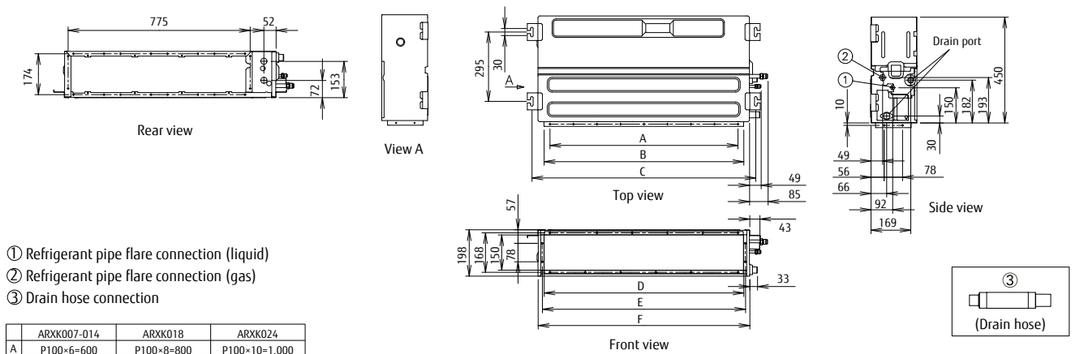
Remote sensor unit:	UTY-XSZX
IR receiver unit:	UTB-TWC
Auto louvre grille kit:	UTD-GXTA-W (for ARXK007 / 009 / 012 / 014)
	UTD-GXTB-W (for ARXK018)
	UTD-GXTC-W (for ARXK024)
External power supply unit:	UTZ-GXXA

Specifications

Model name			ARXK007GLEH	ARXK009GLEH	ARXK012GLEH	ARXK014GLEH	ARXK018GLEH	ARXK024GLEH
Power source			Single - phase, ~230V, 50Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	28	28	35	66	73	80
Airflow rate	High	m3/h (l/s)	460(128)	460(128)	550(153)	760(211)	930(258)	1,160(322)
	Med-H		440(122)	440(122)	520(144)	660(183)	840(233)	1,060(294)
	Med		420(117)	420(117)	480(133)	560(156)	740(206)	960(267)
	Med-L		400(111)	400(111)	450(125)	490(136)	640(178)	860(239)
	Low		370(103)	370(103)	410(114)	410(114)	540(150)	750(208)
	Quiet		340(94)	340(94)	340(94)	340(94)	470(131)	610(169)
Static pressure range		Pa	0 to 30	0 to 30	0 to 30	0 to 50	0 to 50	0 to 50
Standard static pressure			10	10	10	15	15	15
Sound pressure level	High	dB (A)	26	26	29	34	33	32
	Med-H		25	25	27	31	30	30
	Med		24	24	26	28	28	28
	Med-L		23	23	25	26	26	27
	Low		22	22	24	24	24	25
	Quiet		21	21	22	22	22	22
Dimensions (H × W × D)		mm	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 900 × 450	198 × 1,100 × 450
Weight		kg	15.5	15.5	16.0	16.0	19.0	22.5
Connection pipe diameter	Liquid (flare)	mm	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (flare)		9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25 / 32					

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

Dimensions (Unit: mm)



① Refrigerant pipe flare connection (liquid)
② Refrigerant pipe flare connection (gas)
③ Drain hose connection

	ARXK007-014	ARXK018	ARXK024
A	P100×6=600	P100×8=800	P100×10=1,000
B	650	850	1,050
C	752	952	1,152
D	650	850	1,050
E	665	864	1,064
F	700	900	1,100

Slim Duct / Slim Concealed Floor

Models (with drain pump)
ARXD007GLEH / ARXD009GLEH / ARXD012GLEH
ARXD014GLEH / ARXD018GLEH / ARXD024GLEH



ARXD007 ARXD009 ARXD012 ARXD014



ARXD018



ARXD024

Slim Concealed Floor

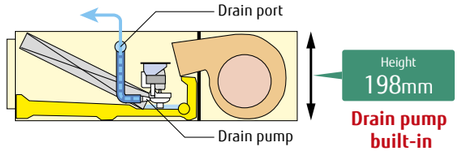


DC FAN

Features

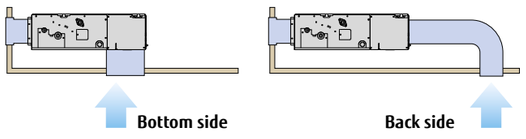
Slim design

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



Air intake

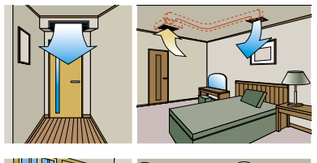
Air intake direction can be selected to match the installation site.



Flexible installation

Ceiling concealed





Floor concealed





Selectable static pressure

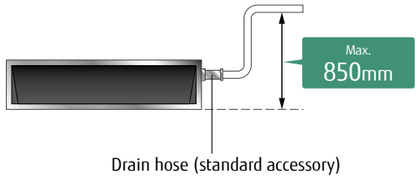
By using DC fan motor, it is possible to change the static pressure range from 0 to 90Pa.
The static pressure range is configurable through the remote controller.



Static pressure range
0 to 90Pa

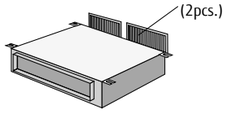
*024 model is 0 to 50Pa

High lift drain pump

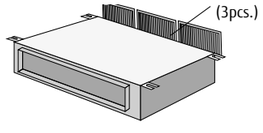


Filter (accessory)

ARXD007 / 009 / 012 / 014 / 018

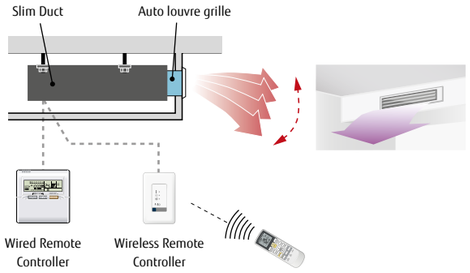


ARXD024



Auto louvre grille kit (option)

Simple flat auto louvre will provide comfortable airflow and complement luxury interiors.



Optional parts

Remote sensor unit:	UTY-XSZX
IR receiver unit:	UTB-TWC
Auto louvre grille kit:	UTD-GXTA-W (for ARXD007 / 009 / 012 / 014)
	UTD-GXTB-W (for ARXD018)
	UTD-GXTC-W (for ARXD024)
External power supply unit:	UTZ-GXXA

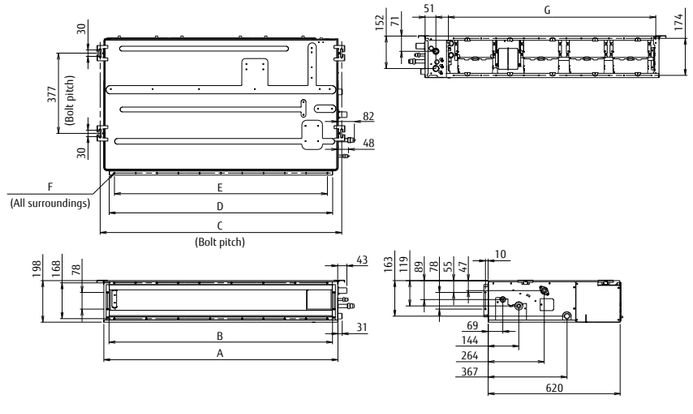
Specifications

Model name			ARXD007GLEH	ARXD009GLEH	ARXD012GLEH	ARXD014GLEH	ARXD018GLEH	ARXD024GLEH
Power source			Single - phase, ~230V, 50Hz					
Capacity	Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	44	50	54	92	83	122
Airflow rate	High	m3/h (l/s)	550 (153)	600 (167)	600 (167)	800 (222)	940 (261)	1,330 (369)
	Med-H		520 (144)	510 (142)	530 (147)	680 (189)	820 (228)	1,140 (317)
	Med		480 (133)	460 (127)	490 (136)	600 (167)	730 (203)	1,020 (283)
	Med-L		410 (114)	420 (116)	450 (125)	520 (144)	630 (175)	900 (250)
	Low		370 (103)	370 (103)	410 (114)	440 (122)	540 (150)	780 (217)
	Quiet		320 (89)	320 (89)	340 (94)	340 (94)	470 (131)	610 (169)
Static pressure range		Pa	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 50
Standard static pressure			25	25	25	25	25	25
Sound pressure level	High	dB (A)	28	29	30	34	34	35
	Med-H		26	27	28	32	31	31
	Med		25	25	27	30	29	29
	Med-L		24	24	26	28	27	27
	Low		22	22	24	25	25	24
	Quiet		21	21	22	22	23	21
Dimensions (H × W × D)		mm	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 900 × 620	198 × 1,100 × 620
Weight		kg	17	17	18	18	22	26
Connection pipe diameter	Liquid (flare)	mm	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (flare)		9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25 / 32					

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

Dimensions (Unit: mm)

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



	ARXD007-014	ARXD018	ARXD024
A	700	900	1,100
B	650	850	1,050
C	734	934	1,134
D	650	850	1,050
E	P100x6=600	P100x8=800	P100x10=1,000
F	18xØ5	22xØ5	26xØ5
G	574	774	974

Medium Static Pressure Duct

Models
ARXA024GLEH / ARXA030GLEH
ARXA036GLEH / ARXA045GLEH

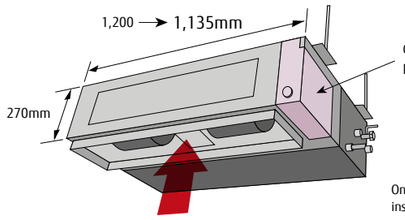


DC FAN

Features

Slim and 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 through the high efficiency DC fan motor

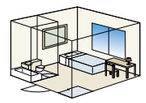
Improved motor efficiency compared to the previous model.


024 model

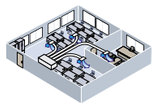
030 / 036 / 045 model

Can be installed in various locations

This unit can be installed in a range of locations such as high rise apartments through low static pressure design.



It can also be installed in open spaces when higher static pressure is required, such as offices.



Selectable with a wide range of static pressure

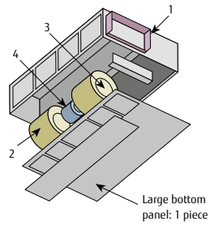
It is possible to change the static pressure range from 0 to 150Pa.

Static pressure range
0 to 150Pa

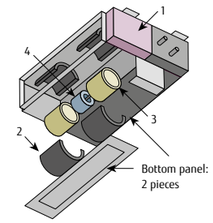
Easy maintenance

See below for the case of rear suction type

Previous model

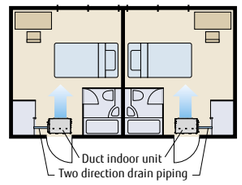


New model



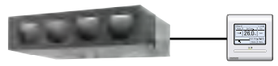
Structural improvement is attained by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while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

Two direction drain piping



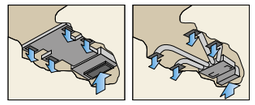
Static pressure setting via the remote controller

Changing the static pressure range is possible with the remote controller

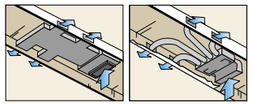


Installation styles

Embedded in ceiling



Hanging from ceiling



Optional parts

Remote sensor unit:	UTY-XSZX	Flange (round):	UTD-RF204
Long life filter:	UTD-LF25NA	IR receiver unit:	UTB-TWC
Flange (square):	UTD-SF045T	Drain pump unit:	UTZ-PX1NBA

External power supply unit: UTZ-GXXA

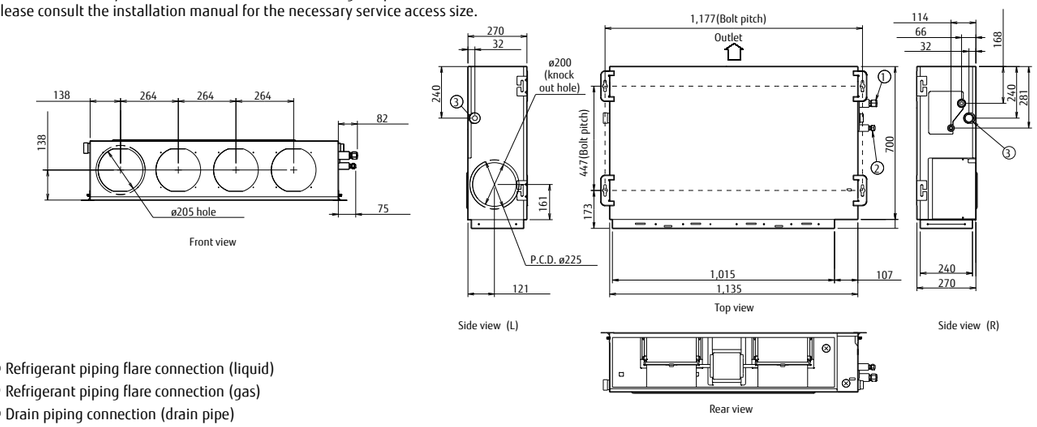
Specifications

Model name			ARXA024GLEH	ARXA030GLEH	ARXA036GLEH	ARXA045GLEH
Power source			Single - phase, ~230V, 50Hz			
Capacity	Cooling	kW	7.1	9.0	11.2	12.5
	Heating		8.0	10.0	12.5	14.0
Input power		W	94	108	194	240
Airflow rate	High	m3/h (l/s)	1,280 (356)	1,410 (392)	1,840 (511)	1,970 (547)
	Med-H		1,180 (328)	1,350 (375)	1,750 (486)	1,910 (530)
	Med		1,090 (303)	1,280 (356)	1,660 (461)	1,860 (517)
	Med-L		1,000 (278)	1,240 (344)	1,600 (444)	1,780 (494)
	Low		920 (256)	1,190 (331)	1,530 (425)	1,710 (475)
	Quiet		840 (233)	1,150 (319)	1,470 (408)	1,640 (456)
Static pressure range		Pa	0 to 150	0 to 150	0 to 150	0 to 150
Standard static pressure			40	50	50	60
Sound pressure level	High	dB (A)	36	34	37	41
	Med-H		33	33	36	40
	Med		31	32	35	38
	Med-L		29	31	35	38
	Low		28	30	34	37
	Quiet		26	29	33	36
Dimensions (H × W × D)		mm	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700
Weight		kg	36	40	40	40
Connection pipe diameter	Liquid (flare)	mm	9.52	9.52	9.52	9.52
	Gas (flare)		15.88	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32			

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

Dimensions (Unit: mm)

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



① Refrigerant piping flare connection (liquid)
② Refrigerant piping flare connection (gas)
③ Drain piping connection (drain pipe)

High Static Pressure Duct

Models
ARXC036GTEH

ARXC36GATH / ARXC45GATH / ARXC60GATH

Models
ARXC072GTEH / ARXC090GTEH

Models
ARXC096GTEH



ARXC036 ARXC36 ARXC45 ARXC60



ARXC072 ARXC090

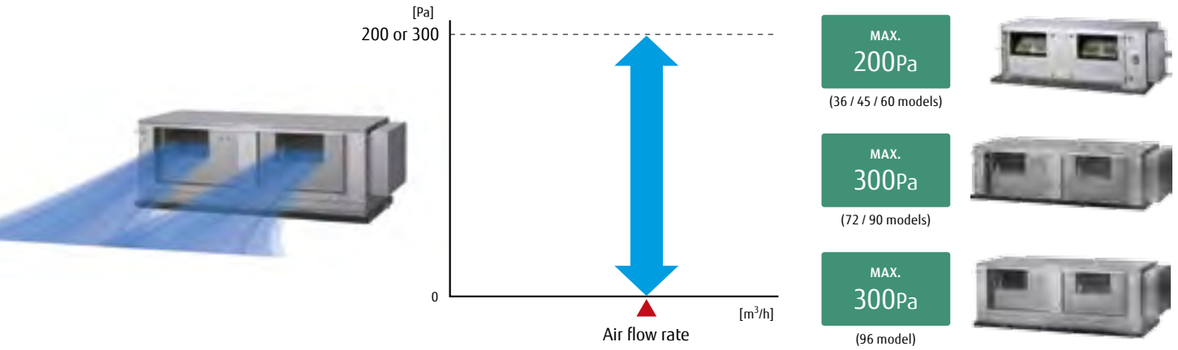


ARXC096

Features

Static pressure selection

By using DC fan motor, it is possible to change the static pressure range from 0 to 200Pa (36 model) / 300Pa (96 model).



MAX. 200Pa
(36 / 45 / 60 models)

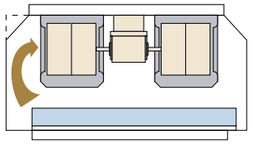
MAX. 300Pa
(72 / 90 models)

MAX. 300Pa
(96 model)

Low noise

Models: 36 / 45 / 60 models

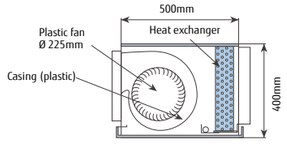
Cutting off the corners of the conventional indoor unit front panel and fan casing has enabled less turbulent airflow. Low noise is realised by adopting a plastic case and a plastic fan.



New model
(36 model)

ARXC036GTEH : Plastic fan [42dB(A)]

* Model: material
(At 100Pa: actual noise measurement value)



Low energy consumption with high efficiency DC fan motor

Improved motor efficiency from previous model.



(36 model)

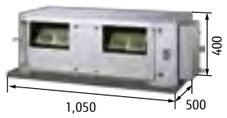


(96 model)

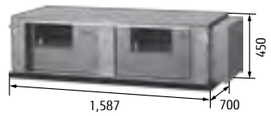
Easy installation (compact size and lightweight)

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

(36 / 45 / 60 models)

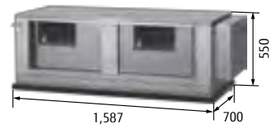


(72 / 90 models)



(96 model)

(Unit: mm)



Optional parts

Long-life filter: UTD-LF60KA (For ARXC036 / 36 / 45 / 60)
IR receiver unit: UTB-TWC (For ARXC**GATH)
UTY-TRHX (For ARXC***GTEH)
Remote sensor unit: UTY-XSZX
External power supply unit: UTZ-GXXA (ARXC***GTEH)

Specifications

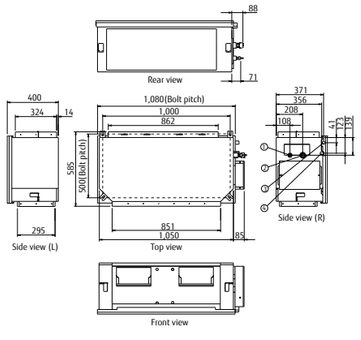
Model name			ARXC036GTEH	ARXC36GATH	ARXC45GATH	ARXC60GATH*	ARXC072GTEH	ARXC090GTEH	ARXC096GTEH
Power source			Single - phase, ~230V, 50Hz						
Capacity	Cooling	kW	11.2	11.2	12.5	18.0	22.4	25.0	28.0
	Heating		12.5	12.5	14.0	20.0	25.0	28.0	31.5
Input power		W	207	405	715	730	1,110	1,250	838
Airflow rate	High	m³/h (l/s)	1,990 (552)	2,600 (722)	3,000 (833)	3,350 (931)	3,900 (1,083)	4,300 (1,195)	4,850 (1,347)
	Med		1,680 (466)	1,950 (542)	2,700 (750)	2,850 (792)	3,300 (917)	4,000 (1,111)	4,250 (1,181)
	Low		1,330 (369)	1,450 (403)	2,300 (639)	2,550 (708)	3,000 (833)	3,500 (972)	3,600 (1,000)
Static pressure range		Pa	0 to 200	100 to 200	100 to 250	100 to 250	50 to 300	100 to 300	0 to 300
Standard static pressure			100	100	100	100	260	250	150
Sound pressure level	High	dB (A)	42	45	47	48	47	48	48
	Med		36	38	43	44	43	46	45
	Low		32	32	40	41	40	44	42
Dimensions (H × W × D)		mm	400 × 1,050 × 500	400 × 1,050 × 500	400 × 1,050 × 500	400 × 1,050 × 500	450 × 1,550 × 700	450 × 1,550 × 700	550 × 1,587 × 700
Weight		kg	40	43	46	46	83	85	105
Connection pipe diameter	Liquid	mm	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	9.52(Flare)	9.52(Flare)	9.52 (Brazing)
	Gas		15.88 (Flare)	19.05 (Flare)	19.05 (Flare)	19.05 (Flare)	19.05(Flare)	19.05(Flare)	22.22 (Brazing)
Drain hose diameter (I.D./O.D.)			25 / 32						

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

* ARXC60 / 072 / 090 / 096G cannot be connected to J-III series.

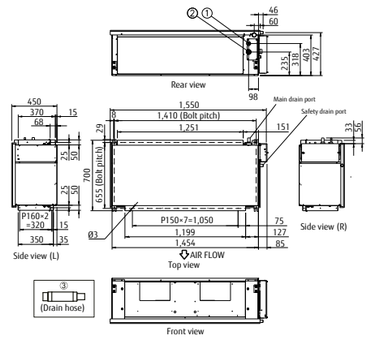
Dimensions (Unit: mm)

Models: ARXC036 / ARXC36 / ARXC45 / ARXC60



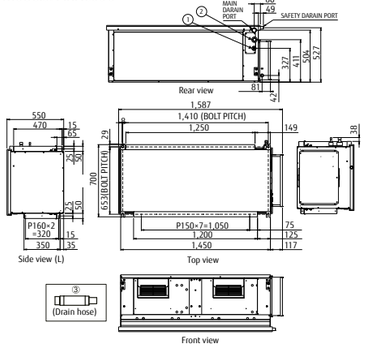
① Refrigerant piping flare connection (liquid)
② Refrigerant piping flare connection (gas)
③ Drain piping connection

Models: ARXC072 / ARXC090



① Refrigerant pipe flare connection (liquid)
② Refrigerant pipe flare connection (gas)
③ Drain hose

Models: ARXC096



① Refrigerant pipe flare connection (liquid)
② Refrigerant pipe flare connection (gas)
③ Drain hose

Compact floor

Models (EEV internal)
AGYA007GCEH / AGYA009GCEH
AGYA012GCEH / AGYA014GCEH

Models (EEV external)
AGYE007GCEH / AGYE009GCEH
AGYE012GCEH / AGYE014GCEH



DC FAN

Features

2 fans and wide airflow

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

Cooling



Heating



Flexible and easy installation

Due to compact and flexible methods for installation including floor, concealed, half concealed, or wall mounted, installation approach can be modified to match the room layout.

Beneath standard window

Standard concave portion

Wall



Half concealed
(Optional parts necessary)

Quiet operation

Quiet operation is realised by 6 fan speed control. (via 2 wired controllers)

Low noise
22 dB(A)
at 007 / 009 models

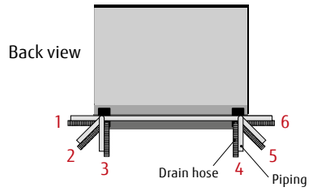
6-Step Speed



* Compatible remote controllers are as follows:
UTY-RNRYZ3 / UTY-RSRY / UTY-RHRY / UTY-DCGYZ1 / UTY-DTGYZ1 / UTY-ALGXZ1 / UTY-APGXZ1

Flexible piping connection

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



Optional parts

Half concealed kit: UTR-STA
External power supply unit: UTZ-GXXA



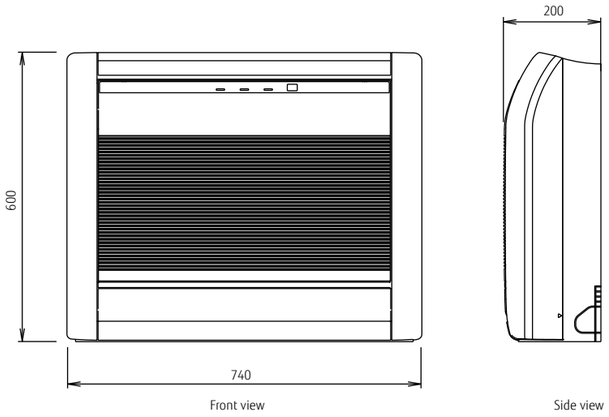
Specifications

Model name			AGYA007GCEH	AGYA009GCEH	AGYA012GCEH	AGYA014GCEH	AGYE007GCEH	AGYE009GCEH	AGYE012GCEH	AGYE014GCEH
Power source			Single - phase, ~230V, 50Hz							
Capacity	Cooling	kW	2.2	2.8	3.6	4.0	2.2	2.8	3.6	4.0
	Heating		2.8	3.2	4.0	4.5	2.8	3.2	4.0	4.5
Input power		W	16	17	22	29	16	17	22	29
Airflow rate	High	m3/h (l/s)	470(131)	500(139)	590(164)	670(186)	470(131)	500(139)	590(164)	670(186)
	Med-H		420(117)	450(125)	520(144)	590(164)	420(117)	450(125)	520(144)	590(164)
	Med		390(108)	400(111)	470(131)	520(144)	390(108)	400(111)	470(131)	520(144)
	Med-L		360(100)	360(100)	420(117)	450(125)	360(100)	360(100)	420(117)	450(125)
	Low		330(92)	330(92)	390(108)	390(108)	330(92)	330(92)	390(108)	390(108)
	Quiet		270(75)	270(75)	340(94)	340(94)	270(75)	270(75)	340(94)	340(94)
Sound pressure level	High	dB (A)	37	38	42	46	37	38	42	46
	Med-H		35	36	39	42	35	36	39	42
	Med		33	34	37	39	33	34	37	39
	Med-L		31	31	35	36	31	31	35	36
	Low		29	29	33	33	29	29	33	33
	Quiet		22	22	30	30	22	22	30	30
Dimensions (H × W × D)		mm	600×740×200	600×740×200	600×740×200	600×740×200	600×740×200	600×740×200	600×740×200	600×740×200
Weight		kg	15.0	15.0	15.0	15.0	14.5	14.5	14.5	14.5
Connection pipe diameter	Liquid (flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
	Gas (flare)		9.52	9.52	12.70	12.70	9.52	9.52	12.70	12.70
Drain hose diameter (I.D./O.D.)			13.8 / 15.8 to 16.7							
EV Kit (option)			–	–	–	–	UTR-EV09XB	UTR-EV09XB	UTR-EV14XB	UTR-EV14XB

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

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

Dimensions (Unit: mm)



Front view

Side view

Floor / Ceiling

Models
ABYA012GTEH / ABYA014GTEH
ABYA018GTEH / ABYA024GTEH



Floor standing



DC FAN

Features

Flexible installation

Example for floor installation

Floor console



Example for ceiling installation

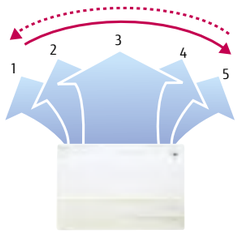
Under ceiling



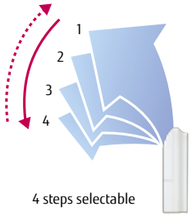
Double auto swing

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

Right and left swing



Up and down swing



4 steps selectable

High power DC fan motor

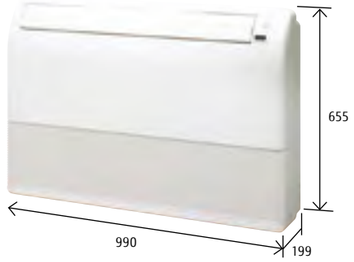
- High power
- Wide rotation range
- High efficiency



Compact design

Symmetrical, slim and compact design.

(Unit: mm)



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 of the room.

Optional parts

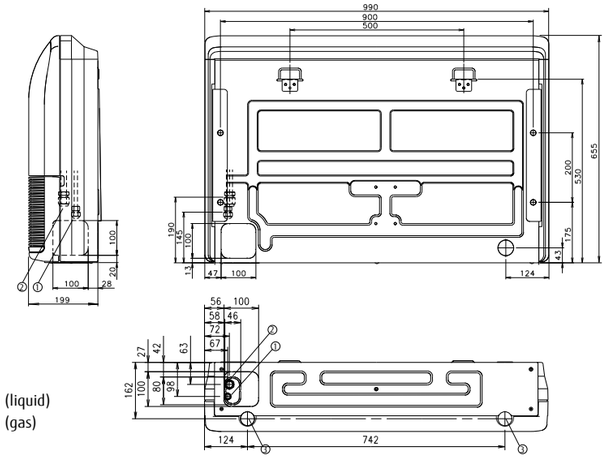
External power supply unit: UTZ-GXXA

Specifications

Model name			ABYA012GTEH	ABYA014GTEH	ABYA018GTEH	ABYA024GTEH
Power source			Single - phase, ~230V, 50Hz			
Capacity	Cooling	kW	3.6	4.5	5.6	7.1
	Heating		4.0	5.0	6.3	8.0
Input power		W	30	42	74	99
Airflow rate	High	m^3/h (l/s)	660 (183)	780 (216)	1,000 (277)	1,000 (277)
	Med-H		620 (172)	740 (206)	910 (253)	930 (258)
	Med		580 (161)	690 (192)	830 (231)	870 (242)
	Med-L		550 (153)	640 (178)	750 (208)	800 (222)
	Low		520 (144)	600 (167)	660 (183)	740 (206)
	Quiet		490 (136)	550 (153)	580 (161)	680 (188)
Sound pressure level	High	dB (A)	36	40	46	47
	Med-H		34	39	44	45
	Med		33	38	42	43
	Med-L		31	36	40	41
	Low		29	35	37	39
	Quiet		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 pipe diameter	Liquid (flare)	mm	6.35	6.35	6.35	9.52
	Gas (flare)		12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25 / 32			

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

Dimensions (Unit: mm)



① Refrigerant piping flare connection (liquid)
② Refrigerant piping flare connection (gas)
③ Drain piping connection

Ceiling

Models
ABYA030GTEH / ABYA036GTEH
ABYA045GTEH / ABYA054GTEH

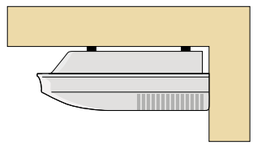


DC FAN

Features

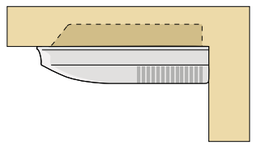
Installation

Open



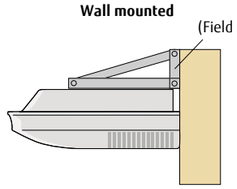
General installation pattern which suspends the indoor unit from the ceiling.

Concealed



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

Wall mounted

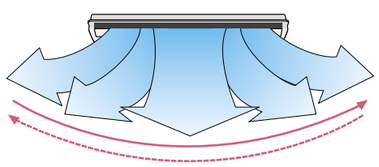


Installation which fixes the indoor unit to the wall by the use of wall brackets (field supplied). This type of installation can be used when the ceiling space is insufficient.

Double auto swing and wide airflow

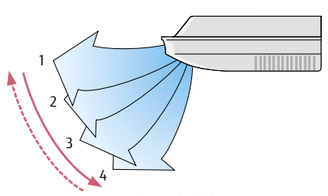
Auto airflow direction and auto swing

Right and left



5 steps selectable

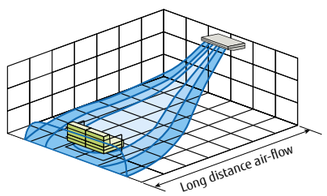
Up and down



4 steps selectable

Long airflow

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

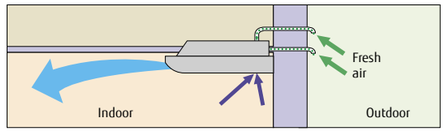


High-powered DC fan motor

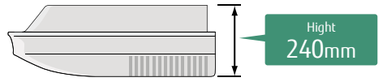
• High power • Wide rotation range • High efficiency



Fresh air intake

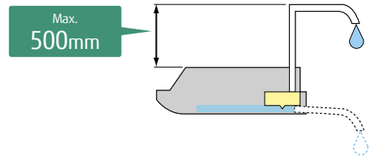


Slim and Compact design



High lift drain pump

Optional drain pump unit allows flexible installation design.



Optional parts

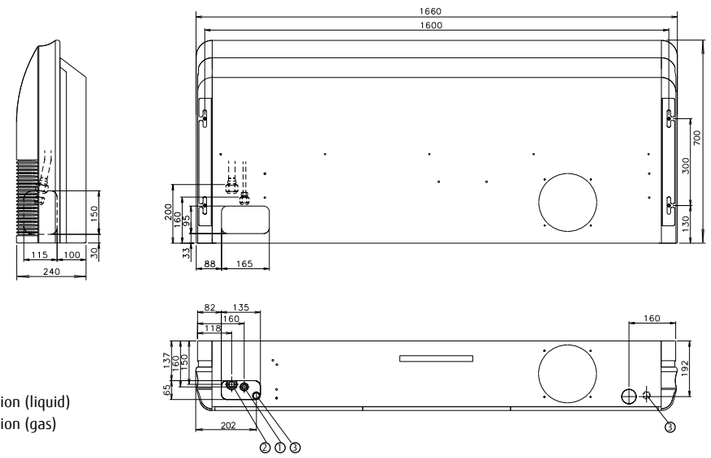
Drain Pump Unit: UTR-DPB24T
Flange: UTD-RF204
External Power Supply Unit: UTZ-GXXA

Specifications

Model name			ABYA030GTEH	ABYA036GTEH	ABYA045GTEH	ABYA054GTEH
Power source			Single - phase, ~230V, 50Hz			
Capacity	Cooling	kW	9.0	11.2	12.5	14.0
	Heating		10.0	12.5	14.0	16.0
Input power		W	66	85	131	180
Airflow rate	High	m³/h (l/s)	1,630 (452)	1,690 (469)	2,010 (558)	2,270 (629)
	Med-H		1,520 (422)	1,560 (433)	1,840 (511)	2,070 (575)
	Med		1,420 (394)	1,450 (403)	1,690 (469)	1,860 (517)
	Med-L		1,320 (367)	1,360 (378)	1,530 (425)	1,660 (461)
	Low		1,220 (339)	1,270 (353)	1,380 (383)	1,470 (408)
	Quiet		1,140 (316)	1,170 (325)	1,230 (342)	1,280 (355)
Sound pressure level	High	dB (A)	42	45	48	51
	Med-H		40	41	46	49
	Med		39	39	45	46
	Med-L		37	38	41	43
	Low		35	36	38	40
	Quiet		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 pipe diameter	Liquid (flare)	mm	9.52	9.52	9.52	9.52
	Gas (flare)		15.88	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32			

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

Dimensions (Unit: mm)



① Refrigerant piping flare connection (liquid)
② Refrigerant piping flare connection (gas)
③ Drain piping connection

Wall Mounted

Models (EEV internal)
ASYA007GTEH / ASYA009GTEH

Models (EEV external)
ASYE007GTEH / ASYE009GTEH

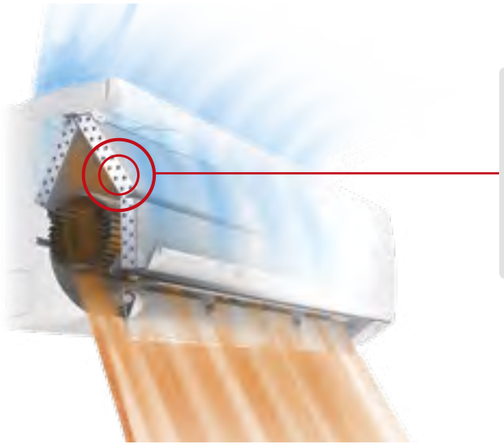


DC FAN

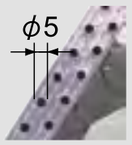
Feature

Highly efficient compact design

5mm high density heat exchanger is mounted for the first time in the industry.



High density heat exchanger



Making the tube thin:
7mm → 5mm
Increase of heat exchanger volume through high density and adopting a sub heat exchanger

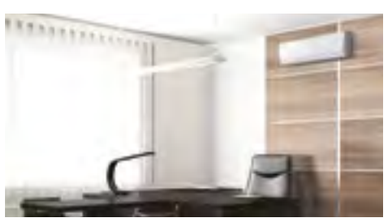
6 fan speed control

Multistep airflow control is possible to suit the environment.

Fan speed: Quiet
Low noise: 22 dB(A)

6-Step Speed

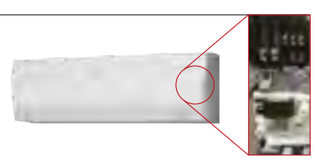
High
Med-H
Med
Med-L
Low
Quiet



* Compatible remote controllers are as follows:
UTY-RNRYZ3 / UTY-RSRY / UTY-RHRY / UTY-DCGYZ1 / UTY-DTGYZ1 / UTY-ALGXZ1 / UTY-APGXZ1

Easy installation

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



Optimised design

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

Optional parts

External power supply unit: UTZ-GXXA



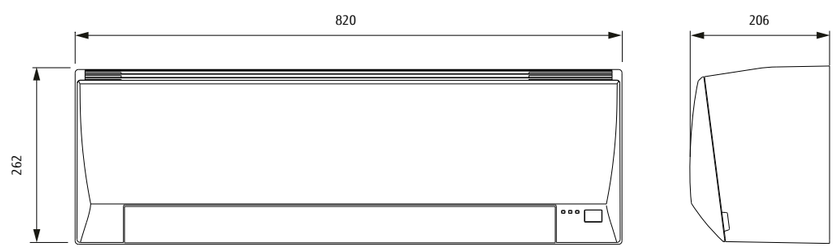
Specifications

Model name			ASYA007GTEH	ASYA009GTEH	ASYE007GTEH	ASYE009GTEH
Power source			Single - phase, ~230V, 50Hz			
Capacity	Cooling	kW	2.2	2.8	2.2	2.8
	Heating		2.8	3.2	2.8	3.2
Input power		W	19	34	19	34
Airflow rate	High	m3/h (l/s)	550(153)	720(200)	550(153)	720(200)
	Med-H		460(128)	570(158)	460(128)	570(158)
	Med		420(117)	500(139)	420(117)	500(139)
	Med-L		390(108)	410(114)	390(108)	410(114)
	Low		360(100)	360(100)	360(100)	360(100)
	Quiet		330(92)	330(92)	330(92)	330(92)
Sound pressure level	High	dB (A)	35	43	35	43
	Med-H		32	38	32	38
	Med		30	34	30	34
	Med-L		27	29	27	29
	Low		24	24	24	24
	Quiet		22	22	22	22
Dimensions (H × W × D)		mm	262×820×206	262×820×206	262×820×206	262×820×206
Weight		kg	7.5	7.5	7.0	7.0
Connection pipe diameter	Liquid (flare)	mm	6.35	6.35	6.35	6.35
	Gas (flare)		9.52	9.52	9.52	9.52
Drain hose diameter (I.D./O.D.)			13.8 / 15.8 to 16.7			
EV Kit (option)			–	–	UTR-EV09XB	UTR-EV09XB

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

When ASY*007GTEH and ASY*009GTEH are connected to an outdoor unit other than the J-IIIL range, gas pipe diameter will require an expander to alter the pipe size from 9.52mm to 12.70mm.

Dimensions (Unit: mm)



Wall Mounted

Models (EEV internal)
ASYA012GCEH / ASYA014GCEH

Models (EEV external)
ASYE012GCEH / ASYE014GCEH



DC FAN

Feature

Highly efficient and compact design

Highly efficient compact design is realised by mounting a high density and large heat exchanger.
The compact body makes it possible to install discreetly even in a meeting room or office where comfortable air conditioning is provided.



High density heat exchanger



Making the tube thin: 7mm → 5mm
Increase of heat exchanger volume due to high density and adopting sub heat exchanger



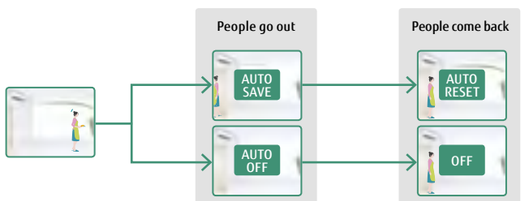
Even temperature
↓
Improved heat exchanger effectiveness

Human sensor increases energy saving operation

Energy saving operation starts automatically by detecting the motion of a person in the space. There are 2 modes available, an energy saving mode or an aut-off mode.



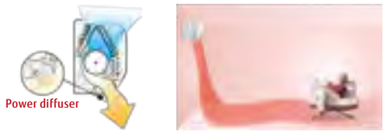
Human sensor



More comfortable 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.



6 fan speed control

Multistep airflow control is possible to suit the environment.

Fan speed
Quiet

Low noise
24 dB(A)

6-Step Speed

High
Med-H
Med
Med-L
Low
Quiet



* Compatible remote controllers are as follows:
UTY-RNRYZ3 / UTY-RSRY / UTY-RHRY / UTY-DCGYZ1 / UTY-DTGYZ1 / UTY-ALGXZ1 / UTY-APGXZ1

Optional parts

External power supply unit: UTZ-GXXA

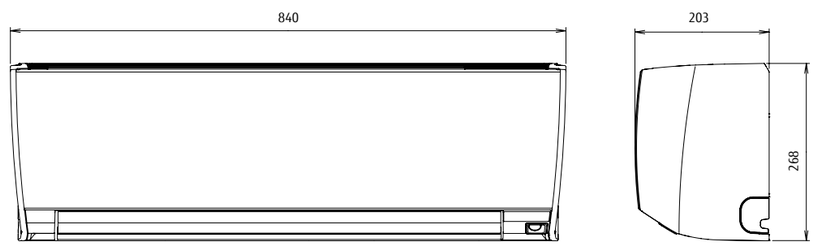


Specifications

Model name			ASYA012GCEH	ASYA014GCEH	ASYE012GCEH	ASYE014GCEH
Power source			Single - phase, ~230V, 50Hz			
Capacity	Cooling	kW	3.6	4.0	3.6	4.0
	Heating		4.0	4.5	4.0	4.5
Input power		W	25	36	25	36
Airflow rate	High	m3/h (l/s)	690(192)	800(222)	690(192)	800(222)
	Med-H		610(169)	740(206)	610(169)	740(206)
	Med		560(156)	680(189)	560(156)	680(189)
	Med-L		530(147)	610(169)	530(147)	610(169)
	Low		470(131)	550(153)	470(131)	550(153)
	Quiet		330(92)	330(92)	330(92)	330(92)
Sound pressure level	High	dB (A)	40	44	40	44
	Med-H		37	42	37	42
	Med		35	40	35	40
	Med-L		33	37	33	37
	Low		30	34	30	34
	Quiet		24	24	24	24
Dimensions (H × W × D)		mm	268 × 840 × 203	268 × 840 × 203	268 × 840 × 203	268 × 840 × 203
Weight		kg	8.5	8.5	8.5	8.5
Connection pipe diameter	Liquid (flare)	mm	6.35	6.35	6.35	6.35
	Gas (flare)		12.70	12.70	12.70	12.70
Drain hose diameter (I.D./O.D.)			13.8 / 15.8 to 16.7			
EV Kit (option)			–	–	UTR-EV14XB	UTR-EV14XB

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

Dimensions (Unit: mm)



Wall Mounted

Models
ASYA18GBCH / ASYA24GBCH

Models
ASYA030GTEH / ASYA034GTEH



ASYA18 ASYA24



ASYA030 ASYA034

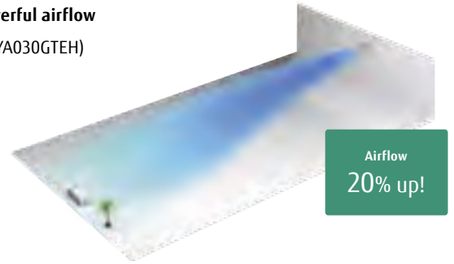
DC FAN

Feature

Powerful and comfortable airflow

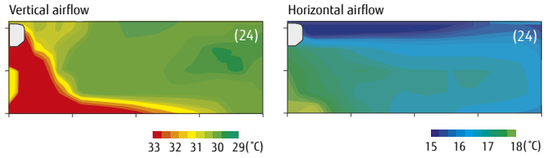
Powerful airflow

(ASYA030GTEH)



Power diffuser

(ASYA18 / 24GBCH)



Human sensor (ASYA030 / 034GTEH only)

A human sensor senses the movement of people to reduce operation when no one is in the room. The wasteful consumption of energy is reduced automatically to assist in energy usage reduction.
(Available to wired remote controller as UTY-RNRYZ3)

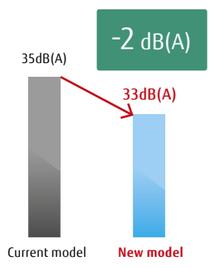


Human sensor

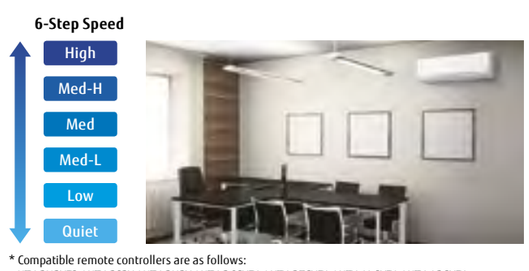


Quiet operation and 6 fan speed control

Noise level is drastically reduced through the new airflow structure. Additionally, multistep quiet operation is available by 6 step sound level settings.



(030 / 034class)



* Compatible remote controllers are as follows:
UTY-RNRYZ3 / UTY-RSRY / UTY-RHRY / UTY-DCGYZ1 / UTY-DTGYZ1 / UTY-ALGXZ1 / UTY-APGXZ1

Optional parts

External power supply unit: UTZ-GXXA (For ASYA***GTEH)



Specifications

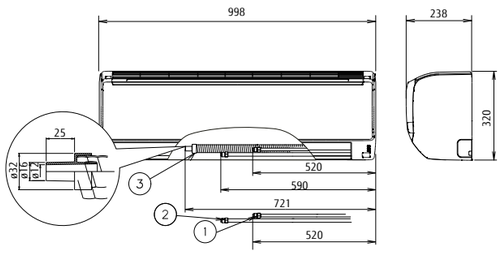
Model name			ASYA18GBCH	ASYA24GBCH	ASYA030GTEH	ASYA034GTEH
Power source			Single - phase, ~230V, 50Hz			
Capacity	Cooling	kW	5.6	7.1	9.0	10.0
	Heating		6.3	8.0	10.0	11.2
Input power		W	32	60	74	103
Airflow rate	High	m³/h (l/s)	840(233)	1,100(306)	1,440(400)	1,620(450) / 1,520(422)
	Med-H		-	-	1,200(333)	1,300(361)
	Med		770(214)	910(253)	1,050(292)	1,120(311)
	Med-L		-	-	940(261)	980(272)
	Low		690(192)	730(203)	890(247)	890(247)
	Quiet		-	-	700(194)	700(194)
Sound pressure level	High	dB (A)	41	48	53	55 / 54
	Med-H		-	-	49	51
	Med		39	43	45	47
	Med-L		-	-	42	43
	Low		35	35	39	39
	Quiet		-	-	33	33
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 pipe diameter	Liquid (flare)	mm	6.35	9.52	9.52	9.52
	Gas (flare)		12.70	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			12 / 16		13.8 / 15.8 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: 7.5m; height difference between outdoor unit and indoor unit: 0m. Voltage: 230V.

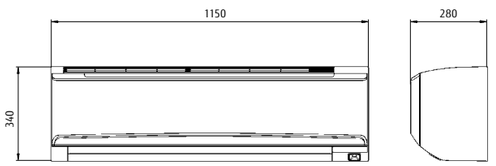
When ASYA18GBCH is connected to the outdoor unit other than J-IIIL, pipe diameter should be Ø9.52 / Ø15.88 (Liq / Gas).

Dimensions (Unit: mm)

Models: ASYA18 / ASYA24



Models: ASYA030 / ASYA034



① Refrigerant piping flare connection (liquid)
② Refrigerant piping flare connection (gas)
③ Drain piping connection

VENTILATION

EFFECTIVE HEAT EXCHANGE AND SIMULTANEOUS FRESH AIR VENTILATION



High efficiency and low noise levels are achieved by using a highly efficient heat exchange process. A comfortable air conditioned space is achieved by conveniently selecting whether to use the heat exchange or normal ventilation setting according to the requirements of the space.

VENTILATION

Energy Recovery Ventilator

Outdoor Air Unit

Energy Recovery Ventilator Range

Airflow rate (m³/h (l/s))	250 (69)	350 (97)	500 (139)	800 (222)	1,000 (278)
Model code	025	035	050	080	100
Energy Recovery Ventilator	 UTZ-BD025C	 UTZ-BD035C	 UTZ-BD050C	 UTZ-BD080C	 UTZ-BD100C

Outdoor Air Unit Range

Airflow rate (m³/h (l/s))	1,080 (300)	1,680 (467)	2,100 (583)
Model code	054	072	096
Outdoor Air Unit	 ARXH054GTAH	 ARXH072GTAH	 ARXH096GTAH

AIRSTAGE™

Energy Recovery Ventilator

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


UTZ-BD025C


UTZ-BD035C


UTZ-BD050C


Controller


UTZ-BD080C


UTZ-BD100C

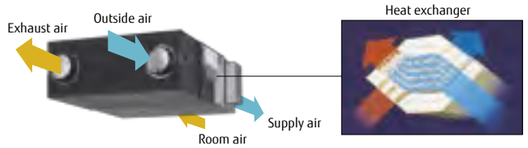
Features

Heat exchange ventilation and normal ventilation

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

Normal ventilation
This operation is used during periods when the room space requires no cooling or heating effect, i.e. when there is minimal temperature difference between the indoor and outdoor environments.

Adopts a highly efficient counterflow heat exchange element



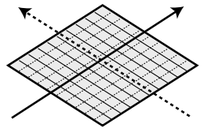
Energy efficiency and ecology

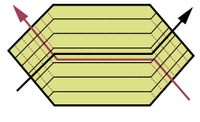
Energy consumption is dramatically reduced by using a counterflow heat exchange element. The air conditioning load is reduced by approximately 20% and approximately 77% of the heat in the outgoing air is recovered, resulting in significant energy savings.

Energy saving
20%

Features of heat exchange element

With the crossflow element, air moves in a straight line across the element. With the counterflow element, air flows through the element for a longer time (longer distance), so the heat exchange effect is improved.


Other element
(crossflow element)


Fujitsu element
(counterflow element)

Quiet operation

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

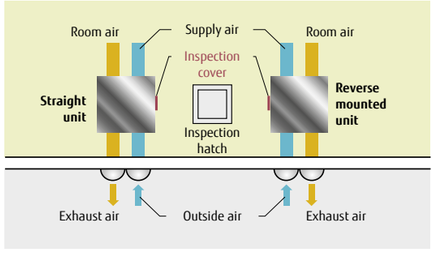
Reverse mountable direct air supply / exhaust system

Adoption of straight air supply / exhaust system:

The duct design is simplified because the air supply / exhaust ducts are straight.

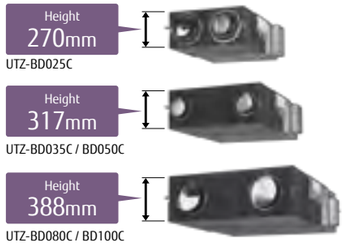
Since each unit can be mounted in reverse position, only one inspection hole is needed for two units:

Two units can share one inspection hole so duct work is easier and more flexible.



Slim shape and easier installation

A counterflow heat exchange element is used for reduced noise and a slimmer, more compact body shape.



Improved static pressure

Static pressure is improved by adopting a powerful fan motor allowing these units to be used in a wide variety of building types.

Easy remote operation



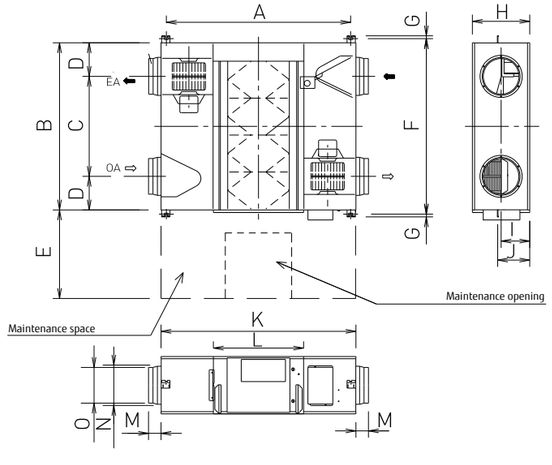
- Power : ON / OFF
- Air volume : High / Low
- Heat exchange /Normal Ventilation
- ON / OFF Timer
- Clean filter display

Specifications

Rated flow rate				**250 m³/h (69 l/s)**	**350 m³/h (97l/s)**	**500 m³/h (139 l/s)**	**800 m³/h (222 l/s)**	**1,000 m³/h (278 l/s)**
Model name				**UTZ-BD025C**	**UTZ-BD035C**	**UTZ-BD050C**	**UTZ-BD080C**	**UTZ-BD100C**
Power source				220 - 240V, 50Hz				
HEAT EXCHANGE VENTILATION	Input power	Extra high / High / Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311
	Airflow rate	Extra high / High / Low	m³/h (l/s)	250 / 250 / 190 (69 / 69 / 53)	350 / 350 / 240 (97 / 97 / 67)	500 / 500 / 440 (139 / 139 / 122)	800 / 800 / 630 (222 / 222 / 175)	1,000 / 1,000 / 700 (278 / 278 / 194)
	External static pressure	Extra high / High / Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75
	Temperature exchange efficiency	Extra high / High / Low	%	75 / 75 / 77	75 / 75 / 78	75 / 75 / 76	75 / 75 / 76	75 / 75 / 79
	Energy exchange efficiency cooling	Extra high / High / Low	%	63 / 63 / 65	66 / 66 / 71	62 / 62 / 64	65 / 65 / 68	65 / 65 / 70
	Energy exchange efficiency heating	Extra high / High / Low	%	70 / 70 / 72	69 / 69 / 73	67 / 67 / 69	71 / 71 / 74	71 / 71 / 76
	Sound pressure level	Extra high / High / Low	dB*	31.5 / 30.5 / 26.5	33.0 / 31.0 / 25.5	37.5 / 35.5 / 32.5	37.5 / 37.0 / 34.5	38.5 / 37.5 / 34.5
NORMAL VENTILATION	Input power	Extra high / High / Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311
	Airflow rate	Extra high / High / Low	m³/h (l/s)	250 / 250 / 190 (69 / 69 / 53)	350 / 350 / 240 (97 / 97 / 67)	500 / 500 / 440 (139 / 139 / 122)	800 / 800 / 630 (222 / 222 / 175)	1,000 / 1,000 / 700 (278 / 278 / 194)
	External static pressure	Extra high / High / Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75
	Sound pressure level	Extra high / High / Low	dB*	31.5 / 30.5 / 26.5	33.0 / 31.0 / 25.5	38.5 / 38.0 / 32.5	37.5 / 37.0 / 34.5	40.5 / 39.5 / 36.5
Dimensions (W × D × H)			mm	882 × 599 × 270	1,050 × 804 × 317	1,090 × 904 × 317	1,322 × 884 × 388	1,322 × 1,134 × 388
Weight			kg	29	49	57	71	83
Outlet duct diameter			mm	150	150	200	250	250
Operation range			℃	-10 to 40	-10 to 40	-10 to 40	-10 to 40	-10 to 40
Maximum humidity			%	85	85	85	85	85

* The noise level must be measured 1.5m below the centre of the unit.

Dimensions (Unit: mm)



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

Outdoor Air Unit

Models
ARXH054GTAH
ARXH072GTAH
ARXH096GTAH


ARXH054


ARXH072


ARXH096

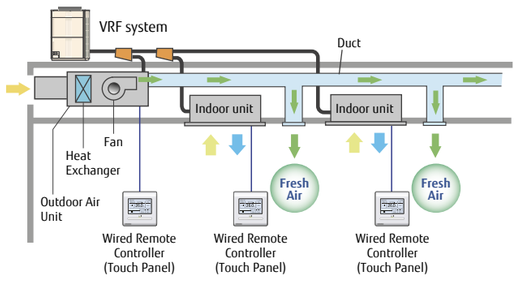
Features

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

An outdoor air unit can be connected in the same VRF*1 system as the indoor units and can create fresh and comfortable air supply together using our highly advanced technology.

*1. Connectable VRF series: J-IIS, J-III, J-IIIL, V-III and VR-II
OAU cannot be used where the ambient temperature is 40°C or higher.





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

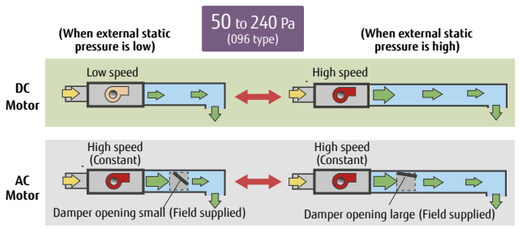
High energy savings and flexible duct design by using a DC motor

- Greatly reduces electricity consumption by adopting a permanent magnet compared to when using an AC motor


054 / 072 type


096 type

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



Compact design

- A lightweight compact design at just 425 mm in height and 55 kg in weight for ARXH072 type. This unit can be installed easily even within a narrow space.

55 kg
(072 type)



(ARXH072 type)

Various controllers

A variety of optional controllers are available, such as individual controllers, central controllers and building management controllers.

Individual controllers


Wireless Remote Controller


Simple Remote Controller


Wired Remote Controller (Touch Panel)

Central controllers


Central Remote Controller


Touch Panel Controller


System Controller
System Controller Lite (Software)

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

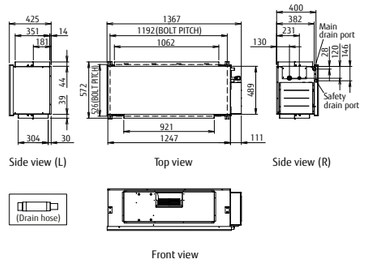
Specifications

Rated flow rate			**1,000 m³/h (278 l/s)**	**1,500 m³/h (417 l/s)**	**2,000 m³/h (556 l/s)**
Model name			**ARXH054GTAH**	**ARXH072GTAH**	**ARXH096GTAH**
Power source		V/Ø/Hz	230 / 1 / 50		
Capacity	Cooling	kW	14.0	22.4	28.0
	Heating		8.9	13.9	17.4
Input power	Cooling	W	179	292	370
	Heating		179	292	370
Airflow rate		m³/h (l/s)	1,080 (300)	1,680 (467)	2,100 (583)
Static pressure	Standard (range)	Pa	185 (50-185)	200 (50-200)	200 (50-240)
Sound pressure level		dB(A)	42	44	47
Dimensions (H × W × D)		mm	425 × 1,367 × 572	425 × 1,367 × 572	450 × 1,583 × 700
Weight		kg	48	55	71
Connection pipe diameter	Small	mm	9.52 (Flare)	12.70 (Brazing)	12.70 (Brazing)
	Large		19.05 (Flare)	22.22 (Brazing)	22.22 (Brazing)
Operation range	Cooling	°CDB	5 to 43	5 to 43	5 to 43
	Heating		-7 to 21	-7 to 21	-7 to 21
Refrigerant			R410A	R410A	R410A

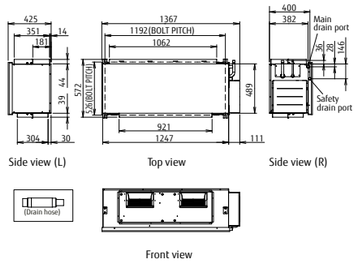
Note: Specifications are based on the following conditions.
Cooling: Outdoor temperature of 33°CDB / 28°CWB.
Heating: Outdoor temperature of 0°CDB / -2.9°CWB.
Pipe length: 7.5m Voltage: 230 V.

Dimensions (Unit: mm)

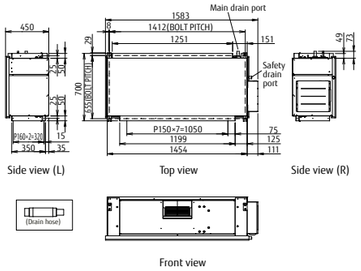
Model: ARXH054



Model: ARXH072



Model: ARXH096



AIRSTAGE™ CONTROL SYSTEMS



User friendly control system provides individual and centralised control



The AIRSTAGE™ control system can control air conditioning of individual rooms, centralise control by floor or by building, or centralise energy saving air conditioning control for large buildings.
A variety of air conditioning management options are available to match the requirements of the application, including integrating with the building control system, connecting with single split models and various interfaces.

OPTIMISED CONTROL SOLUTIONS

CONTROL SYSTEM OVERVIEW

COMPARISON TABLE OF CONTROLLERS

INDIVIDUAL CONTROLLER

CENTRALISED CONTROLLER

CONVERTOR / ADAPTOR

OPTIMISED CONTROL SOLUTIONS

Fujitsu General provides a diverse range of flexible control solutions to suit a variety of applications.

SHOP

Type	Individual control	Centralised control			Integrating control (interface)		
							
	Wired Remote Controller	**Central Remote Controller**	**Touch Panel Controller**	**System Controller**	**Network Convertor for LonWorks®**	**MODBUS® Convertor**	**KNX® Convertor**
	UTY-RNRYZ3	UTY-DCGYZ1	UTY-DTGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-VLGX	UTY-VMGX	UTY-VKGX
Automatic control of A/C (schedule timer, weekly timer etc.)	●	●	●	●			
Customise the level of control for staff and end users (RC prohibition, room temp set point limitation etc.)		●	●	●	●	●	●
Group control		●	●	●			
Advanced energy saving (peak cut, indoor unit rotation operation etc.)				●			
Remote management			●	●			
Manage multiple sites			●	●			
Monitor energy consumption				●			
Control third party products				●			
Integrate FGL A/C into BMS					●	●	●

HOTEL

Type	Individual control			Centralised control			Integrating control (interface)			
										
	Wired Remote Controller	**Simple Remote Controller**	**Wireless Remote Controller**	**Central Remote Controller**	**Touch Panel Controller**	**System Controller**	**BACnet® Gateway**	**Network Convertor for LonWorks®**	**MODBUS® Convertor**	**KNX® Convertor**
	UTY-RNRYZ3	UTY-RSRY, UTY-RHRY	UTY-LNHY	UTY-DCGYZ1	UTY-DTGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMGX	UTY-VKGX
Local control for hotel guest	●	●	●							
Centralised 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							●	●	●	●

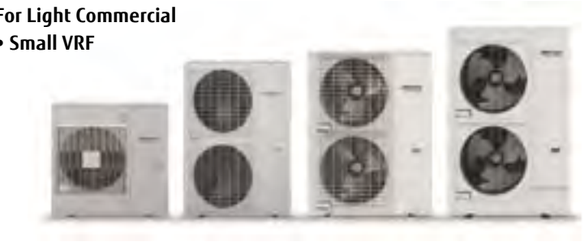
OFFICE

Type	Individual control			Centralised control			Integrating control (interface)			
										
	Wired Remote Controller	**Simple Remote Controller**	**Wireless Remote Controller**	**Central Remote Controller**	**Touch Panel Controller**	**System Controller**	**BACnet® Gateway**	**Network Convertor for LonWorks®**	**MODBUS® Convertor**	**KNX® Convertor**
	UTY-RNRYZ3	UTY-RSRY, UTY-RHRY	UTY-LNHY	UTY-DCGYZ1	UTY-DTGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMGX	UTY-VKGX
Local control for office staff	●	●	●	●						
Automatic control of A/C (schedule timer, weekly timer etc.)	●		●	●	●	●	●			
Centralised A/C control for management				●	●	●	●	●	●	●
Customise the level of 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							●	●	●	●

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



Air Conditioning
Individual Control



Wired Remote Controller
(touch panel)
UTY-RNRYZ3



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



Wireless Remote Controller
UTY-LNHY



IR Receiver Unit
UTY-TRHX For Duct type
UTB-TWC For Duct type



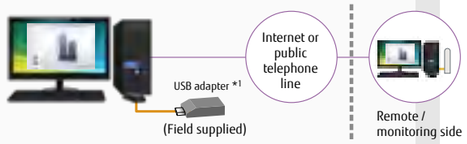
For Cassette



For Circular Flow Cassette

IR Receiver Unit
UTY-LRHYB1 For Cassette type
UTY-LBHXD For Circular Flow Cassette

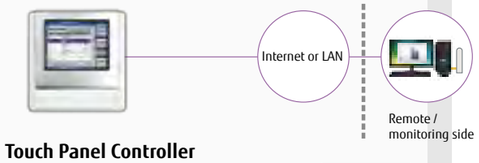
Air Conditioning
Centralised Control



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

Max. controllable 1600* indoor units

* Lite edition is max. controllable 400 indoor units



Touch Panel Controller
UTY-DTGYZ1

Max. controllable 400 indoor units



Central Remote Controller
UTY-DCGYZ1 NEW

Max. controllable 100 indoor units

Convertor / Adaptor
For external devices

BACnet® Gateway
UTY-ABGXZ1 Software



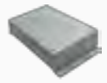
BACnet® Gateway
UTY-VBGX Hardware



Network Convertor
(BMS / LonWorks®)
UTY-VLGX



MODBUS® Convertor For VRF
UTY-VMGX



MODBUS® Convertor for indoor unit
UTY-VMSX

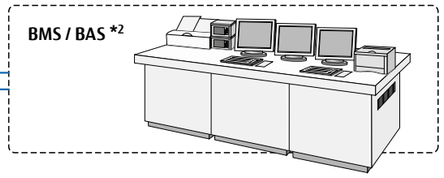


KNX® Convertor For VRF
UTY-VKGX



KNX® Convertor for indoor unit
UTY-VKSX





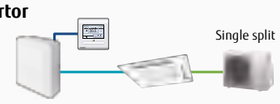


*1. USB Adaptor: Echelon® U10 USB Network Interface
*2. BMS / BAS: Building Management System / Building Automation System



Convertor / Adaptor
For system expansion

Network Convertor
(DC power supply)
UTY-VTGX



Signal Amplifier
UTY-VSGXZ1



COMPARISON TABLE OF CONTROLLERS

Type			 Wired Remote Controller (touch panel)	 Simple Remote Controller	 Simple Remote Controller*1	 Wireless Remote Controller	 Central Remote Controller	 Touch Panel Controller	 System Controller Lite (Software)	 System Controller (Software)
Model name			UTY-RNRYZ3	UTY-RSRY	UTY-RHRY	UTY-LNHY	UTY-DCGYZ1	UTY-DTGYZ1	UTY-ALGXZ1	UTY-APGXZ1
Max. controllable remote controller groups			1	1	1	1	100	400	400	1600
Max. controllable indoor units			16	16	16	16	100	400	400	1600
Max. controllable groups			–	–	–	–	50	400	400	1600
Air conditioning control function	On / Off		●	●	●	●	●	●	●	●
	Operation mode setting		●	●	–	●	●	●	●	●
	Fan speed setting		●	●	●	●	●	●	●	●
	Room temp. setting		●	●	●	●	●	●	●	●
	Room temp. set point limitation		●	●	●	–	●	●	●	●
	Test operation		●	●	●	●	–	●	–	–
	Up / down air direction flap setting		●	●	●	●	●	●	●	●
	Right / left air direction flap setting		●	–	–	●	●	●	●	●
	Individual louvre control		●	–	–	–	●*3	●	–	–
	Group setting		–	–	–	–	●	●	●	●
	RC prohibition		–	–	–	–	●	●	●	●
	Anti freeze setting		●	–	–	–	●	●	●	●
	Set temp. auto return		●	–	–	–	–	●	–	–
	Economy mode setting		●	–	–	●	●	●	●	●
	Human sensor control		●	–	–	–	–	●	●	●
Display	Error		●	●	●	–	●	●	●	●
	Defrosting		●	●	●	–	●	●	●	●
	Current time		●	–	–	●	●	●	●	●
	Day of week		●	–	–	–	●	●	●	●
	R.C. prohibition		●	●	●	–	●	●	●	●
	Address display		●	●	●	–	–	●	●	●
	Room temp		●	●	●	–	●*4	●*4	●*4	●*4
	Multi language		●	–	–	–	●	●	●	●
	Summer time		●	–	–	–	●	●	●	●
	Name registration		●	–	–	–	●	●	●	●
	Backlight		●	●	●	–	●	●	–	–
	2D floor layout / 3D building display		–	–	–	–	–	–	–	●
Timer	Schedule timer	Period	Week	–	–	–	Week	Year	Year	Year
		On / Off, temp, mode, times per day	8	–	–	–	20	20	144	144
	On / Off timer		●	–	–	●	–	–	–	–
	Sleep timer		–	–	–	●	–	–	–	–
	Program timer		–	–	–	●	–	–	–	–
	Auto off timer		●	–	–	–	●	●	–	–
	Day off		●	–	–	–	●	●	●	●
	Min. unit of timer setting (minutes)		10・30	–	–	5	10	10	10	10
Control	Status monitoring system		–	–	–	–	●	●	●	●
	Electricity charge apportionment		–	–	–	–	–	○	○	●
	Error history		●	–	–	–	●	●	●	●
	Emergency stop		–	–	–	–	●*2	●*2	–	–
	Remote management		–	–	–	–	●	●	○	●
	Energy saving management		–	–	–	–	–	–	○	○
	E-mail notification for malfunction		–	–	–	–	●	●	●	●
	Key lock		● Child lock	–	–	–	● Password setting	● Password setting	● Password setting	● Password setting
	Low noise mode		–	–	–	–	–	●	●	●

*1 "Operation mode" setting is not available for this model. *2 This function is available only through external input control.
*3 Only individual airflow batch reset is mounted. *4 This function is available only when using wired remote controller.
●: Supported ○: Optional function –: Not supported yet

Wired Remote Controller (Touch Panel)

Max. controllable 16 indoor units

UTY-RNRYZ3

Easy operation with a high-definition large LCD touch panel screen

- Easy touch operation via the touchscreen LCD panel
- Built-in weekly / daily timer (ON / OFF, temp, mode)
- Backlight enables easy operation in a dark room
- Room temperature display
- Control up to 16 indoor units
- 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 utilised via the controller.

Individual control + Thermo sensor + Weekly timer + Auto off timer →



Accurate and comfortable control

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



Room temperature sensor

Room temperature display

Backlight

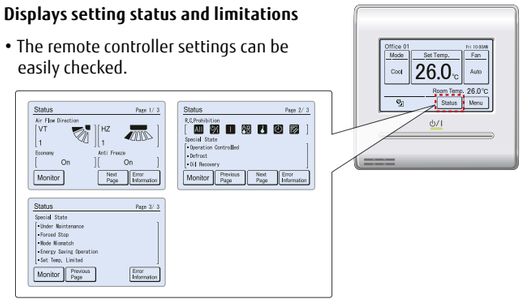
- Backlight enables easy operation in a darkened room.
- The backlight setting can be adjusted for 30 or 60 seconds.
- Backlight activates while the controller is in use and turns off 30 or 60 seconds after the operation stops.



Various convenient functions

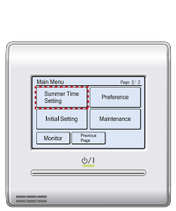
Displays setting status and limitations

- The remote controller settings can be easily checked.



Summer time display

- This function can be set easily from the Menu screen.



Child lock

- Lock / unlock method: push the ON / OFF button and the screen (4 seconds).



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.



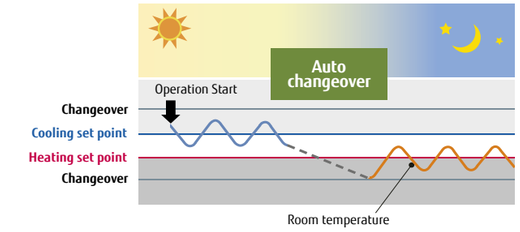
Various energy saving controls

Custom Auto

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

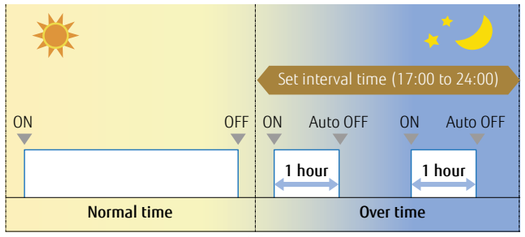
* This function is not available for some models.

Cooling set temp. 27℃, heating set temp. 26℃



Auto OFF timer

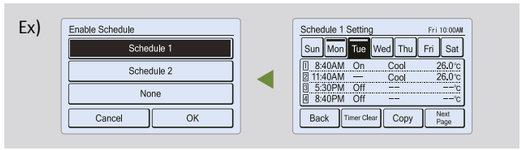
- The indoor unit is automatically turned off when it reaches the preset operating time frame
- The time frame of the "Auto off timer" allows flexibility for setting and scheduling
- Can be set to turn off in 30 to 240 minutes



Ex.) a particular 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, for example summer and winter can be set
- 8 settings are changeable per day of week (setting items: On / Off, temperature, mode, time)



Set temperature auto return

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

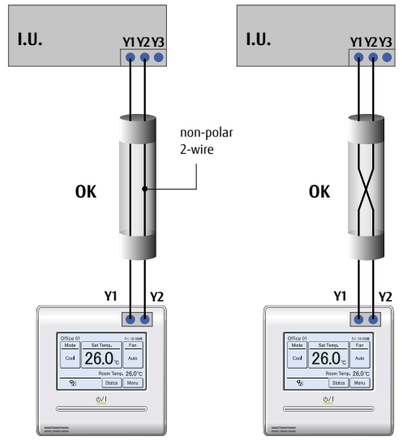
Set temperature upper and lower limit

- The set temperature range can be set for each operation mode (cooling / heating / auto)

Simplified installation

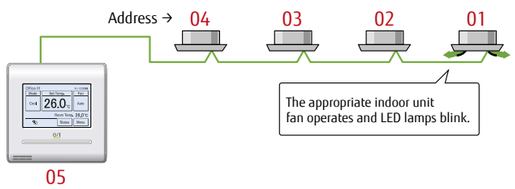
Uses non polar 2 wire type

- Incorrect 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 of using the rotary SW
- When using the touch panel controller to control a remote controller group, new functionality enables the controller to set the respective RC addresses
- After the addresses are assigned these can be confirmed from the indoor unit



Easy maintenance

Error history display

- Errors that occur in the indoor unit or or on the remote controller are saved in the error history
- A maximum of 32 error incidents can be saved



Specifications

Model name		UTY-RNRYZ3
Power supply		DC 12V
Dimensions (H x W x D)	mm	120 × 120 × 20.4
Weight	g	220

DC12V is supplied by indoor unit.

Simple Remote Controller

Max. controllable 16 indoor units

UTY-RSRY

UTY-RHRY (without operation mode)

Compact remote controller provides access to basic functions

- Up to 16 indoor units can be controlled with one remote controller
- Suitable for hotels or offices as it is easily operated with no complex functions
- Simple and stylish design to match stylish interiors
- Large LCD screen and simple operation buttons
- Backlight: white coloured backlight on monitor enables easy operation in dark environments
- 2-wire type



UTY-RSRY



UTY-RHRY
without operation mode

Functions

Corresponding with various applications

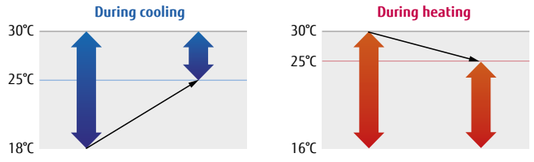
- **Vertical louvre control:**

  Vertical airflow direction can be adjusted for Mini Duct & Slim Duct types, and cassette types, using the auto louvre option. This suits indoor units installed in applications such as hotels and conference rooms.



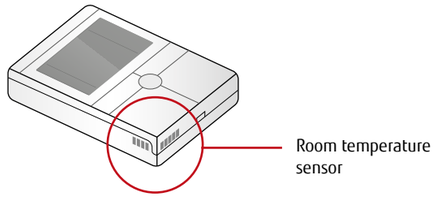
- **Room temperature set point limitation:**

  The Simple Remote Controller can assist with management of energy usage 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 accordingly.



Specifications

Model name		UTY-RSRY	UTY-RHRY
Power supply		DC 12V	
Dimensions (H x W x D)	mm	120 × 75 × 19.4	
Weight	g	120	

DC12V is supplied by indoor unit.

Wireless Remote Controller

Max. controllable 16 indoor units

Selectable 4 daily timers

UTY-LNHY

Simple and sophisticated operations
with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.



Functions

Built-in daily timer

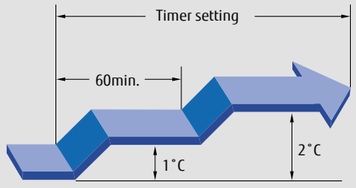
Select from 4 different timer programs : ON / OFF / program / sleep

Program timer: The program timer operates the ON and OFF timer once within a 24 hour period.

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

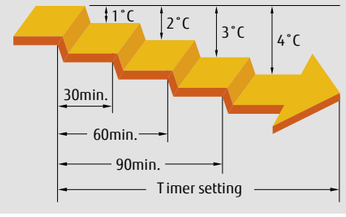
Cooling operation / dry operation

When the sleep timer is set, the set temperature automatically rises 1˚C every hour. The set temperature can rise up to a maximum of 2˚C.



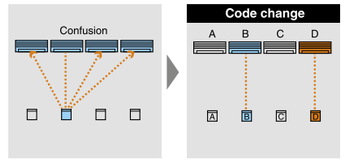
Heating operation

When the sleep timer is set, the set temperature automatically drops 1˚C every 30 minutes. The set temperature can drop to a max. of 4˚C.



Easy operation with multiple indoor units

The code selector switch prevents indoor units from unintended control. (Up to 4 codes can be set.)

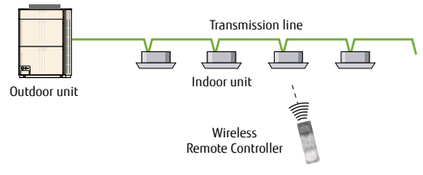


Wide and precise



Address setting

During installation work, address setting can be performed using the wireless remote controller, thus eliminating manual switch setting.



Specifications

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

IR Receiver Unit for Duct

UTB-TWC, UTY-TRHX



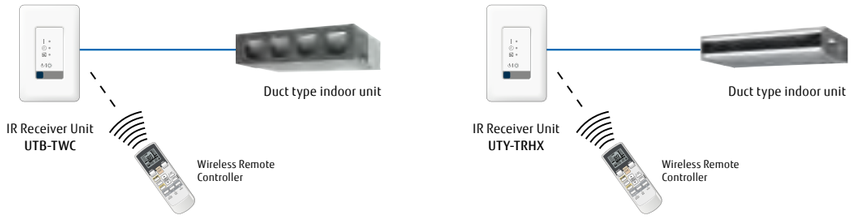
Option required to control ducted type units via a Wireless Remote Controller

- 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

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

Functions

Wiring connection

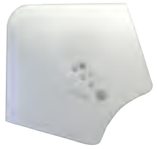


Specifications

Model name		UTB-TWC	UTY-TRHX
Power supply		DC 5V	
Dimensions (H x W x D)	mm	145 × 90 × 30	
Weight	g	150	

IR Receiver Unit for Cassette

UTY-LRHYB1
UTY-LBHXD



UTY-LRHYB1



UTY-LBHXD

Cassette type indoor unit can be controlled with the Wireless Remote Controller

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

Functions

Wiring connection



Specifications

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

Central Remote Controller

Max. controllable 100 indoor units

Max. controllable 50 groups

UTY-DCGYZ1



For small- and medium-sized buildings and tenants

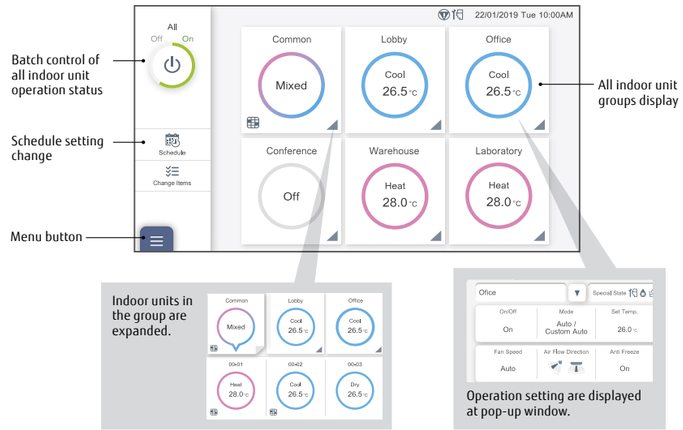
- Individual control and monitoring of up to 100 indoor units
- 7.0inch TFT colour screen
- High visibility and easy operation
- Supports 12 different languages
  (English, Spanish, German, French, Italian, Russian, Portuguese, Turkish, Polish, Greek, Dutch, Chinese)

Functions

Easy operation

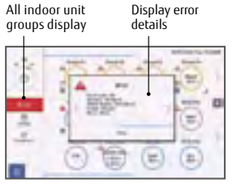
- Intuitive operation through the simple touch panel
- All functions can be accessed from the top screen and the operations are displayed in a pop-up window

Top display



Trouble support function

Display error details
Display descriptive explanation when an error occurs



Sensor value monitoring function
Monitor sensor data of indoor unit / outdoor unit

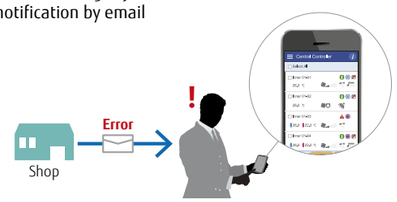
Notify room temperature by email*
Notify by email when the temperature around the air conditioner is too high or too low

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

Remote monitoring / Remote operation

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

Example
- Control / monitoring Fujitsu air conditioner
- Error notification by email



Specifications

Model name		UTY-DCGYZ1
Power supply		100-240 V 50 / 60 Hz
Dimensions (H x W x D)	mm	134.6 × 216.2 × 37.9
Weight	g	800

Touch Panel Controller

Max. controllable 400 indoor units | Max. controllable 100 outdoor units | Max. controllable 400 groups

UTY-DTGYZ1

- Large-sized 7.5-inch TFT colour
- LCD easy touch operation
- Stylish shape and design to suit all applications
- 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 and operation, external input / output with emergency stop and batch ON / OFF



Functions

Easy operation

- Wide range of simple-to-understand icons
- Operation can be selected using your finger or the dedicated touch pen by pressing the appropriate on-screen icon.
- Back colour identifies current control operation: blue for monitoring; green for operational control.



Easy maintenance

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

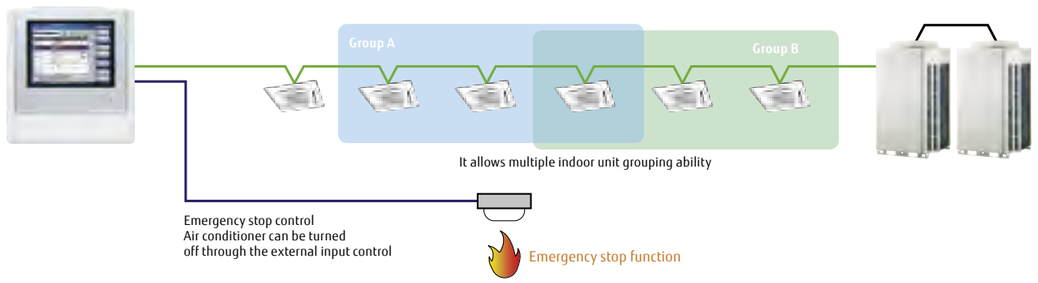


Easy installation

- The touch panel controller is easily mounted to the wall
- The flat back surface allows the controller to be installed wherever required
- No additional components are required for installation

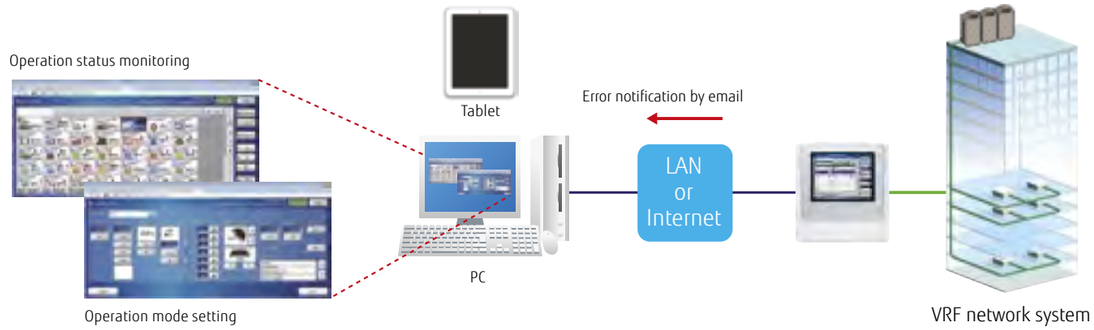


Up to 400 indoor units can be controlled



Control and monitoring

- Control and monitor Fujitsu air conditioners via LAN or Internet
- Allow the user or tenant to manage only assigned equipment by their PC or tablet from anywhere
- Error messages can be notified automatically by email upon an error occurrence to enable the issue to be handled promptly





Individual control | Flexible grouping | Schedule control | Indoor units operation monitoring

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

Smart phone

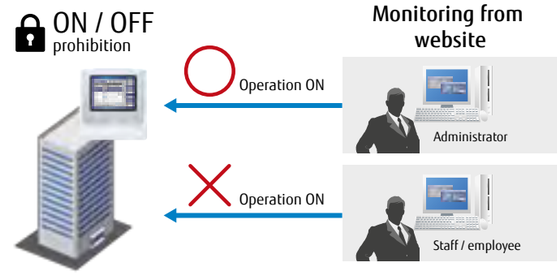
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iPhone 7 (iOS 10.1)	Safari 10

Tablet

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

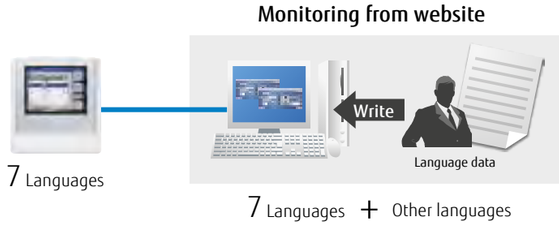
Flexible access permission with individual user levels

The administrator can register multiple users to permit which indoor unit(s) and which functions can be accessed.



Additional language functionality

Available in 7 different languages- English, Chinese, French, German, Spanish, Russian and Polish as standard.
Additional languages can be integrated on a remote device by creating a language database.
Additional languages are displayed only on the remote device.
The touch panel controller cannot be configured to display these additional languages.



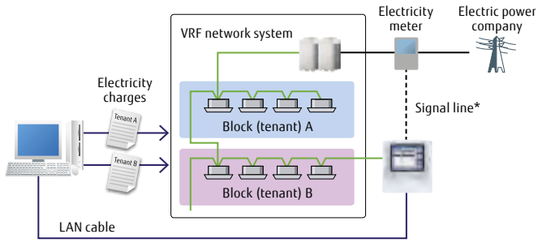
Functions

Electricity charge apportionment

Option UTY-PTGXA

- Electricity charge apportionment can be utilised to easily attribute power usage to each tenant based on their usage

- Apportionment charge / bill calculation
- Tenant (block) setting
- Common facilities apportionment setting
- Rated power consumption allotment setting
- Individual calculation for both cooling and heating
- Electricity meter supported



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

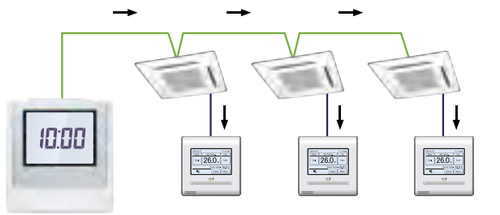
Automatic summer time setting

Function overview

1) This function enables a schedule to be set within the system to adjust the timer to summer time at the appropriate time to ensure the time matches the time zone.

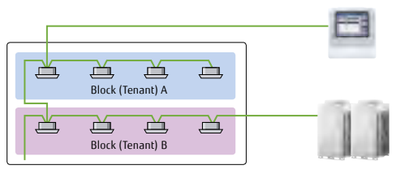
Automatic clock adjustment

2) The time setting of each controller can be set from the one location.

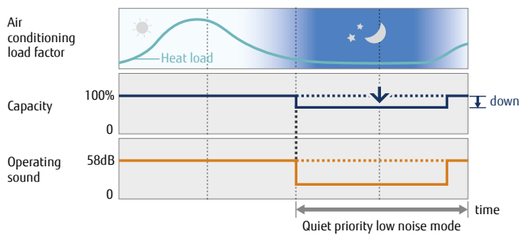


Outdoor low noise operation

Users can choose from 4 low noise levels, depending on the installation environment.
The operation time can be set using the timer.



Quiet priority setting



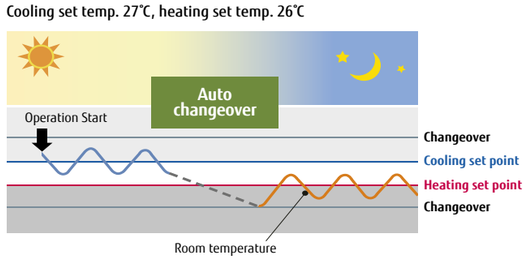
Energy saving control

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



FUNCTIONS SUMMARY

	UTY-DTGYZ1	Monitoring side
Air conditioning control function		
On / Off	●	●
Operation mode setting	●	●
Fan speed setting	●	●
Room temp. setting	●	●
Room temp. set point limitation	●	●
Test operation	●	●
Up / down air direction flap setting	●	●
Right / left air direction flap setting	●	●
Individual louvre control	●*1	●
Group setting	●	●
RC prohibition	●	●
Anti freeze setting	●	●
Set temp. auto return	–	●
Various energy saving controls	–	●
Economy mode setting	●	●
Human sensor control	–	●
Custom Auto setting	●	●
Display		
Error	●	●
Defrosting	●	●
Current time	●	●
Day of week	●	●
R.C. prohibition	●	●
Cooling / heating priority	●	●
Address display	●	●
Room temp	●*3	●*3
Multi language	●	●
Summer time	●	●
Time zone setting	●	●
Name registration	●	●
Backlight	●	●
Language setting	7	7+other

		UTY-DTGYZ1	Monitoring side
Timer			
Schedule timer	Period	Year	Year
	On / Off, temp, mode, times per day	20	20
On / Off timer		–	–
Sleep timer		–	–
Program timer		–	–
Auto off timer		–	●
Day off		●	●
Min. unit of timer setting (minutes)		10	10
Control			
Status monitoring system		●	●
Electricity charge apportionment		○	○
Error history		●	●
Emergency stop		●*2	●*2
Remote management		–	●
Energy saving management		–	–
Email notification for malfunction		–	●
Key lock		● Password setting	–
Low noise mode		●	●

●: Supported ○: Optional function – : Not supported yet

*1 Only setting cancellation can be operated.
*2 This function is available only through external input control.
*3 This function is available only when using wired remote controller.

Specifications

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

System Controller Software

Max. controllable	Max. controllable	Max. controllable
4	1,600	400
VRF network systems	indoor units	outdoor units

UTY-APGXZ1

System Controller offers advanced integrated monitoring and control of the VRF network system from small 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 the air conditioning control function, central remote control, electricity charge calculation, schedule management and energy saving functions ensure the building manager and owner needs are met



System Controller Lite Software

Max. controllable	Max. controllable	Max. controllable
1	400	100
VRF network system	indoor units	outdoor units

UTY-ALGXZ1

System Controller Lite has functions suited for air conditioning management in small and medium scale buildings.

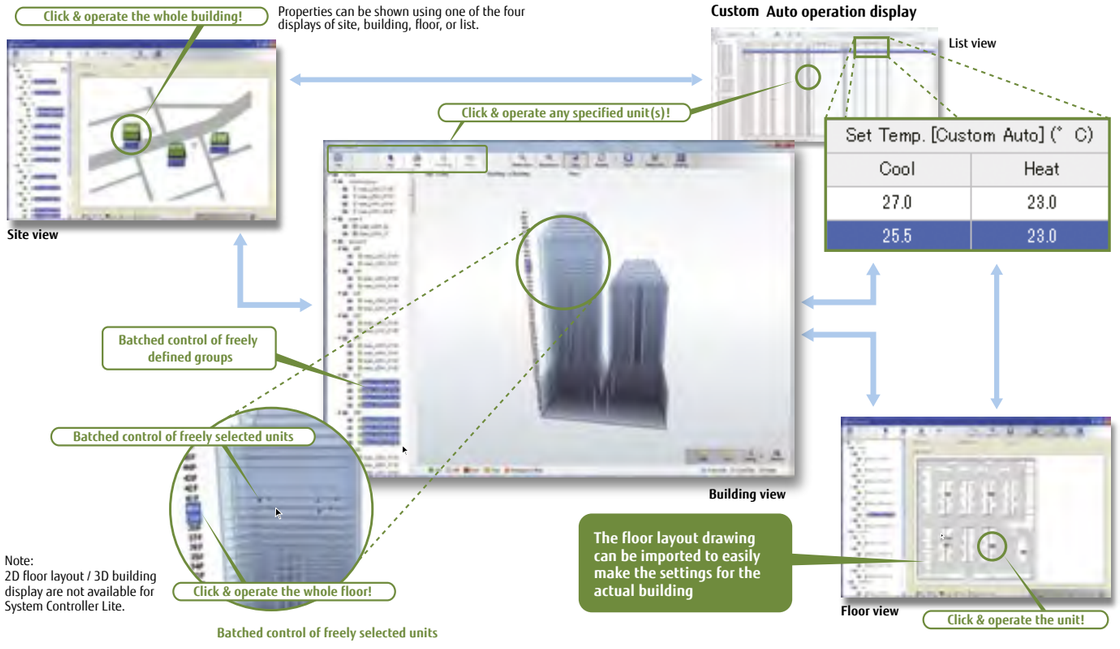
- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customers a wide range of choice



Functions

User friendly view and operation

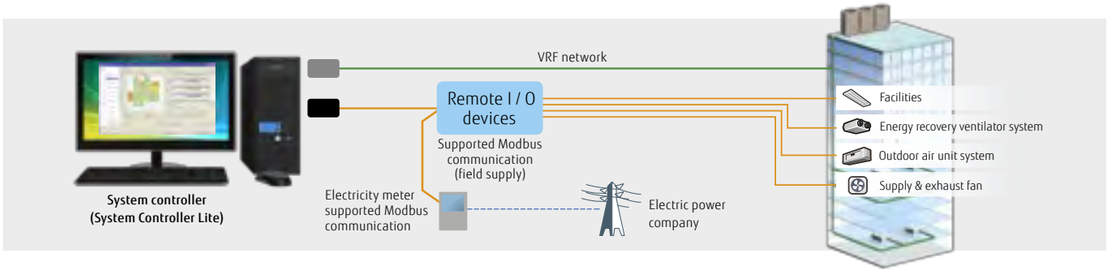
- **Click and operate**: The property is shown visually from the perspective most suitable for operation and operated accordingly (Click and Operate). You can select from among the 4 displays of site, building, floor, or list.
- **Define custom groups for batched control**: Indoor units can be grouped 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

Standard for System Controller **Option** for System Controller Lite UTY-PLGXX2

When a Modbus Adaptor (locally purchased) is connected to PC, the devices supported by Modbus can be controlled from a central location. Electricity usage can be reduced by enabling all unrequired devices to be turned off or scheduled to turn off at the end of the day.



Diverse operation management and data management

Standard for System Controller and System Controller Lite

Schedule management

- Annual schedules can be set for each remote controller group / user defined group
- Start / stop, operating mode, remote controller prohibition, and temperature settings can be set up to 143 times per day at 10 minute intervals for up to 101 configurations for each remote controller group
- Allows programming of special settings for holidays, including public holidays, for a complete year
- Low noise operation of the outdoor unit can be scheduled



Diverse control of indoor unit and outdoor unit

- Indoor unit operation state, operation mode, etc. are displayed
- Indoor unit start / stop and operation mode switching
- Room temperature set point limitation

Remote controller prohibition

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

Error display and email notification

Errors are notified with pop-up message, audible sound and email in real time when errors occur. Errors for the past year are logged and can be reviewed at any time.

Operating and control record

Displays the history of operation status and control.

Database import / export

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

Automatic clock adjustment

The time setting of each controller can be set centrally with one command.

Electricity charge apportionments*

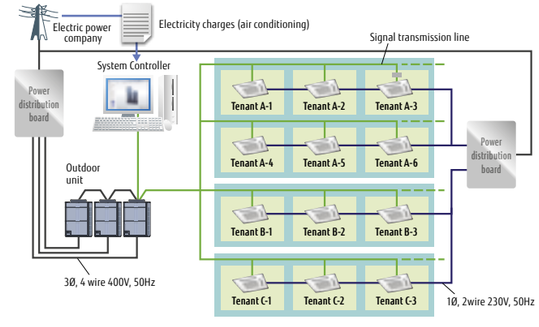
Standard for System Controller

Option for System Controller Lite UTY-PLGXA2

Electricity charge apportionment calculation framework

Suppose you want to find the power consumed by the air conditioners of each tenant from the electricity charge for each month. With electricity charge apportionment function, the used energy apportionment ratio will be provided, calculating in detail the energy consumed by the units within each tenancy. 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 on the right.)
The detailed calculation takes into consideration variables such as unused rooms and nighttime electricity charges and shows them in the charge calculation sheet.

System configuration example



* The electricity charge apportionment function does not calculate official electricity charges like those established by the laws and regulations of each country.

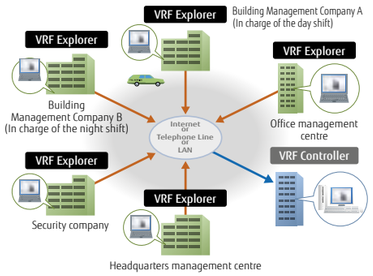
Remote management

Standard for System Controller

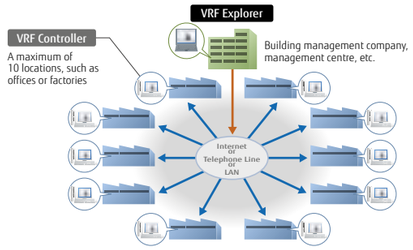
Option for System Controller Lite UTY-PLGXR2

The System Controller may be used on site or remotely over various networks for remote central control.
System Controller requires 2 software applications working together. VRF Controller runs on site and communicates with the VRF system.
VRF Explorer runs remotely and provides user interface and communicates with the VRF Controller.
VRF Controller and the VRF Explorer program may operate on a single PC or on different PCs separated by a network.
By using VRF Explorer software, one PC can perform central control of 10 VRF system sites with a max. 20 buildings per site.

Remote central control



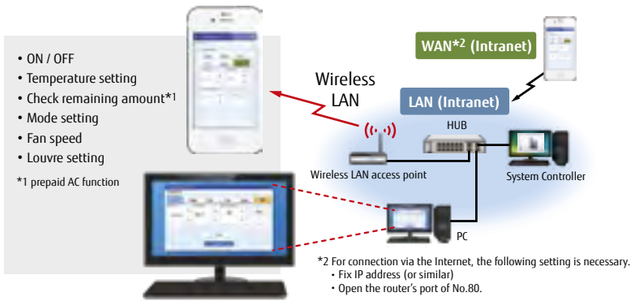
1 VRF Controller can be monitored from any number of VRF Explorers (Up to 5 connections simultaneously).



1 VRF Explorer can control or monitor up to 10 sites.

Web operation

PC and smartphones can be used as a simple remote controller.



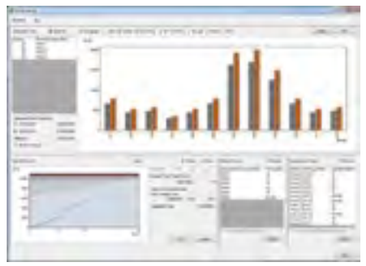
*2 For connection via the Internet, the following setting is necessary.
- Fix IP address (or similar)
- Open the router's port of No.80.

Energy saving management

Option for System Controller UTY-PEGX

Option for System Controller Lite UTY-PLGXE2

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



Energy Saving Management Main Screen

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

Indoor unit rotation operation

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

Peak cut operation

A power meter is connected to detect the total power consumption by shifting the indoor unit set temperature, turning the indoor unit forced thermostat off, and taking other measures to carefully control the power consumed to maintain target power consumption set for the specified time. The indoor units to be controlled can be grouped and the control level can be set.

Outdoor unit capacity save

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

FUNCTIONS SUMMARY

Function	Type		System controller: UTY-APGXZ1	System controller: Option UTY-PEGXZ1	System controller lite: UTY-ALGXZ1	System controller lite: Option UTY-PLGXR2	System controller lite: Option UTY-PLGXA2	System controller lite: Option UTY-PLGXE2	System controller lite: Option UTY-PLGXX2
System specification	Max. VRF networks supported		4	—	1	—	—	—	—
	Max. indoor unit / remote controller groups per VRF network		400	—	400	—	—	—	—
	Max. outdoor units per System Controller		100	—	100	—	—	—	—
	Max. indoor units / remote Controller groups per System Controller		1600	—	400	—	—	—	—
	Max. outdoor units per System Controller		400	—	100	—	—	—	—
Site supervision	Multi-site display		10	—	10	—	—	—	—
	Number of building per 1 site		20	—	—	—	—	—	—
	Number of floors per 1 site		200	—	—	—	—	—	—
	Number of floors per 1 building		50	—	—	—	—	—	—
	3D graphical layout view		●	—	—	—	—	—	—
	2D graphical layout view		●	—	—	—	—	—	—
	List display		●	—	●	—	—	—	—
	Tree display		●	—	●	—	—	—	—
	Group display		●	—	●	—	—	—	—
Error management	Error notification		●	—	●	—	—	—	—
	Audible alarm		●	—	●	—	—	—	—
	Error email notification		●	—	●	—	—	—	—
History	Error history		●	—	●	—	—	—	—
	Operation history		●	—	●	—	—	—	—
	Control history		●	—	●	—	—	—	—
Operation control	Individual control	On / Off	●	—	●	—	—	—	—
		Operation mode	●	—	●	—	—	—	—
		Room temperature	●	—	●	—	—	—	—
		Fan speed	●	—	●	—	—	—	—
		Air flow direction	●	—	●	—	—	—	—
		Economy mode	●	—	●	—	—	—	—
		Room temperature set point limitation	●	—	●	—	—	—	—
		Anti freeze	●	—	●	—	—	—	—
		Outdoor unit low noise setting	●	—	●	—	—	—	—
	Individual management	Remote control prohibition setting	●	—	●	—	—	—	—
		Temperature upper and lower limit setting	●	—	●	—	—	—	—
		Filter sign reset	●	—	●	—	—	—	—
	Other	Memory operation	●	—	●	—	—	—	—
		Pattern operation	●	—	●	—	—	—	—
		Web operation	●	—	●	—	—	—	—
Schedule	Annual schedule		●	—	●	—	—	—	—
	Special day setting		●	—	●	—	—	—	—
	On / Off per day		72	—	72	—	—	—	—
	On / Off per week		504	—	504	—	—	—	—
	Day off		●	—	●	—	—	—	—
	Min. unit of timer setting (minutes)		10	—	10	—	—	—	—
	Low noise mode weekly schedule		●	—	●	—	—	—	—
Remote managemment	Web operation		●		●	—			
	Remote monitoring		●	—	—	●	—	—	—
	Remote operation control		●	—	—	●	—	—	—
	Remote function setting		●	—	—	●	—	—	—
Electricity charge apportionment	Apportionment charge / bill calculation		●	—	—	—	●	—	—
	Tenant (block) setting		●	—	—	—	●	—	—
	Common facilities apportionment setting		●	—	—	—	●	—	—
	Rated power consumption allotment setting		●	—	—	—	●	—	—
	Individual calculation at cooling and heating		—	●	—	—	●	—	—
	Electricity meter supported		—	●	—	—	●	—	—
Energy saving management	Indoor unit rotation		—	●	—	—	—	●	—
	Peak cut control		—	●	—	—	—	●	—
	Outdoor unit capacity save		—	●	—	—	—	●	—
	Record of energy saving operation		—	●	—	—	—	●	—
	Energy saving information		—	●	—	—	—	●	—
	Power consumption monitor		—	●	—	—	—	●	—
	Electricity meter supported			●		—	—	●	—
External device control	Monitor		●	—	—	—	—	—	●
	Control		●	—	—	—	—	—	●
Others	Database import / export		●	—	●	—	—	—	—
	Automatic clock adjustment		●	—	●	—	—	—	—
	Multi language		7 languages	—	7 languages	—	—	—	—

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

Personal computer system requirements

The required PC specifications are shown in the following table.

	System Controller	System Controller Lite
Operating system	• Microsoft® Windows® 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 accessing the Internet using LAN) or modem (for accessing the Internet using a 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 accessing the Internet using LAN) or modem (for accessing the Internet using a 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.)

<PACKING LIST>

Type	For System Controller: System controller	For System Controller: Option Energy manager	For System Controller Lite: System Controller Lite	For System Controller Lite: Option Remote access	Option Electricity charge apportionment	Option Energy saving	Option Central Control
Model name	UTY-APGXZ1	UTY-PEGXZ1	UTY-ALGXZ1	UTY-PLGXR2	UTY-PLGXA2	UTY-PLGXE2	UTY-PLGXX2
WHITE-USB-KEY	1	1	1	1	1	1	1

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

BACnet® Gateway

Max. controllable 4 VRF network systems | Max. controllable 1,600 indoor units | Max. controllable 400 outdoor units

UTY-ABGXZ1

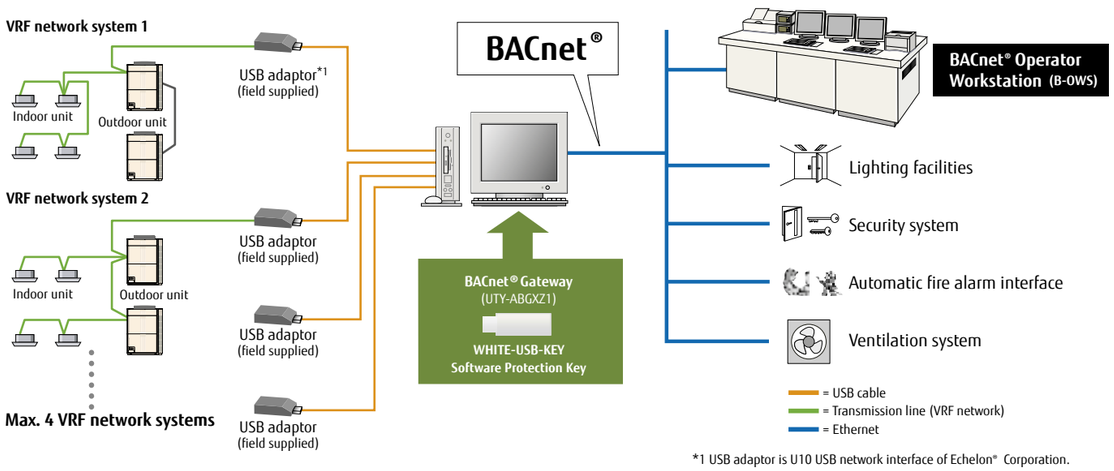
- Enables the connection of medium to large sized BMS to VRF network system via BACnet®, a global standard for open networks
- A maximum of 1600 indoor units with 4 VRF network systems (a maximum of 400 indoor units and 100 outdoor units for one network system) can be connected to one BACnet® Gateway
- Control or monitor VRF network system from BMS via BACnet® Gateway
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller (B-ASC)
- Compatible with BACnet® / IP over Ethernet
- Scheduling, alarm and event functions as well as electricity charge apportionment function are provided in the BACnet® Gateway
- The connection between VRF network system to personal computer is possible via small U10 USB interface. However, both U10 USB interface and personal computer are field supplied items
- Available for use in 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish



WHITE-USB-KEY
(Software Protection Key)

Functions

Installation example



*1 USB adaptor is U10 USB network interface of Echelon® Corporation.

Personal computer system requirements

	UTY-ABGXZ1
Operating system	• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® 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

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

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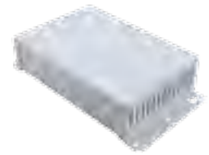
Name and shape	Quantity	Application
WHITE-USB-KEY	1	Includes the software and manuals, license for BACnet® Gateway.

BACnet® Gateway (hardware)

Max. controllable 1 VRF network system | Max. controllable 32 refrigerant system | Max. controllable 128 indoor units

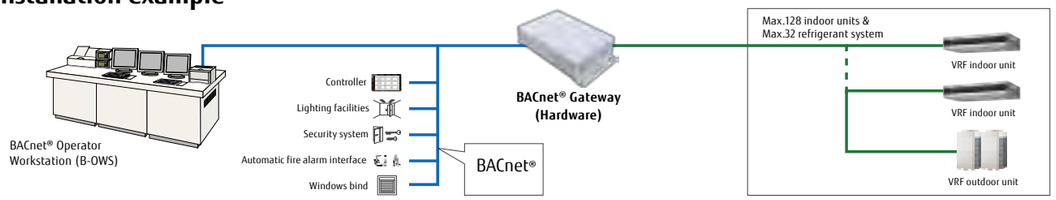
UTY-VBGX

- BACnet® Gateway enables connection between the 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



Functions

Installation example



Specifications

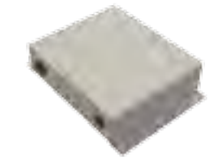
Model name		UTY-VBGX
Number of controllable indoor units		128
Number of controllable refrigerant system		32
Number of controllable VRF network		1
Number of connectable units / one VRF network		4
Power supply		208-240V 50 / 60Hz, single phase
Power consumption	W	-
Dimensions (H x W x D)	mm	260 × 59 × 145
Weight	g	-

Network Convertor for LONWORKS®

Max. controllable 4 units to BMS | Max. controllable 128 indoor units | Max. controllable 100 outdoor units

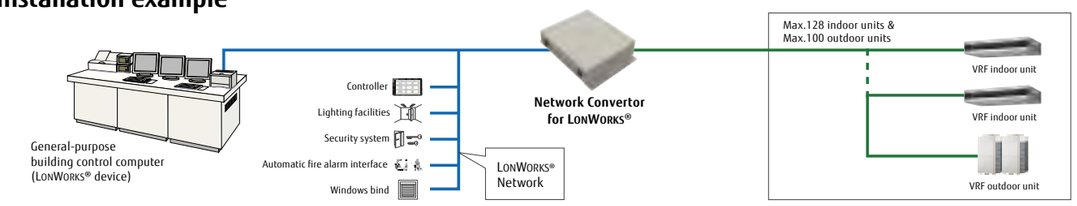
UTY-VLGX

- For connection between VRF network system and a LONWORKS® open network for management of small to medium sized BMS and VRF network systems
- The UTY-VLGX permits central monitoring and control of a VRF network system from a BMS through a LONWORKS® interface
- Up to 128 indoor units can be connected to one Network Convertor for LONWORKS®



Functions

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

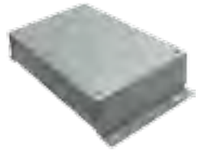
Transmission specifications (BMS side)

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 (for VRF)

Max. connectable 9 units to one VRF | Max. controllable 128 indoor units | Max. controllable 100 outdoor units

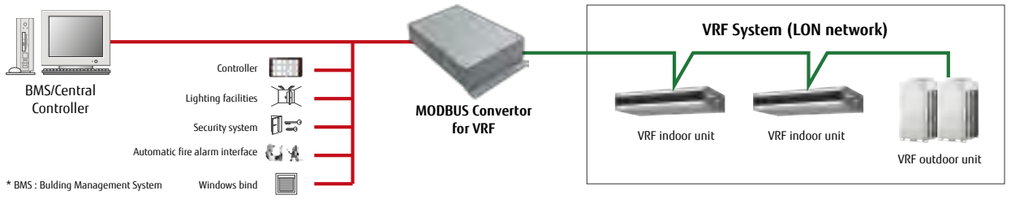
UTY-VMGX



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

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

Functions



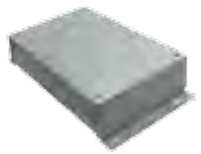
Specifications

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

KNX® Convertor (for VRF)

Max. controllable 128 indoor units | Max. controllable 100 outdoor units

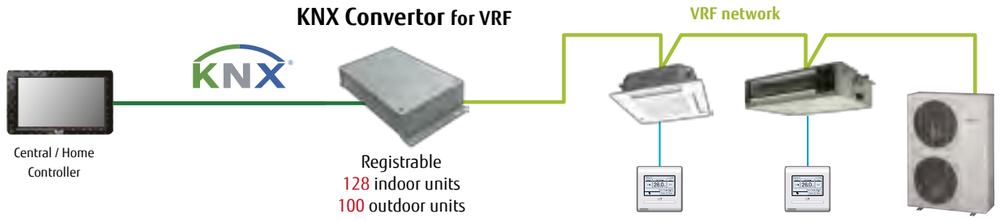
UTY-VKGX



It is possible to control the VRF system from the Central / Home Controller via the KNX network

- The new KNX Convertor enables connection of the Central / Home Controller and FG VRF system
- A maximum of 128 indoor units and 100 outdoor units can be connected to single KNX Convertor

Functions



Specifications

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

MODBUS® Convertor (for indoor unit)

Max. controllable 1 single indoor unit

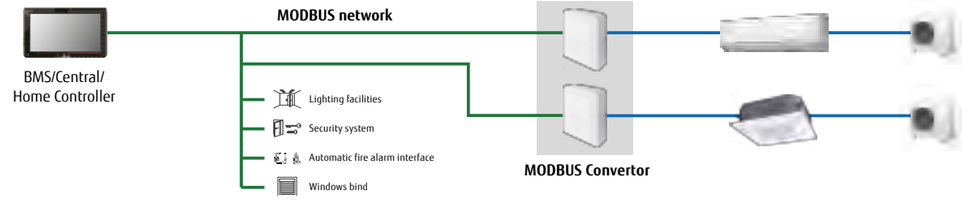
UTY-VMSX



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 Convertors 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	℃	0~46 / -10~60
Humidity	Operating / packaged	%	0~95 / 0~95
Maximum connectible indoor unit number per 1 MODBUS Convertor			1

KNX® Convertor (for indoor unit)

Max. controllable 1 single indoor unit

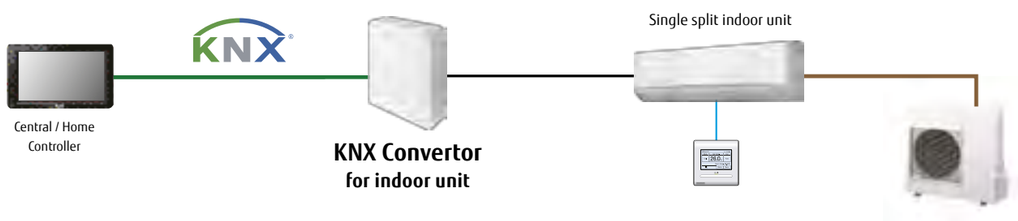
UTY-VKSX



It is possible to control the VRF system from the Central / Home Controller via the KNX network

- New KNX Convertor enables connection between Central / Home Controller and FG indoor unit
- Compact and lightweight 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

Network Convertor

Max. controllable 16 single indoor units

Max. controllable 100 network convertors

UTY-VTGX (DC power supply type)

The Network Convertor offers a total solution to control multiple air conditioning systems.

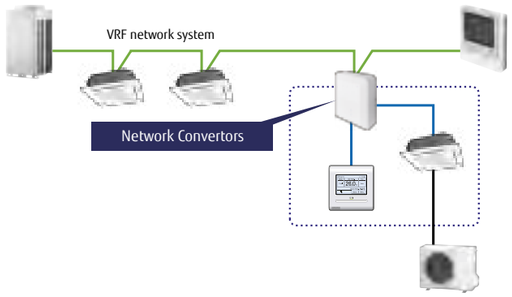


Functions

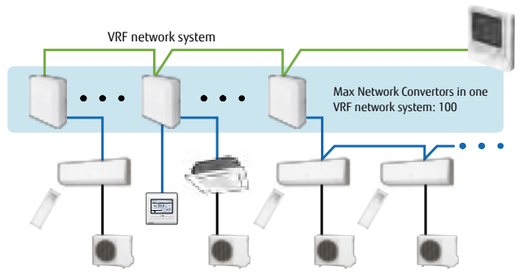
Solutions for multiple air conditioning systems

- The convertor is required when connecting single units to a VRF network system
- Administrator can perform total management of single units with a centralised VRF controller

Single unit with VRF



Single split type unit management

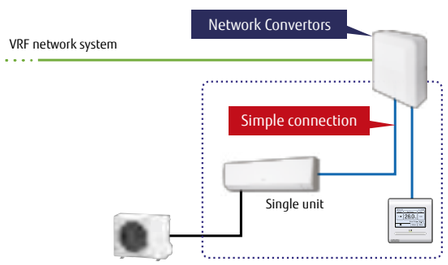


Max indoor units connected by one convertor: 16

Solutions for easy installation

DC power supply type can be powered by indoor unit
No power supply construction for convertor

Easy wiring

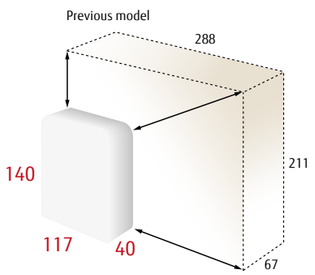


The new convertor is lightweight and compact, reducing the installation space required

Design flexibility

Size 85% REDUCTION

Weight 250g



Specifications

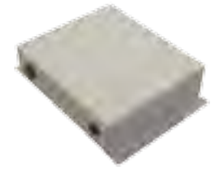
Model name		UTY-VTGX	
Power supply		polar 3-wire DC12V	non-polar 2-wire DC12V
Input power	W	Max. 1.2	
Dimensions (H x W x D)	mm	43 × 117 × 140	
Weight	g	250	

Signal Amplifier

UTY-VSGXZ1

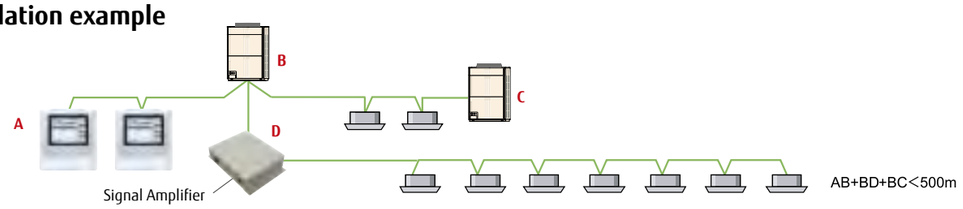
- Transmission line length can be extended up to 3,600m with multiple Signal Amplifiers
- Up to 40 signal amplifiers can be installed in a VRF network system
- A signal amplifier is required

(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

Installation example



Specifications

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





AIRSTAGE™ OPTION

Diverse building air conditioning control functions can be controlled easily by AIRSTAGE™ options.



Various kinds of optional parts are provided such as controllers, adaptors and convertors to meet the needs of every user.

AIRSTAGE™ OPTION

External Power Supply Unit

Auto Louvre Grille Kit

CONTROL SYSTEM LIST

OPTIONAL PARTS LIST

OPTIONAL PARTS

EXTERNAL INPUTS AND OUTPUTS

PIPING AND REFRIGERATION ACCESSORIES

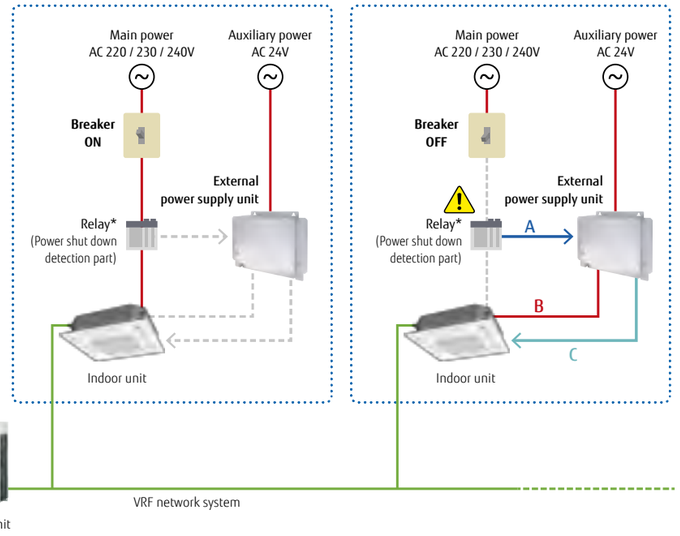
External Power Supply Unit

Models
UTZ-GXXA



Features

A) When power is isolated the system will not go into a communication error
B) The expansion valve is controlled even when the power is isolated
C) 24V power supply control when mains power is isolated



Note
- When changing the power supply voltage to AC24V, use a power transformer with an insulation structure equivalent to CLASS 2.
- Indoor units that are powered off and driven by an external Power Supply Unit are handled in the same manner as operation off units in the electricity charge apportionment function. Since standby power may be charged to them, the electricity charge apportionment result for them may not be 0.

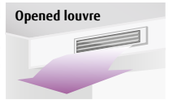
Specifications

Model name		UTZ-GXXA
Power Supply		AC 24 V 50 / 60 Hz, single phase
Dimensions (H × W × D)	mm	65 × 186 × 178
Weight	g	500

Auto Louvre Grille Kit

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







Features

Flexible control

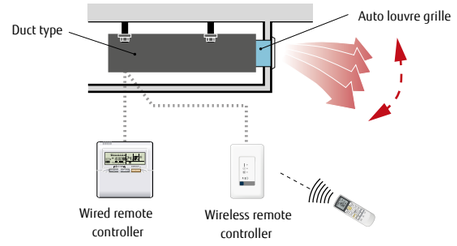
- **Operation with indoor unit**

  The Auto louvre can be operated via the remote controller of the indoor unit.

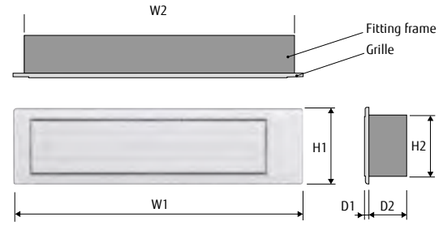
- **Up and down auto swing**
  - Auto airflow direction and auto swing
  - 4 steps selectable

- **Auto closing louvre**

  When the operation of the indoor unit is stopped, the louvre will automatically close.



Dimensions



Unit: mm

Model name	W1	W2	H1	H2	D1	D2
UTD-GXTA-W	683	645	180	148	9	84
UTD-GXTB-W	883	845				
UTD-GXTC-W	1,083	1,045				

Specifications

Model name			UTD-GXTA-W	UTD-GXTB-W	UTD-GXTC-W
Applicable indoor unit			ARXD007 / 009 / 012 / 014GLEH ARXK007 / 009 / 012 / 014GLEH	ARXD018GLEH ARXK018GLEH	ARXD024GLEH ARXK024GLEH
Power source			Connecting with control box of indoor unit		
Fixing of auto louvre grille			Screw fixing to flange or square duct		
Extension square duct limit			1.0m (Max. duct length between indoor unit and grille)		
Dimensions (H × W × D)		mm	180 × 683 × (84+9)	180 × 883 × (84+9)	180 × 1083 × (84+9)
Weight	Net	kg	2.0	2.5	3.0
	Gross		3.0	3.5	4.0
Color			White		
Louvre motor			Stepping motor		
Accessories			Fitting frame, etc.		
Operation range	Cooling	℃	18 to 32		
		% RH	80% or less		
	Heating	℃	16 to 30		

CONTROL SYSTEM LIST

Controllers / Interface

	Type		Indoor unit																							
			Cassette								Duct		Duct			Floor		Ceiling / Floor	Ceiling	Wall mounted						
			4-way Flow Compact		4-way Flow Slim type	4-way Flow Large type	Circular Flow Slim type		Circular Flow Large type		Mini (with drain pump)	Slim (with drain pump)	Medium Static Pressure	High Static Pressure	High Static Pressure	–	EEV external			–	EEV external	–	EEV external	–		
			AUXB 007 / 009 / 012 / 014 / 018 / 024 GLEH	AUXB 07 / 09 / 12 / 14 / 18 / 24 GALH	AUXD 18 / 24GALH	AUXA 18 / 24 / 30 / 34 / 36 / 45 / 54 GALH	AUXM 018 / 024 / 030 GLEH	AUXM 018 / 024 / 030 GLAH	AUXK 018 / 024 / 030 / 034 / 036 / 045 / 054GLEH	AUXK 018 / 024 / 030 / 034 / 036 / 045 / 054GLAH	ARXK 007 / 009 / 012 / 014 / 018 / 024 GLEH	ARXD 007 / 009 / 012 / 014 / 018 / 024 GLEH	ARXA 024 / 030 / 036 / 045 GLEH	ARXC 36 / 45 / 60 GATH	ARXC 036 / 072 / 090 / 096 GTEH	AGYA 007 / 009 / 012 / 014 GCEH	AGYE 007 / 009 / 012 / 014 GCEH	ABYA 012 / 014 / 018 / 024 GTEH	ABYA 030 / 036 / 045 / 054 GTEH	ASYA 007 / 009 GTEH	ASYE 007 / 009 GTEH	ASYA 012 / 014 GCEH	ASYE 012 / 014 GCEH	ASYA 18 / 24GBCH	ASYA 030 / 034 GTEH
Controllers	Wired Remote Controller	2-wire type	● UTY-RNRYZ3																● UTY-RNRYZ3							
Controllers	Simple Remote Controller	2-wire type	● UTY-RSRY, UTY-RHRY																● UTY-RSRY, UTY-RHRY							
Controllers	Wireless Remote Controller		● UTY-LNHY																● UTY-LNHY							
Controllers	Central Remote Controller		● UTY-DCGYZ1																● UTY-DCGYZ1							
Controllers	Touch Panel Controller		● UTY-DTGYZ1																● UTY-DTGYZ1							
Controllers	System Controller, System Controller Lite		● UTY-APGXZ1, UTY-ALGXZ1																● UTY-APGXZ1, UTY-ALGXZ1							
Interface	BACnet Gateway		● UTY-ABGXZ1, UTY-VBGX																● UTY-ABGXZ1, UTY-VBGX							
Interface	Network Convertor for LonWorks		● UTY-VLGX																● UTY-VLGX							
Interface	MODBUS Convertor for VRF		● UTY-VMGX																● UTY-VMGX							
Interface	KNX Convertor for VRF		● UTY-VKGX																● UTY-VKGX							
Interface	MODBUS Convertor for indoor unit		● UTY-VMSX				● UTY-VMSX						● UTY-VMSX						● UTY-VMSX						● UTY-VMSX	
Interface	KNX Convertor for indoor unit		● UTY-VKSX				● UTY-VKSX						● UTY-VKSX						● UTY-VKSX						● UTY-VKSX	

OPTIONAL PARTS LIST

Others

Type		Indoor unit: Cassette: 4-way Flow Compact: AUXB 007 / 009 / 012 / 014 / 018 / 024 GLEH	Indoor unit: Cassette: 4-way Flow Compact: AUXB 07 / 09 / 12 / 14 / 18 / 24 GALH	Indoor unit: Cassette: 4-way Flow Slim type: AUXD 18 / 24GALH	Indoor unit: Cassette: 4-way Flow Large type: AUXA 18 / 24 / 30 / 34 / 36 / 45 / 54 GALH	Indoor unit: Cassette: Circular Flow Slim type: AUXM 018 / 024 / 030 GLEH	Indoor unit: Cassette: Circular Flow Slim type: AUXM 018 / 024 / 030 GLAH	Indoor unit: Cassette: Circular Flow Large type: AUXK 018 / 024 / 030 / 034 / 036 / 045 / 054GLEH	Indoor unit: Cassette: Circular Flow Large type: AUXK 018 / 024 / 030 / 034 / 036 / 045 / 054GLAH	Indoor unit: Duct: Mini (with drain pump): ARXK 007 / 009 / 012 / 014 / 018 / 024 GLEH	Indoor unit: Duct: Slim (with drain pump): ARXD 007 / 009 / 012 / 014 / 018 / 024 GLEH	Indoor unit: Duct: Medium Static Pressure: ARXA 024 / 030 / 036 / 045 GLEH	Indoor unit: Duct: High Static Pressure: ARXC 36 / 45 / 60 GATH	Indoor unit: Duct: High Static Pressure: ARXC 036 / 070 / 090 / 096 GTEH	Indoor unit: Floor: – : AGYA 007 / 009 / 012 / 014 GCEH	Indoor unit: Floor: EEV external: AGYE 007 / 009 / 012 / 014 GCEH	Indoor unit: Ceiling / Floor: ABYA 012 / 014 / 018 / 024 GTEH	Indoor unit: Ceiling: ABYA 030 / 036 / 045 / 054 GTEH	Indoor unit: Wall mounted: – : ASYA 007 / 009 GTEH	Indoor unit: Wall mounted: EEV external: ASYE 007 / 009 GTEH	Indoor unit: Wall mounted: – : ASYA 012 / 014 GCEH	Indoor unit: Wall mounted: EEV external: ASYE 012 / 014 GCEH	Indoor unit: Wall mounted: – : ASYA 18 / 24GBCH	Indoor unit: Wall mounted: – : ASYA 030 / 034 GTEH	Outdoor unit: V-III: AJY 072 / 090 / 108 / 126 / 144 / 162 LALBH
Others	IR Receiver Unit			● UTY-LRHYB1		● UTY-LBHXD				● UTY-TRHX		● UTY-TRHX	● UTB-TWC	● UTY-TRHX												
	Human Sensor Kit					● UTY-SHZXC																				
	Remote Sensor Unit	Replaces indoor return air sensor and allows return air to be sensed from a remote location.								● UTY-XSZX			● UTY-XSZX													
	Cassette Grille		● UTG-UFYC-W																							
				● UTG-UGYA-W																						
						● UTG-UKYC-W																				
	Auto Louvre Grille Kit									● UTD-GXTA-W (007-014), UTD-GXTB-W (018), UTD-GXTC-W (024)																
	Long Life Filter										● UTD-LF25NA		● UTD-LF60KA	● UTD-LF60KA (036)												
	Flange										● UTD-SF045T UTD-RF204						● UTD-RF204									
	Drain Pump Unit										● UTZ-PX1NBA						● UTR-DPB24T									
	Wide Panel	Indoor unit 950 (60) Panel 600 (mm)				● UTG-AKXA-W																				
	Panel Spacer	(mm) 2x2 Panel spacer				● UTG-BKXA-W																				
	Fresh Air Intake Kit	For Compact Cassette / For Cassette	● UTZ-VXAA				● UTZ-VXRA																			
	Air Outlet Shutter Plate	For Compact Cassette / For Cassette	● UTR-YDZB				● UTR-YDZK																			
	Insulation for High Humidity	For Compact Cassette type / Cassette type	● UTZ-KXGC				● UTZ-KXRA																			
	Half Concealed Kit	This kit is used to half conceal floor type indoor unit into the wall.													● UTR-STA											
	External Power Supply Unit		● UTZ-GXXA				● UTZ-GXXA		● UTZ-GXXA		● UTZ-GXXA	● UTZ-GXXA						● UTZ-GXXA						● UTZ-GXXA		
	Pressure Sensor Kit																									● UTY-SPWX

OPTIONAL PARTS

Controllers

For Individual Control

Wired Remote Controller (Touch Panel)
UTY-RNRYZ3



Simple Remote Controller
UTY-RSRY with operation mode
UTY-RHRY without operation mode



UTY-RSRY UTY-RHRY

Wireless Remote Controller
UTY-LNHY



IR Receiver Unit
UTB-TWC, UTY-TRHX
For Duct type



IR Receiver Unit
UTY-LRHYB1
For Cassette type



IR Receiver Unit
UTY-LBHXD
For Circular Flow Cassette type



Human Sensor Kit
UTY-SHZXC
For Circular Flow Cassette type



For Centralised Control

Central Remote Controller
UTY-DCGYZ1



Touch Panel Controller
UTY-DTGYZ1

Option
UTY-PTGXA



System Controller Lite Software
UTY-ALGXZ1

Option
UTY-PLGXR2
UTY-PLGXA2
UTY-PLGXE2
UTY-PLGXX2



System Controller Software
UTY-APGXZ1

Option
UTY-PEGXZ1



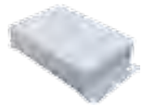
Convertors / Adaptors

For External Device

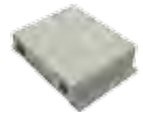
BACnet® Gateway Software
UTY-ABGXZ1
WHITE-USB-KEY
(Software Protection Key)



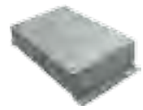
BACnet® Gateway
UTY-VBGX Hardware



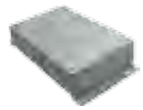
Network Convertor
for LONWORKS®
UTY-VLGX



MODBUS® Convertor
for VRF
UTY-VMGX



KNX® Convertor
for VRF
UTY-VKGX



MODBUS® Convertor
for Indoor unit
UTY-VMSX



KNX® Convertor
for Indoor unit
UTY-VKSX

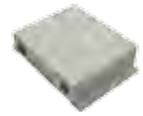


For System Expansion

Network Convertor
for single split system
UTY-VTGX
DC power supply type



Signal Amplifier
UTY-VSGXZ1



For Indoor unit

External Power Supply Unit
UTZ-GXXA



Panels

For Cassette type

Cassette Grille
UTG-UFYC-W
For Compact Cassette type



Cassette Grille
UTG-UGYA-W
For Cassette type



Cassette Grille
UTG-UKYC-W
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



Remote Sensor Unit
UTY-XSZX

For all Duct type

Remote temperature sensor unit replaces indoor unit return air sensor with sensor from location of remote sensor.



Long-Life Filter
UTD-LF25NA

For Medium Static Pressure Duct type



UTD-LF60KA

For High Static Pressure Duct type



Auto Louver Grille Kit
UTD-GXTA-W (for ARXD07 / 09 / 12 / 14, ARXK07 / 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
UTZ-PX1NBA

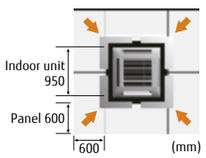
For Medium Static Pressure Duct type



For Cassette type

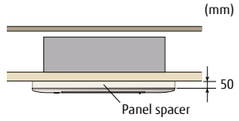
Wide Panel
UTG-AKXA-W

For Cassette type



Panel Spacer
UTG-BGYA-W

For Cassette type

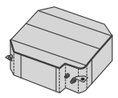


Insulation Kit for high humidity
UTZ-KXRA

For Cassette type

UTZ-KXGC

For Compact Cassette type



Fresh Air Intake Kit
UTZ-VXAA

For Compact Cassette type



UTZ-VXRA

For Cassette type



Air Outlet Shutter Plate
UTR-YDZB

For Compact Cassette type

Shuts the 4th outlet when installed in a 3 outlet directional airflow scenario.



Air Outlet Shutter Plate
UTR-YDZK

For Cassette type

Shuts the 4th outlet when installed in a 3 outlet directional airflow scenario.



For Ceiling type

Drain Pump Unit
UTR-DPB24T

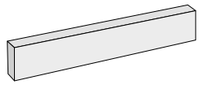
For Ceiling type



For Floor type

Half Concealed Kit
UTR-STA

For Floor type



For Outdoor Unit

Pressure Sensor Kit
UTY-SPWX

For V-III



Others

Communication system: External Connect Kit

For Indoor unit

UTY-XWZXZ7



UTY-XWZXZB



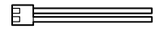
UTY-XWZXZC



UTY-XWZXZD



UTY-XWZXZE



For Outdoor unit

UTY-XWZXZ6



UTY-XWZXZ9



UTY-XWZXZF



For RB unit

UTY-XWZXZ6

UTY-XWZXZB



For Central Remote Controller

UTY-XWZXZ7

UTY-XWZXZ8



UTY-XWZXZA



For Touch Panel Controller

UTY-XWZXZA



EXTERNAL INPUTS AND OUTPUTS

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

		Indoor unit															Outdoor unit					Controller		Other
		Cassette					Duct				Floor				Wall mounted										
		4-way Flow Compact	4-way Flow Slim type	4-way Flow Large type	Circular Flow Slim type	Circular Flow Large type	Mini (with drain pump)	Slim (with drain pump)	Medium Static Pressure	High Static Pressure	–	EEV external	Ceiling / Floor	Ceiling	–	EEV external	–	–	J-IIIL	J-III	J-IIS	VR-II	V-III	Central Remote Controller	Touch Panel Controller	RB Unit
Type		AUXB 07 / 09 / 12 / 14 / 18 / 24 GALH, AUXB 007 / 009 / 012 / 014 / 018 / 024 GLEH	AUXD 18 / 24GALH	AUXA 18 / 24 / 30 / 34 / 36 / 45 / 54 GALH	AUXM 018 / 024 / 030 GLEH, AUXM 018 / 024 / 030 GLAH	AUXK 018 / 024 / 030 / 034 / 036 / 045 / 054GLEH, AUXK 018 / 024 / 030 / 034 / 036 / 045 / 054GLAH	ARXK 007 / 009 / 012 / 014 / 018 / 024 GLEH	ARXD 007 / 009 / 012 / 014 / 018 / 024 GLEH	ARXA 024 / 030 / 036 / 045 GLEH	ARXC 36 / 45 / 60GATH, ARXC 036 / 072 / 090 / 096 GTEH	AGYA 007 / 009 / 012 / 014 GCEH	AGYE 007 / 009 / 012 / 014 GCEH	ABYA 012 / 014 / 018 / 024 GTEH	ABYA 030 / 036 / 045 / 054 GTEH	ASYA 007 / 009 GTEH, ASYA 012 / 014 GCEH	ASYE 007 / 009 GTEH, ASYE 012 / 014 GCEH	ASYA 18 / 24GBCH	ASYA 030 / 034 GTEH	AJY 072 / 090 / 108 / 126 / 144 LELAH	AJY 040 / 045 / 054 LBLAH	AJT 040 / 045 / 054 LCLAH	AJT A72 / A90GALH, AJT 108 / 126GALH, AJT 144GBLH	AJY 072 / 090 / 108 / 126 / 144 LALBH	UTY-DCGYZ1	UTY-DTGYZ1	UTP-RX01AH UTP-RX01BH UTP-RX01CH UTP-RX04BH
Input	Operation / Stop	●UTY-XWZXZD ○UTY-XWZXZB													●UTY-XWZXZD ○UTY-XWZXZB									
	All On / All Off																						●UTY-XWZXZ7 ○UTY-XWZXZ8	●*2 ○*2	
	Batch stop																		●UTY-XWZXZ6						
	Forced stop	●UTY-XWZXZD ○UTY-XWZXZB													●UTY-XWZXZD ○UTY-XWZXZB									
	Emergency stop	●UTY-XWZXZD ○UTY-XWZXZB													●UTY-XWZXZD ○UTY-XWZXZB				●UTY-XWZXZ6				●UTY-XWZXZ7 ○UTY-XWZXZ8	●*2 ○*2	
	Forced thermostat off	●UTY-XWZXZE ○UTY-XWZXZ7													●UTY-XWZXZE ○UTY-XWZXZ7									
	Low noise mode operation																		●UTY-XWZXZ6						
	Cooling / Heating priority																		●UTY-XWZXZ6						●UTY-XWZXZ6 ○UTY-XWZXZB
	Outdoor unit operation peak control																		●UTY-XWZXZ6						
	Power usage information from electricity meter																		●UTY-XWZXZF					●*2 ○*2	
Output	Operation status	●UTY-XWZXZC													●UTY-XWZXZC				○UTY-XWZXZ6				○UTY-XWZXZA		
	Error status	●UTY-XWZXZC													●UTY-XWZXZC				○UTY-XWZXZ6				○UTY-XWZXZA		
	Indoor unit fun operation status	●UTY-XWZXZC													●UTY-XWZXZC									
	Auxiliary heater output						●UTY-XWZXZC																		
	Base heater																		●UTY-XWZXZ9			●UTY-XWZXZ9			

*2: Touch Panel Controller has these functions for Dry contact and Apply voltage, however, the above External Connect Kit is not necessary because Touch Panel Controller has an external input terminal block.

●: Dry contact ○: Apply voltage

PIPING AND REFRIGERATION ACCESSORIES

Connection units

Separation Tube

UTP-AX054A

Gas Pipe



Liquid Pipe



UTP-AX090A

Gas Pipe



Liquid Pipe



UTP-AX180A

Gas Pipe



Liquid Pipe



UTP-AX567A

Gas Pipe



Liquid Pipe



UTP-BX090A

Suction Gas Pipe



Discharge Gas Pipe



Liquid Pipe



UTP-BX180A

Suction Gas Pipe



Discharge Gas Pipe



Liquid Pipe



UTP-BX567A

Suction Gas Pipe



Discharge Gas Pipe



Liquid Pipe



Header

UTR-H0906L / UTR-H1806L

Gas Pipe



Liquid Pipe



UTR-H0908L / UTR-H1808L

Gas Pipe



Liquid Pipe



UTP-J0906A / UTP-J1806A

Suction Gas Pipe



Discharge Gas Pipe



Liquid Pipe



UTP-J0908A / UTP-J1808A

Suction Gas Pipe



Discharge Gas Pipe



Liquid Pipe



Outdoor Unit Branch Kit

UTP-CX567A

Gas Pipe



Liquid Pipe

UTP-DX567A

Suction Gas Pipe



Discharge Gas Pipe



Liquid Pipe



EV Kit

Model code ≦ 09 : UTR-EV09XB

Model code ≧ 12 : UTR-EV14XB

For Compact Wall Mounted type
Compact Floor type



RB Unit

UTP-RX01AH / UTP-RX01BH / UTP-RX01CH

Single type



UTP-RX04BH

Multi type



UTP-RX08AH

Multi type



UTP-RX12AH

Multi type



Specifications

Separation Tube

Model name		UTP-AX054A	UTP-AX090A	UTP-AX180A	UTP-AX567A
Total cooling capacity of indoor unit	kW	19.6 or less	28.0 or less	28.1 to 56.0	56.1 or more

Model name		UTP-BX090A (for VR-II)	UTP-BX180A (for VR-II)	UTP-BX567A (for VR-II)
Total cooling capacity of indoor unit	kW	28.0 or less	28.1 to 56.0	56.1 or more

Header

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

Model name			UTP-J0906A (for VR-II)	UTP-J1806A (for VR-II)
	3-6 Branches			
	3-8 Branches		UTP-J0908A (for VR-II)	UTP-J1808A (for VR-II)
Total cooling capacity of indoor unit		kW	28.0 or less	28.1 to 56.0

Outdoor unit Branch kit

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

EV Kit

Model name	UTR-EV09XB		UTR-EV14XB	
Application model	ASYE007GTEH ASYE009GTEH	AGYE007GCEH AGYE009GCEH	ASYE012GCEH ASYE014GCEH	AGYE012GCEH AGYE014GCEH

RB Unit

Model name		Single type			Multi type		
Number of outdoor unit		UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH	UTP-RX08AH	UTP-RX12AH
Power source	V/Ø/Hz	230 / 1 / 50					
Input power	W	17	24	31	96	136	204
Number of branches		1	1	1	4	8	12
Maximum capacity of connectable indoor units(Q)	kW	Q ≦ 8.0	Q ≦ 18.0	Q ≦ 28.0	Q ≦ 56.0*1	Q ≦ 72.0	Q ≦ 95.0
Maximum capacity of connectable indoor units per branch(Q)	kW	Q ≦ 8.0	Q ≦ 18.0	Q ≦ 28.0	Q ≦ 18.0	Q ≦ 8.0	Q ≦ 8.0
Maximum number of connectable indoor units per branch		3	8	8	8	7	7
Dimensions (H×W×D)	mm	198 × 298 × 268	198 × 298 × 268	198 × 298 × 268	260 × 658 × 428	298 × 660 × 618	298 × 990 × 618

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

ABOUT US

Since we began our air conditioning business in 1971,
our products have been popular globally, and we continue to improve,
evolve and expand our lineup to exceed customers' expectations.

OUR HISTORY

WORLD WIDE LOCATIONS

PROJECT REFERENCES

GLOBAL DEVELOPMENT AND PRODUCTION BASES

HIGH QUALITY DEVELOPMENT AND PRODUCTION FACILITIES



OUR HISTORY

Fujitsu General's overseas air conditioning business has been in operation since 1971, with our VRF solutions being on the market since 2001.

Fujitsu General's VRF Airstage™ Series has been developed based on our air conditioning technology along with an ongoing investment in research and development.
We offer a series of products suitable for large homes to large scale buildings to meet the various needs of the market.

For Residential & Light Commercial Use

For Commercial Use

1936
Established as
Yaou Shouten Ltd.

1971
Air conditioner
exports to
Middle East.



2001
S Series
10HP / Heat Recovery & Heat Pump

2003
10HP / Heat Recovery
8HP,10HP / Heat Pump & Cooling



2004
J Series
6HP / Heat Pump



AIRSTAGE J-II

2011
J-II Series
High efficiency and small capacity model
4HP to 6HP / Heat Pump



2007
V Series
8HP to 42HP / Heat Pump



AIRSTAGE V-II

2009
V-II Series
High efficiency and compact design model
Extensive lineup from 8HP to 48HP
in 2HP increments / Heat Pump



AIRSTAGE VR-II

2012
VR-II Series
High efficiency and
compact design model
8HP to 48HP / Heat Recovery



HYPER TROPICAL SPEC

AIRSTAGE V-II

2013
V-II TROPICAL Series
Tropical spec model
Extensive lineup from 8HP to 42HP
in 2HP increments / Heat Pump



AIRSTAGE V-III

2015
V-III Series
High efficiency and large capacity model
Extensive lineup from 8HP to 54HP
in 2HP increment / Heat Pump



TROPICAL SPEC

AIRSTAGE V-III

2016
V-III TROPICAL Series
Extensive lineup from 8HP to 54HP
in 2HP increments / Heat Pump



8HP - 12HP

14HP - 16HP

AIRSTAGE J-IIS

2014
J-IIS Series
High efficiency and compact design model
4HP to 6HP / Heat Pump



AIRSTAGE J-III

2016
J-III Series
High efficiency and small capacity model
4HP to 6HP / Heat Pump



AIRSTAGE J-IIIL

2017 - 2019
J-IIIL Series
High efficiency and compact design model
10HP to 18HP / Heat Pump

1936-1971 | 1998 | 2001-2003 | 2004-2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017-2019

Certification Acquisition of

ISO14001

1998 Fujitsu General (Shanghai) Co.,Ltd.
1999 Fujitsu General (Thailand) Co.,Ltd.
2002 FGA (Thailand) Co.,Ltd.
2006 Fujitsu General Central Air-conditioner (Wuxi) Co.,Ltd.

2004
New Product Initiatives
Fujitsu introduced inverter technology which used R410A refrigerant.

Refrigerant R410A

2006
RoHS Compliant
Restriction of Hazardous Substances (RoHS) is an EU directive on the restriction of the use of certain hazardous substances in all consumer electrical and electronic equipment.

RoHS COMPLIANT

2012
DC Inverter Compressors
Use of 100% inverter driven DC compressors.

ALL INVERTER

WORLD WIDE LOCATIONS

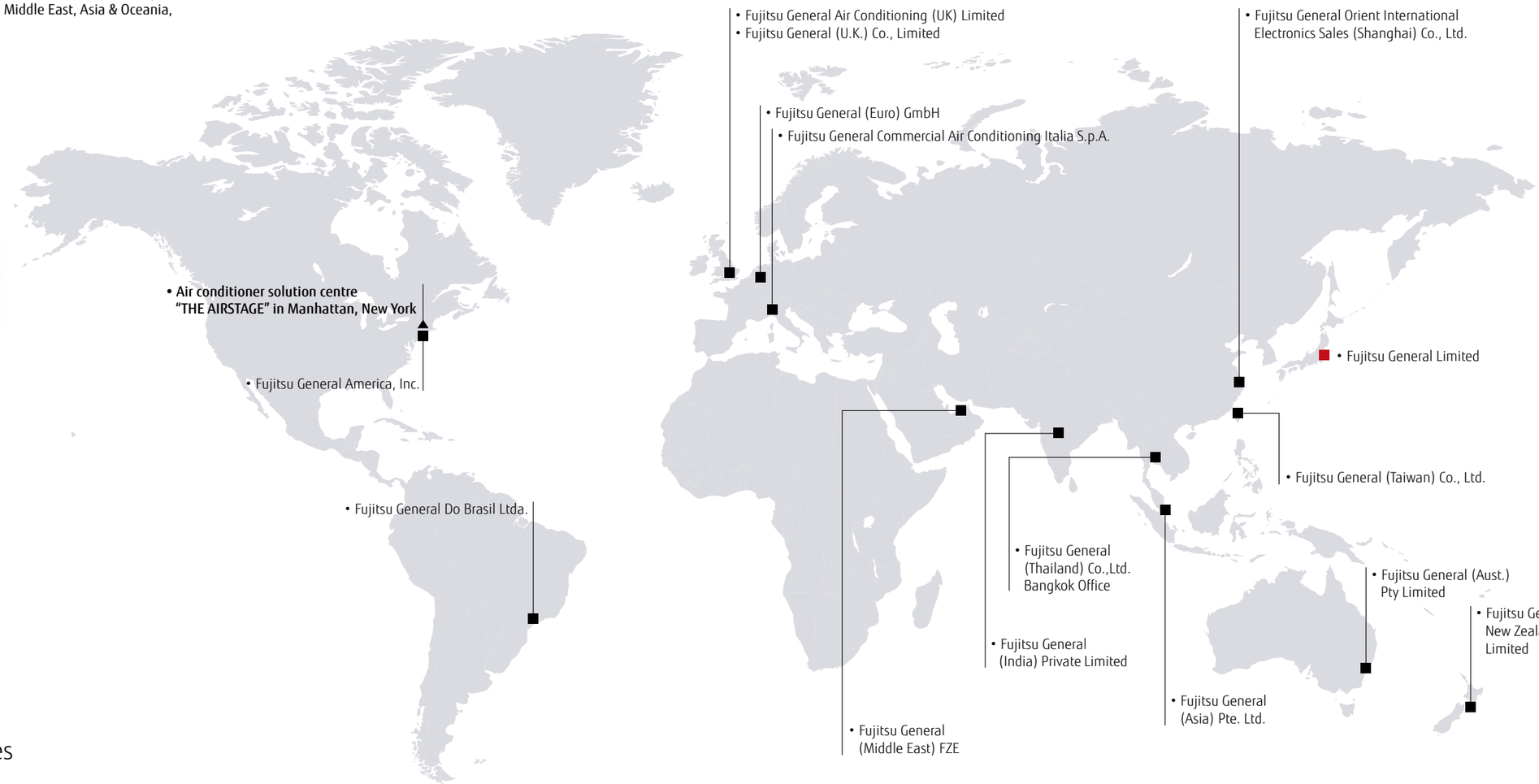
Fujitsu General Limited is focused on promoting globalisation whilst still emphasizing a local approach in the five key identified markets (Europe, Middle East, Asia & Oceania, Americas, and Japan).



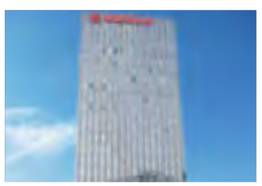
JAPAN Head Office



Technology Research Building (Japan)



15 Overseas Sales Companies



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



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



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



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



Fujitsu General (EURO) GmbH (Germany)



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



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



Fujitsu General Commercial Air Conditioning Italia S.p.A. (Italy)



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



Fujitsu General New Zealand Ltd. (New Zealand)



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



Fujitsu General Solution Centre "The Airstage" (U.S.A.)



Fujitsu General Do Brasil Ltda.(Brasil)



Fujitsu General (India) Private Limited



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

PROJECT REFERENCES

Our products are popular due to their high quality, energy saving functionality and design for easy installation. They have been utilised in a wide range of building types including high rise office buildings, retail, hotels, public facilities, schools, hospitals and residential applications.



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


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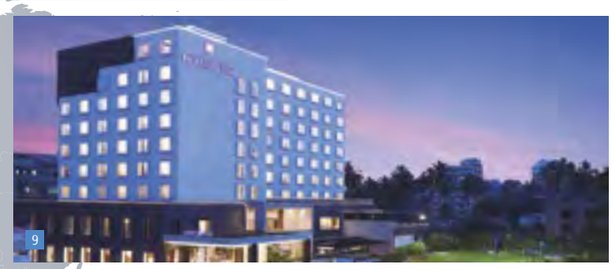

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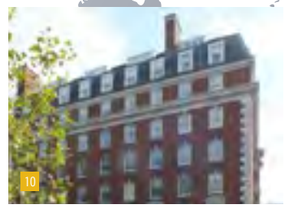


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For LIGHT COMMERCIAL

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

For COMMERCIAL

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

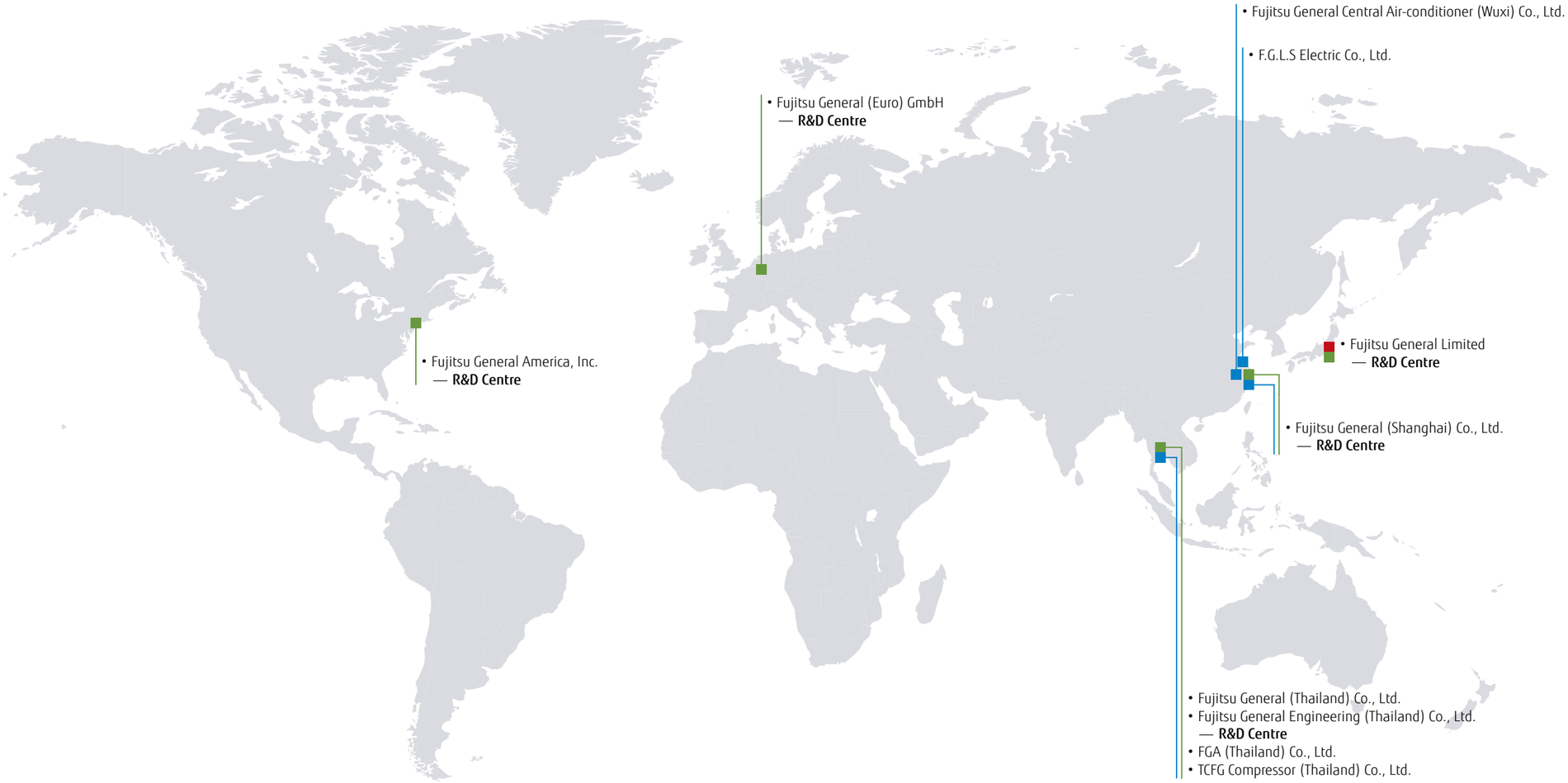
For RESIDENTIAL

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

GLOBAL DEVELOPMENT AND PRODUCTION BASES

Research and Development centres are set up in five countries around the world including Japan, Europe, Asia, China and North America. Globally we aim to provide customers with high quality and performance tested products to meet the comfort needs of each country.

- Head Office
- R&D Centre
- Manufacturing Companies



R&D Centre & Technology Research Building


R&D Centre in Fujitsu General (Shanghai)


R&D Centre in Fujitsu General Engineering (Thailand)


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


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


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

Technology Research Building
in Japan Head Office



Overseas Manufacturing Companies


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


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


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


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


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



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


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

HIGH QUALITY DEVELOPMENT AND PRODUCTION

Fujitsu General is one of Japan's leading air conditioning manufacturers with an R&D Centre in Japan.
We aim to provide customers with high quality and performance tested products.

Advanced Research Facility and Equipment

Performance Testing



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



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



Anechoic Chamber
Measures the operating sound characteristics of air conditioners within a purpose built room deigned to acquire precise readings.

Reliability Testing



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



Practical Test Room
Evaluates the air conditioners performance under actual installation conditions.



Water Injection Testing Room
Evaluates whether the electrical box of the outdoor unit is protected by rain waters with Typhoon like wind.

Transportation & Handling



Compressibility testing



Vibration testing



Technology Research Building
in Japan Head Office

Testing Laboratory

Fujitsu General EMC Laboratory Limited







60m Height Difference Testing Tower

Objective is to confirm oil circulation of compressor for reliability



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

FACILITIES

Acquisition of ISO 9001 and ISO 14001



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

High Product Quality Assurance

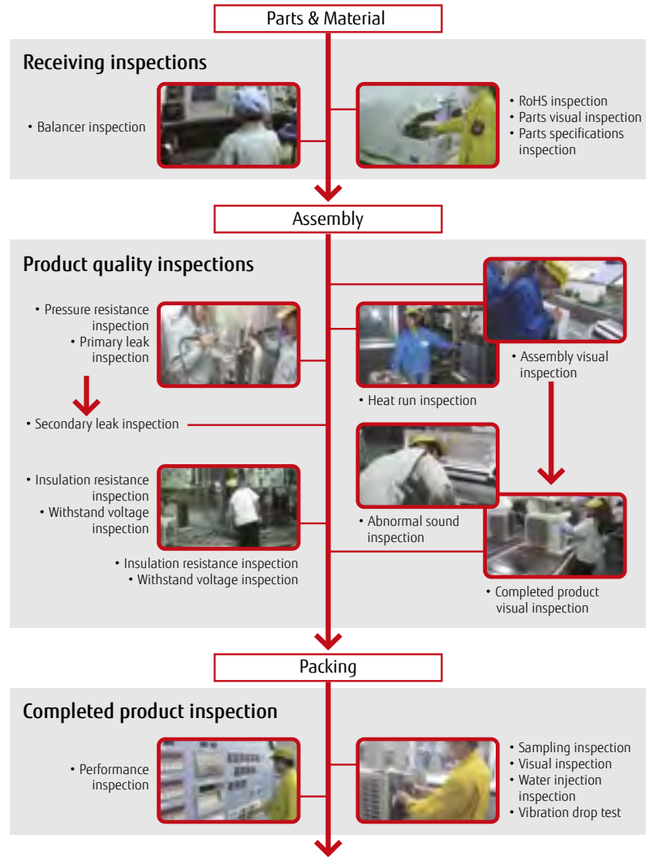
All Fujitsu General factories have acquired ISO 9001, and have built a quality control system common around the world. This ensures high quality products are offered through consistent and stringent quality inspections.

Receiving inspection

Parts procurement requires a supplier's test report. European regulation RoHS inspection is also performed by a special test department in house. There are a number of inspections performed especially on main parts to ensure the identification and removal of any defects.

Stringent product quality inspection

High quality is maintained through stringent quality inspections which are carried out at each stage of the production process.



SUPPORT

Our support offering methodology is focused on total support. From the stages of design, installation and commissioning through to after sales support.

AIRSTAGE™ SUPPORT

AIRSTAGE™ / RAC SUPPORT TOOL

QUICK SERVICE AND MAINTENANCE

SERVICE TOOL

WEB MONITORING TOOL

Category	Information Material													Tool			
	Product Sales Training Material	Product Technical Training Material	Product News	Brochures	Feature Promotion Movie	Operating Manual	Design & Technical Manual	Certificate Data	2D CAD Data	3D CAD (Revit) Data	Installation Manual	Service Manual	Design Simulator (RAC, PAC, VRF)	CFD Simulation	Service Tool / Web Monitoring Tool	Mobile Technician
Product Training	●	●														
Product Information			●	●	●	●	●									
Technical Information							●	●								
Model Selection							●						●			
Design							●		●	●						
Verification														●		
Installation							●				●					
After Sales and Service												●			●	●

AIRSTAGE™ SUPPORT

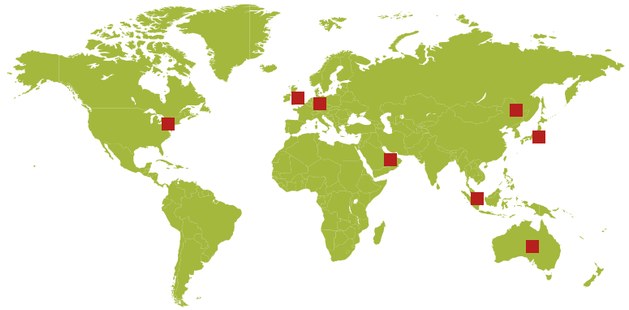
Fujitsu General provides a variety of product and technical information to engineers and consultants.
We also conduct new product research and design support activities.
We provide a wide range of support to maintain high quality from design to installation.

Training

Fujitsu General has many training facilities around the world that regularly conduct specialised product, technical, and service training. These research facilities also support the development of people to ensure high technical capability.

Features

- Designing AIRSTAGE™ Systems
- Control systems on site training




Head Office Training Centre: Japan


Europe Training Centre: Germany


Europe Training Centre: U.K.


America Training Centre: U.S.A.


China Training Centre: China


Asia Training Centre: Singapore


Middle East Training Centre: UAE


Oceania Training Centre: Australia

Technical information

We provide information and tools that are useful for air conditioning system design, such as unit performance data and tools that make model selection and estimation easy.

Features

- Design and Technical Manual
- Model Selection and Estimation
- Certificate Data
- 2D / 3D CAD Data



Product information

New product information is provided in the form of documents for every new model released. These can be downloaded from a private section of our website. To access this website, please contact your Fujitsu representative.

Features

- Product News
- Brochures and all Manuals
- Feature / Promotion Movie

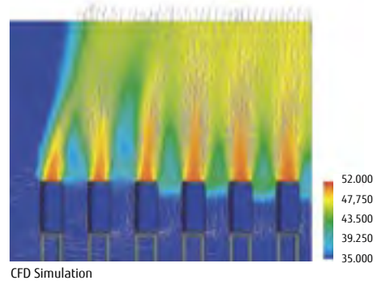


Technical support

Technical support is provided at every stage from design to installation to assist in providing the most suitable air conditioning solution.

Features

- CFD Simulation
- Commissioning Support



CFD Simulation


Commissioning Support

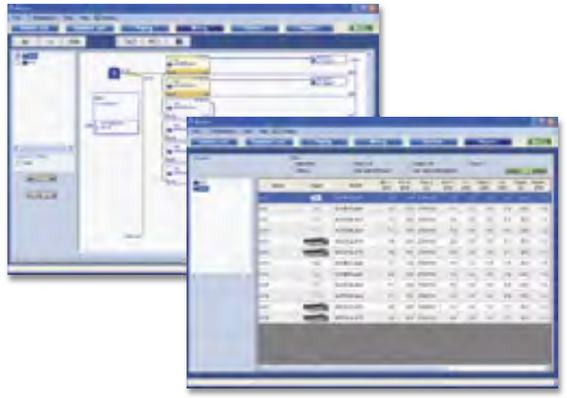
AIRSTAGE™ / RAC SUPPORT TOOL

Put the charts and pens away and design your projects on your computer with ease using the Design Simulator.
Everything from selecting indoor and outdoor units, allocating controls and optional parts to designing the piping and wiring systems is made easier using the program's built-in features.
Once your project is designed, take advantage of the Export functions to easily get materials lists, product specifications, refrigerant calculations and more. You can even export to Word, Excel, or Acrobat formats and group the relevant CAD data for your project.

Design Simulator

Automatically create model selection information

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



Output the format that matches the application

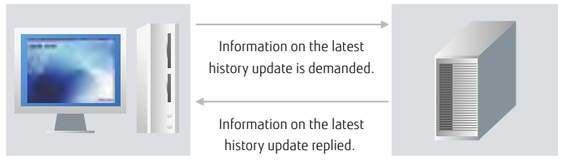
The information specific to your project can be exported in a number of industry standard file formats.

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



Update your Design Simulator

The database can be easily updated online using Auto Update function through FTP.



BIM Building Information Modeling

Fujitsu General provides the Building Information Modeling (BIM) object models and content for our VRF systems and other products for architects, designers and contractors using Autodesk® Revit® technology from our Website and Autodesk® Seek Website etc.

3D and 2D product data

We provide 3D data for our products. 2D CAD design operations are supported and 2D display is also provided. The data can also be output in other formats, such as DXF and DWG, which are used by other design CAD design programs.



Installation limitation

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



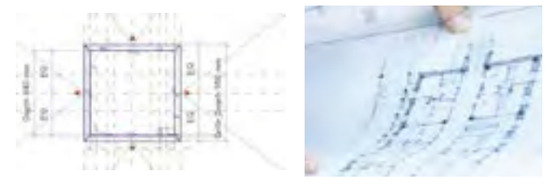
Update your Design Simulator

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



Product specifications and link information

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



QUICK SERVICE AND MAINTENANCE

If an error should occur on a unit or system, there is an abundance of support tools such as trouble code display on the product. The VRF Service Tool allows checking of the detailed status for the entire system, and a remote monitoring tool that uses the internet meaning support, quick service and maintenance is available anywhere and at any time.

Mobile troubleshooting tool for smart phones



Mobile Technician, our Service Support app, can be used for error code checking, obtaining service instructions, troubleshooting and sensor checking information for our RAC, PAC and VRF ranges.

The Mobile Technician app is available free of charge for compatible devices.



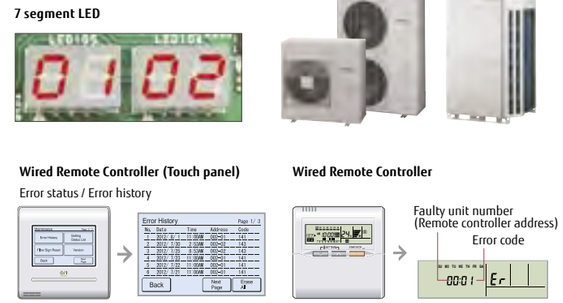
Mobile Technician FREE

Easy maintenance and monitoring

Design for easy maintenance

The air conditioner operating status and trouble status are viewable on the 7 segment display of the outdoor unit PCB or on the remote controller screen.
The unit status can be checked efficiently enabling a quick response.

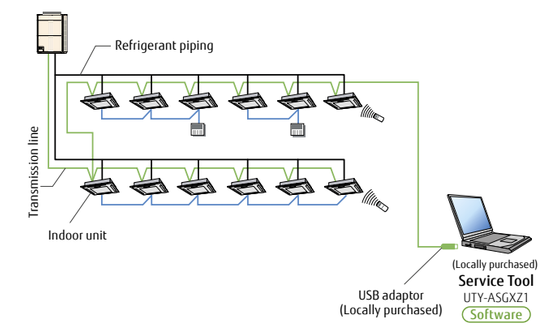
- Operation mode status
- Discharge temperature / Pressure status
- Compressor operation indication
- Address / Type / Number of outdoor units
- Error code



Error diagnosis with the Service Tool

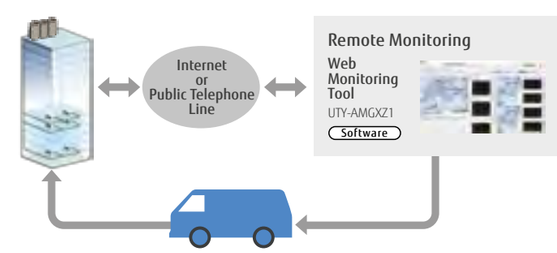
The unit status details for the VRF system can be checked on a PC screen by connecting to the Service Tool.
A quick analysis can be made. Viewable parameters include:

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



Remote monitoring

VRF system operating status and error status details can be constantly monitored over the Internet.



SERVICE TOOL

Extensive monitoring and analysis functions for installation and maintenance

- Operation status can be checked and analysed to detect even the smallest abnormalities
- Service Tool can be used to log system operation for further analysis off site
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
- This software can be connected to any point of transmission line with USB adaptor (locally purchased)

* The saved data can be displayed offline. However, the data saved by the following model cannot be displayed.
- UTR-YSTB / UTR-YSTC (Service Tool)
- UTR-YMSA (Web Monitoring Tool)

Automatic operation check for refrigeration cycle

After product installation, an operation check can be performed automatically. Self diagnosis functionality automatically judges whether each sensor value is normal, saving time and workload. The diagnosis can also be output as a report.





Note : Use only as a guide

Whether each sensor value is normal is judged automatically.

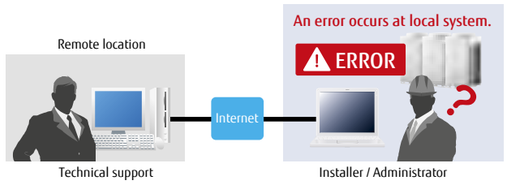
- Discharge temperature normal value OK
- Super heat volume normal value OK
- High pressure pipe normal value OK
- Low pressure pipe normal value OK

etc.



Remote technical support and maintenance

On site the service tool's screen can be shared with support personnel in a remote location. When visiting a site for troubleshooting, operation status can be shared in real time making assistance easy. The online chat function helps to support on site staff.



Various trend graphs are displayable

Previously, only 3 graphs could be viewed simultaneously, now multiple graphs can be displayed on the new Service Tool depending on the requirements.



Personal computer system requirements

	UTY-ASGXZ1
Operating system	• Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	• 1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Display	1366 x 768 or higher resolution
Interface	• 2 USB ports - 1 USB port is required for software protection key connection - 1 USB port is required for Echelon® U10 USB Network Interface
Software	Internet Explorer® 11 or Microsoft Edge / Adobe® Reader® 9.0 or later

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

<PACKING LIST>

Name and shape	Quantity	Application
WHITE-USB-KEY (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products run only on a PC with WibuKey.

•Personal computer that satisfies the following system requirements

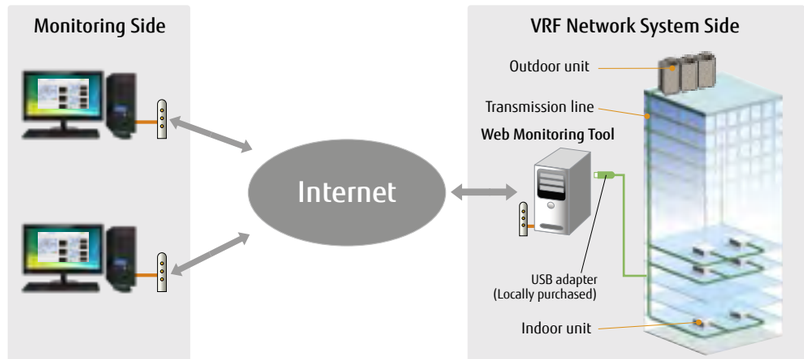
WEB MONITORING TOOL

Product features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks
- Error notification can be automatically transmitted to several locations using the internet *1
- Requires either a dedicated internet connection or public telephone line
- Identification of an error is possible via error warnings and equipment status information obtained from a remote location
- The system data can be downloaded remotely. This data can be viewed in the offline mode of the service tool
- The PC being used to monitor equipment isn't required to install special software as access is via a general web browser

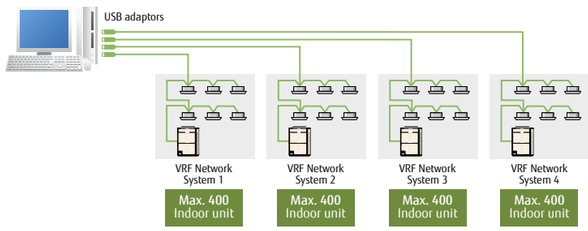
*1: Use of internet mail system required.

Web Monitoring System



Support 4 VRF network systems

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



Personal computer system requirements

	UTY-AMGXZ1
Operating system	• Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	• 1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Display	1366 x 768 or higher resolution
Interface	• 2 USB ports - 1 USB port is required for software protection key connection - 1 USB port is required for Echelon® U10 USB Network Interface per VRF wiring network (max 400 indoor units, 100 outdoor units) Up to 4 Echelon adapters may be required if there are multiple VRF Wiring networks on site. 1 x Echelon adapter per wiring network, max 4 x wiring networks.
Software	Internet Explorer® 11 or Microsoft Edge / Adobe® Reader® 9.0 or later

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

<PACKING LIST>

Name and shape	Quantity	Application
WHITE-USB-KEY (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products run only on a PC with WibuKey.

•Personal computer that satisfies the following system requirements

FUJITSU COMMUNITY

SPORTING CHANCE

Fujitsu General Australia is extremely proud to be a major sponsor of the Sporting Chance Cancer Foundation.

Established in 1996 by a number of high profile Australian sports men and women, including Fujitsu General's longstanding ambassador Mark Taylor, Sporting Chance is a not-for-profit organisation that helps provide home support and care to children with cancer.

To date, Fujitsu General has donated more than $8.5M to this worthy cause, with a percentage of sales from Fujitsu's air conditioning units going towards the funding of outreach programs and exploring better ways to treat and overcome cancer.

This support has enabled the Sporting Chance Cancer Foundation to fund nurses across Australia allowing children to receive improved cancer care closer to home. This funding also allows for remote treatment and care for families, and considerably reduces the time spent travelling to and from the nearest hospital, which could be thousands of kilometres from home.

Sporting Chance initiatives allow families to spend more quality time at home together, while still having access to the correct care for their child.

Fujitsu General is dedicated to the ongoing support of the Sporting Chance Cancer Foundation and its commitment to improving the cancer care available for children, as well as research and new treatment developments.

SPORTING CHANCE
CANCER FOUNDATION



SATISFACTION FOR ALL CUSTOMERS

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ISO 14001 Certified number: 01 104 9245

Fujitsu General (Shanghai) Co., Ltd.

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

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

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

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- Specifications and design are subject to change without notice for future improvement.
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Variable Refrigerant Flow System

AIRSTAGE™

HEAT PUMP & HEAT RECOVERY

VRF CATALOGUE



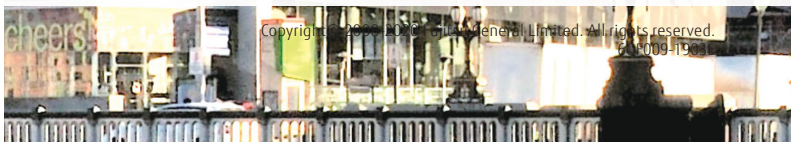
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