

AIRSTAGETM



VRF

Variable Refrigerant Flow System

CATALOGUE

HEAT PUMP

CREATION OF COMFORT

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



For LARGE BUILDING



Heat Pump Modular type for heating or cooling operation



Production by order

8 HP - 54 HP 39 Models

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

P30~



Heat Pump Modular type for heating or cooling operation



8 HP - 42 HP 18 Models

- Space saving combination: 8 HP to 42 HP/15 models
- Energy efficiency combination: 24 HP to 28 HP/3 models

P36~



For SMALL BUILDING

NEW



Heat Pump type for heating or cooling operation



4 HP - 6 HP 6 Models

- Single phase: 4 HP to 6 HP/3 models
- 3 phase: 4 HP to 6 HP/3 models

P42~

CONTENTS

OUR SOLUTION FOR ALL PROPERTIES	4
2017 NEW PRODUCTS	6
Light Commercial Solutions	8
Commercial Solutions	10

AIRSTAGE™ CORE TECHNOLOGY

HIGH ENERGY EFFICIENCY	14
HIGH RELIABILITY	16
DESIGN FLEXIBILITY	18
MORE COMFORT	20
EASY INSTALLATION	22
EASY SERVICE & MAINTENANCE	24

AIRSTAGE™ SERIES

AIRSTAGE™ LINE-UP	28
HEAT PUMP TYPE AIRSTAGE™ V-III TROPICAL series.....	30
HEAT PUMP TYPE AIRSTAGE™ V-II TROPICAL series.....	36
HEAT PUMP TYPE AIRSTAGE™ J-III TROPICAL series	42

AIRSTAGE™ INDOOR UNITS

INDOOR UNITS LINE-UP	48
4-way Flow Compact Cassette	50
4-way Flow Cassette	52
Mini Duct	56
Slim Duct / Slim Concealed Floor	58
Medium Static Pressure Duct	60
High Static Pressure Duct	62
Large Airflow Duct	66
Floor / Ceiling	68
Ceiling	70
Wall Mounted (EEV Internal / external)	72

AIRSTAGE™ CONTROL SYSTEMS

BEST CONTROL SOLUTION FOR EACH PROPERTY.....	78
CONTROL SYSTEM OVERVIEW	80
COMPARISON TABLE OF CONTROLLERS	82
• Individual Controller	84
• Centralized Controller	90
• Converter / Adaptor	100

VENTILATION

Energy Recovery Ventilator	110
Outdoor Air Unit	112
DX-Kit for air handling applications	114

AIRSTAGE™ OPTION

Auto Louver Grille Kit	117
OPTIONAL PARTS LIST	118
OPTIONAL PARTS	120

ABOUT US

OUR HISTORY	128
GLOBAL NETWORK	130
HIGH QUALITY DEVELOPMENT & PRODUCTION FACILITIES	132
PROJECT REFERENCE	134

SUPPORT

AIRSTAGE™ SUPPORT	138
AIRSTAGE™ / RAC SUPPORT TOOL	140
QUICK SERVICE & MAINTENANCE	142
SERVICE TOOL	144
WEB MONITORING TOOL	145

OUR SOLUTION FOR ALL PROPERTIES

Fujitsu General provides the best solutions suitable for properties.

Solution Point

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



PROPERTY

Target Property



RESIDENTIAL & LIGHT COMMERCIAL

For Apartment, Villa and Shops etc.

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



COMMERCIAL

For Large Building

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



2017 NEW PRODUCTS

Small VRF AIRSTAGE™ J-III TROPICAL series



- 36 to 54KBTU class, 1-phase & 3-phase 6 models
- Compact Design
- High energy efficiency with All Inverter Technology
- Flexible Design with Total Piping Design of 180m



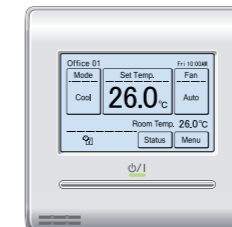
NEW
AIRSTAGE™ J-III
 TROPICAL series



Individual Control

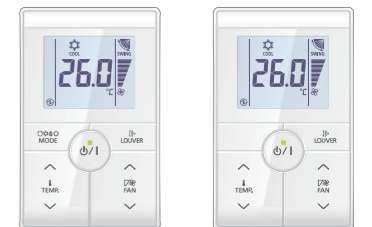
Wired Remote Controller (Touch Panel)

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



Simple Remote Controller

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



Centralized Control

Touch Panel Controller

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



System Controller Software

System Controller Lite Software

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.*
- Simple BMS, 3rd party supported by Modbus communication can be controlled.

*: System controller lite = Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.



Converter / Adaptor

Various Convertors

- 4 models of hardware and software are put on the market all together.

BACnet® Gateway

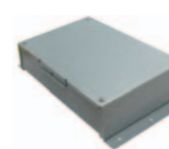


Software



Hardware

KNX® Convertor
For VRF



External Switch
Controller



Service & Maintenance Tool

Service Tool & Web Monitoring Tool Software

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



APARTMENT, VILLA

Fujitsu General offers the small VRF system to match from large living rooms to bedrooms for apartment and villa.



Space saving installation

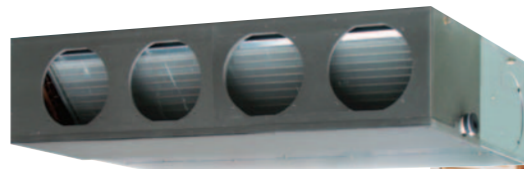
Space saving
Mini duct type with 198 mm height and 450mm depth. This can be installed in narrow ceiling space easily.



Mini Duct



APARTMENT



Medium Static Pressure Duct

Large space air conditioning in the dining and living room

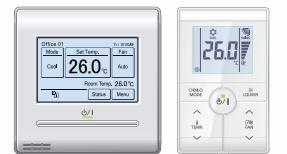


Comfortable dining air conditioning with powerful airflow



Large Wall Mounted

Easy operation and various energy saving control



VILLA



Large space air conditioning in a family room



High Static Pressure Duct

Small space air conditioning

Various ranges of low capacity indoor units to suit small space such as a guest room



Compact Wall Mounted



LARGE BUILDING

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

Individual air conditioning system for large buildings

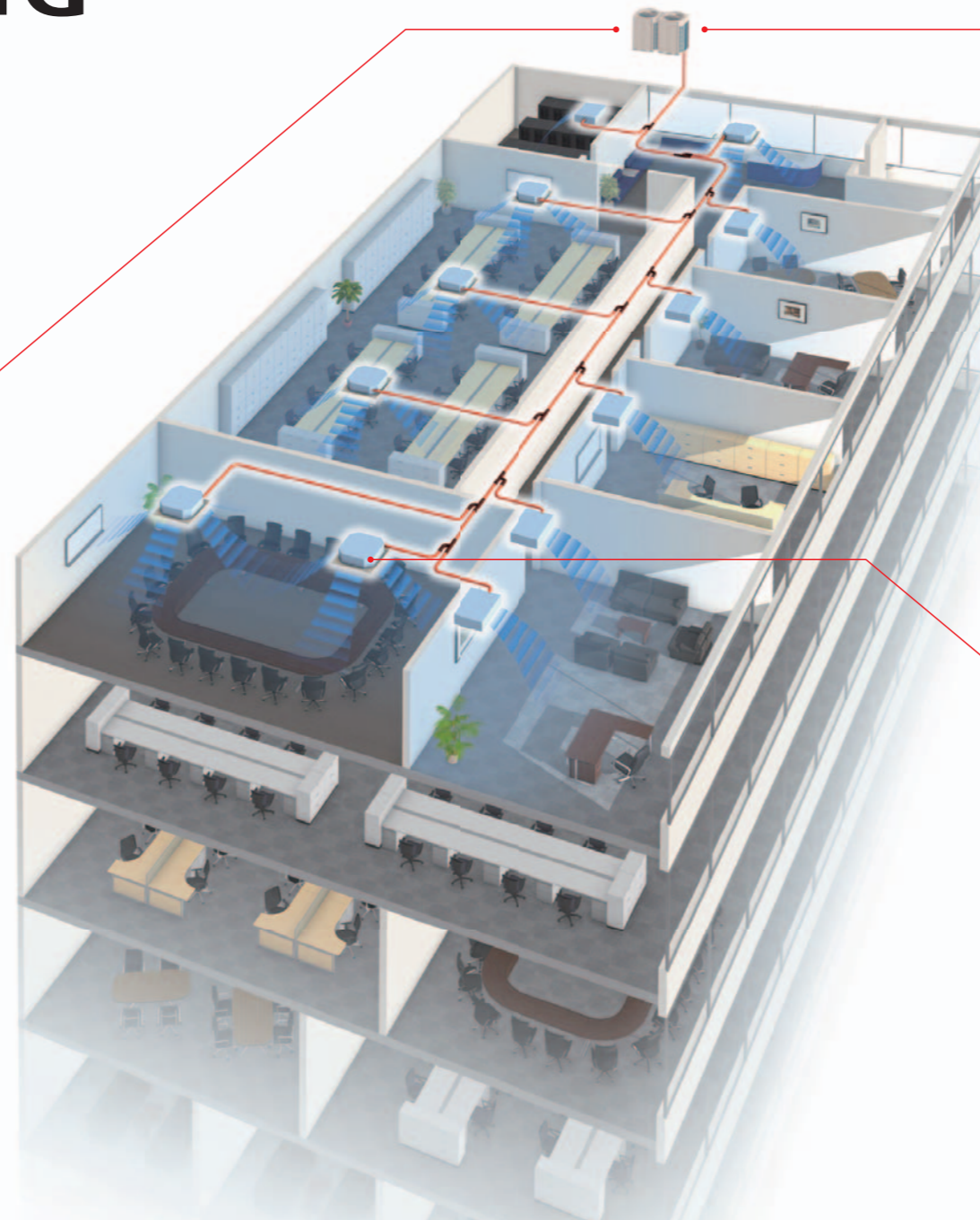
VRF series lineup to meet various needs such as energy saving-orientated models and models compatible with a high outdoor air temperature of 52°C



- 8 HP - 54 HP 39 Models**
- Space saving combination: 8 HP to 54 HP / 24 models
 - Energy efficiency combination: 16 HP to 46 HP / 15 models

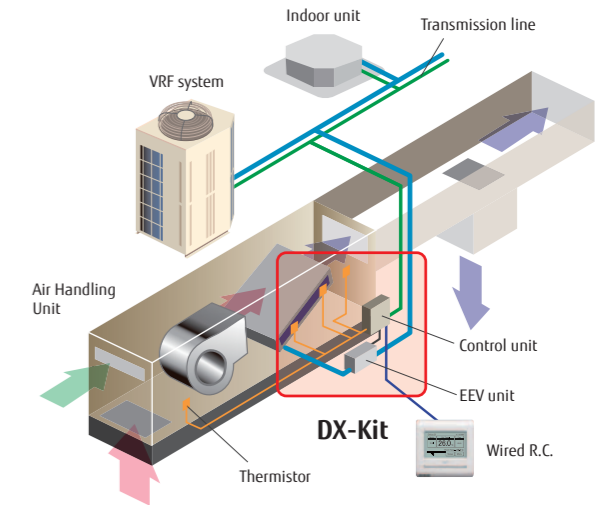


- 8 HP - 42 HP 18 Models**
- Space saving combination: 8 HP to 42 HP / 15 models
 - Energy efficiency combination: 24 HP to 28 HP / 3 models



Ventilation(AHU) linked with VRF system

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

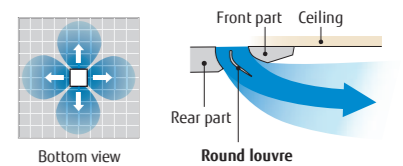


4-way Flow Cassette



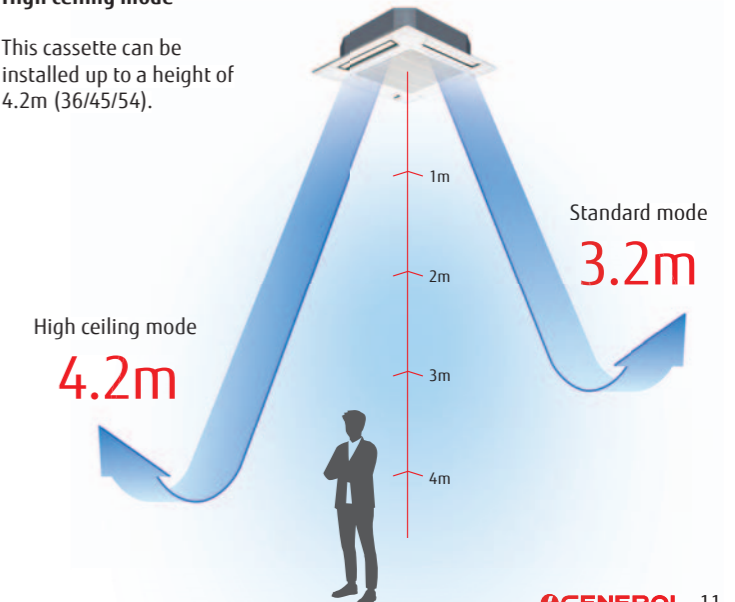
Improvement of the airflow distribution

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



High ceiling mode

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



Centralized control of both air conditioning and lighting

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

NEW
System Controller Lite





AIRSTAGE™ CORE TECHNOLOGY

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



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

HIGH ENERGY EFFICIENCY

HIGH RELIABILITY

DESIGN FLEXIBILITY

MORE COMFORT

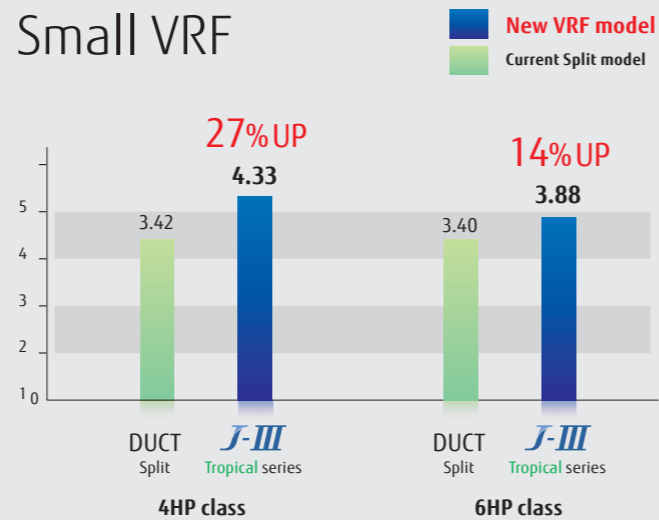
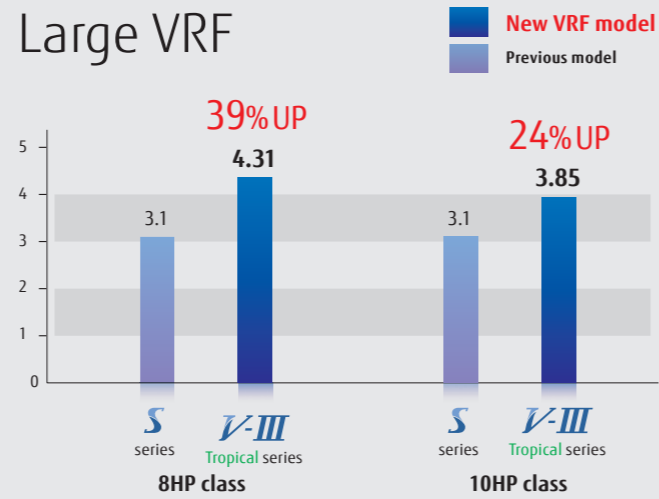
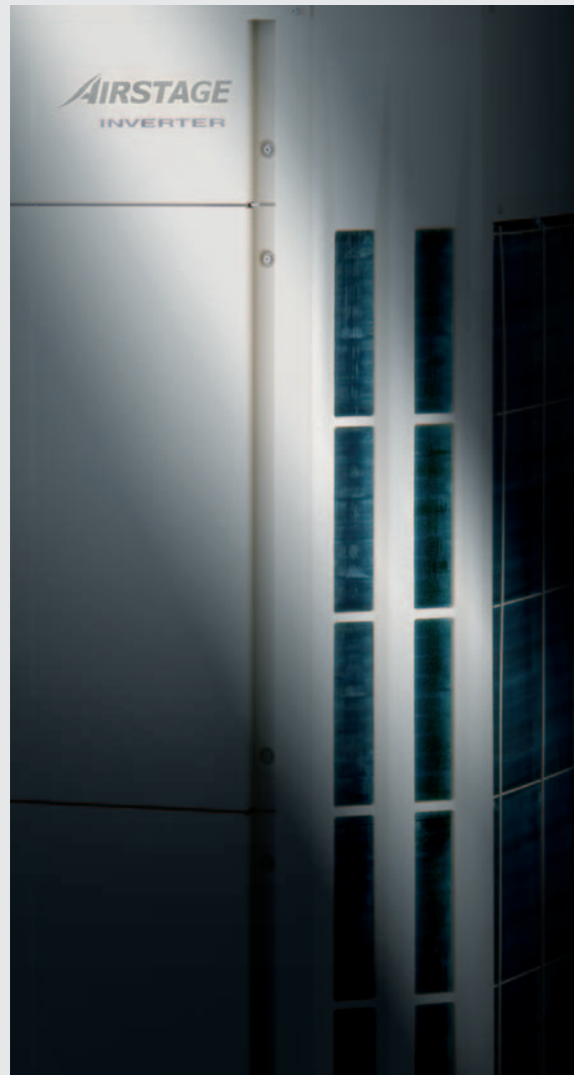
EASY INSTALLATION

EASY SERVICE & MAINTENANCE

HIGH ENERGY EFFICIENCY

Highly Energy Efficiency

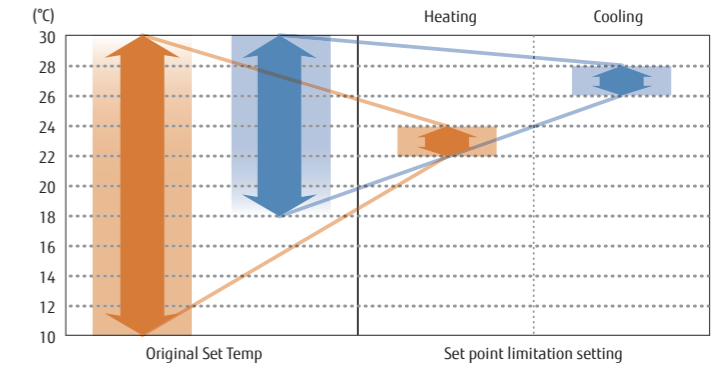
Significantly efficiency is improved by using DC twin rotary compressor, inverter technology, and large heat exchanger.



Operation Performance is Efficiently Controlled.

Room temperature set point limitation

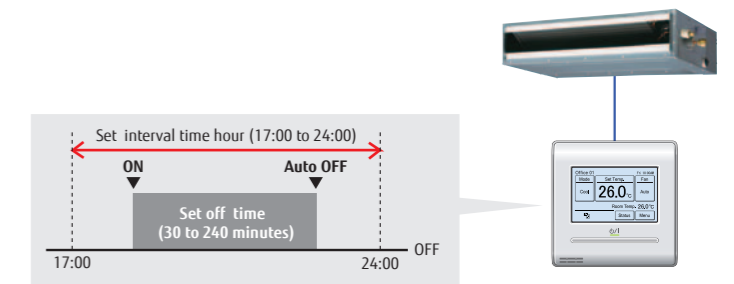
The minimum and maximum temperature ranges can be limited, which provide further energy saving while maintaining the comfort of the occupants.



Auto-off timer

New wired remote controller is equipped with an OFF timer function that automatically stops operation when a fixed time has elapsed from the start of operation. This prevents waste of energy.

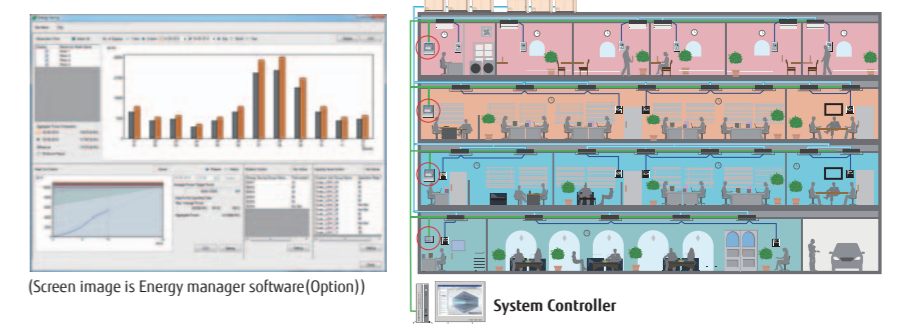
Furthermore a new wired remote controller can set up the interval of time in case operation stops.



Energy saving management

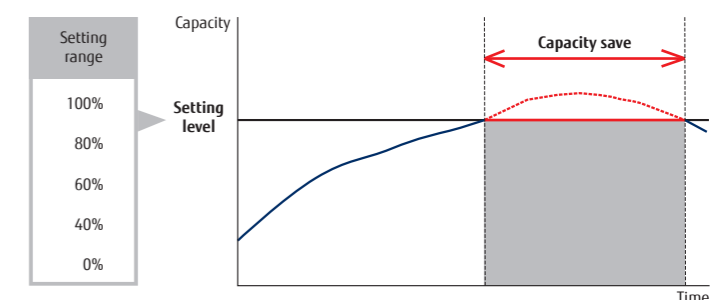
A variety energy saving operations can be set and managed depending on the season, weather, and time period.

Excellent energy saving operation is performed by using System Controller.



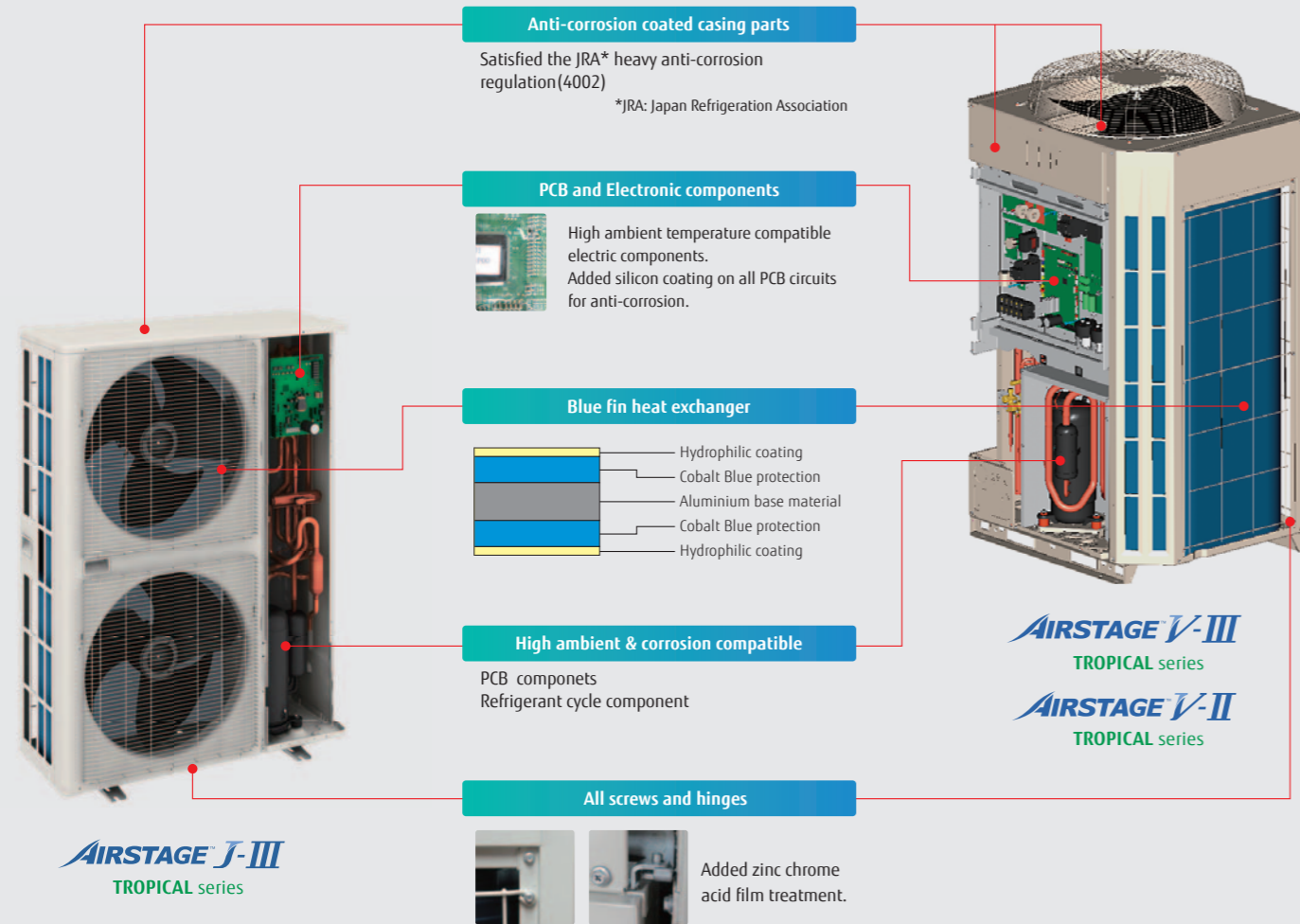
Capacity save operation

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



HIGH RELIABILITY

Heavy anti-corrosion treatment design

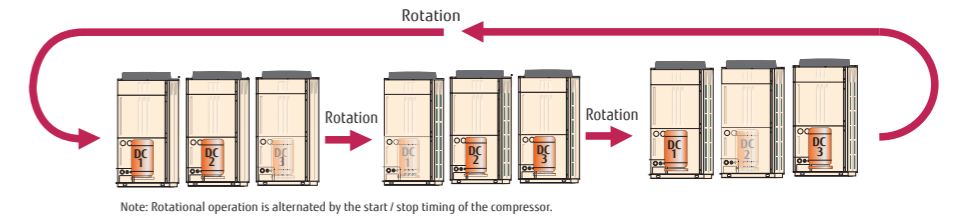


Take special notice of the following in order to enhance the anti-corrosion effect.

- Keep the unit free of direct sea breeze as much as possible by installing a windshield plate or placing the unit on the leeward side of the building.
- Arrange the unit so that any salt attached to the enclosure can be washed away by rain.
- Any water left on the bottom of the outdoor unit can increase corrosion. To prevent interference with the water drain, be careful of the tilting angle of the unit.
- Wash the enclosure regularly with water to remove any salt attached.
- Repair any damages on the unit (i.e. scratches) caused during installation or maintenance.
- Check the condition of the unit regularly. (If necessary, retreat the unit for anti-corrosion or make parts replacements.)
- Make sure the drainage is secured at the foundation.

Life-extending operation

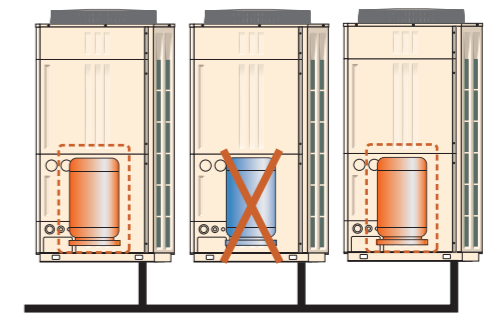
Outdoor unit rotational operation
The compressor starting order is rotated so that the running time is shared.



Backup operation

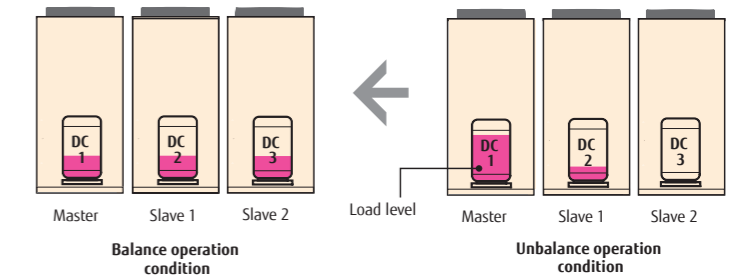
If one compressor fails, backup operation will be performed by the remaining compressors*.

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



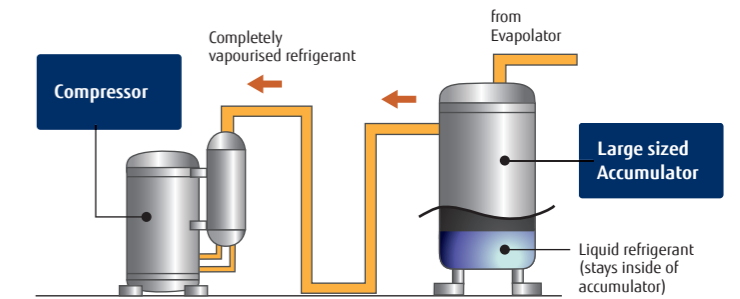
Advanced refrigerant control

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



Liquid flow back protection

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



Oil Recovery operation

Periodic oil recovery operation is done automatically in order to feed back oil from the indoor unit to compressor.

DESIGN FLEXIBILITY

Overall piping length 1,000m
(For V-II & V-III tropical)

Total pipe length
1,000m max.

Actual pipe length
165m
(V-III tropical)
150m
(V-II tropical)

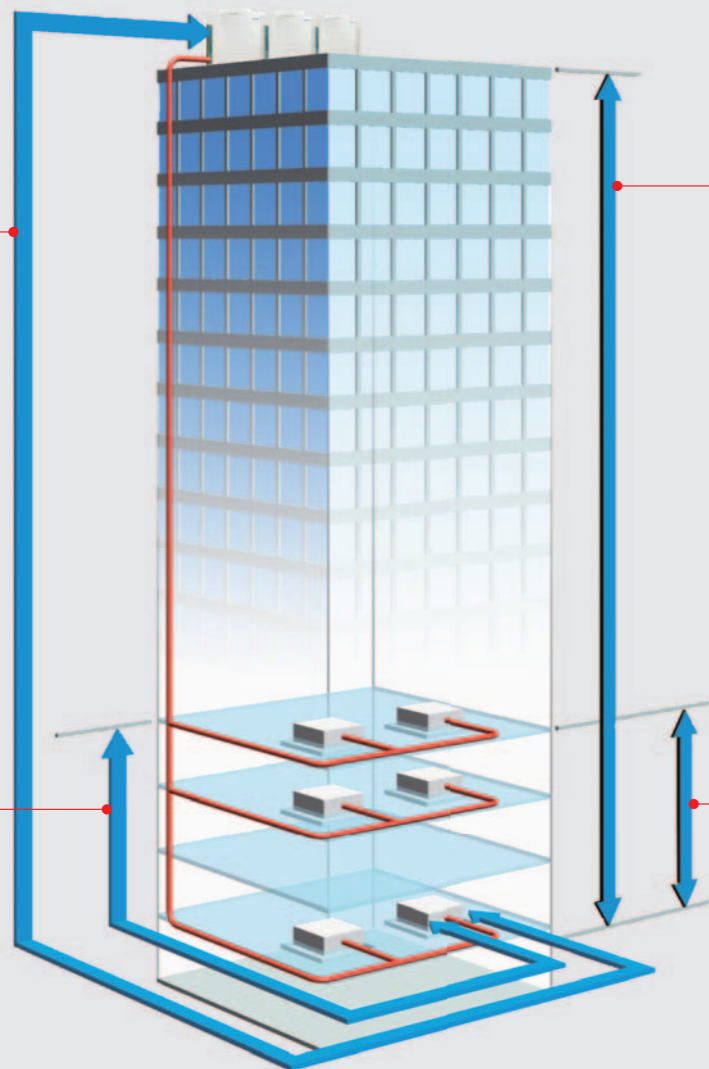
Height difference between outdoor and indoor units
50m max.
For the outdoor unit installed below the indoor units: 40m max.

Pipe length from first separation tube to the farthest indoor unit
90m* max.
(V-III tropical)
60m max.
(V-II tropical)

Height difference between indoor and indoor units
15m max.

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

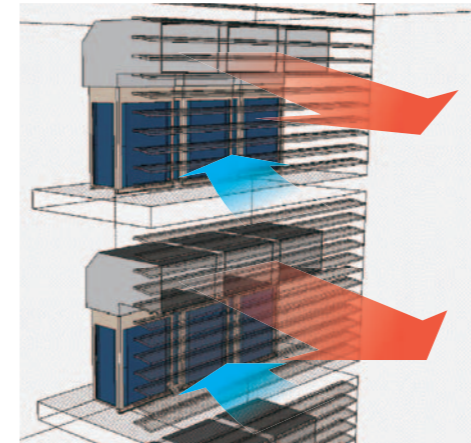
Note: J-III tropical refer to page 44.



High static pressure

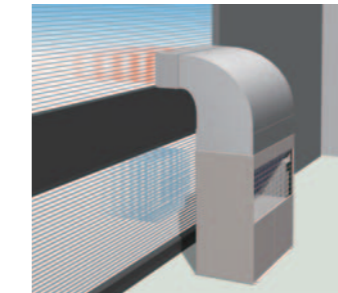
The outdoor unit can have a condenser hood easily connected with a static pressure of 80Pa to 82Pa. This allows outdoor units to be installed within plant rooms in high rise buildings.

Powerful discharge air prevents a short-circuit.

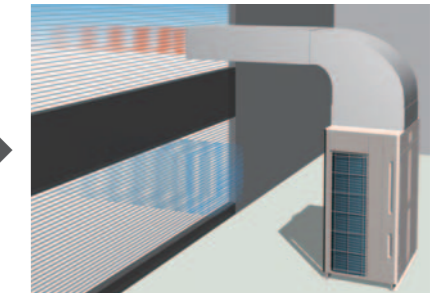


82 Pa (V-III tropical)
80 Pa (V-II tropical)

Previous model



V-III tropical, V-II tropical



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

High capacity connection

AIRSTAGE V-III TROPICAL series



8HP-54HP / 39models

Connectable indoor unit capacity range
50% to 130%

Connectable indoor unit number
up to 64

AIRSTAGE V-II TROPICAL series



8HP-42HP / 18models

Connectable indoor unit capacity range
50% to 130%

Connectable indoor unit number
up to 41

AIRSTAGE J-III TROPICAL series



4HP-6HP / 6models

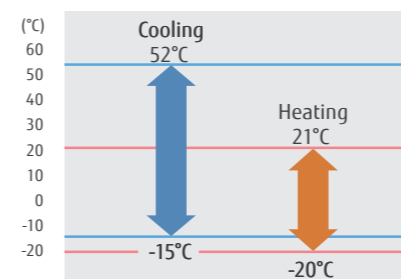
Connectable indoor unit capacity range
50% to 130%

Connectable indoor unit number
up to 9

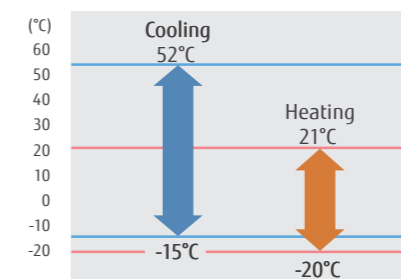
High ambient operation design

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

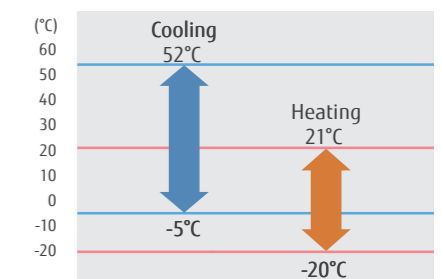
AIRSTAGE V-III TROPICAL series



AIRSTAGE V-II TROPICAL series



AIRSTAGE J-III TROPICAL series



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

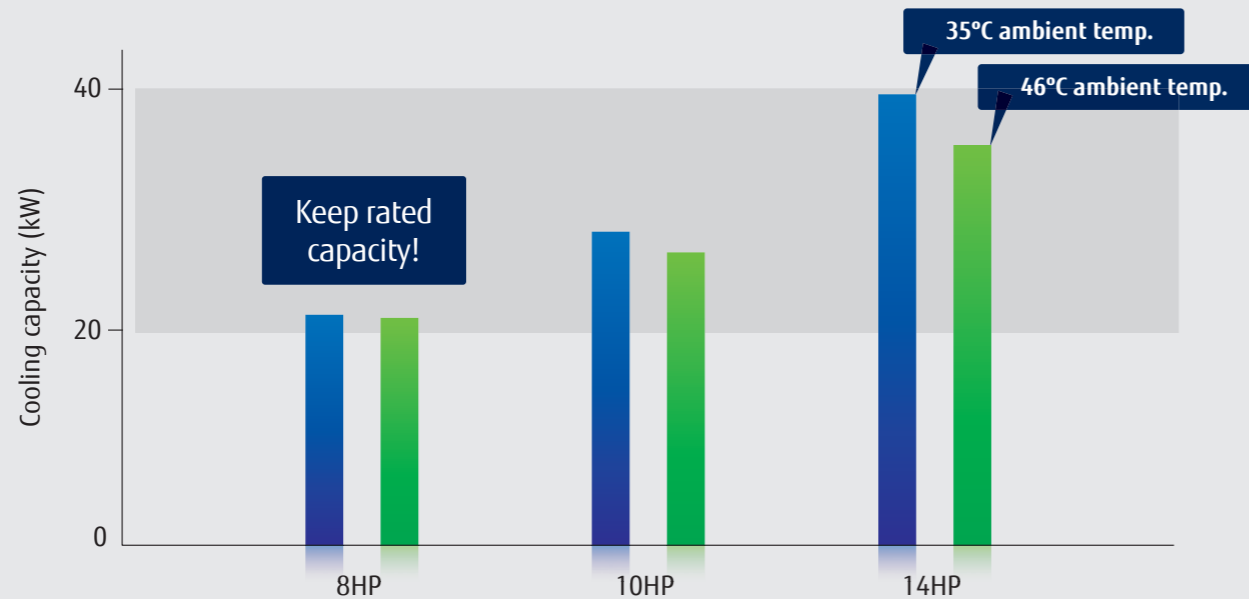
MORE COMFORT



Powerful cooling capacity design

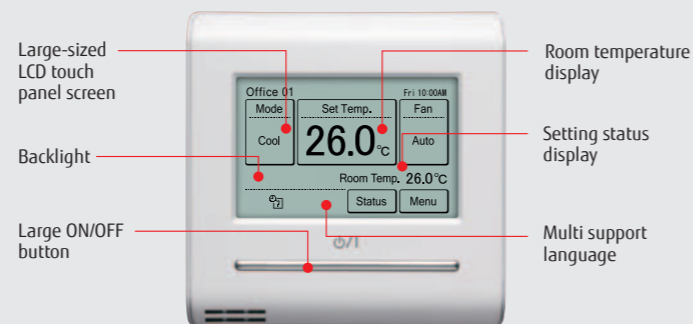


High cooling power has been realized by adopting large heat exchanger, high capacity DC inverter compressor, sub-cooler equipment, etc.



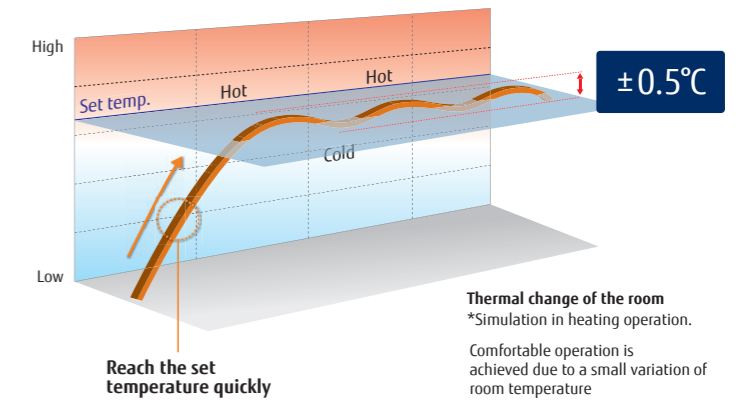
Touch Panel Wired Remote Controller

The new wired remote controller has an easy to use LCD touch panel. This new controller has a back light function and can easily control the air conditioner which provides a better energy saving operation of the air conditioner.



Precision refrigerant flow control

Precise and smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows high precision comfortable temperature control of $\pm 0.5^\circ\text{C}$.

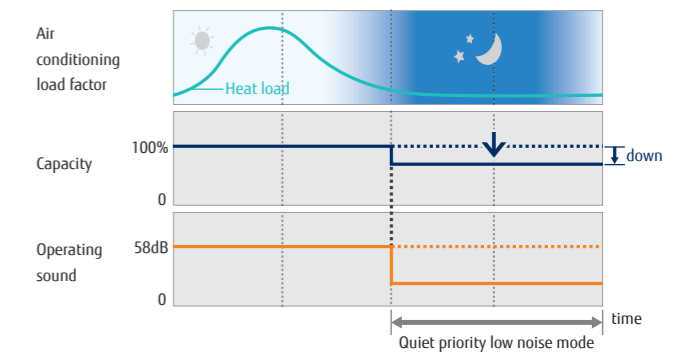


Quiet operation

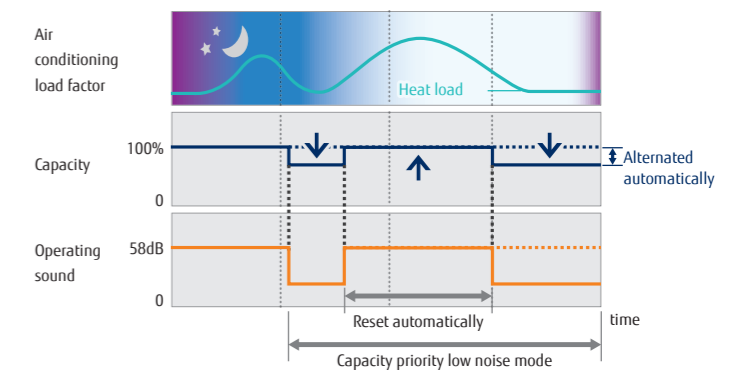
Low noise mode

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

Quiet priority setting



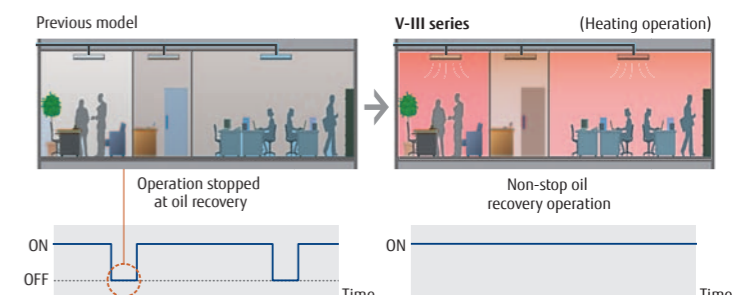
Capacity priority setting



Non-stop oil recovery operation

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

*: AIRSTAGE VR-II series is not available.

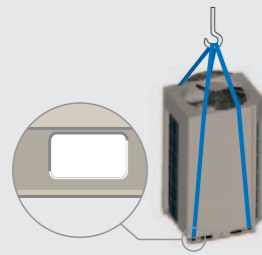


EASY INSTALLATION

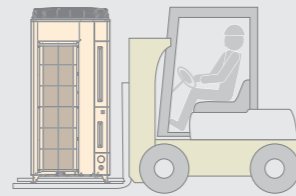


Easily transported

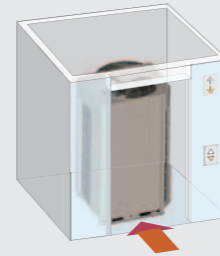
Easily craned using lifting belt hooks
Design of outdoor unit allows for lifting straps to be used



Transporting by forklift
Transport with forklift is possible.

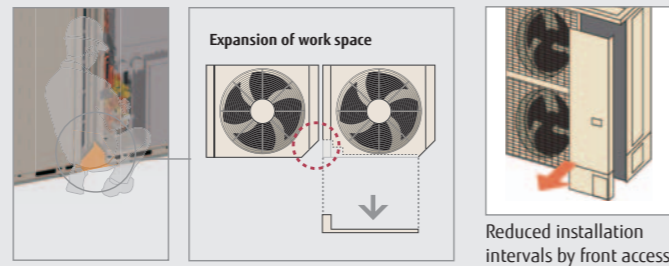


Can be transported in a small elevator



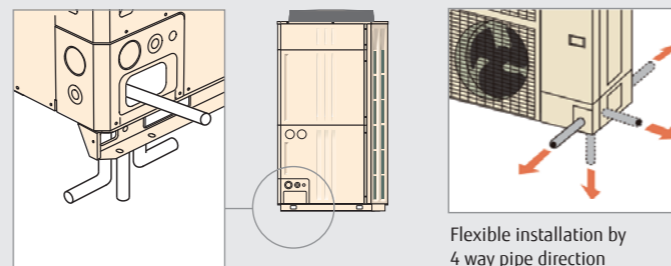
Easy access

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



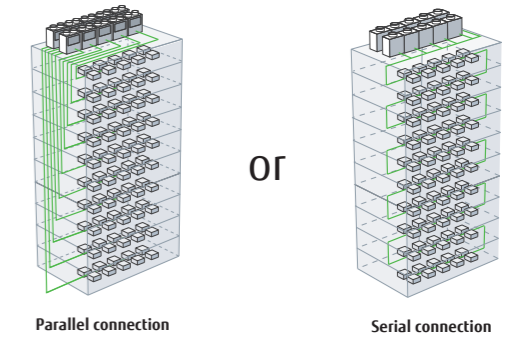
Flexible piping connection

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



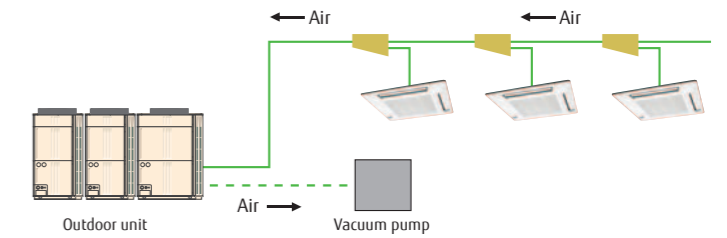
Simple wiring work

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



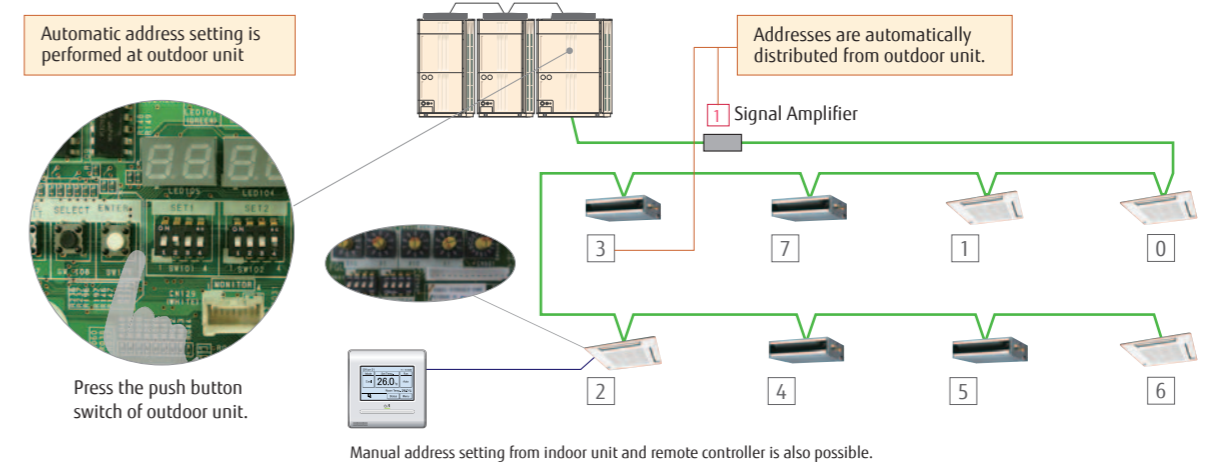
Easy evacuation - using vacuum mode function

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



Automatic address setting

The address of the indoor unit and signal amplifier can be set through the automatic function setting on the outdoor unit PCB.



Easy commissioning by Service Tool

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



EASY SERVICE & MAINTENANCE



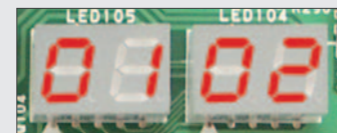
Design for Easy Maintenance

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



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

7-segment LED



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

Movable PCB panel

Easier for maintenance work behind the PCB



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

An error code is displayed on a liquid crystal screen.

Wired Remote Controller

Simple Remote Controller

Wired Remote Controller (Touch panel)

No.	Date	Time	Address	Code
1	2012/7/20	11:00AM	002-01	141
2	2012/7/20	2:53AM	002-02	143
3	2012/7/20	8:53AM	002-02	143
4	2012/7/20	11:00AM	002-01	141
5	2012/7/20	11:00AM	002-01	141
6	2012/7/21	11:00AM	002-01	141

Error status can be checked easily by outdoor unit display

LED105 LED104

E8A8 ← Error and quantity annunciation

↕

E7A8 ← Error code

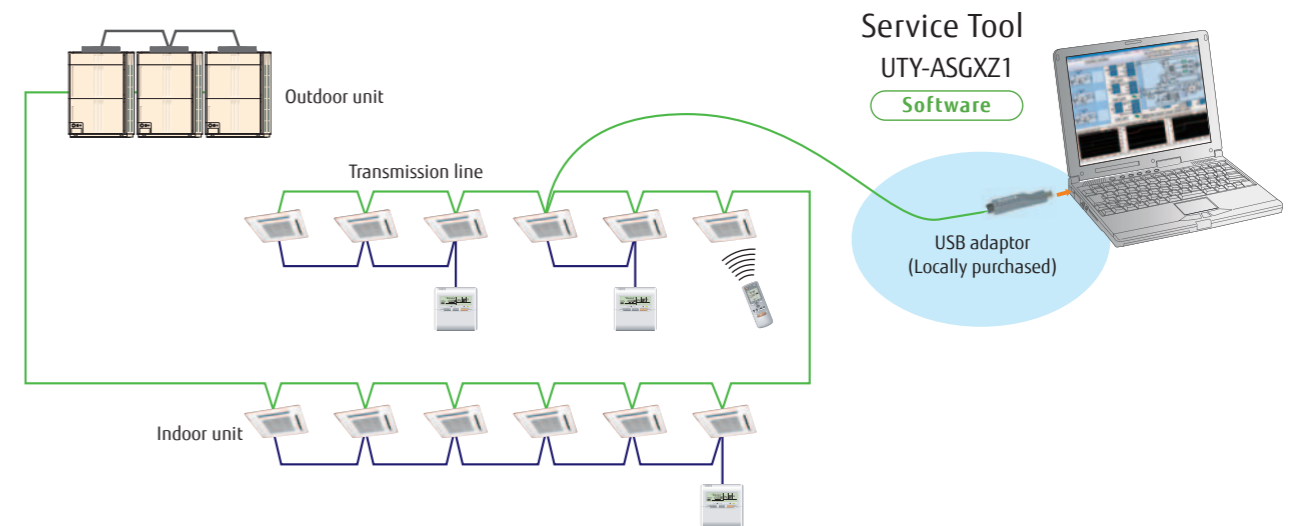
↕

A8A8 ← Abnormal indoor unit address

Error diagnosis by Service Tool

Connection to Service Tool

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

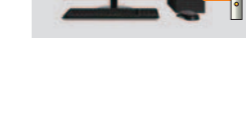
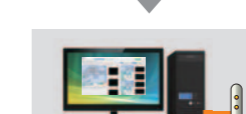
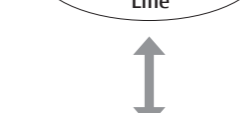
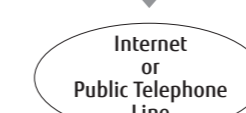


Remote monitoring

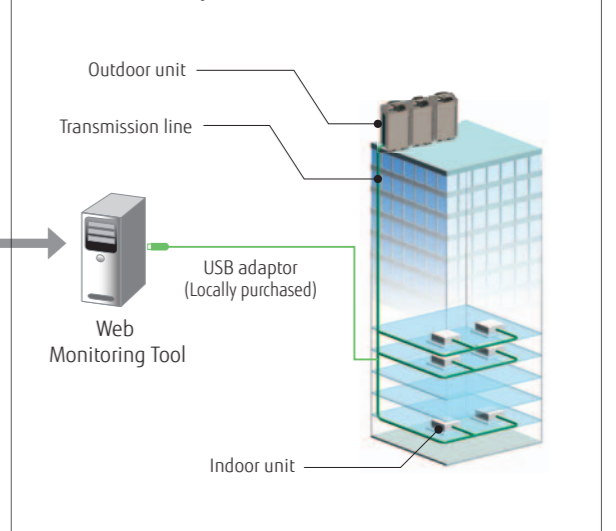
The Web Monitoring system allows you to view system operation anytime over the internet, ensuring issue free operation.

The operating VRF network system in the building can be monitored real time over the Internet.

Monitoring Side



VRF Network System Side





AIRSTAGE
INVERTER

AIRSTAGE™ SERIES

The AIRSTAGE 3 Series has a total of 60 models to meet the environmental and building size requirements.

The AIRSTAGE series outdoor units were developed with structural designs and advanced inverter technology to provide higher efficiency. High durability technology has also been incorporated to ensure long-term use.

AIRSTAGE™ LINE-UP

HEAT PUMP TYPE AIRSTAGE V-III TROPICAL Series

HEAT PUMP TYPE AIRSTAGE V-II TROPICAL Series

HEAT PUMP TYPE AIRSTAGE J-III TROPICAL Series



AIRSTAGE

AIRSTAGE™ LINE-UP

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

Outdoor units range

HP		4	5	6	8	10	12	14	16	18	20	22	24		26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	
BTU/h		36,000	45,000	54,000	72,000	90,000	108,000	126,000	144,000	162,000	180,000	198,000	216,000		234,000	252,000	270,000	288,000	306,000	324,000	342,000	360,000	378,000	396,000	414,000	432,000	450,000	468,000	486,000	
Ton		3.0	3.8	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0		19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
AIRSTAGE V-III TROPICAL series Heat Pump	Space saving																													
	High Efficiency																													
AIRSTAGE V-II TROPICAL series Heat Pump	Space saving																													
	High Efficiency																													
NEW AIRSTAGE J-III TROPICAL series Heat Pump	High Efficiency (Single phase)																													
	High Efficiency (3 phase)																													



HEAT PUMP TYPE



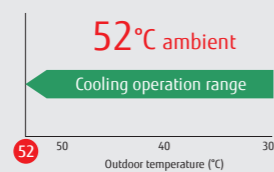
TROPICAL series

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

System Outline

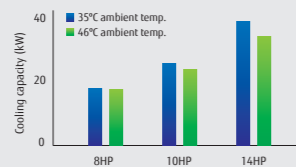
High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature



Powerful cooling capacity design

Keeping high cooling power at even high ambient temperature



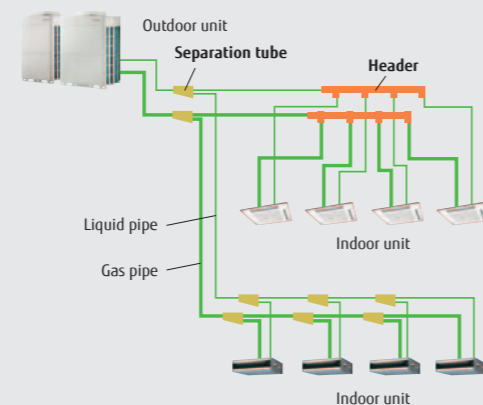
Anti-corrosion treatment design

All metallic and PCB components are protected against corrosion



System configuration example

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

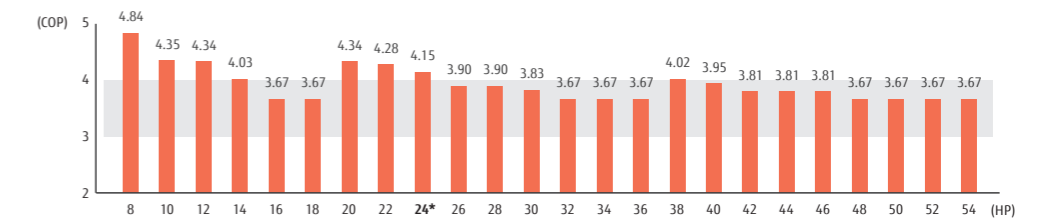


Features

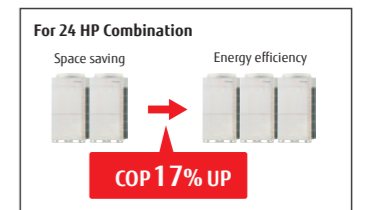
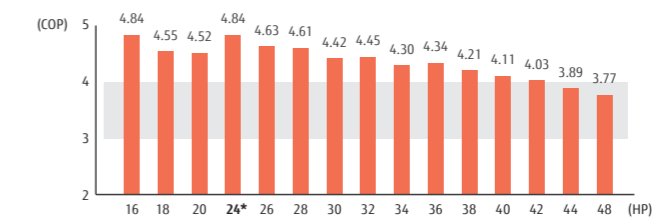
Energy efficiency

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

Space saving combination



Energy efficiency combination



Energy saving technology that boosted operation efficiency



Powerful large propeller fan

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

All Inverter



3 phase DC fan motor

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



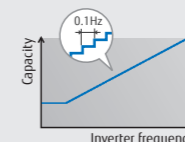
Sine-wave DC inverter control

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



High efficient & Large capacity DC inverter compressor

Large capacity high efficient DC twin rotary compressor with 0.1Hz steps compressor speed control



Subcool heat exchanger

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



4-face heat exchanger

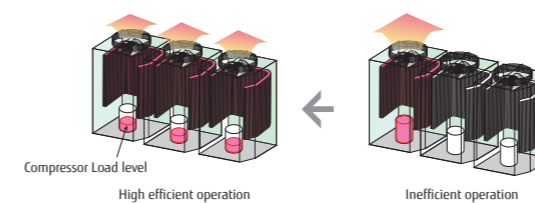
Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.

Front intake port (corner cut air inhaling structure)

Advanced energy saving control

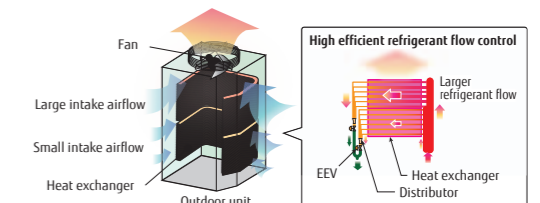
Multiple outdoor operation control

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



Heat exchanger refrigerant control

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



Outdoor units lineup

• Combinations other than the followings are not recommended.

Space saving combination

72,000 Btu/h (8HP) AJH072LNLBH UNIT : AJH072LNLBH	90,000 Btu/h (10HP) AJH090LNLBH UNIT : AJH090LNLBH	108,000 Btu/h (12HP) AJH108LNLBH UNIT : AJH108LNLBH	126,000 Btu/h (14HP) AJH126LNLBH UNIT : AJH126LNLBH	144,000 Btu/h (16HP) AJH144LNLBH UNIT : AJH144LNLBH
162,000 Btu/h (18HP) AJH162LNLBH UNIT : AJH162LNLBH	180,000 Btu/h (20HP) AJH180LNLBH UNIT : AJH090/090LNLBH	198,000 Btu/h (22HP) AJH198LNLBH UNIT : AJH126/072LNLBH	216,000 Btu/h (24HP) AJH216LNLBH UNIT : AJH126/090LNLBH	234,000 Btu/h (26HP) AJH234LNLBH UNIT : AJH144/090LNLBH
252,000 Btu/h (28HP) AJH252LNLBH UNIT : AJH162/090LNLBH	270,000 Btu/h (30HP) AJH270LNLBH UNIT : AJH144/126LNLBH	288,000 Btu/h (32HP) AJH288LNLBH UNIT : AJH144/144LNLBH	306,000 Btu/h (34HP) AJH306LNLBH UNIT : AJH162/144LNLBH	324,000 Btu/h (36HP) AJH324LNLBH UNIT : AJH162/162LNLBH
342,000 Btu/h (38HP) AJH342LNLBH UNIT : AJH162/090/090LNLBH	360,000 Btu/h (40HP) AJH360LNLBH UNIT : AJH144/126/090LNLBH	378,000 Btu/h (42HP) AJH378LNLBH UNIT : AJH144/144/090LNLBH	396,000 Btu/h (44HP) AJH396LNLBH UNIT : AJH162/144/090LNLBH	414,000 Btu/h (46HP) AJH414LNLBH UNIT : AJH162/162/090LNLBH
432,000 Btu/h (48HP) AJH432LNLBH UNIT : AJH144/144/144LNLBH	450,000 Btu/h (50HP) AJH450LNLBH UNIT : AJH162/144/144LNLBH	468,000 Btu/h (52HP) AJH468LNLBH UNIT : AJH162/162/144LNLBH	486,000 Btu/h (54HP) AJH486LNLBH UNIT : AJH162/162/162LNLBH	

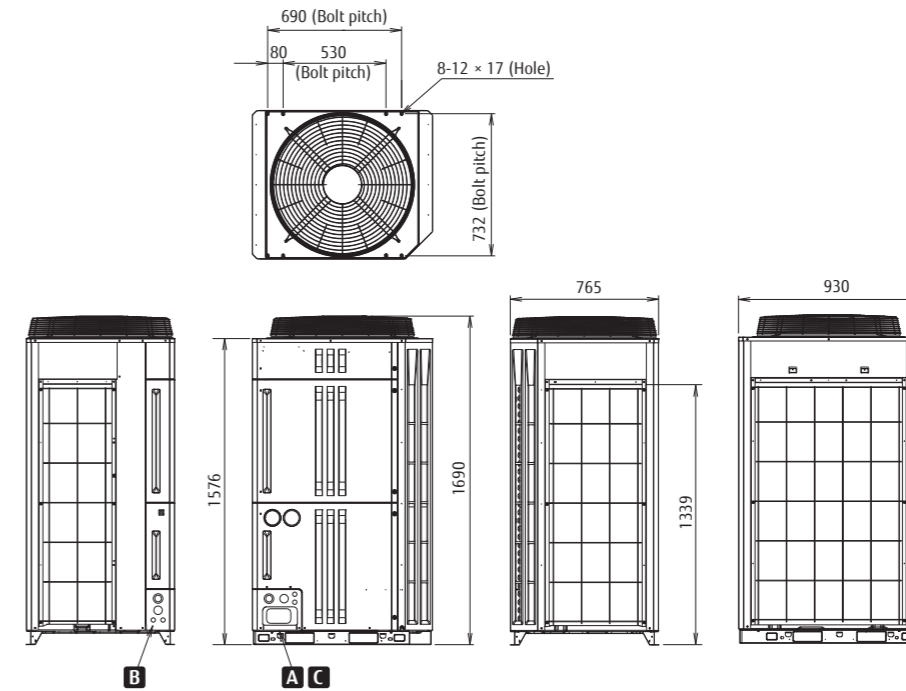
Energy efficiency combination

144,000 Btu/h (16HP) AJH144LNLBHH UNIT : AJH072/072LNLBH	162,000 Btu/h (18HP) AJH162LNLBHH UNIT : AJH090/072LNLBH	180,000 Btu/h (20HP) AJH180LNLBHH UNIT : AJH108/072LNLBH	216,000 Btu/h (24HP) AJH216LNLBHH UNIT : AJH072/072/072LNLBH	234,000 Btu/h (26HP) AJH234LNLBHH UNIT : AJH090/072/072LNLBH
252,000 Btu/h (28HP) AJH252LNLBHH UNIT : AJH108/072/072LNLBH	270,000 Btu/h (30HP) AJH270LNLBHH UNIT : AJH126/072/072LNLBH	288,000 Btu/h (32HP) AJH288LNLBHH UNIT : AJH108/108/072LNLBH	306,000 Btu/h (34HP) AJH306LNLBHH UNIT : AJH126/108/072LNLBH	324,000 Btu/h (36HP) AJH324LNLBHH UNIT : AJH108/108/108LNLBH
342,000 Btu/h (38HP) AJH342LNLBHH UNIT : AJH126/108/108LNLBH	360,000 Btu/h (40HP) AJH360LNLBHH UNIT : AJH126/126/108LNLBH	378,000 Btu/h (42HP) AJH378LNLBHH UNIT : AJH126/126/126LNLBH	396,000 Btu/h (44HP) AJH396LNLBHH UNIT : AJH144/126/126LNLBH	414,000 Btu/h (46HP) AJH414LNLBHH UNIT : AJH144/144/126LNLBH

Dimensions

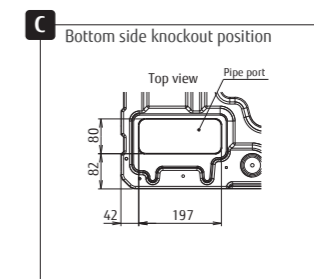
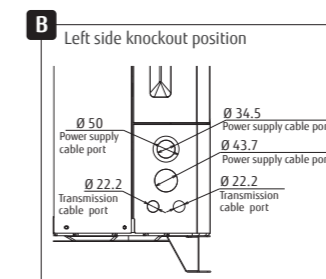
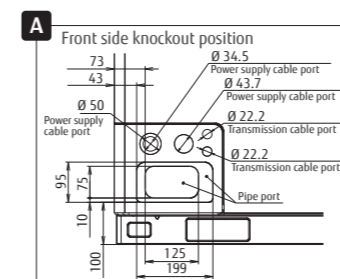
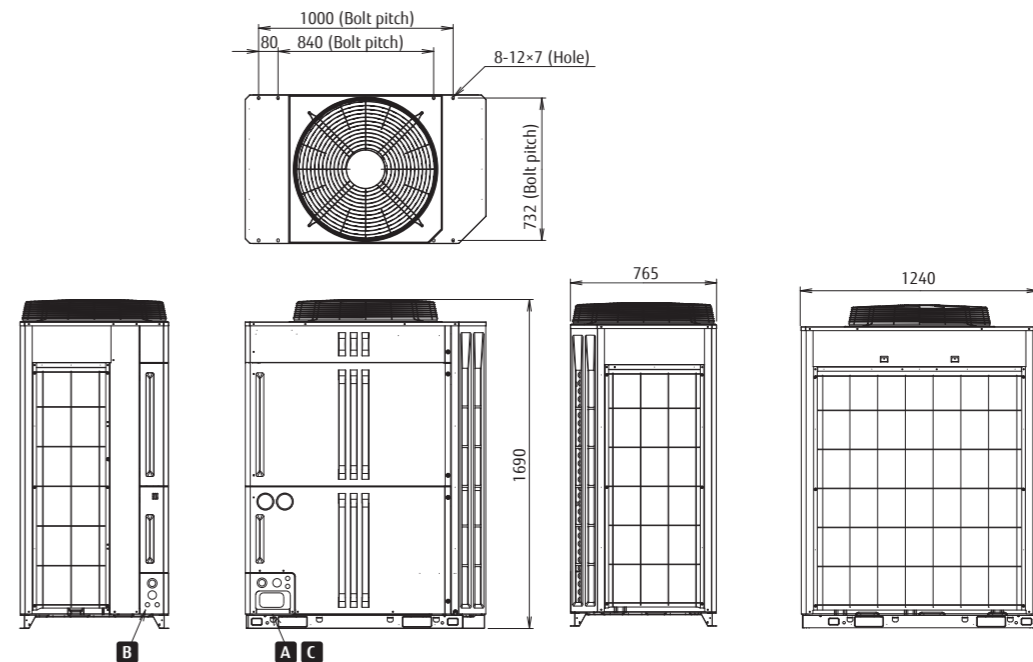
8,10HP : AJH072LNLBH / AJH090LNLBH

(Unit : mm)



12,14,16,18HP : AJH108LNLBH / AJH126LNLBH / AJH144LNLBH / AJH162LNLBH

(Unit : mm)



HEAT PUMP TYPE

AIRSTAGE™ V-II TROPICAL SPEC

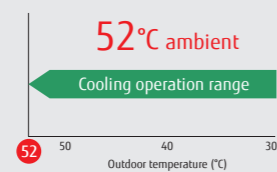
TROPICAL series

Fujitsu General tropical VRF is designed for tropical weather.
Extensive lineup from 8HP to 42HP in 2HP increment
Connectable indoor unit capacity ratio up to 130%

System Outline

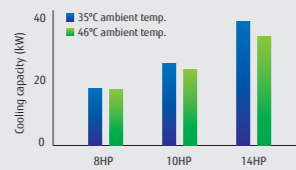
High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature



Powerful cooling capacity design

Keeping high cooling power at even high ambient temperature



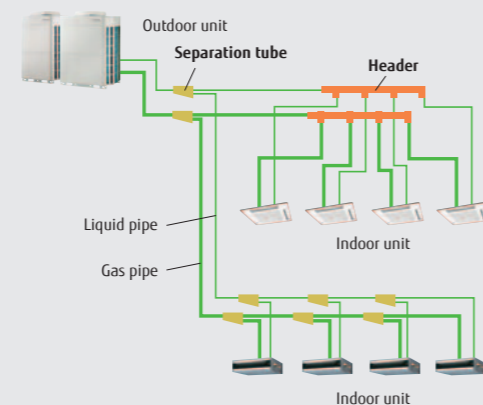
Anti-corrosion treatment design

All metallic and PCB components are protected against corrosion



System configuration example

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

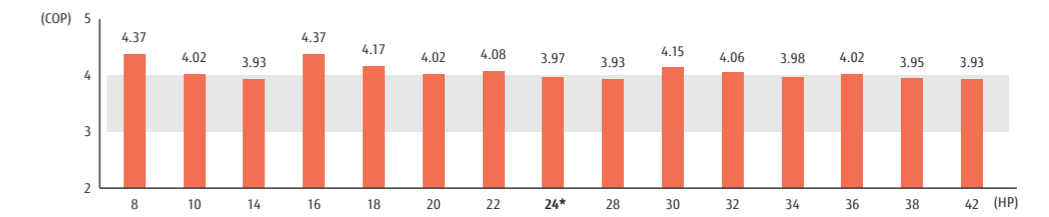


Features

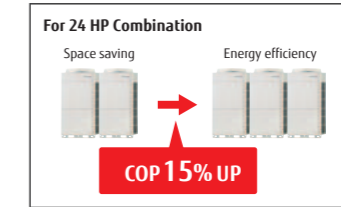
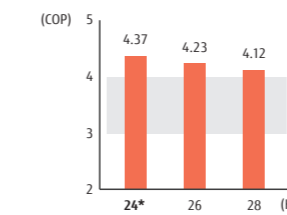
Energy efficiency

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

Space saving combination



Energy efficiency combination



Energy saving technology that boosted operation efficiency



Powerful large propeller fan

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

*1. CFD = Computational Fluid Dynamics



DC fan motor

Power consumption has been reduced by 25% compared to previous models by using a compact and high performance DC fan motor.



Subcool heat exchanger

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



Sine-wave DC inverter control

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



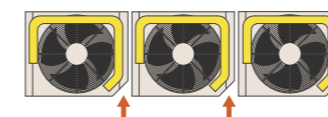
DC inverter compressor

Significantly greater efficiency is realized by use of a large capacity DC twin rotary compressor with substantially increased refrigerant intake and compression efficiency.



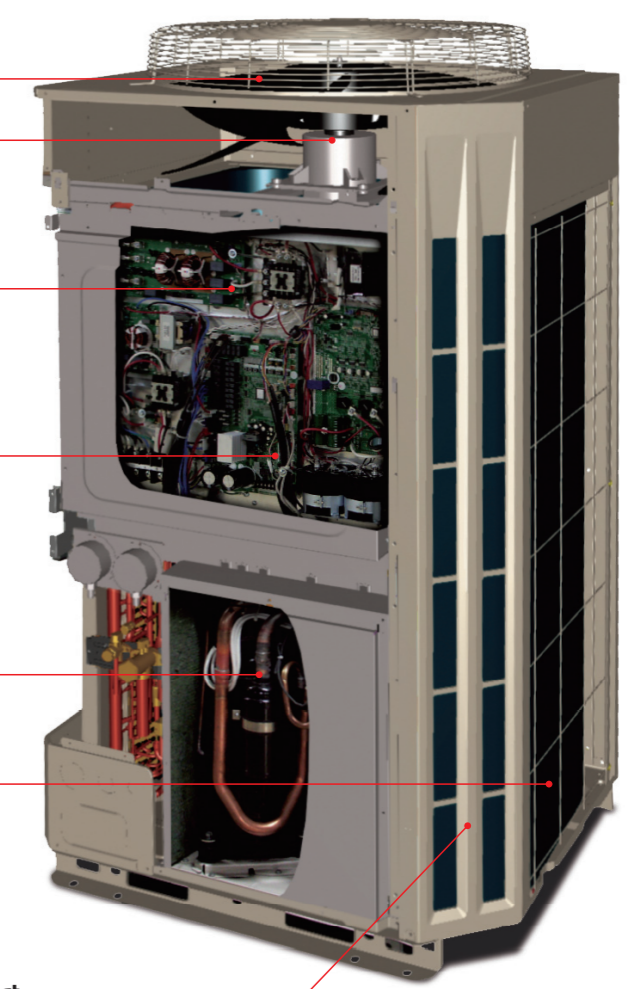
4-face heat exchanger

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



Front intake port (Corner cut air inhaling structure)

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



Outdoor units lineup

• Combinations other than the followings are not recommended.

Space Saving Combination

72,000 Btu/h (8HP) AJH072LNLAH UNIT : AJH072LNLAH	90,000 Btu/h (10HP) AJH090LNLAH UNIT : AJH090LNLAH	126,000 Btu/h (14HP) AJH126LNLAH UNIT : AJH126LNLAH	144,000 Btu/h (16HP) AJH144LNLAH UNIT : AJH072/072LNLAH	162,000 Btu/h (18HP) AJH162LNLAH UNIT : AJH090/072LNLAH
180,000 Btu/h (20HP) AJH180LNLAH UNIT : AJH090/090LNLAH	198,000 Btu/h (22HP) AJH198LNLAH UNIT : AJH126/072LNLAH	216,000 Btu/h (24HP) AJH216LNLAH UNIT : AJH126/090LNLAH	252,000 Btu/h (28HP) AJH252LNLAH UNIT : AJH126/126LNLAH	270,000 Btu/h (30HP) AJH270LNLAH UNIT : AJH126/072/072LNLAH
288,000 Btu/h (32HP) AJH288LNLAH UNIT : AJH126/090/072LNLAH	306,000 Btu/h (34HP) AJH306LNLAH UNIT : AJH126/090/090LNLAH	324,000 Btu/h (36HP) AJH324LNLAH UNIT : AJH126/126/072LNLAH	342,000 Btu/h (38HP) AJH342LNLAH UNIT : AJH126/126/090LNLAH	378,000 Btu/h (42HP) AJH378LNLAH UNIT : AJH126/126/126LNLAH

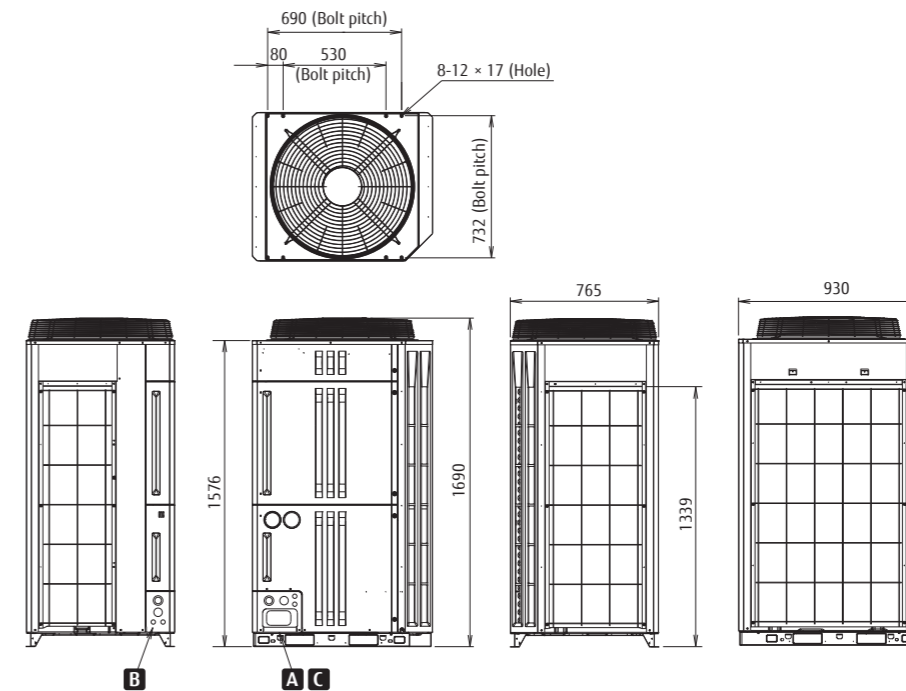
Energy efficiency combination

216,000 Btu/h (24HP) AJH216LNLAHH UNIT : AJH072/072/072LNLAH	234,000 Btu/h (26HP) AJH234LNLAHH UNIT : AJH090/072/072LNLAH	252,000 Btu/h (28HP) AJH252LNLAHH UNIT : AJH090/090/072LNLAH
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Dimensions

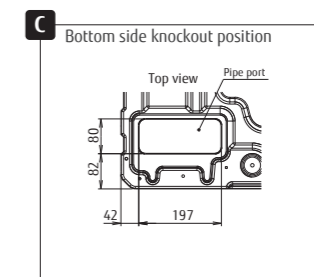
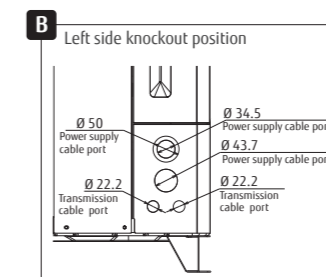
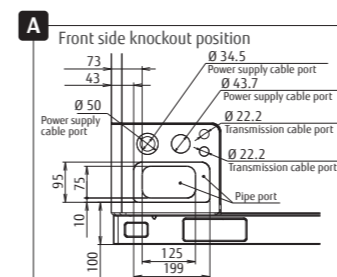
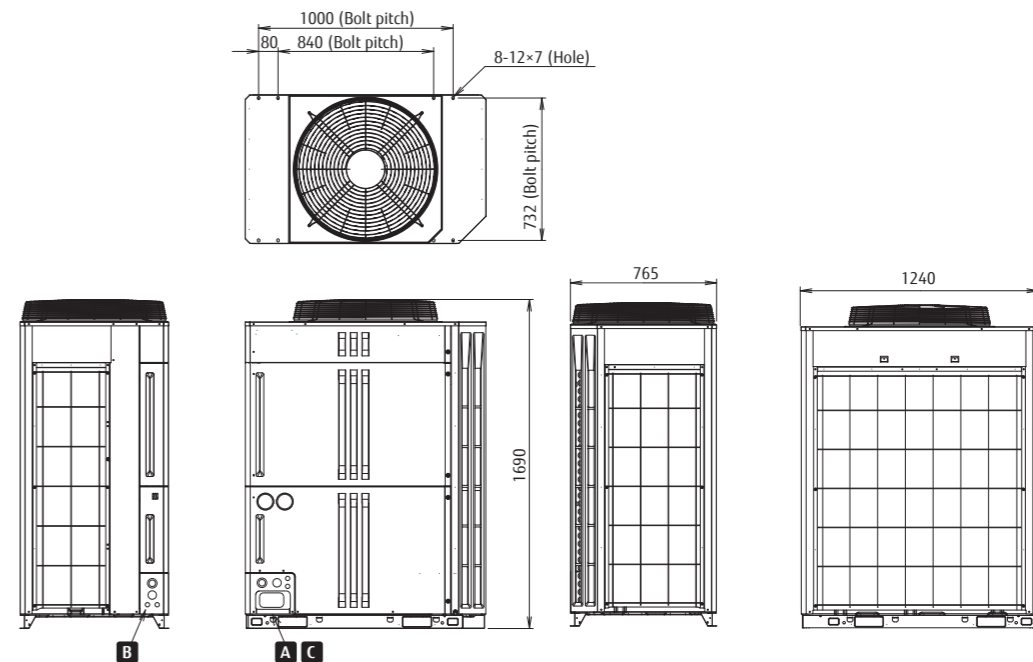
8,10HP : AJH072LNLAH / AJH090LNLAH

(Unit : mm)



14HP : AJH126LNLAH

(Unit : mm)



HEAT PUMP TYPE

NEW **AIRSTAGE™ J-III** **TROPICAL SPEC**

TROPICAL series

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

System Outline

High Energy Efficiency

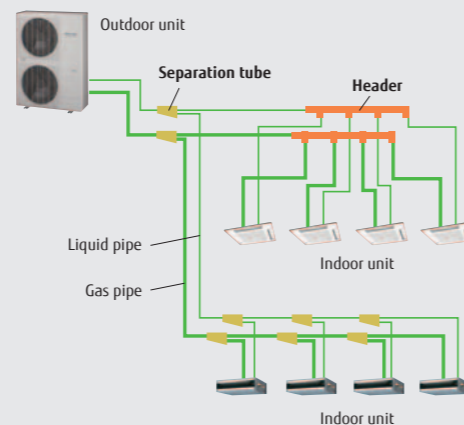
Heat pump inverter control is used to achieve an efficient cooling and heating operation in any indoor unit combination.

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

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

System configuration example

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



Features

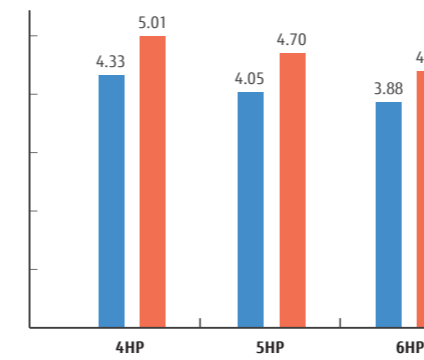
Energy efficiency

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

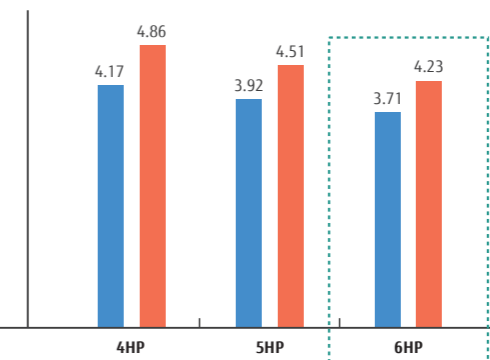
High EER / COP

■ EER / ■ COP

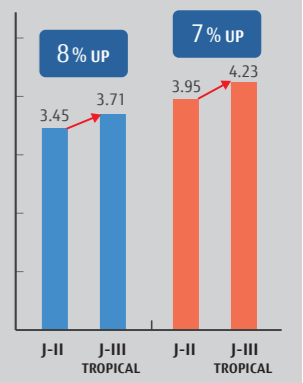
[3-phase]



[Single phase]



6HP class

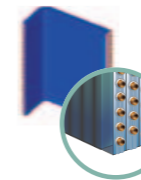


Advanced high efficiency technology



Large propeller fan

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



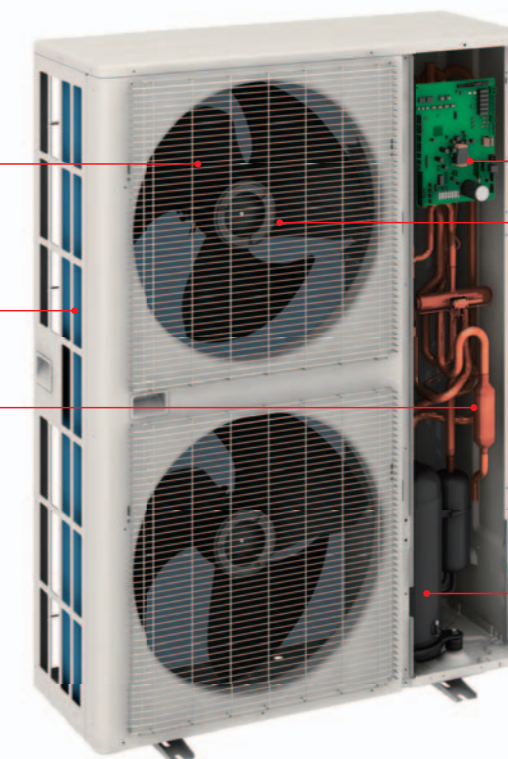
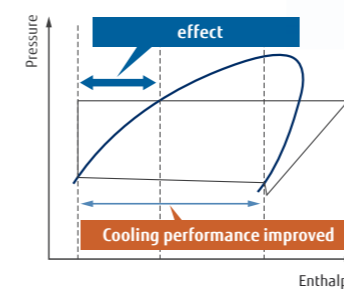
Large heat exchanger

Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.



Subcool heat exchanger

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



All Inverter



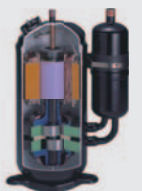
INVERTER control PCB

Efficiency is improved by mounting of new active filter module.



INVERTER fan motor

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



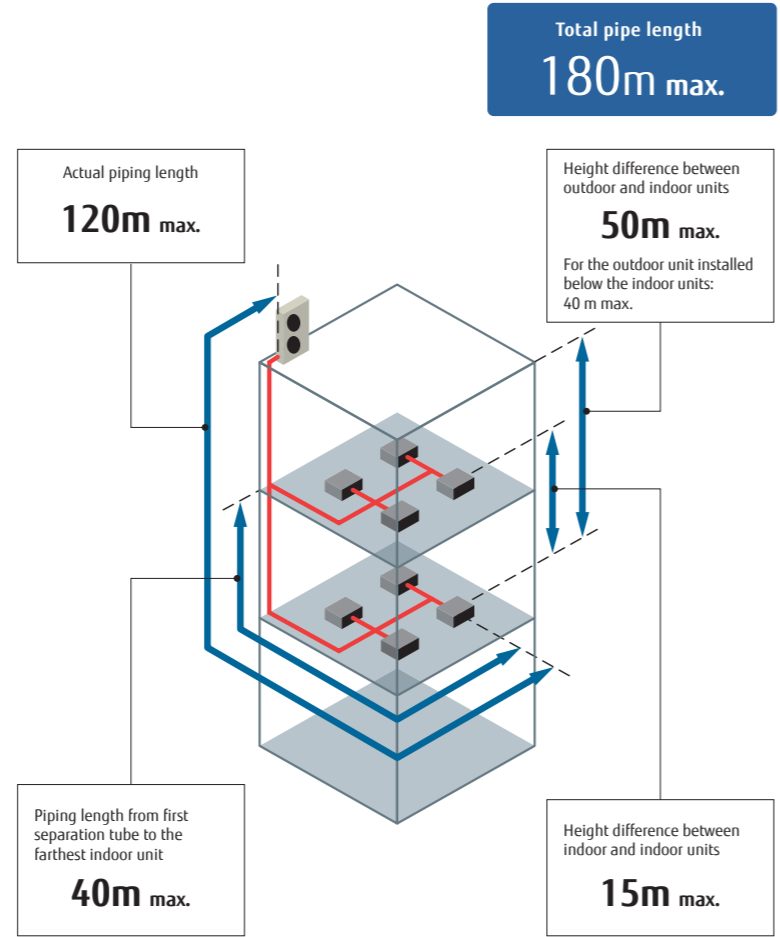
INVERTER Compressor

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

Made in JAPAN

Long piping capability

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



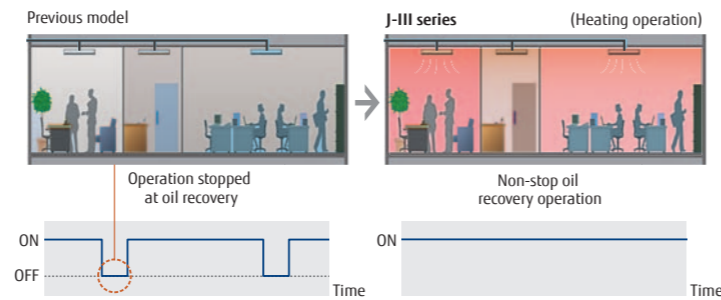
Specifications

Rating Capacity range	HP	4	5	6	4	5	6
	Btu/h	36,000	45,000	54,000	36,000	45,000	54,000
	Ton	3.0	3.8	4.5	3.0	3.8	4.5
Model name		AJH040LTAHN	AJH045LTAHN	AJH054LTAHN	AJH040LETAHN	AJH045LETAHN	AJH054LETAHN
Maximum Connectable Indoor Unit		1-7	1-8	1-9	1-7	1-8	1-9
Power source		Single-phase, ~220-240V, 50Hz			3-phase, ~380-415V, 50Hz		
Capacity	Cooling(T1/T3)	kW			12.1/10.3		
	Heating	kW			13.6		
Input power	Cooling(T1/T3)	Btu/h			41,000/35,000		
	Heating	Btu/h			46,000		
Current	Cooling(T1/T3)	kW			2.90/3.47		
	Heating	kW			2.80		
EER	Cooling(T1/T3)	A			12.7/15.2		
	Heating	A			12.3		
COP	Cooling(T1/T3)	W/W			4.17/2.97		
	Heating	W/W			4.86		
Airflow rate	Cooling	m ³ /h (l/s)			6,200(1,722)		
	Heating	m ³ /h (l/s)			6,400(1,778)		
Sound pressure level	Cooling	dB(A)			50		
	Heating	dB(A)			52		
Net Dimensions	Height	mm			1,334		
	Width	mm			970		
	Depth	mm			370		
Net Weight		kg			120		
	Refrigerant	Type			R410A		
Connection pipe diameter	Liquid	mm			9.52		
	Gas	mm			15.88		
Operation range	Cooling	°CDB			-5 to 52		
	Heating	°CDB			-20 to 21		

Note: Specifications are based on the following conditions.
 Cooling(T1): Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB
 Cooling(T3): Indoor temperature of 29°CDB / 19°CWB, and outdoor temperature of 46°CDB / 24°CWB
 Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
 Pipe length: 7.5m. Height difference between outdoor and indoor unit: 0m.

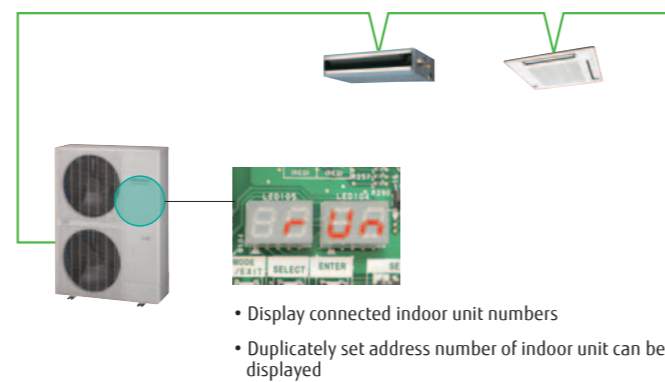
Non-stop oil recovery operation

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



Easier Installation

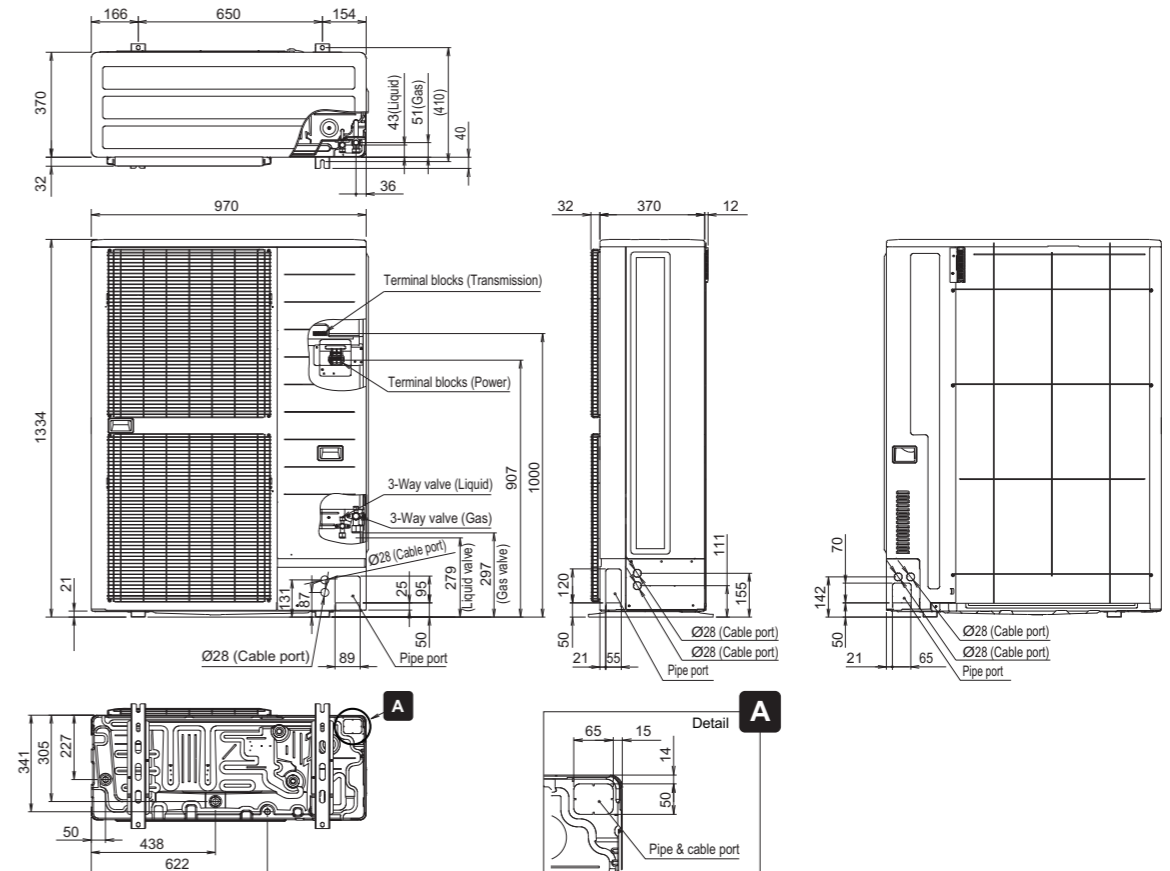
Connection check function: Possible to confirm whether wiring connection and address setting are correct by a quick check run function.



Dimensions

Model: AJH040LTAHN / AJH045LTAHN / AJH054LTAHN / AJH040LETAHN / AJH045LETAHN / AJH054LETAHN

(Unit : mm)



AIRSTAGE™ INDOOR UNITS

13 Type and 99 models available to meet the requirements of any building design.

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

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

INDOOR UNITS LINE-UP

4-way Flow Compact Cassette

4-way Flow Cassette

Mini Duct

Slim Duct / Slim Concealed Floor

Medium Static Pressure Duct

High Static Pressure Duct

Large Airflow Duct

Floor / Ceiling

Ceiling

Wall Mounted (EEV Internal / external)



INDOOR UNITS LINE-UP

Comprehensive range of indoor units of variety design and capacity ranges available which can be selected to suit any air conditioning needs.
13 types, 99 models, Capacity range from 7,000 Btu/h to 96,000Btu/h

Indoor units range

Capacity range		Btu/h	7,000	9,000	12,000	14,000	18,000	24,000	30,000	34,000	36,000	45,000	54,000	60,000	72,000	90,000	96,000
		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																
	(Slim type)																
	4-way Flow (Large type)																
Duct	Mini Duct (With drain pump)																
	Mini Duct (Without drain pump)																
	Slim Duct (With drain pump)																
	Medium Static Pressure Duct																
	High Static Pressure Duct																
Large Airflow Duct																	
Floor	Floor (Same as Ceiling models)																
	Slim Concealed Floor (Same as Slim Duct models)																
Ceiling	Ceiling																
Wall Mounted	Wall Mounted																
	Wall Mounted (EEV external)					With this model, connection of EV kit is necessary.											

*1:ARXC60/72/90/96 cannot be connected to J-III tropical series. *2:Large Airflow Duct can be connected to V-III tropical series only.

4-way Flow Compact Cassette

- | | |
|---------------|---------------|
| Models | Models |
| AUXB07GALH | AUXB07GATH |
| AUXB09GALH | AUXB09GATH |
| AUXB12GALH | AUXB12GATH |
| AUXB14GALH | AUXB14GATH |
| AUXB18GALH | AUXB18GATH |
| AUXB24GALH | AUXB24GATH |

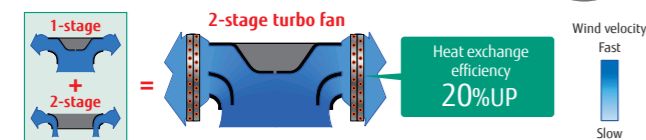


Feature

2-stage turbo fan

High efficiency design by 2 stage structure

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

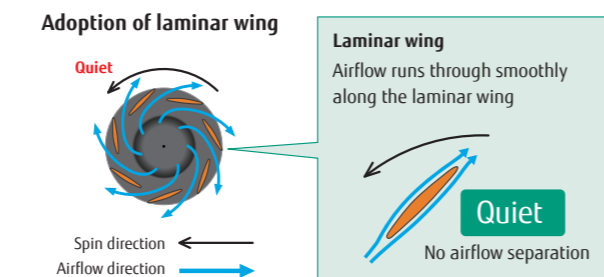


Previous turbo fan
In the case of a previous fan, the air outlet range was narrow as the airflow moved to the motor side which meant the velocity of air passing through the heat exchanger was uneven.

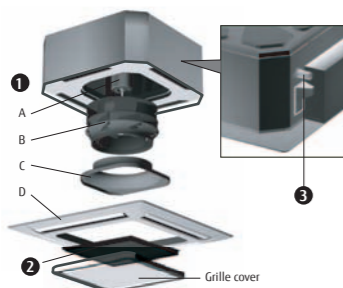
Quiet quality

Optimization of wing form (laminar wing type) and wing number (7 blades each)

Designed by CFD-analysis (fluid) simulations



Improvement of the airflow distribution



1 Maintenance of fan motor and fan

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

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

2 Air filter : standard equipment

3 Adaptation of transparent drainage parts

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

High ceiling mode

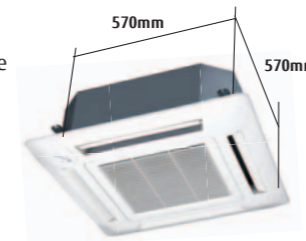
The compact cassette can be installed up to a height of 3.0m (12/14/18/24).

Model code	The maximum height from floor to ceiling (m)	
	Standard mode	High ceiling mode
07	2.7	—
09	2.7	—
12	2.7	3.0
14	2.7	3.0
18	2.7	3.0
24	2.7	3.0

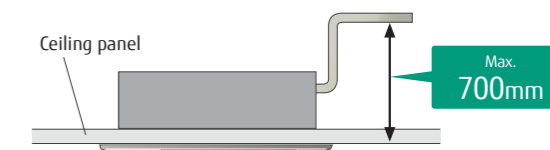


Compact design

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



High lift drain pump



Optional parts

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

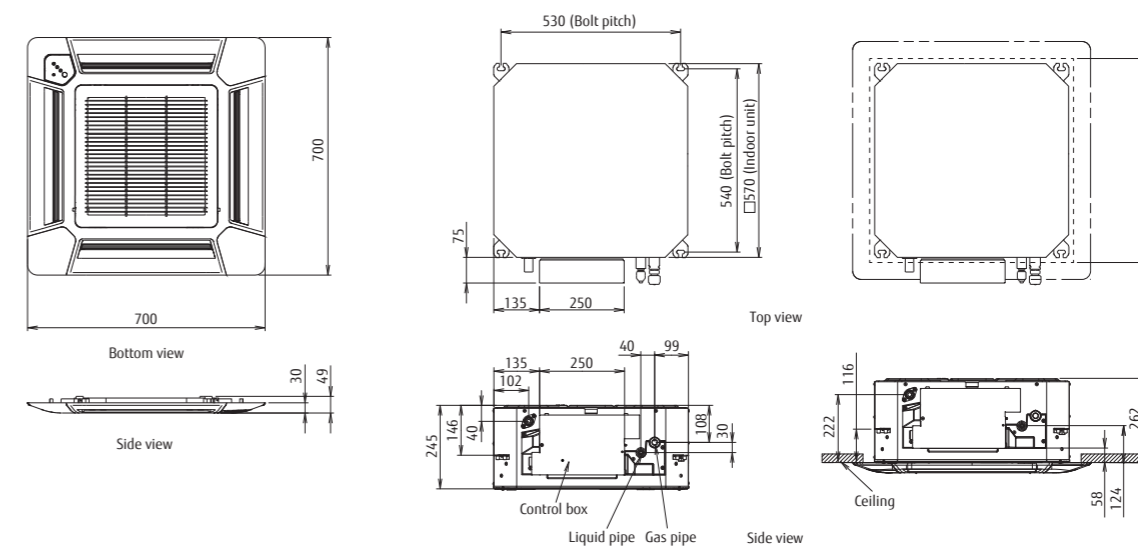
Specifications

Model name	AUXB07GALH AUXB07GATH	AUXB09GALH AUXB09GATH	AUXB12GALH AUXB12GATH	AUXB14GALH AUXB14GATH	AUXB18GALH AUXB18GATH	AUXB24GALH AUXB24GATH	
Power source	Single-phase, ~220-240V, 50Hz						
Capacity	Cooling	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						
Airflow rate	High	540 (150)	550 (153)	600 (167)	680 (189)	710 (197)	1,030 (286)
	Med	450 (125)	450 (125)	530 (147)	590 (164)	580 (161)	830 (231)
	Low	350 (97)	350 (97)	390 (108)	390 (108)	400 (111)	450 (125)
Sound pressure level	High	34	35	37	38	41	50
	Med	30	30	34	34	35	44
	Low	25	25	27	27	27	30
		dB(A)					
Dimensions (H x W x D)	mm						
Weight	kg (lbs)						
Connection pipe diameter	Liquid (Flare)	6.35	6.35	6.35	6.35	9.52	9.52
	Gas (Flare)	12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.U.)	25 / 32						
Cassette Grille	Model name						
	UTG-UFGC-W						
	Dimensions (HxWxD)						
	50 x 700 x 700						
	Weight						
	2.6 (6)						

Note : Specifications are based on the following conditions.

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

Dimensions (Unit : mm)



4-way Flow Cassette (Slim type)

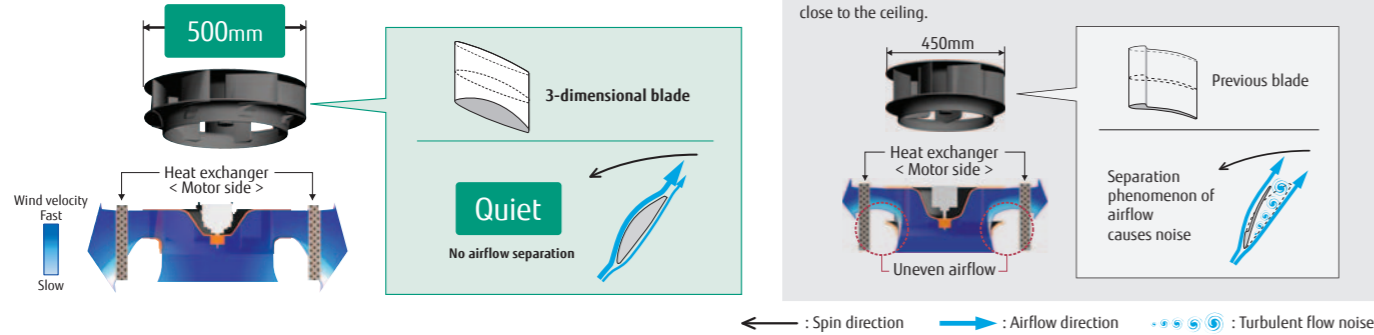
Models
 AUXD18GALH AUXD18GATH
 AUXD24GALH AUXD24GATH



Feature

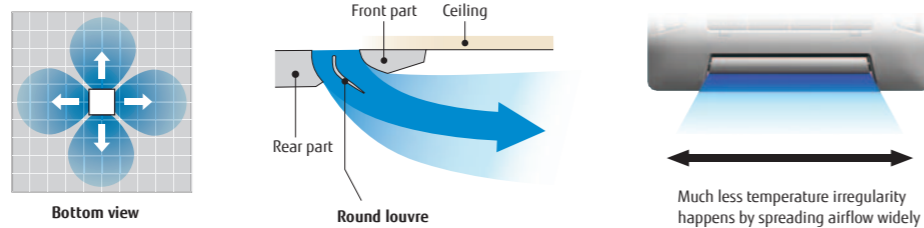
High efficiency turbo fan with 3-dimensional blade

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

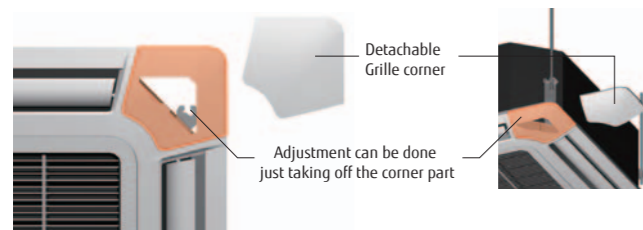


Improvement of the airflow distribution

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



Adjustment of hanger position is possible after installation

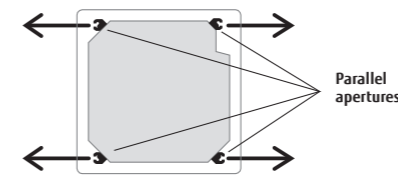


High ceiling mode

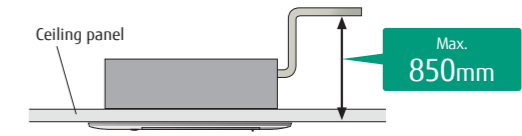
This cassette can be installed up to a height of 3.5m.

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

One way installation



High lift drain pump



Optional parts

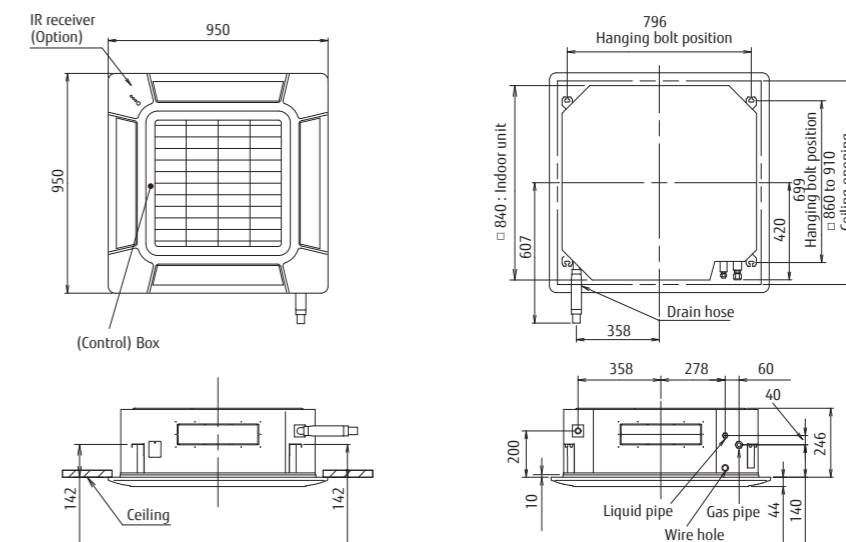
- IR Receiver Unit : UTY-LRHGB1
- Air Outlet Shutter Plate : UTR-YDZK
- Panel Spacer : UTG-BKXA-W
- Insulation Kit for High Humidity : UTZ-KXRA
- Wide Panel : UTG-AKXA-W

Specifications

Model name	AUXD18GALH AUXD18GATH		AUXD24GALH AUXD24GATH	
	Power source	Single-phase, ~220-240V, 50Hz		
Capacity	Cooling	kW	5.6	7.1
	Heating	kW	6.3	8.0
Input power	W		39	46
Airflow rate	High	m ³ /h (l/s)	1,150 (319)	1,280 (356)
	Med	m ³ /h (l/s)	940 (261)	1,040 (289)
	Low	m ³ /h (l/s)	870 (242)	870 (242)
Sound pressure level	High	dB(A)	36	38
	Med	dB(A)	30	33
	Low	dB(A)	29	29
Dimensions (H x W x D)	mm		246 x 840 x 840	246 x 840 x 840
Weight	kg (lbs)		22 (48)	22 (48)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52
	Gas (Flare)	mm	15.88	15.88
Drain hose diameter (I.D./O.U.)			25 / 32	
Cassette Grille	Model name	UTG-UGGA-W		
	Dimensions (HxWxD)	mm		
	Weight	kg (lbs)		

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

Dimensions (Unit : mm)



4-way Flow Cassette (Large type)

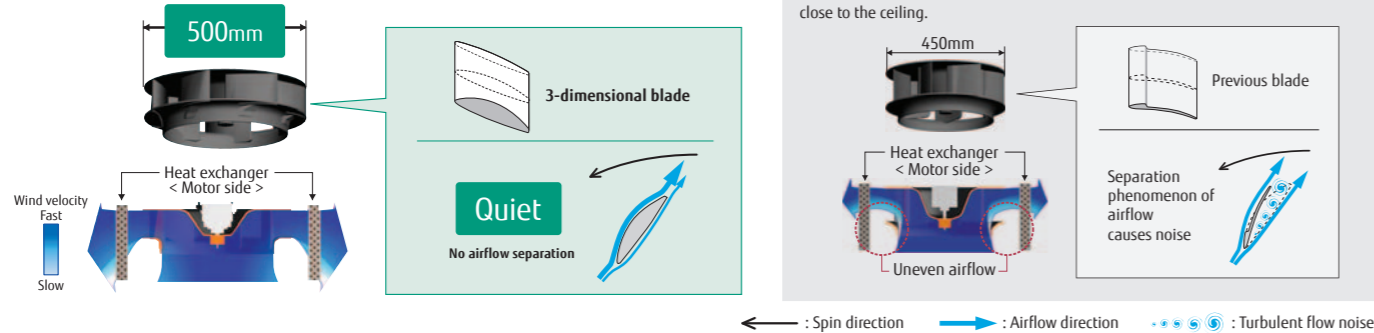
- Models**
 AUXA18GALH
 AUXA24GALH
 AUXA30GALH
 AUXA34GALH
 AUXA36GALH
 AUXA45GALH
 AUXA54GALH
- Models**
 AUXA30GATH
 AUXA36GATH
 AUXA45GATH
 AUXA54GATH



Feature

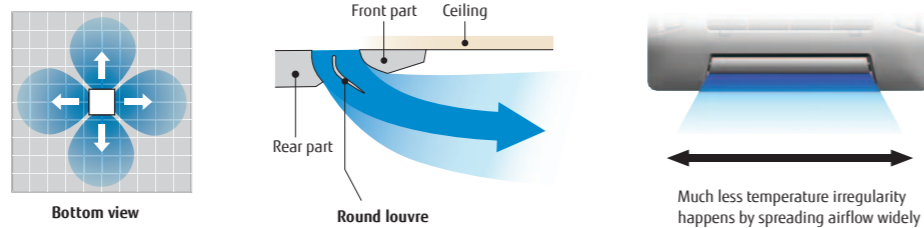
High efficiency turbo fan with 3-dimensional blade

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

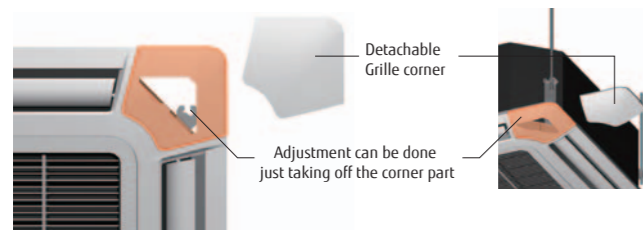


Improvement of the airflow distribution

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



Adjustment of hanger position is possible after installation

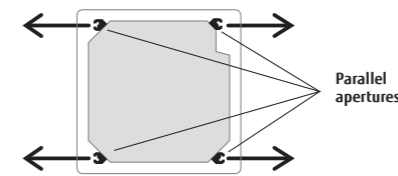


High ceiling mode

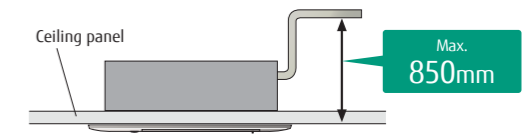
This cassette can be installed up to a height of 4.2m (36/45/54).

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

One way installation



High lift drain pump



Optional parts

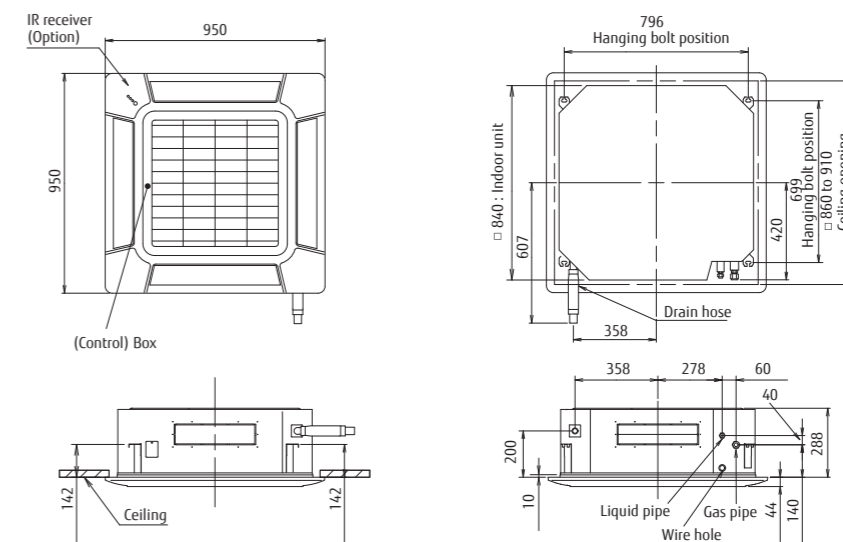
- IR Receiver Unit : UTY-LRHGB1
 Air Outlet Shutter Plate : UTR-YDZK
 Panel Spacer : UTG-BKXA-W
 Insulation Kit for High Humidity : UTZ-KXRA
 Wide Panel : UTG-AKXA-W

Specifications

Model name	AUXA18GALH	AUXA24GALH	AUXA30GALH AUXA30GATH	AUXA34GALH	AUXA36GALH AUXA36GATH	AUXA45GALH AUXA45GATH	AUXA54GALH AUXA54GATH
Power source	Single-phase, ~220-240V, 50Hz						
Capacity	Cooling	5.6	7.1	9.0	10.0	11.2	14.0
	Heating	6.3	8.0	10.0	11.2	12.5	16.0
Input power	W	51	51	59	77	80	119
Airflow rate	High	1,420 (394)	1,420 (394)	1,600 (444)	1,750 (486)	1,800 (500)	2,000 (556)
	Med	1,230 (342)	1,230 (342)	1,300 (361)	1,300 (361)	1,300 (361)	1,370 (381)
	Low	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)
Sound pressure level	High	40	40	40	43	44	47
	Med	36	36	38	38	38	39
	Low	33/31*1	33/31*1	33	33	33	33
Dimensions (H x W x D)	mm	288 x 840 x 840	288 x 840 x 840	288 x 840 x 840	288 x 840 x 840	288 x 840 x 840	288 x 840 x 840
Weight	kg (lbs)	27 (59)	27 (59)	27 (59)	27 (59)	27 (59)	27 (59)
Connection pipe diameter	Liquid (Flare)	9.52	9.52	9.52	9.52	9.52	9.52
	Gas (Flare)	15.88	15.88	15.88	15.88	19.05	19.05
Drain hose diameter (I.D./O.U.)		25 / 32					
Cassette Grille	Model name	UTG-UGGA-W					
	Dimensions (HxWxD)	50 x 950 x 950					
	Weight	5.5 (12)					

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

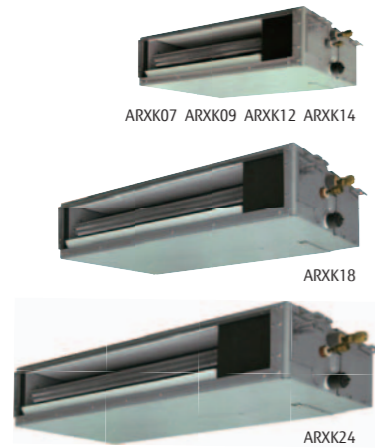
Dimensions (Unit : mm)



Mini Duct

Models (With drain pump)

- ARXK07GCLH
- ARXK09GCLH
- ARXK12GCLH
- ARXK14GCLH
- ARXK18GCLH
- ARXK24GCLH



Models (Without drain pump)

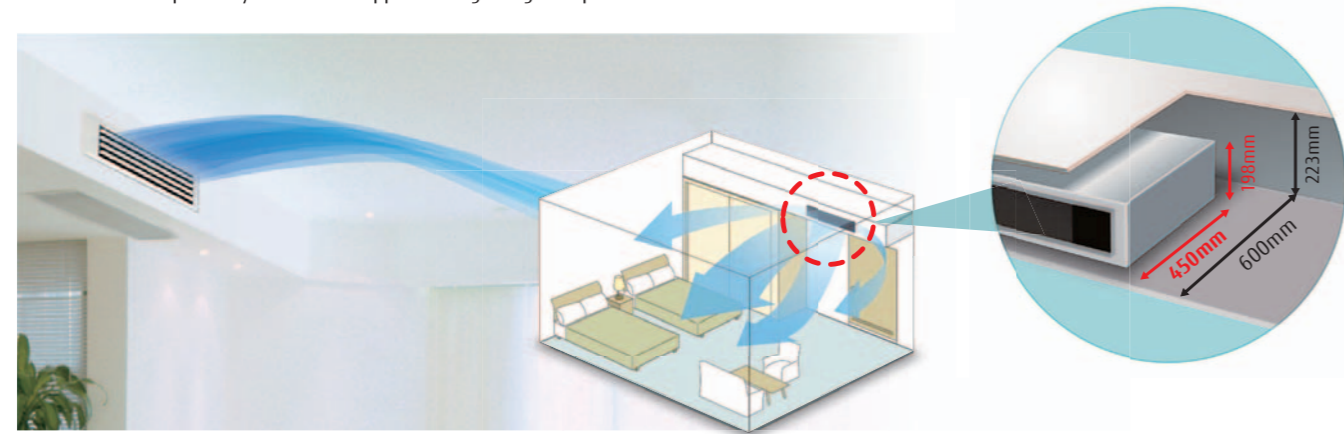
- ARXK07GALH
- ARXK09GALH
- ARXK12GALH
- ARXK14GALH
- ARXK18GALH
- ARXK24GALH



Feature

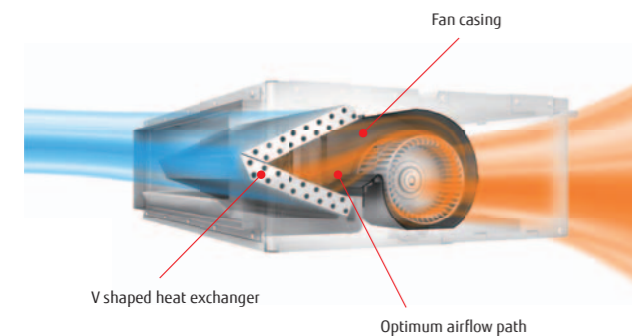
Optimum design in harmony with interior decoration

Thin and short-depth body makes the clipped ceiling design simple.



Advanced performance by new shaped heat exchanger and airflow

Air blower is improved so that velocity distribution is optimum in accordance with the heat exchanger shape. Wide range and uniform airflow can be received due to heat exchanger.

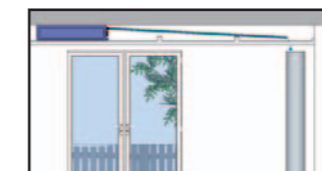


Easy drain design even at narrow ceiling

Models with drain pump: Drainage to the distant drain port is possible.

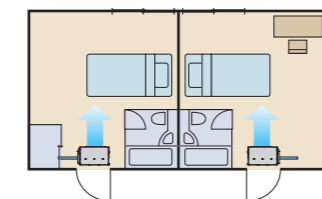
Models without drain pump: Both sides drainage is possible.

Models with drain pump



For models with drain pump, drain design is easy even at narrow ceiling.

Models without drain pump



For models without drain pump, both sides drainage is possible and drain design is easy.

6-speed control*

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

Low noise
21 dB(A)
at 07 / 09 models

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



* Compatible Remote Controller is as follows:
UTY-RNRGZ2 / UTY-RLRG / UTY-RRSG / UTY-RHRG / UTY-DCGG / UTY-DTGGZ1 / UTY-ALGX / UTY-APGX

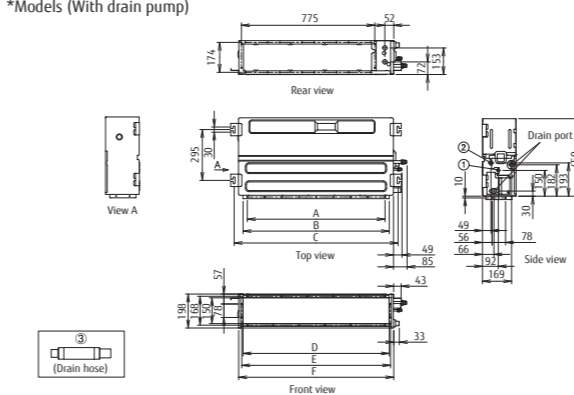
Specifications

Model name	ARXK07GCLH ARXK07GALH	ARXK09GCLH ARXK09GALH	ARXK12GCLH ARXK12GALH	ARXK14GCLH ARXK14GALH	ARXK18GCLH ARXK18GALH	ARXK24GCLH ARXK24GALH	
Power source	Single-phase, ~220-240V, 50Hz						
Capacity	Cooling kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating kW	2.8	3.2	4.0	5.0	6.3	8.0
Input power	GCLH / GALH W	28 / 21	28 / 21	35 / 28	66 / 59	73 / 66	80 / 73
Airflow rate	High	460 (128)	460 (128)	550 (153)	760 (211)	930 (258)	1,160 (322)
	Me-Hi	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)
	Me-Lo	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					
Standard static pressure	Pa	10	10	10	15	15	15
Sound pressure level	High	26	26	29	34	33	32
	Me-Hi	25	25	27	31	30	30
	Med	24	24	26	28	28	28
	Me-Lo	23	23	25	26	26	27
	Low	22	22	24	24	24	25
	Quiet	21	21	22	22	22	22
Dimensions (H x W x D)	kg (lbs)	198 × 700 × 450					
Weight	GCLH / GALH mm	15.5 (34) / 15 (33)	15.5 (34) / 15 (33)	16 (35) / 15.5 (34)	16 (35) / 15.5 (34)	19 (42) / 18.5 (41)	22.5 (50) / 22 (49)
Connection pipe diameter	Liquid (Flare)	6.35					
	Gas (Flare)	12.70					
Drain hose diameter (I.D./O.U.)		25 / 32					

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

Dimensions (Unit : mm)

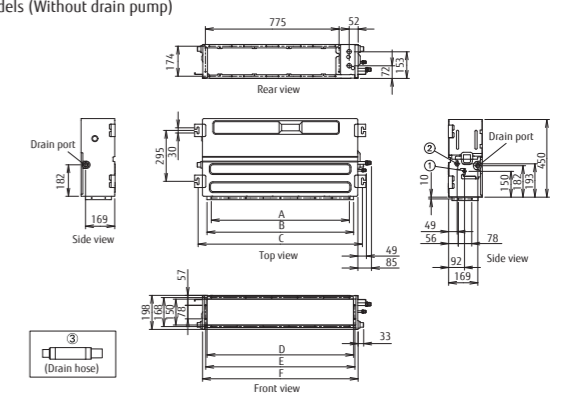
*Models (With drain pump)



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

	ARXK07-14	ARXK18	ARXK24
A	P100-6-600	P100-8-800	P100-10-1000
B	650	850	1050
C	752	952	1152
D	650	850	1050
E	665	864	1064
F	700	900	1100

*Models (Without drain pump)



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

	ARXK07-14	ARXK18	ARXK24
A	P100-6-600	P100-8-800	P100-10-1000
B	650	850	1050
C	752	952	1152
D	650	850	1050
E	665	864	1064
F	700	900	1100

Slim Duct / Slim Concealed Floor

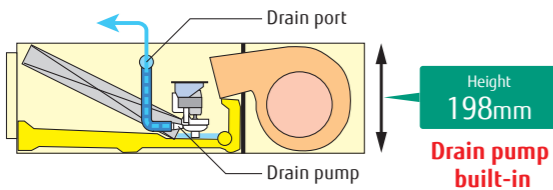
- Models**
 ARXD07GALH ARXD07GATH
 ARXD09GALH ARXD09GATH
 ARXD12GALH ARXD12GATH
 ARXD14GALH ARXD14GATH
 ARXD18GALH ARXD18GATH
 ARXD24GALH ARXD24GATH



Feature

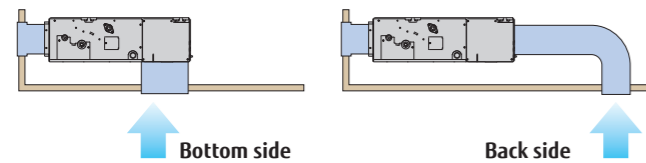
Slim design

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



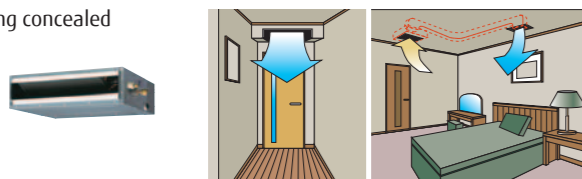
Air-intake

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

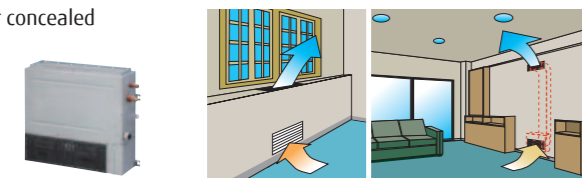


Flexible installation

Ceiling concealed



Floor concealed



Selectable with a wide range of static pressure

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



Static pressure range
 0 to 90 Pa

*24 model is 0 to 50Pa

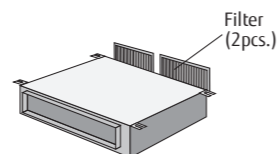
High lift drain pump



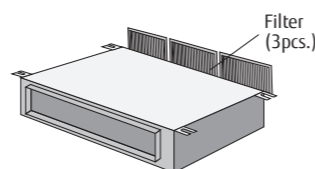
Drain hose is standard accessory

Filter (Accessory)

ARXD07 / 09 / 12 / 14 / 18

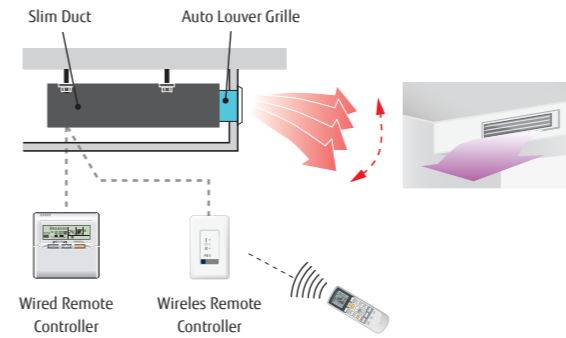


ARXD24



Auto Louver Grille Kit (Option)

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



Optional parts

- Remote Sensor Unit : UTY-XSZX
 IR Receiver Unit : UTB-YWC
 Auto Louver Grille Kit : UTD-GXTA-W (for ARXD07/09/12/14GALH ARXD07/09/12/14GATH)
 UTD-GXTB-W (for ARXD18GALH ARXD18GATH)
 UTD-GXTC-W (for ARXD24GALH ARXD24GATH)

Specifications

Model name	ARXD07GALH ARXD07GATH	ARXD09GALH ARXD09GATH	ARXD12GALH ARXD12GATH	ARXD14GALH ARXD14GATH	ARXD18GALH ARXD18GATH	ARXD24GALH ARXD24GATH	
Power source	Single-phase, ~220-240V, 50Hz						
Capacity	Cooling	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	550 (153)	600 (167)	600 (167)	800 (222)	940 (261)	1,330 (369)
	Med	490 (136)	550 (153)	510 (142)	710 (197)	840 (233)	1,240 (344)
	Low	440 (122)	480 (133)	450 (125)	610 (169)	750 (208)	1,100 (306)
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	28	29	30	34	34	35
	Med	25	26	27	32	32	32
	Low	22	24	24	28	28	29
Dimensions (H x W x D)	mm	198 x 700 x 620	198 x 700 x 620	198 x 700 x 620	198 x 700 x 620	198 x 900 x 620	198 x 1,100 x 620
Weight	kg(lbs)	17 (37)	17 (37)	18 (40)	18 (40)	22 (48)	26 (57)
Connection pipe diameter	Liquid (Flare)	6.35	6.35	6.35	6.35	9.52	9.52
	Gas (Flare)	12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.U.)		25 / 32					

Note : Specifications are based on the following conditions.

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

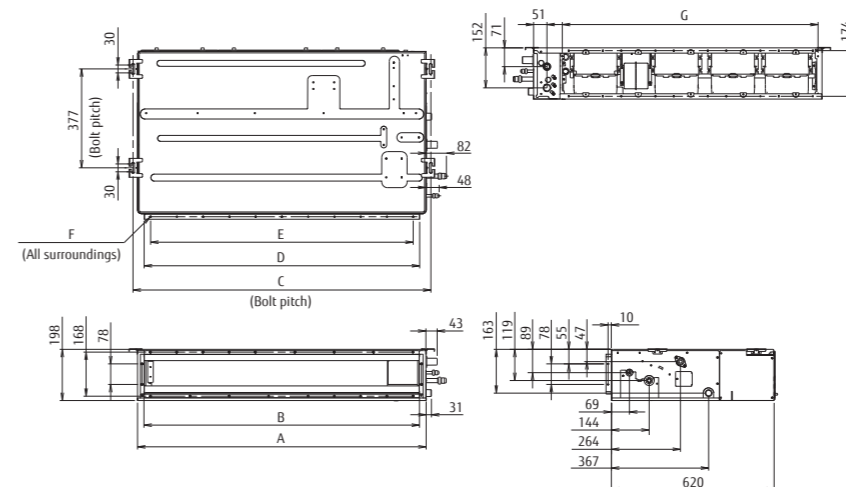
Heating : Indoor temperature of 20°CDB / 15°CWB, and outdoor temperature of 7°CDB / 6°CWB.

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

Dimensions (Unit : mm)

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

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



	ARXD07-14	ARXD18	ARXD24
A	700	900	1100
B	650	850	1050
C	734	934	1134
D	650	850	1050
E	P100x6=600	P100x8=800	P100x10=1000
F	18xØ5	22xØ5	26xØ5
G	574	774	974

Medium Static Pressure Duct

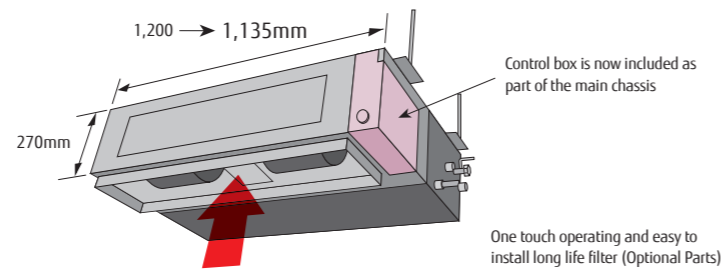
- | | |
|---------------|---------------|
| Models | Models |
| ARXA24GBLH | ARXA24GBTH |
| ARXA30GBLH | ARXA30GBTH |
| ARXA36GBLH | ARXA36GBTH |
| ARXA45GBLH | ARXA45GBTH |



Feature

Slim & Compact design

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



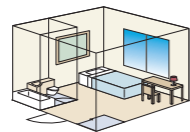
Selectable with a wide range of static pressure

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

Static pressure range
0 to 150 Pa

Can be installed for various location

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

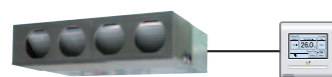


It can also be installed in wide spade when high static pressure is required, such as for offices.



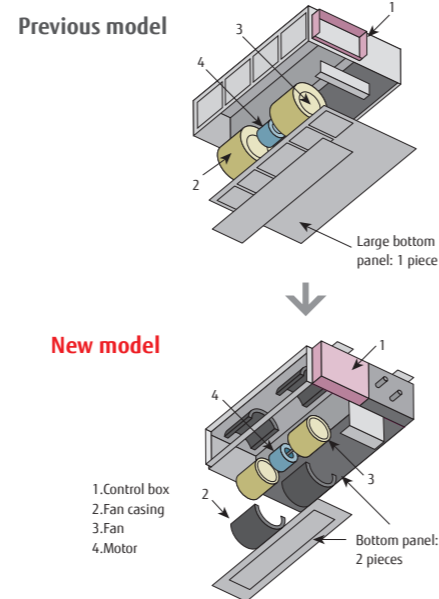
Easy setting by using remote controller

The change of static pressure range is possible by remote controller



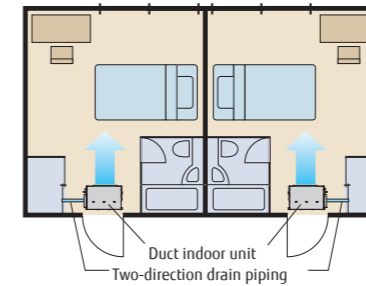
Easy maintenance

See below for the case of rear suction type



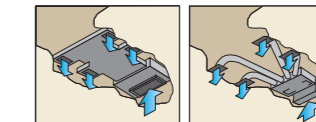
Structural improvement is attained by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while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

Two-direction drain piping

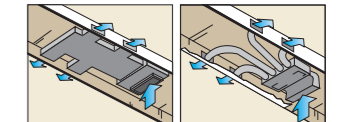


Installation styles

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-YWC |
| Flange (Square) : UTD-SF045T | Drain Pump Unit : UTZ-PX1NBA |

Specifications

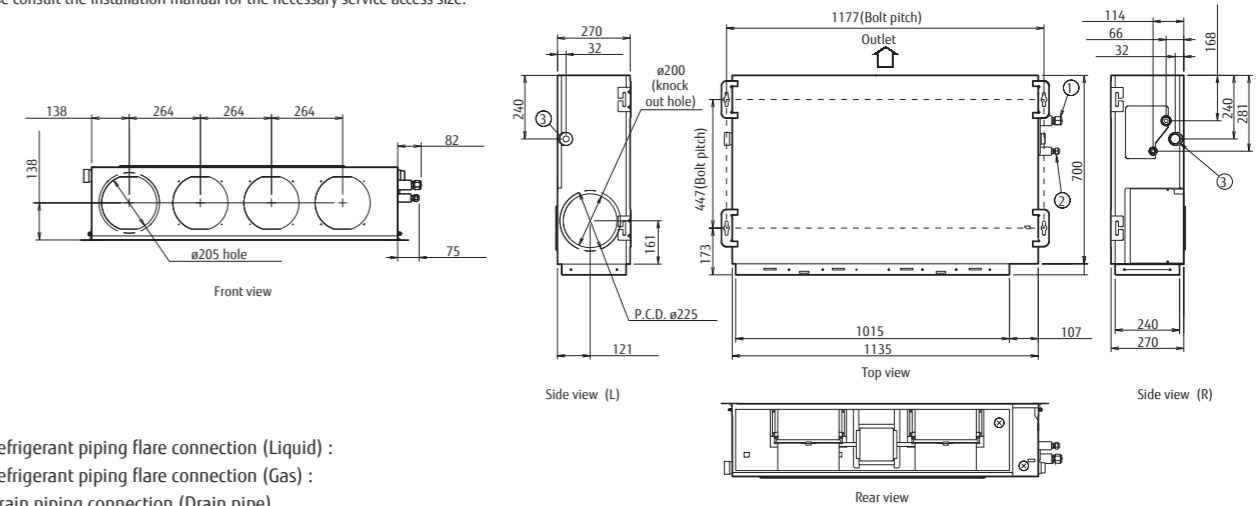
Model name		ARXA24GBLH ARXA24GBTH	ARXA30GBLH ARXA30GBTH	ARXA36GBLH ARXA36GBTH	ARXA45GBLH ARXA45GBTH
Power source		Single-phase, ~220-240V, 50Hz			
Capacity	Cooling	7.1	9.0	11.2	12.5
	Heating	8.0	10.0	12.5	14.0
Input power	W	190	188	312	312
Airflow rate	High	1,280 (356)	1,280 (356)	1,720 (478)	1,720 (478)
	Med	1,210 (336)	1,210 (336)	1,670 (464)	1,670 (464)
	Low	1,130 (314)	1,130 (314)	1,600 (444)	1,600 (444)
Static pressure range	Pa	30 to 150	30 to 150	30 to 150	30 to 150
Standard static pressure		100	100	100	100
Sound pressure level	High	38	40	43	43
	Med	36	38	41	41
	Low	34	36	39	39
Dimensions (H x W x D)	mm	270 x 1,135 x 700	270 x 1,135 x 700	270 x 1,135 x 700	270 x 1,135 x 700
Weight	kg(lbs)	39 (86)	42 (93)	42 (93)	42 (93)
Connection pipe diameter	Liquid (Flare)	9.52	9.52	9.52	9.52
	Gas (Flare)	15.88	15.88	19.05	19.05
Drain hose diameter (I.D./O.U.)		25 / 32			

Note : Specifications are based on the following conditions.

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

Dimensions (Unit : mm)

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



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

High Static Pressure Duct

Models

- ARXC36GBTH
- ARXC72GBTH
- ARXC90GBTH
- ARXC96GATH



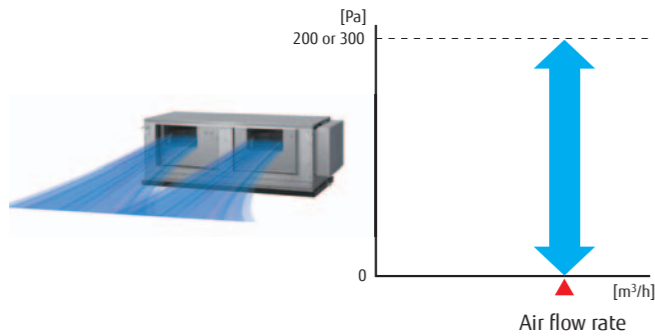
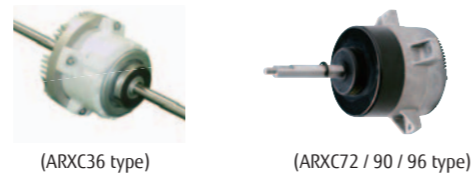
Feature

Static pressure selection

By using DC fan motor, it is possible to change static pressure range from 0 to 200Pa (ARXC36) / 300Pa (ARXC72/90/96). The change of static pressure range is possible by function setting with wired / wireless remote controller.

Low energy consumption by high efficiency DC fan motor

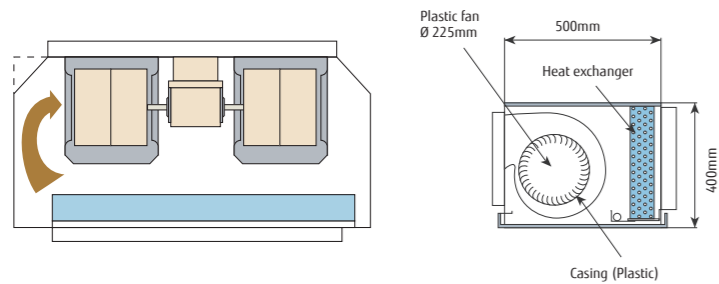
Improved motor efficiency from previous model.



Low noise

Models : ARXC36

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

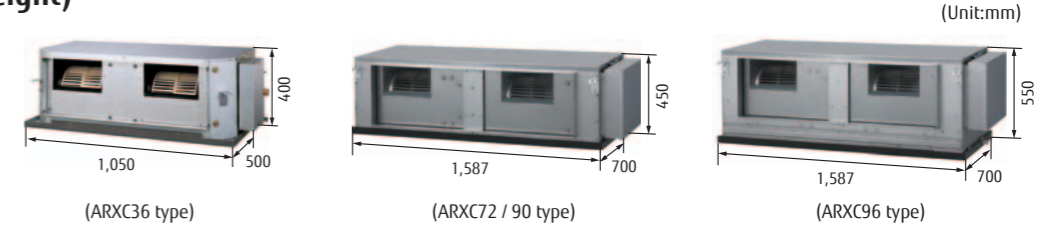


Med. noise level
36dB(A)

(ARXC36 type)

Easy installation (Compact size & Light weight)

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



Optional parts

- Long-Life Filter : UTD-LF60KA (For ARXC36GBTH)
- IR Receiver Unit : UTB-YWC
- Remote Sensor Unit : UTY-XSZX

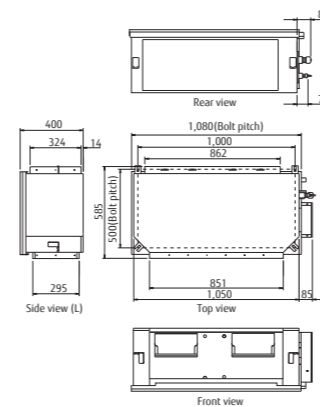
Specifications

Model name	ARXC36GBTH		ARXC72GBTH	ARXC90GBTH	ARXC96GATH	
Power source	Single-phase, ~220-240V, 50Hz		Single-phase, ~220-240V, 50Hz		Single-phase, ~220-240V, 50Hz	
Capacity	Cooling	kW	11.2	22.4	25.0	28.0
	Heating	kW	12.5	25.0	28.0	31.5
Input power	W		207	681	819	838
Airflow rate	High	m³/h (l/s)	1,990 (553)	3,900 (1,083)	4,300 (1,195)	4,850 (1,347)
	Med	m³/h (l/s)	1,680 (467)	3,300 (917)	4,000 (1,111)	4,250 (1,181)
	Low	m³/h (l/s)	1,330 (369)	3,000 (833)	3,500 (972)	3,600 (1,000)
Static pressure range	Pa		0 to 200	0 to 300	0 to 300	0 to 300
Standard static pressure	Pa		100	150	150	150
Sound pressure level	High	dB(A)	42	47	48	48
	Med	dB(A)	36	43	46	45
	Low	dB(A)	32	40	44	42
Dimensions (H x W x D)	mm		400 x 1,050 x 500	450 x 1,587 x 700	450 x 1,587 x 700	550 x 1,587 x 700
Weight	kg(lbs)		40 (88)	84(185)	84(185)	105(231)
Connection pipe diameter	Liquid	mm	9.52 (Flare)	12.70 (Brazing)	12.70 (Brazing)	12.70 (Brazing)
	Gas	mm	19.05 (Flare)	22.22 (Brazing)	22.22 (Brazing)	22.22 (Brazing)
Drain hose diameter (I.D./O.U.)	mm		25 / 32	25 / 32		25 / 32

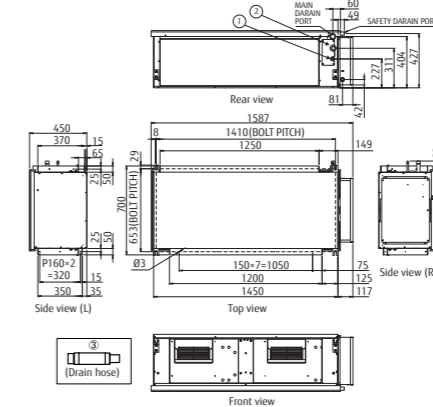
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / 15°CWB, and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit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

Dimensions (Unit : mm)

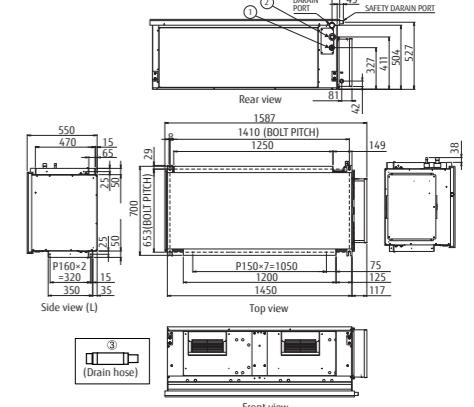
Models: ARXC36



Models: ARXC72 / ARXC90



Models: ARXC96



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

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

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

High Static Pressure Duct

Models

- ARXC45GATH
- ARXC60GATH
- ARXC72GATH
- ARXC90GATH



ARXC45 ARXC60



ARXC72 ARXC90

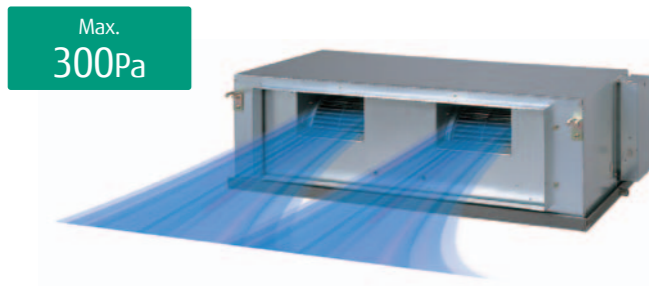


Feature

Static pressure selection

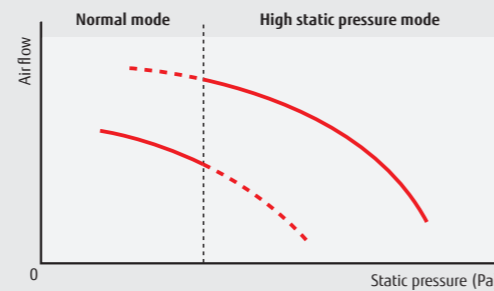
Models : ARXC72 / ARXC90

2 Types of static pressure mode are selectable.



High Static Pressure Duct (ARXC72)

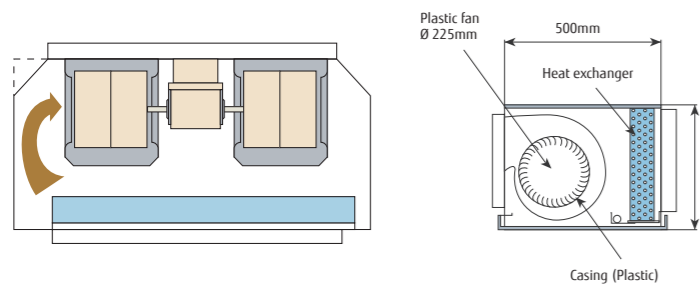
The adoption of a single phase fan motor allows 3 steps fan speed control



Low noise

Models : ARXC45 / ARXC60

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

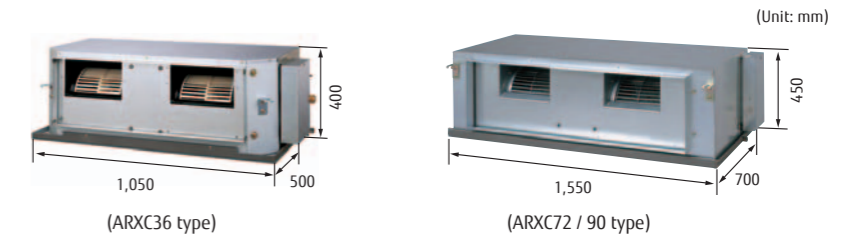


Med. noise level
45 dB(A)

(ARXC45 / 60 type)

Easy installation (Compact size & Light weight)

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



Optional parts

- Long-Life Filter : UTD-LF60KA (For ARXC45/60GATH)
- IR Receiver Unit : UTB-YWC
- Remote Sensor Unit : UTY-XSZX

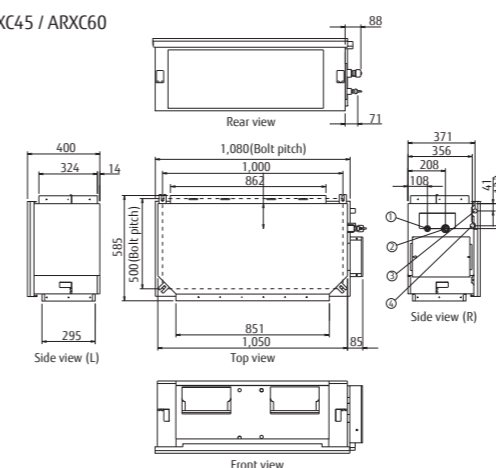
Specifications

Model name	ARXC45GATH		ARXC60GATH		ARXC72GATH		ARXC90GATH	
Power source	Single-phase, ~220-240V, 50Hz							
Capacity	Cooling	kW	12.5	18.0	22.4	25.0	25.0	28.0
	Heating	kW	14.0	20.0	25.0	28.0	28.0	32.0
Input power		W	715	730	1,110	1,250	1,250	1,250
Airflow rate	High	m ³ /h (l/s)	3,500 (972)	3,500 (972)	3,900 (1,083)	4,300 (1,195)	3,900 (1,083)	4,300 (1,195)
	Med	m ³ /h (l/s)	3,000 (833)	3,000 (833)	3,300 (917)	3,600 (1,000)	3,300 (917)	3,600 (1,000)
	Low	m ³ /h (l/s)	2,460 (683)	2,460 (683)	3,000 (833)	3,300 (917)	3,000 (833)	3,300 (917)
Static pressure range		Pa	100 to 250	100 to 250	50 to 300	100 to 300	50 to 300	100 to 300
Standard static pressure		Pa	100	100	260	250	260	250
Sound pressure level	High	dB(A)	49	49	51	53	51	53
	Med	dB(A)	45	45	48	51	48	51
	Low	dB(A)	42	42	45	49	45	49
Dimensions (H x W x D)		mm	400 x 1,050 x 500	400 x 1,050 x 500	450 x 1,550 x 700	450 x 1,550 x 700	450 x 1,550 x 700	450 x 1,550 x 700
Weight		kg(lbs)	46 (101)	46 (101)	83 (-)	83 (-)	83 (-)	85(-)
Connection pipe diameter	Liquid	mm	9.52 (Flare)	9.52 (Flare)	12.70 (Brazing)	12.70 (Brazing)	12.70 (Brazing)	12.70 (Brazing)
	Gas	mm	19.05 (Flare)	19.05 (Flare)	22.22 (Brazing)	22.22 (Brazing)	22.22 (Brazing)	22.22 (Brazing)
Drain hose diameter (I.D./O.U.)			25 / 32				25 / 32	

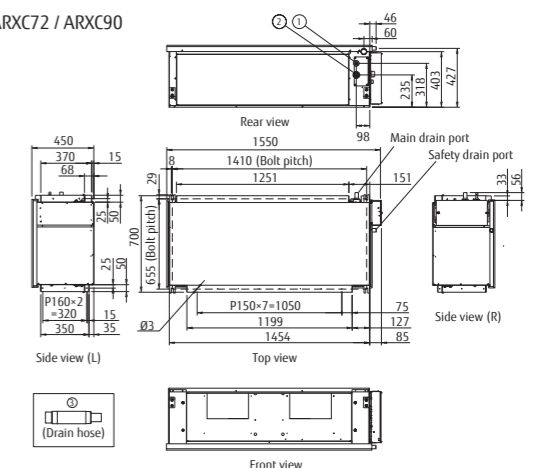
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / 15°CWB, and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit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

Dimensions (Unit : mm)

Models: ARXC45 / ARXC60



Models: ARXC72 / ARXC90



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

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

Large Airflow Duct

Models

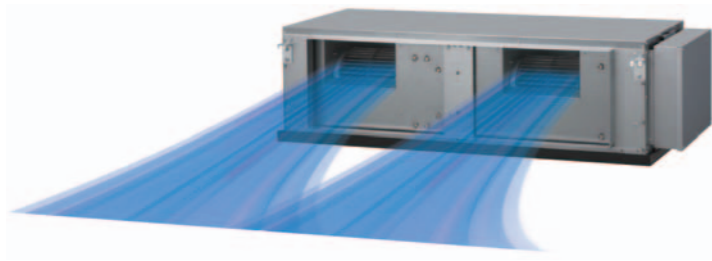
- ARXN18GATH
- ARXN24GATH
- ARXN30GATH
- ARXN34GATH
- ARXN36GATH
- ARXN45GATH



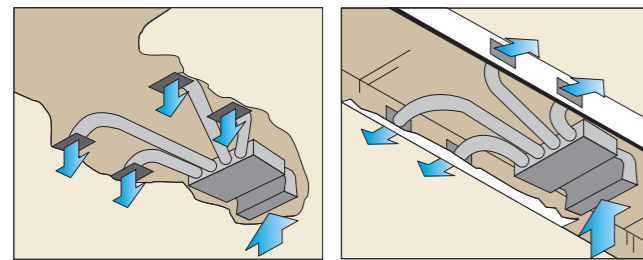
Feature

Large airflow volume

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



Installation styles



Selectable with a wide range of static pressure



static pressure range
50 to 250Pa

(30 / 34class)

static pressure range
50 to 300Pa

(36 / 45class)

Optional parts

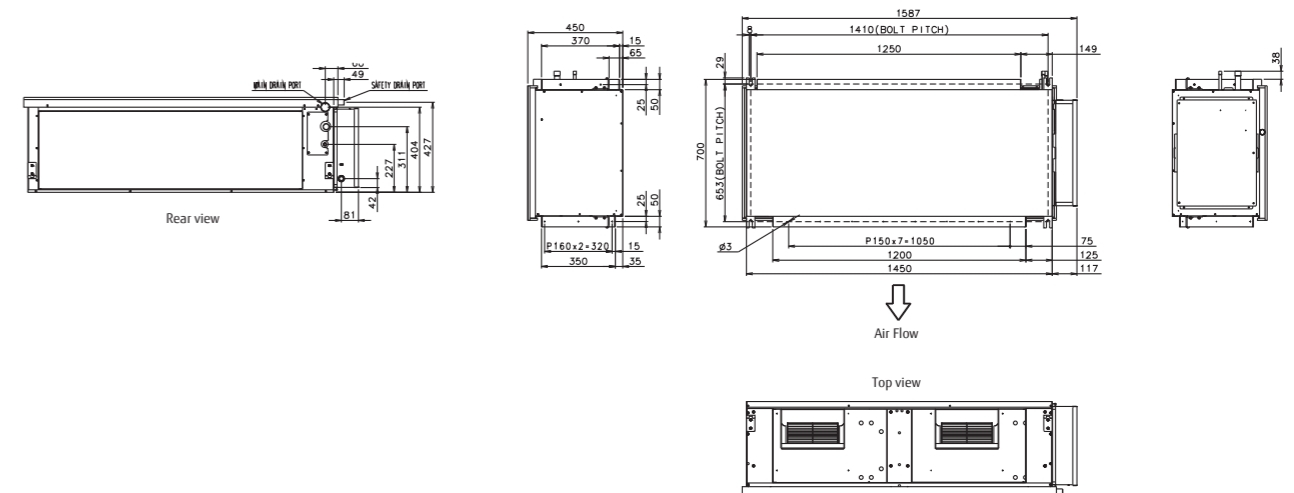
Remote Sensor Unit : UTY-XSZX

Specifications

Model name			ARXN18GATH	ARXN24GATH	ARXN30GATH	ARXN34GATH	ARXN36GATH	ARXN45GATH
Power source			Single-phase, ~220-240V, 50Hz					
Capacity	Cooling	kW	5.6	7.1	9.0	10.0	11.2	12.5
	Heating	kW	6.3	8.0	10.0	11.2	12.5	14.0
Input power	W		154	205	306	432	572	572
Airflow rate	High	m ³ /h	2,280 (633)	2,640 (733)	3,200 (889)	3,720 (1,033)	4,120 (1,145)	4,120 (1,145)
	Med	l/s	-	-	-	-	-	-
	Low	-	-	-	-	-	-	-
Static pressure range	Pa		50 to 100	50 to 150	50 to 250	50 to 250	50 to 300	50 to 300
Standard static pressure	Pa		50	50	50	50	60	60
Sound pressure level	High	dB(A)	35	37	40	43	45	45
	Med	-	-	-	-	-	-	-
	Low	-	-	-	-	-	-	-
Dimensions (H x W x D)	mm		450 x 1,587 x 700	450 x 1,587 x 700	450 x 1,587 x 700	450 x 1,587 x 700	450 x 1,587 x 700	450 x 1,587 x 700
Weight	kg(lbs)		84 (185)	84 (185)	84 (185)	84 (185)	84 (185)	84 (185)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Gas (Flare)	mm	15.88	15.88	15.88	15.88	19.05	19.05
Drain hose diameter (I.D./O.U.)			25 / 32					

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

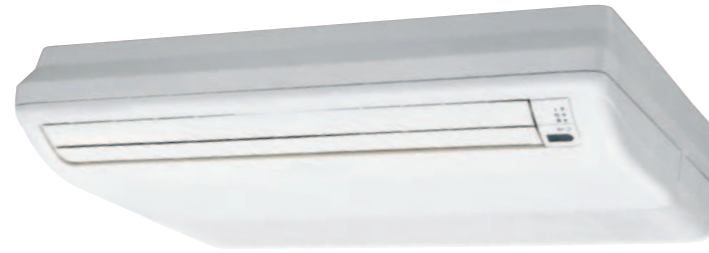
Dimensions (Unit : mm)



Floor / Ceiling

Models

- ABHA12GATH
- ABHA14GATH
- ABHA18GATH
- ABHA24GATH



Floor standing



Feature

Flexible installation

Example for floor installation

Floor console



Example for ceiling installation

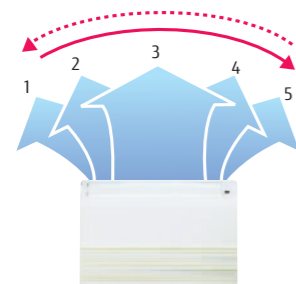
Under ceiling



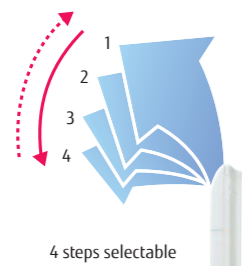
Double auto swing

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

RIGHT and LEFT SWING

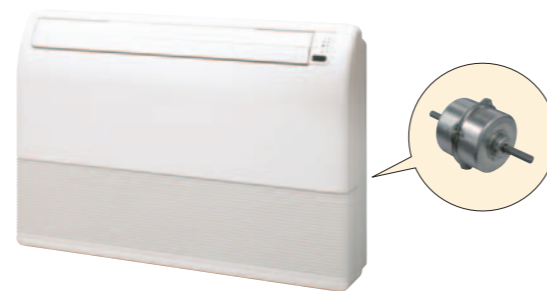


UP and DOWN SWING



High power DC fan motor

- High power
- Wide rotation range
- High efficiency



Compact design

Symmetrical, slim and compact design.

(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.

Specifications

Model name		ABHA12GATH	ABHA14GATH	ABHA18GATH	ABHA24GATH
Power source		Single-phase, ~220-240V, 50Hz			
Capacity	Cooling	3.6	4.5	5.6	7.1
	Heating	4.0	5.0	6.3	8.0
Input power		30	42	74	99
Airflow rate	High	660 (183)	780 (216)	1,000 (277)	1,000 (277)
	Med	570 (158)	640 (177)	720 (199)	820 (227)
	Low	490 (136)	550 (152)	580 (161)	680 (188)
Sound pressure level	High	36	40	46	47
	Med	32	36	39	42
	Low	28	34	35	37
Dimensions (H x W x D)		199 x 990 x 655	199 x 990 x 655	199 x 990 x 655	199 x 990 x 655
Weight		25 (55)	26 (57)	26 (57)	27 (59)
Connection pipe diameter	Liquid (Flare)	6.35	6.35	9.52	9.52
	Gas (Flare)	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.U.)		25 / 32			

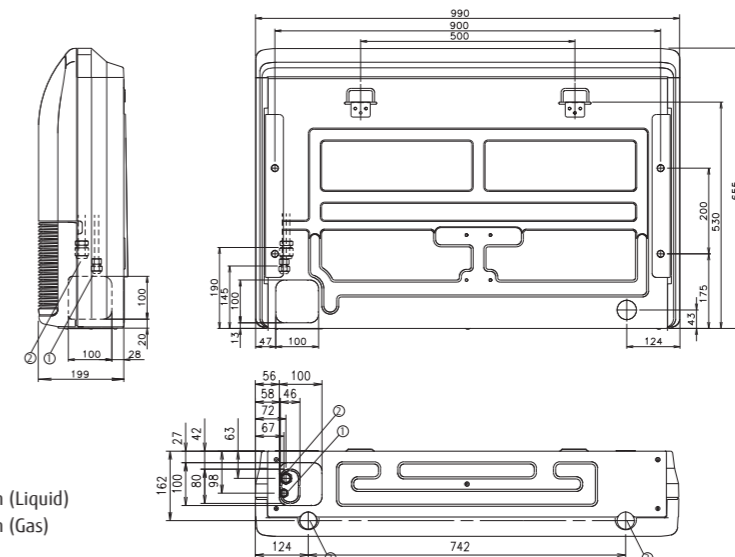
Note : Specifications are based on the following conditions.

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

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

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

Dimensions (Unit : mm)



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

Ceiling

Models

- ABHA30GATH
- ABHA36GATH
- ABHA45GATH
- ABHA54GATH



Feature

Installation

Open

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

Concealed

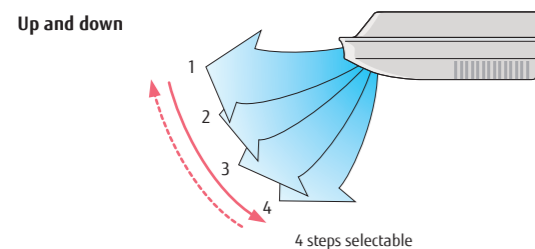
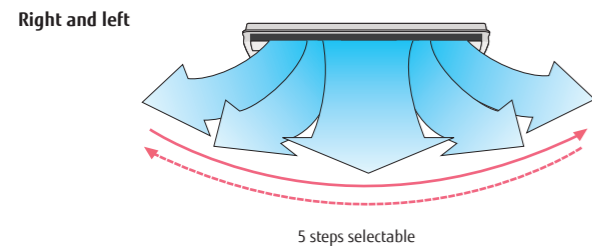
Installation pattern where part of the indoor unit is embedded into the ceiling.

Wall mounted
(Field Supplied)

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

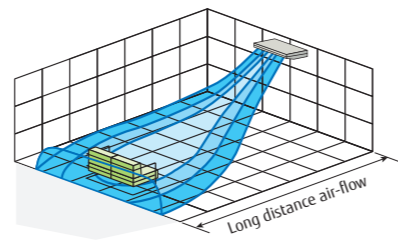
Double auto swing and wide airflow

Auto airflow direction and auto swing



Long airflow

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

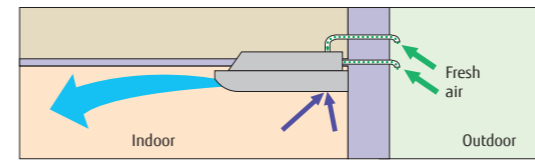


High power DC fan motor

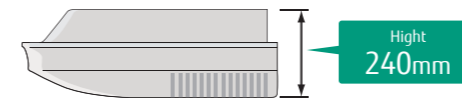
- High power
- Wide rotation range
- High efficiency



Fresh air intake

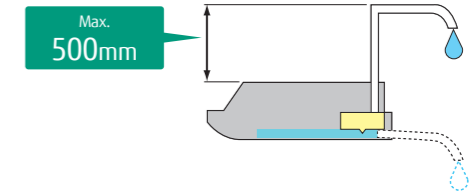


Slim & Compact design



High lift drain pump

Optional drain pump unit allows flexible installation design.



Optional parts

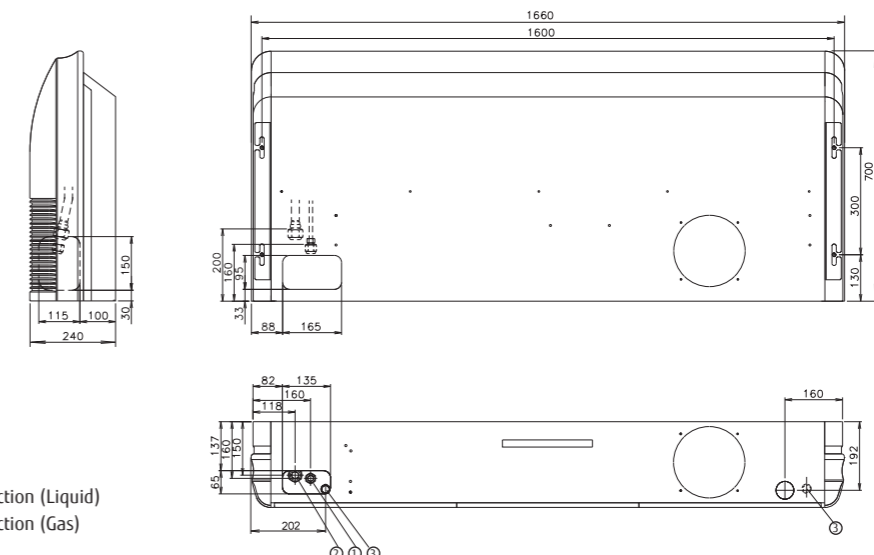
- Drain Pump Unit : UTR-DPB24T
- Flange : UTD-RF204

Specifications

Model name		ABHA30GATH	ABHA36GATH	ABHA45GATH	ABHA54GATH
Power source		Single-phase, ~220-240V, 50Hz			
Capacity	Cooling	9.0	11.2	12.5	14.0
	Heating	10.0	12.5	14.0	16.0
Input power		66	85	131	180
Airflow rate	High	1,630 (452)	1,690 (469)	2,010 (558)	2,270 (629)
	Med	1,370 (379)	1,400 (389)	1,600 (444)	1,780 (493)
	Low	1,140 (316)	1,170 (325)	1,230 (342)	1,280 (355)
Sound pressure level	High	42	45	48	51
	Med	38	38	42	45
	Low	33	34	35	36
Dimensions (H x W x D)		240 x 1,660 x 700	240 x 1,660 x 700	240 x 1,660 x 700	240 x 1,660 x 700
Weight		46 (101)	48 (106)	48 (106)	48 (106)
Connection pipe diameter	Liquid (Flare)	9.52	9.52	9.52	9.52
	Gas (Flare)	15.88	19.05	19.05	19.05
Drain hose diameter (I.D./O.U.)		25 / 32			

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

Dimensions (Unit : mm)



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

Wall Mounted

- | | | |
|------------------------------|------------------------------|------------------------------|
| Models (EEV internal) | Models (EEV internal) | Models (EEV external) |
| ASHA07GACH | ASHA07GATH | ASHE07GACH |
| ASHA09GACH | ASHA09GATH | ASHE09GACH |
| ASHA12GACH | ASHA12GATH | ASHE12GACH |
| ASHA14GACH | ASHA14GATH | ASHE14GACH |



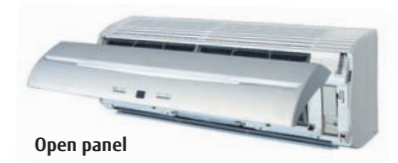
New style high power DC fan motor

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



Easy maintenance

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



Symmetrical design

Symmetrical, clean design that suits all interiors.



Feature

Filter features

High quality air conditioning by incorporation of high performance filter.



Ion Deodorization Filter

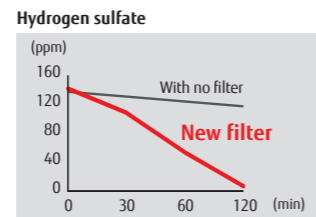
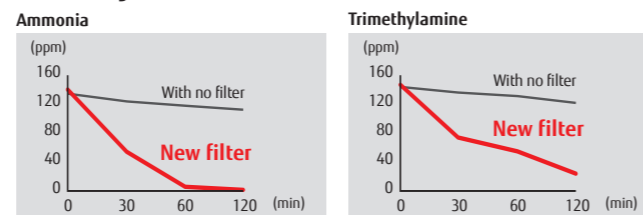
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.



Apple-catechin Filter

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

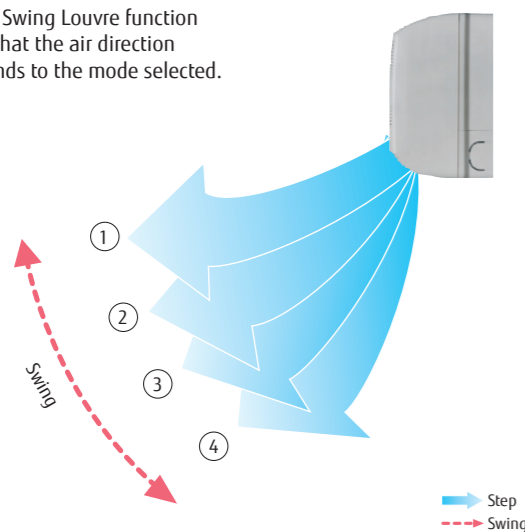
Deodorizing effect (Odor reduction rate)



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

Auto swing louvre

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

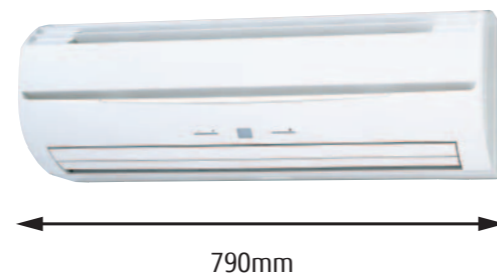


Compact size

Powerful output even compact design

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

Width
790mm

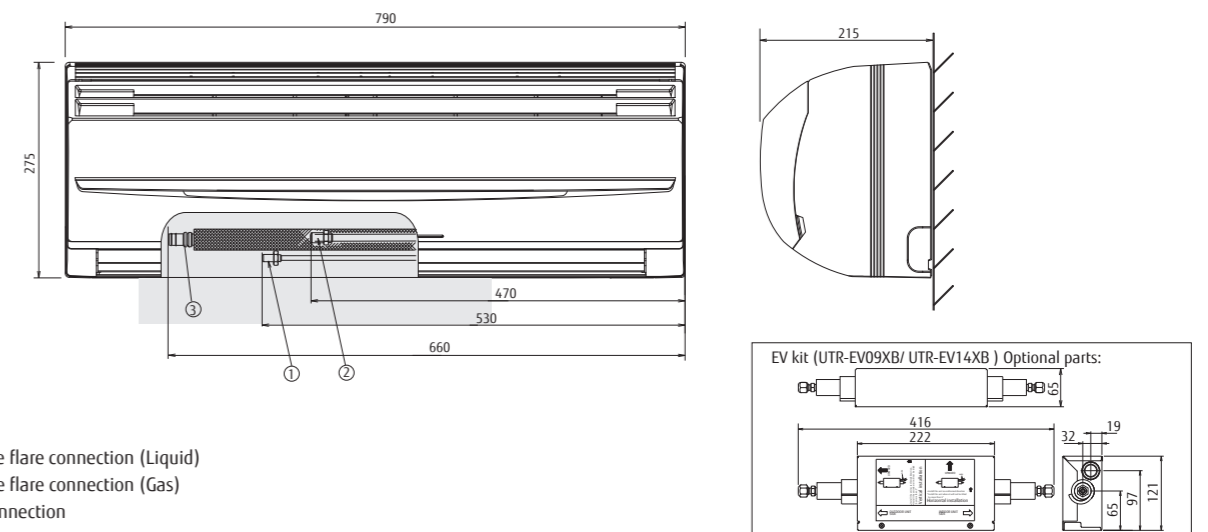


Specifications

Model name		ASHA07GACH ASHA07GATH	ASHA09GACH ASHA09GATH	ASHA12GACH ASHA12GATH	ASHA14GACH ASHA14GATH	ASHE07GACH	ASHE09GACH	ASHE12GACH	ASHE14GACH
Power source		Single-phase, ~220-240V, 50Hz				Single-phase, ~220-240V, 50Hz			
Capacity	Cooling	2.2	2.8	3.6	4.5	2.2	2.8	3.6	4.5
	Heating	2.8	3.2	4.1	5.0	2.8	3.2	4.1	5.0
Input power		17	18	22	34	15	16	21	34
Airflow rate	High	490 (136)	500 (139)	560 (156)	670 (186)	490 (136)	500 (139)	560 (156)	680 (189)
	Med	450 (125)	450 (125)	480 (133)	490 (136)	450 (125)	450 (125)	480 (133)	490 (136)
	Low	370/420*1 (103/117*1)	370/420*1 (103/117*1)	420 (117)	420 (117)	370/420*1 (103/117*1)	370/420*1 (103/117*1)	420 (117)	420 (117)
Sound pressure level	High	35	36	39	44	34	35	38	43
	Med	33	33	35	37	32	32	34	35
	Low	27 / 31*1	27 / 31*1	31	32	26 / 30*1	26 / 30*1	30	30
Dimensions (H x W x D)	mm	275 x 790 x 215	275 x 790 x 215	275 x 790 x 215	275 x 790 x 215	275 x 790 x 215	275 x 790 x 215	275 x 790 x 215	275 x 790 x 215
Weight		9 (20)	9 (20)	9 (20)	9 (20)	9 (20)	9 (20)	9 (20)	9 (20)
		kg(lbs)							
Connection pipe diameter	Liquid (Flare)	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
	Gas (Flare)	12.70	12.70	12.70	12.70	12.70	12.70	12.70	12.70
Drain hose diameter (I.D./O.U.)		13.8 / 15.8 to 16.7				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 : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
*1 : This value is under cooling operation.

Dimensions (Unit : mm)



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

Wall Mounted

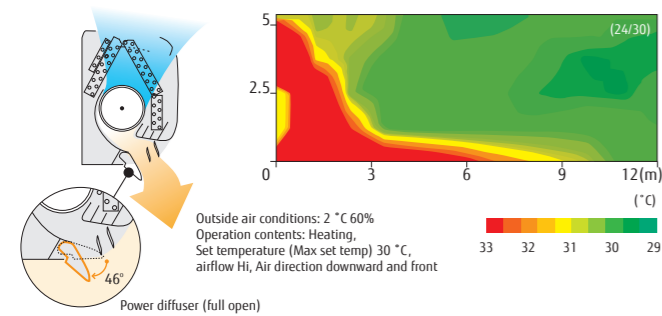
- Models**
 ASHA18GACH ASHA18GATH
 ASHA24GACH ASHA24GATH
 ASHA30GACH ASHA30GATH



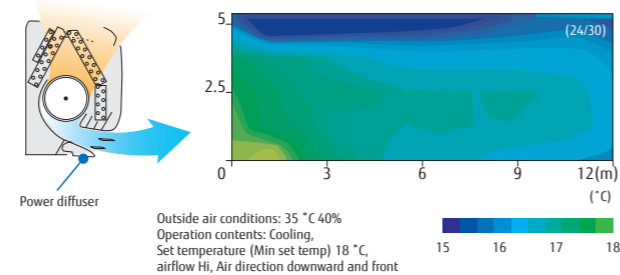
Feature

More comfort airflow by adopting power diffuser

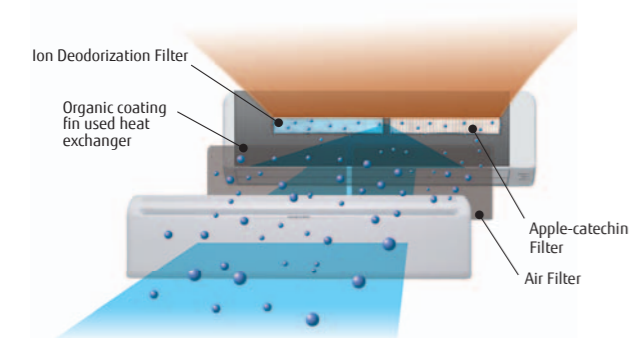
“Vertical airflow” provides powerful floor level heating



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



Air conditioner filter features



High quality air conditioning by incorporation of high performance filter.



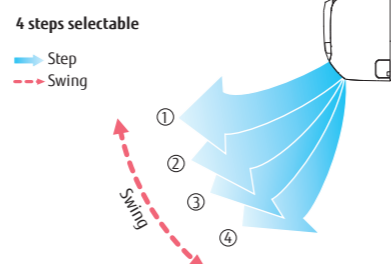
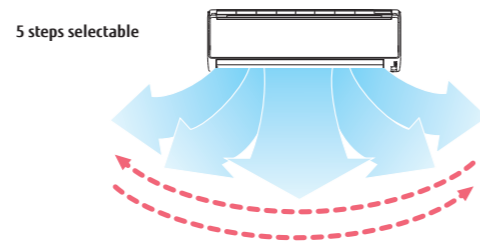
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.



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

Double auto swing

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



Compact & Slim design

By using DC fan motor, compact design is realized.



Easy maintenance

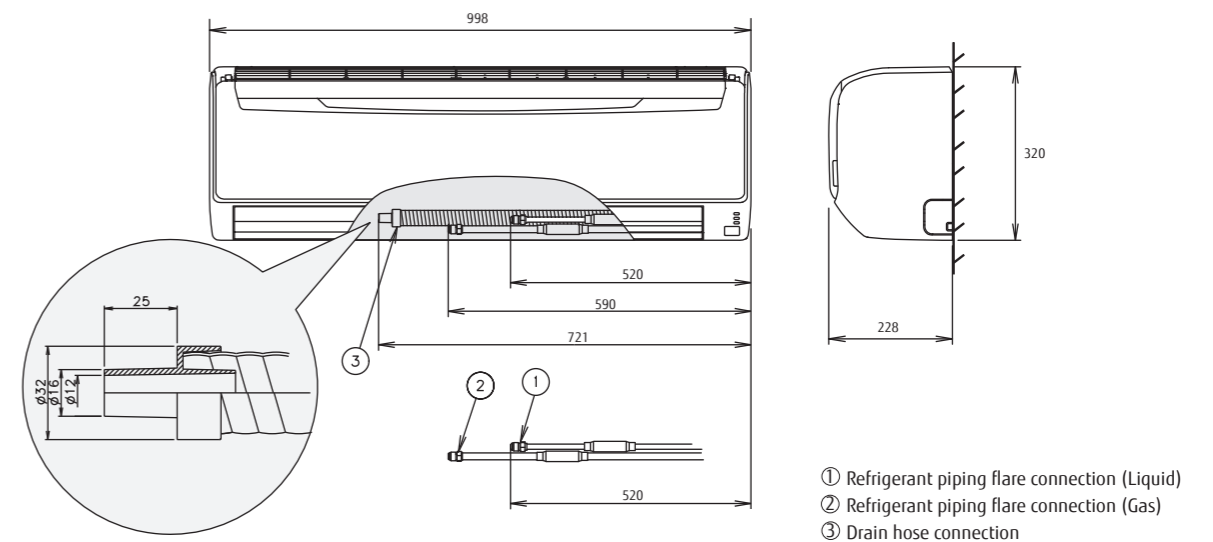
Simplification of drain pan cleaning improves maintenance-ability.

Specifications

Model name	ASHA18GACH ASHA18GATH		ASHA24GACH ASHA24GATH		ASHA30GACH ASHA30GATH	
Power source	Single-phase, ~220-240V, 50Hz					
Capacity	Cooling	kW	5.6	7.1	8.0	
	Heating	kW	6.3	8.0	9.0	
Input power	W		32	60	91	
Airflow rate	High	m ³ /h (l/s)	840 (233)	1,100 (305)	1,240 (343)	
	Med	m ³ /h (l/s)	770 (213)	910 (252)	980 (271)	
	Low	m ³ /h (l/s)	690 (191)	730 (202)	770 (213)	
Sound pressure level	High	dB(A)	41	48	52	
	Med	dB(A)	39	43	45	
	Low	dB(A)	35	35	35	
Dimensions (H x W x D)	mm		320 x 998 x 228		320 x 998 x 228	
Weight	kg (lbs)		15 (33)		15 (33)	
Connection pipe diameter	Liquid (Flare)	mm	9.52		9.52	
	Gas (Flare)	mm	15.88		15.88	
Drain hose diameter (I.D./O.U.)			12 / 16			

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

Dimensions (Unit : mm)



AIRSTAGE™ CONTROL SYSTEMS



User friendly control system provides individual control to centralized control



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

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

CONTROL SYSTEM

CONTROL SYSTEM OVERVIEW

INDIVIDUAL CONTROLLER

CENTRALIZED CONTROLLER

CONVERTOR / ADAPTOR

BEST CONTROL SOLUTION FOR EACH PROPERTY

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

SHOP

Type	Individual Control	Centralized Control				Integrating Control (Interface)			
	Wired Remote Controller UTY-RNRGZ2, UTY-RLRG	Group Remote Controller UTY-CGGG	Central Remote Controller UTY-DCGG	Touch Panel Controller UTY-DTGGZ1	System Controller UTY-APGXZ1, UTY-ALGXZ1	Network Converter for LonWorks® UTY-VLGX	MODBUS® Converter UTY-VMGX	KNX® Converter UTY-VKGX	
Automatic control of A/C (Schedule timer, Weekly timer etc.)	●	●	●	●	●				
Limited control for staff (RC Prohibition, Room temp set point limitation etc.)			●	●	●	●	●	●	
Group Control		●	●	●	●				
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)					●				
Remote Management				●	●				
Manage multiple sites				●	●				
Monitor energy consumption					●				
Control third party products					●				
Integrate FGL A/C into BMS						●	●	●	

HOTEL

Type	Individual Control			Centralized Control				Integrating Control (Interface)				
	Wired Remote Controller UTY-RNRGZ2, UTY-RLRG	Simple Remote Controller UTY-RSRG, UTY-RHRG	Wireless Remote Controller UTY-LNHG	Group Remote Controller UTY-CGGG	Central Remote Controller UTY-DCGG	Touch Panel Controller UTY-DTGGZ1	System Controller UTY-APGXZ1, UTY-ALGXZ1	BACnet® Gateway UTY-ABGXZ1, UTY-VBGX	Network Converter for LonWorks® UTY-VLGX	MODBUS® Converter UTY-VMGX	KNX® Converter UTY-VKGX	External Switch Controller UTY-TERX
Local control for hotel guest	●	●	●									
Centralized A/C control for common space				●	●	●	●	●	●	●		
Limited control for hotel guests					●	●	●	●	●	●		
Remote Management					●	●	●					
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)						●	●					
Monitor energy consumption							●					
Control third party products							●					
Integrate FGL A/C into BMS								●	●	●	●	
Interlock with window contact												●
Interlock with key-card												●

OFFICE

Type	Individual Control			Centralized Control				Integrating Control (Interface)				
	Wired Remote Controller UTY-RNRGZ2, UTY-RLRG	Simple Remote Controller UTY-RSRG, UTY-RHRG	Wireless Remote Controller UTY-LNHG	Group Remote Controller UTY-CGGG	Central Remote Controller UTY-DCGG	Touch Panel Controller UTY-DTGGZ1	System Controller UTY-APGXZ1, UTY-ALGXZ1	BACnet® Gateway UTY-ABGXZ1, UTY-VBGX	Network Converter for LonWorks® UTY-VLGX	MODBUS® Converter UTY-VMGX	KNX® Converter UTY-VKGX	External Switch Controller UTY-TERX
Local control for office staff	●	●	●	●	●							
Automatic control of A/C (Schedule timer, Weekly timer etc.)	●		●	●	●	●	●					
Centralized A/C control for management					●	●	●	●	●	●		
Limited control for office staff (RC Prohibition, Room temp set point limitation etc.)					●	●	●	●	●	●		
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)							●	●				
Remote Management						●	●					
Energy Charge Apportionment						●	●	●				
Monitor energy consumption							●					
Control third party products							●					
Integrate FGL A/C into BMS								●	●	●	●	
Interlock with door contact												●
Interlock with human sensor for meeting room												●

CONTROL SYSTEM OVERVIEW

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

For Light Commercial
• Small VRF



For Commercial
• Large VRF



Air Conditioning Individual Control



NEW
Wired Remote Controller (Touch panel)
UTY-RNRGZ2



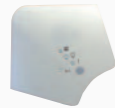
Wired Remote Controller
UTY-RNRG



NEW
Simple Remote Controller
UTY-RSRG
UTY-RHRG
Without operation mode



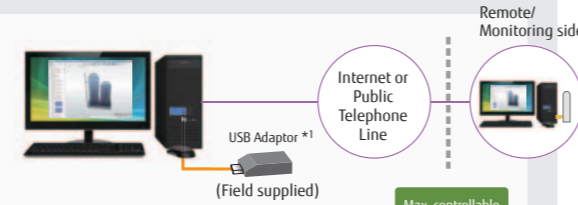
Wireless Remote Controller
UTY-LNHG



IR Receiver Unit
UTB-YWC For Duct type
UTY-LRHGB1 For Cassette type

For Duct For Cassette

Air Conditioning Centralized Control



NEW
System Controller (Software)
UTY-APGXZ1 / UTY-ALGXZ1 (Lite edition)
Max. controllable 1600* Indoor units

*: Lite edition is max. controllable 400 indoor units



NEW
Touch Panel Controller
UTY-DTGGZ1
Max. controllable 400 Indoor units



Central Remote Controller
UTY-DCGG
Max. controllable 100 Indoor units



Group Remote Controller
UTY-CGGG
Max. controllable 8 Remote Controller Groups

Network Converter
UTY-VGGXZ1

Converter / Adaptor For external device

NEW
BACnet® Gateway
UTY-ABGXZ1 (Software)

NEW
BACnet® Gateway
UTY-VBGX (Hardware)

Network Converter (BMS/LONWORKS®)
UTY-VLGX

MODBUS® Converter
UTY-VMGX

MODBUS® Interface
FJ-RC-MBS-1

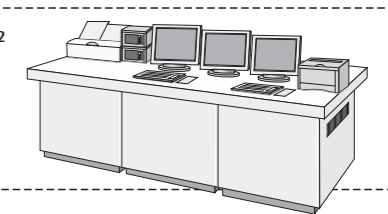
NEW
KNX® Converter For VRF
UTY-VKGX

KNX® Interface
FJ-RC-KNX-1i

Wireless LAN Interface
FJ-RC-WIFI-1

NEW
External Switch Controller
UTY-TERX

BMS/BAS *2



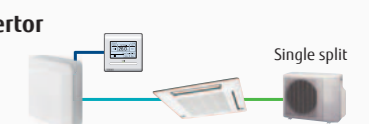
BMS, Home automation system



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

Converter / Adaptor For system expansion

Network Converter (DC power supply)
UTY-VTGX

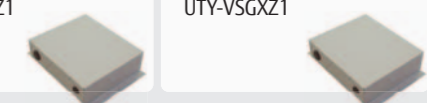


Network Converter (AC power supply)
UTY-VTGXV













Network Converter
UTY-VGGXZ1

Signal Amplifier
UTY-VSGXZ1



COMPARISON TABLE OF CONTROLLERS

Item										
	Wired Remote Controller (Touch panel) UTY-RNRGZ2	Wired Remote Controller UTY-RLRG	Simple Remote Controller UTY-RSRG	Simple Remote Controller *1 UTY-RHRG	Wireless Remote Controller UTY-LNHG	Group Remote Controller UTY-CGGG	Central Remote Controller UTY-DCGG	Touch Panel Controller UTY-DTGGZ1	System Controller Lite UTY-ALGXZ1	System Controller UTY-APGXZ1
Model name	UTY-RNRGZ2	UTY-RLRG	UTY-RSRG	UTY-RHRG	UTY-LNHG	UTY-CGGG	UTY-DCGG	UTY-DTGGZ1	UTY-ALGXZ1	UTY-APGXZ1
Max. controllable remote controller groups	1	1	1	1	1	8	100	400	400	1600
Max. controllable indoor units	16	16	16	16	16	128	100	400	400	1600
Max. controllable groups	-	-	-	-	-	-	16	400	400	1600
Air conditioning control function	On / Off	●	●	●	●	●	●	●	●	●
	Operation mode setting	●	●	●	-	●	●	●	●	●
	Fan speed setting	●	●	●	●	●	●	●	●	●
	Room temp. setting	●	●	●	●	●	●	●	●	●
	Room temp. set point limitation	●	●	●	●	-	-	●	●	●
	Test operation	●	●	●	●	●	-	●	-	-
	Up/down air direction flap setting	●	●	●	●	●	-	●	●	●
	Right/left air direction flap setting	●	●	-	-	●	-	●	●	●
	Individual louver control	●	-	-	-	-	-	●	-	-
	Group setting	-	-	-	-	-	-	●	●	●
	RC prohibition	-	-	-	-	-	-	●	●	●
	Anti freeze setting	●	-	-	-	-	-	●	●	●
	Set temp. auto return	●	●	-	-	-	-	●	-	-
	Economy mode setting	●	●	-	-	●	-	●	●	●
Human sensor control	●	-	-	-	-	-	●	●	●	
Display	Error	●	●	●	●	-	●	●	●	●
	Defrosting	●	●	●	●	-	-	●	●	●
	Current time	●	●	-	-	●	-	●	●	●
	Day of week	●	●	-	-	-	●	-	●	●
	R.C. prohibition	●	●	●	●	-	●	●	●	●
	Cooling/heating priority	●	●	●	●	-	●	●	●	●
	Address display	●	●	●	●	-	●	●	●	●
	Room temp	●	-	●	●	-	-	●	-	-
	Multi language	●	-	-	-	-	-	●	●	●
	Summer time	●	-	-	-	-	-	●	●	●
	Name registration	●	-	-	-	-	-	●	●	●
	Backlight	●	-	●	●	-	-	●	-	-
	2D floor layout / 3D building display	-	-	-	-	-	-	-	-	-
	Timer	Schedule timer	Period	Week	Week	-	-	Week	Week	Year
On/off, Temp, Mode, Times per day			8	4	-	-	4	20	20	144
On/off timer		●	●	-	-	●	-	-	-	-
Sleep timer		-	-	-	-	●	-	-	-	-
Program timer		-	-	-	-	●	-	-	-	-
Auto off timer		●	●	-	-	-	-	●	-	-
Day off		●	●	-	-	-	-	●	●	●
Min. unit of timer setting (Minutes)	10 • 30	30	-	-	5	10	10	10	10	
Control	Status monitoring system	-	-	-	-	-	●	●	●	●
	Electricity charge apportionment	-	-	-	-	-	-	○	○	○
	Error history	●	●	-	-	-	●	●	●	●
	Emergency stop	-	-	-	-	-	-	●*2	●*2	-
	Remote management	-	-	-	-	-	-	●	○	●
	Energy saving management	-	-	-	-	-	-	-	○	○
	E-mail notification for malfunction	-	-	-	-	-	-	●	●	●
	Key lock	● Child lock	● Child lock	-	-	-	● Child lock	● 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.
 ●: Supported ○: Optional function - : Not supported yet

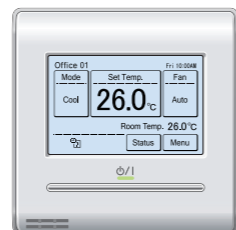
Wired Remote Controller (Touch Panel)

Max. controllable
16
indoor units

NEW UTY-RNRGZ2

Easy operation by high-definition large STN-LCD touch panel screen

- Easy finger touch operation with LCD panel
- Built-in weekly/Daily timer (ON/OFF, Temp., Mode)
- Backlight enables easy operation in a darkened room
- Room temperature display
- Control up to 16 indoor units
- Corresponds to 12 different languages (English, Chinese, French, German, Spanish, Russian, Polish, Italian, Greek, Portuguese, Turkish and Dutch)
- 2-wire type



Functions

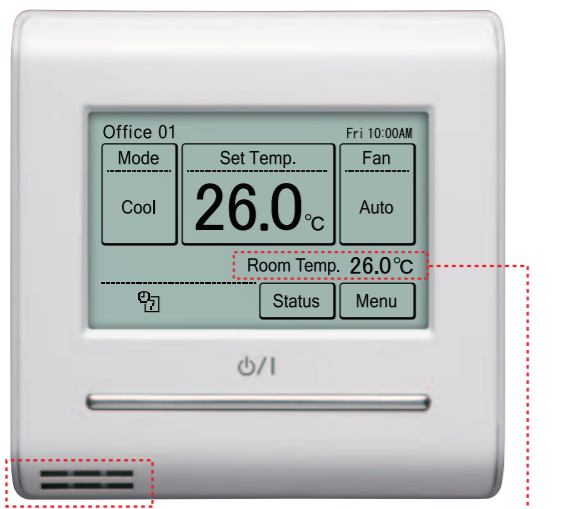
High performance and compact size

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



Accurate and comfortable control

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

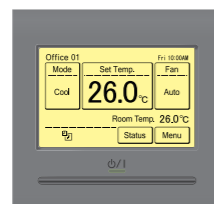


Room temperature sensor

Room temperature display

Backlight

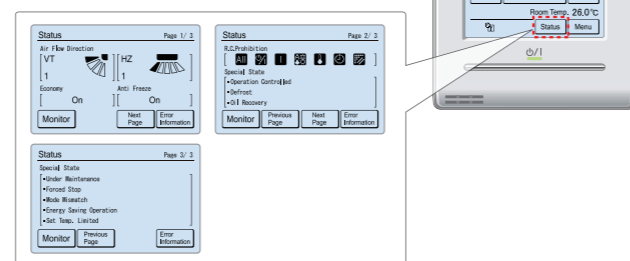
- Backlight enable easy operation in a darkened room.
- For the lighting time of Backlight, 30 or 60 seconds can be set.
- Backlight activates while the buttons are operated and goes off 30 or 60 seconds after the operation stops.



Various convenient functions

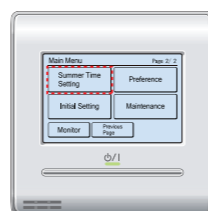
Displays setting status and Limitations

- The remote controller settings can be easily checked



Summer Time display

- This function can be set easily from Menu screen



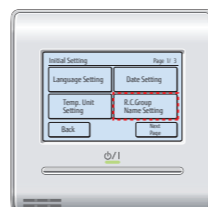
Child lock

- 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.



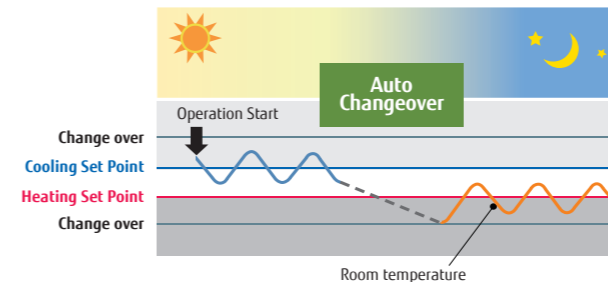
Various energy saving control

Custom Auto

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

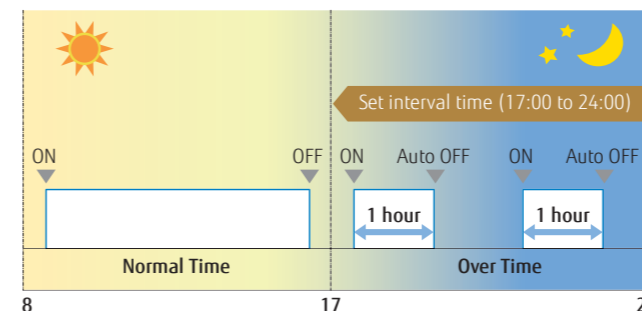
* This function is not available for some models.

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



Auto OFF timer

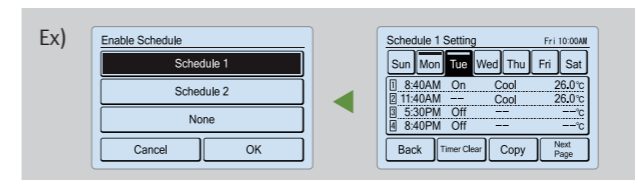
- The indoor unit automatically is turned off when it reaches the preset operating time frame.
- The time frame of the "Auto off timer" can be flexibly scheduled.
- Can be set off time 30 to 240 minutes



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

2 schedules Weekly Timer

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



Set Temperature Auto Return

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

Set Temperature Upper and Lower Limit Setting

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

Specifications

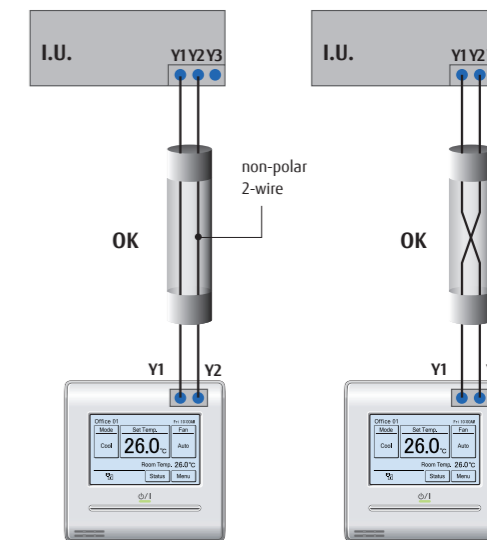
Model name	UTY-RNRGZ2
Power Supply	DC 12V
Dimensions (H x W x D) (mm)	120 x 120 x 20.4
Weight (g)	220

DC12V is supplied by indoor unit.

Simplified installation

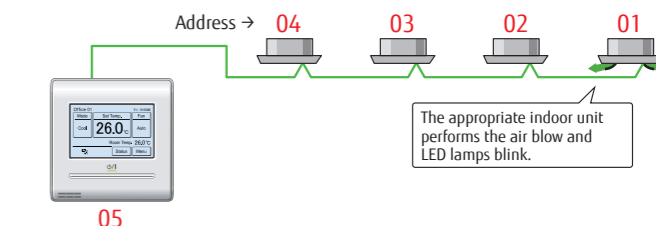
Uses non-polar 2-wire type

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



Auto Address Setting/Setting Position Notification

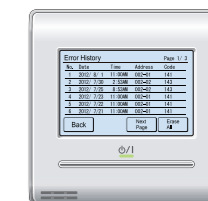
- Reduce errors and install time compared with the current specification Rotary SW
- When will be set remote controller groups, can also be set automatically new Wired remote controller address
- After auto address setting of new wired remote controller groups, what number can also confirm addresses



Easy Maintenance

Error History Display

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



Wired Remote Controller

Max. controllable
16
indoor units

UTY-RLRG



- Various timer setup (ON / OFF / WEEKLY) are possible.
- The room temperature can be controlled by detecting the temperature accurately with Built-in thermo sensor.
- When a failure occurs, the error code is displayed.
- Error history. (Last 16 error codes can be accessed.)
- 2-wire type

Functions

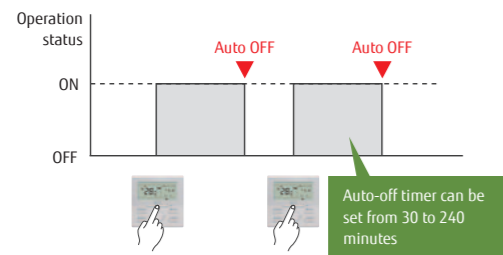
High performance and compact size

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



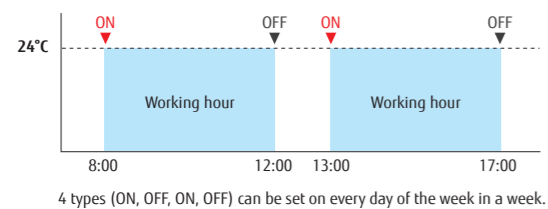
Auto-off timer

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



Weekly timer function

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



Specifications

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

DC12V is supplied by indoor unit.

Simple Remote Controller

Max. controllable
16
indoor units

NEW UTY-RSRG

NEW UTY-RHRG (Without Operation mode)



UTY-RSRG

UTY-RHRG

Without Operation mode

Compact remote controller provides access to basic functions

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

Functions

Corresponding to various applications

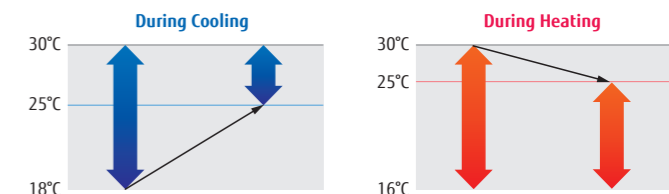
Vertical louver control:

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



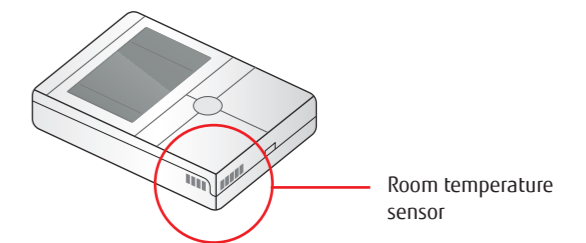
Room temperature set point limitation:

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



Built in room temperature sensor:

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



Specifications

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

DC12V is supplied by the indoor unit.

Wireless Remote Controller

UTY-LNHG

Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.



Max. controllable
16
indoor units

Selectable
4
daily timers

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.

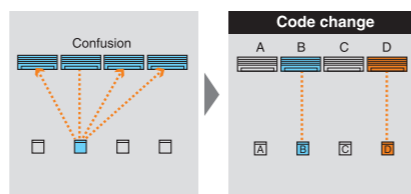
Heating operation
When the sleep timer is set, the set temperature automatically drops 1°C every 30 minutes. The set temperature can drop to a max. of 4°C.

Specifications

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

Easy installation and operation

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

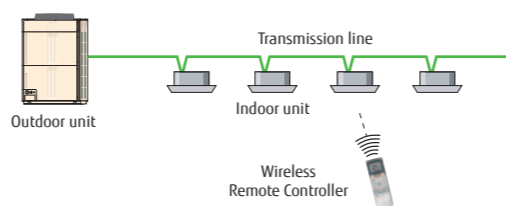


Wide and precise



Address setting

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



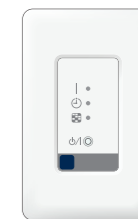
IR Receiver Unit

UTB-YWC

Necessary to control for all Duct types* by Wireless Remote Controller

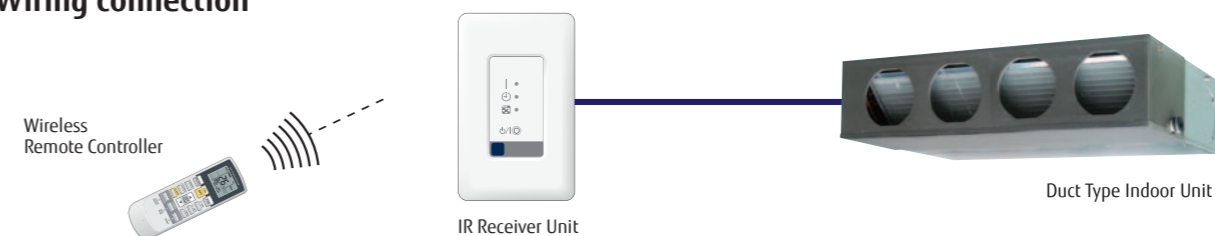
*Only Large Airflow Duct can not be connected to IR Receiver Unit.

- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.



Functions

Wiring connection



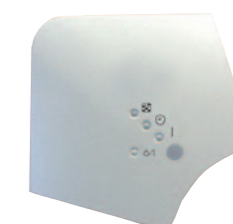
Specifications

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

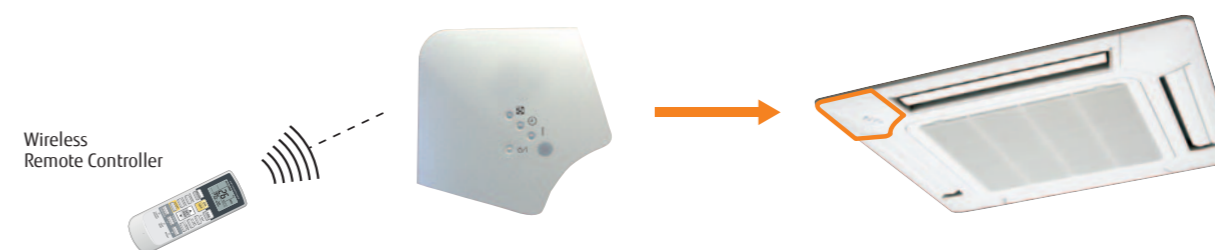
IR Receiver Unit

UTY-LRHGB1

Cassette type indoor unit can be controlled with Wireless Remote Controller



Functions



Specifications

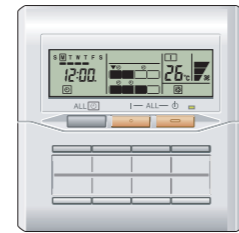
Model name	UTY-LRHGB1
Power Supply	DC 5V
Dimensions (H x W x D) (mm)	193.9×193.9×31.2
Weight (g)	140

Group Remote Controller

UTY-CGGG

Group control of indoor units with simple operation

- Up to 8 remote controller groups can be controlled by one Group Remote Controller.
- Up to 64 Group Remote Controllers can be connected in one VRF network system.
- Network Converter (UTY-VGGXZ1) is required to connect Group Remote Controllers to a VRF network system.
(Network Converter allows up to 4 Group Remote Controllers)



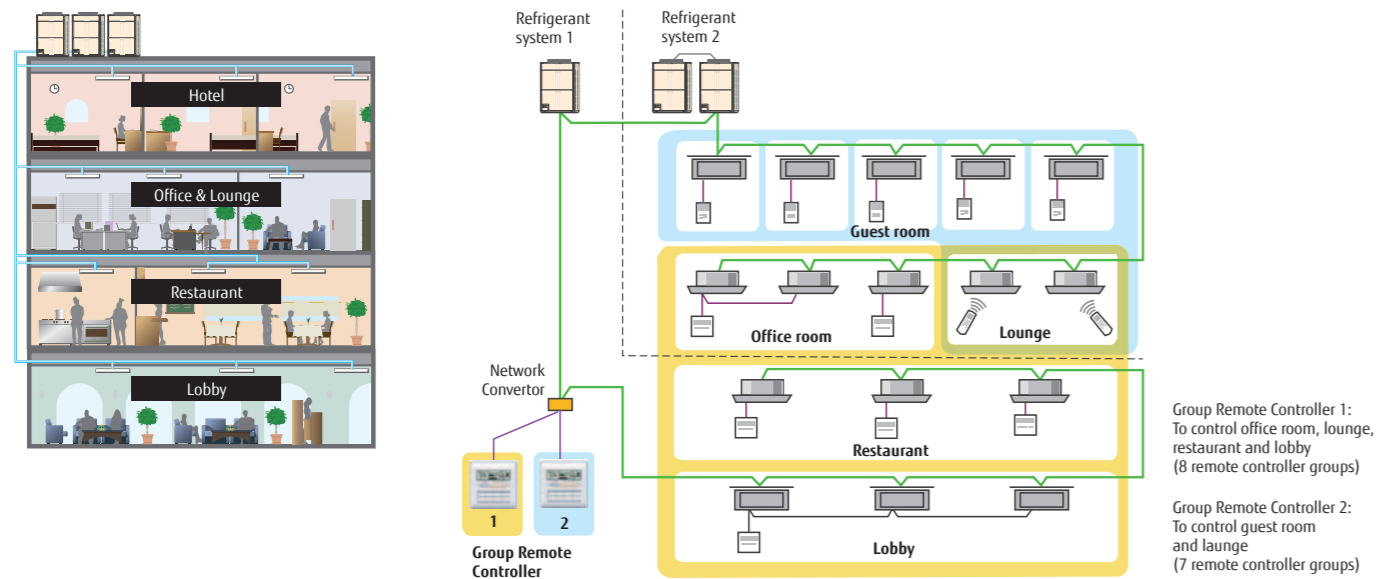
Max. controllable
8
remote controller groups

Max. controllable
64
group R.C. in a VRF network system

Functions

Control up to 8 remote controller groups

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



High performance and compact size

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



Built-in weekly timers

The weekly timer is provided as a standard function.

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

Specifications

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

DC12V is supplied by a network converter.

Central Remote Controller

UTY-DCGG

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



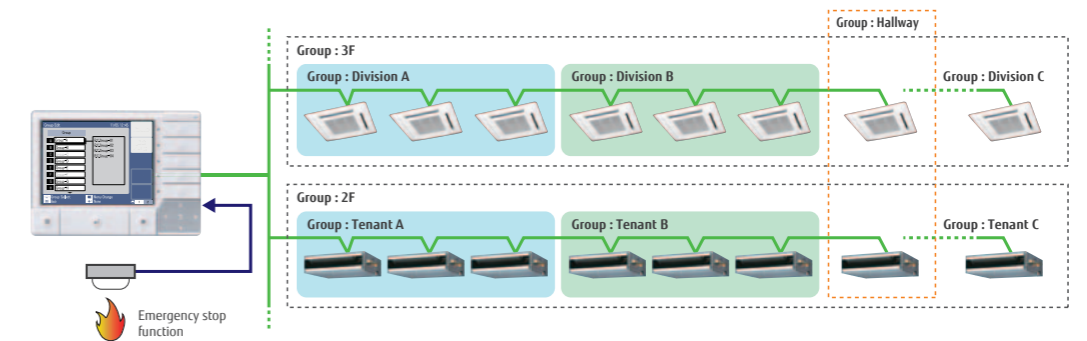
Max. controllable
100
Indoor units

Max. controllable
16
groups

Functions

System overview

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



Functions

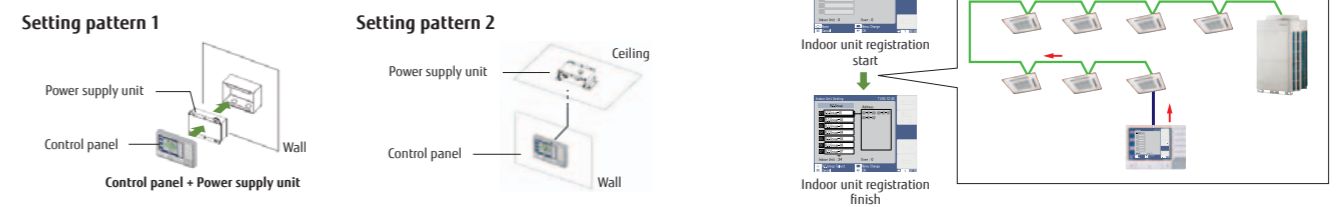
- Diverse control of indoor units
- Remote controller prohibition (All, On / Off, Mode, Temp, Timer, Filter)
- Weekly timer
- Error history
- Automatic clock adjustment



Easy Installation

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

- Automatic or manual indoor unit registration



Specifications

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

Touch Panel Controller

NEW UTY-DTGGZ1

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

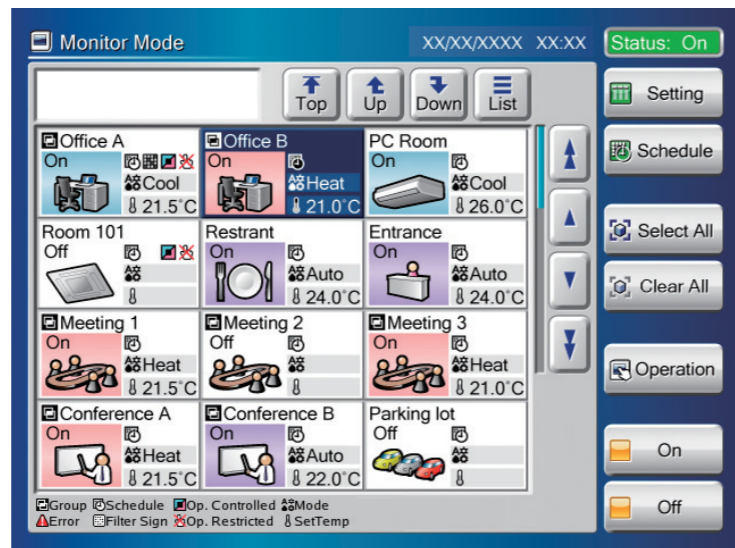


- Max. controllable
400
Indoor units
- Max. controllable
100
Outdoor units
- Max. controllable
400
Groups

Functions

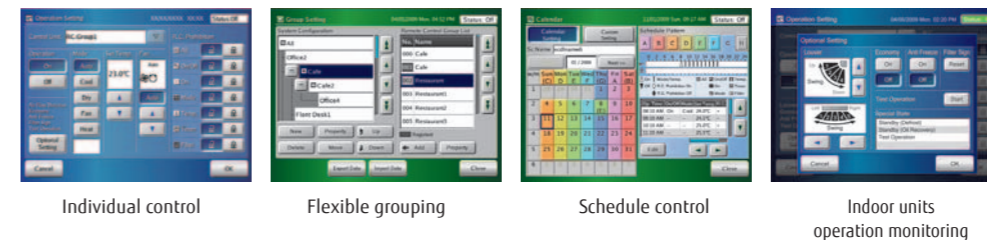
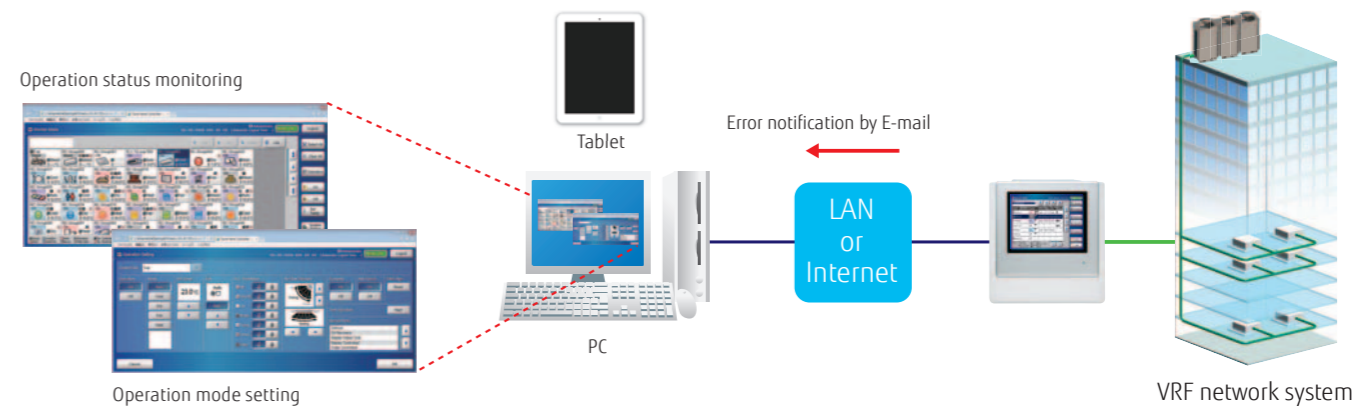
Control & monitoring from anywhere

- Control and monitor Fujitsu's air conditioner via LAN or Internet.
- Allow user or tenant to manage only assigned equipment by their PC or tablet from anywhere.
- Error contents are notified automatically by E-mail at error occurrence to handle the trouble promptly.



Control & monitoring from anywhere

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- Allow user or tenant to manage only assigned equipment by their PC or tablet from anywhere.
- Error contents are notified automatically by E-mail at error occurrence to handle the trouble promptly.



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

Smart Phone

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

Tablet

Model	Browser
ipad Pro 9.7inch (iOS 10.2.1)	Safari 10

Easy maintenance

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

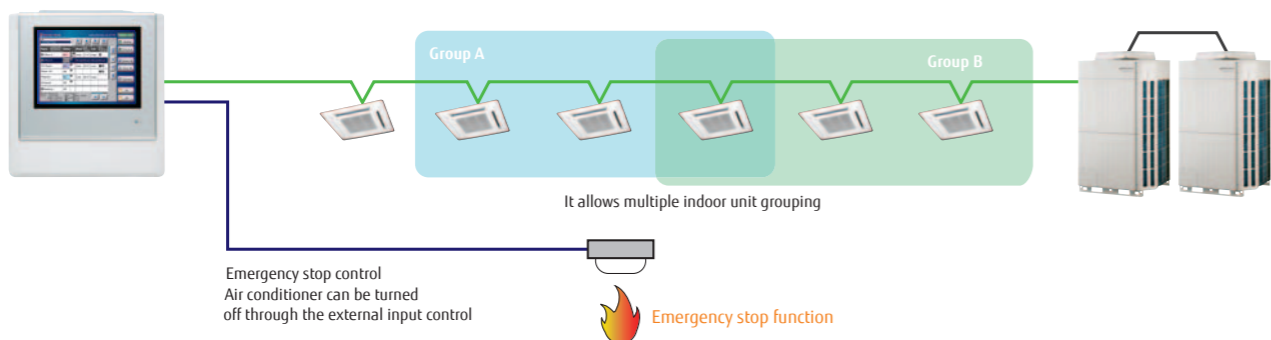


Easy installation

- Touch Panel Controller is easily mounted to the wall.
- Flat back surface allows to be installed wherever it is needed.
- No additional component is required for installation



Up to 400 indoor units can be controlled

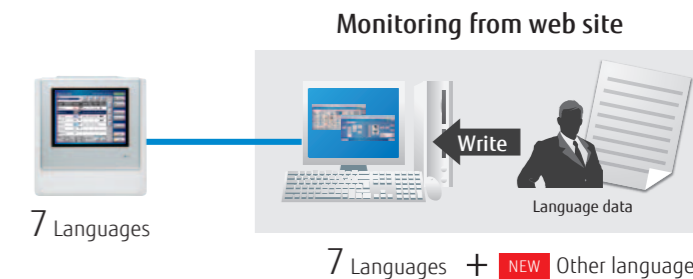
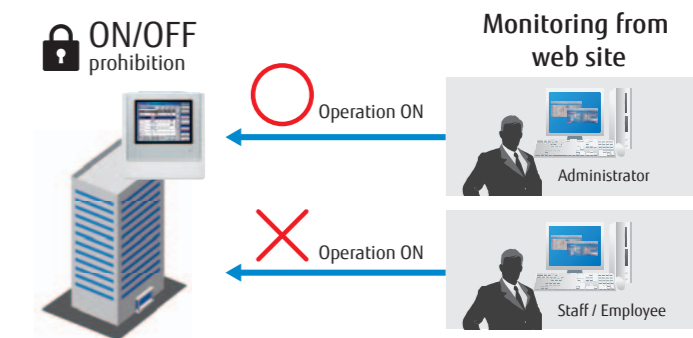


Additional languages function

Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish as standard.

Additional language can be integrated on remote device by creating language database.

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



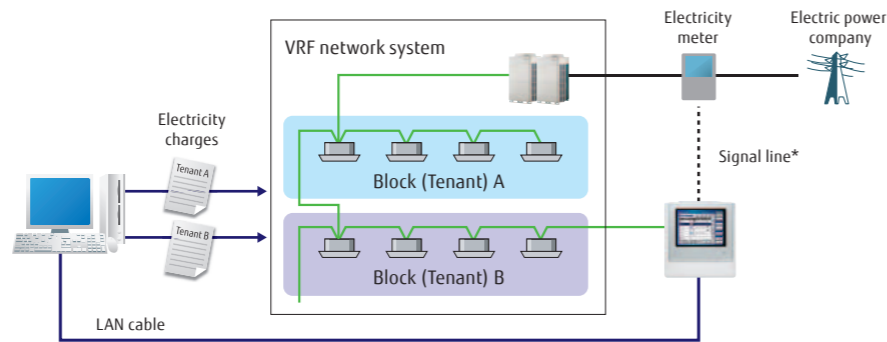
Functions

Electricity charge apportionment

Option UTY-PTGX

- Electricity charge apportionment can be performed easily for the power consumed when billing users for air conditioning power charges.

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



*: Electricity meter (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.

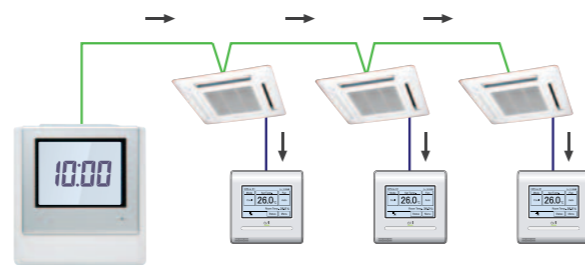
Automatic summer time setting

Providing function

- 1) Schedule setting of summer time setting
 - It prevents the user from forgetting to set summer time. In addition, it reduces the time and labor of user.

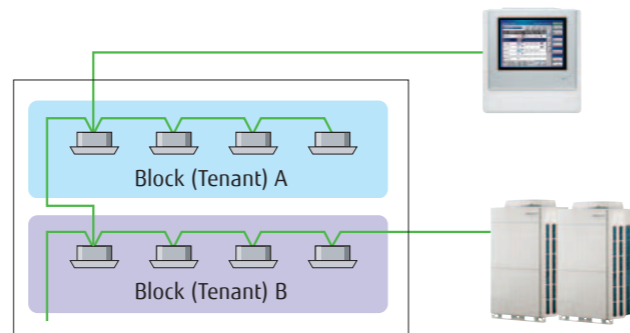
Automatic clock adjustment

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

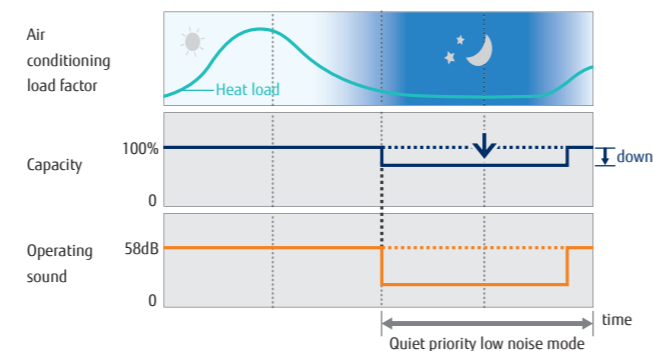


Outdoor low noise operation

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



Quiet priority setting



FUNCTIONS SUMMARY

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

●: Supported ○: Optional function —: Not supported yet
 *1 Only setting cancellation can be operated.
 *2 This function is available only through external input control.

Specifications

Model name	UTY-DTGGZ1
Power Supply	100-240V 50/60Hz, Single phase
Dimensions (H x W x D) (mm)	260 x 246 x 54
Weight (g)	2,150
Interface	Transmission / LAN / USB / EXT IN / EXT OUT / Reset SW

	UTY-DTGGZ1	Monitoring side
Timer		
	Period	Year
Schedule timer	On/off, Temp, Mode, Times per day	20
On/off timer	—	—
Sleep timer	—	—
Program timer	—	—
Auto off timer	—	●
Day off	●	●
Min. unit of timer setting (Minutes)	10	10
Control		
Status monitoring system	●	●
Electricity charge apportionment	○	○
Error history	●	●
Emergency stop	●*2	●*2
Remote management	—	●
Energy saving management	—	—
E-mail notification for malfunction	—	●
Key lock	● Password setting	—
Low noise mode	●	●

System Controller

Software

NEW UTY-APGXZ1

System Controller realizes the advanced integrated monitoring & control of VRF network system from small scale buildings to large scale buildings.

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.



- Max. controllable
4
VRF network systems
- Max. controllable
400
Outdoor units
- Max. controllable
1,600
Indoor units

System Controller Lite

Software

NEW UTY-ALGXZ1

System Controller Lite has standard functions sufficient for air conditioner management in small and medium scale buildings.

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



- Max. controllable
1
VRF network systems
- Max. controllable
100
Outdoor units
- Max. controllable
400
Indoor units

Functions

User friendly view and operation

- **Click & Operate** : The property is shown visually from the perspective most suitable for operation and operated accordingly (Click & Operate). You can select from among the 4 displays of site, building, floor, or list.
- **Freely define groups for batched control** : Indoor units can be freely grouped for simple batched control from a tree menu. Grouping by hierarchal structure, such as by section, division or department is possible.

Click & Operate the whole building ! Properties can be shown using one of the four displays of site, building, floor, or list.

Click & Operate any specified unit(s)!

The display is easily changed by pressing the button.

Batched control of freely defined groups

Batched control of freely selected units

Click & Operate the whole floor !

Batched control of freely selected units

The floor layout drawing can be imported to easily make the settings for the actual building.

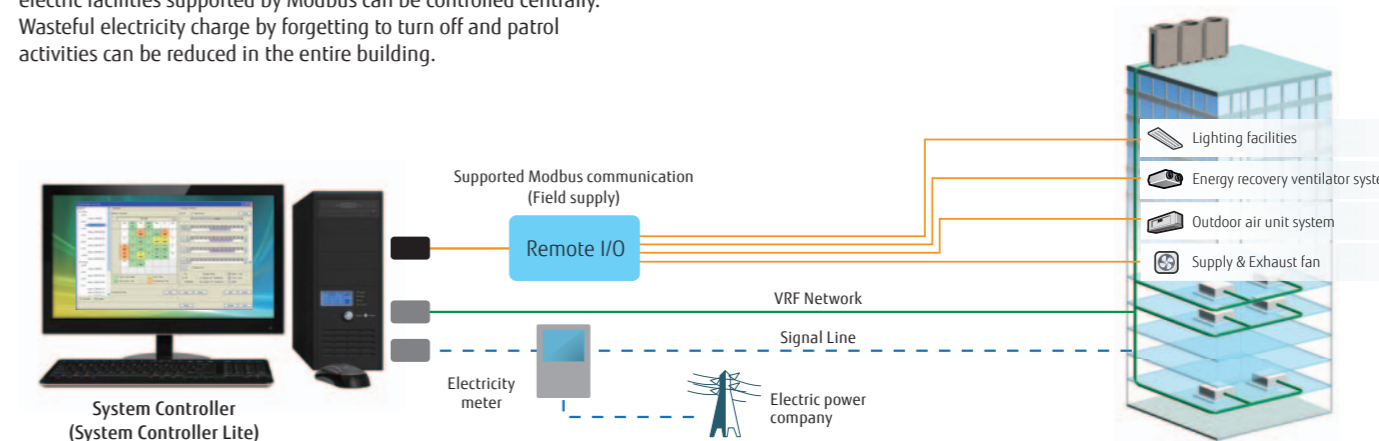
Click & Operate the unit !

Note: 2D floor layout / 3D building display are not available for System Controller Lite.

3rd party devices connected by Modbus can be controlled.

Standard for System Controller
Option for System Controller Lite UTY-PLGXZ

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



Diverse operation management & Data management

Schedule management

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



Diverse control of indoor 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

Error display & E-mail notification

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

Remote controller prohibition

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

Data base import/export

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

Automatic clock adjustment

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

Operating & control record

Displays the history of operation status and control.

Electricity charge apportionment

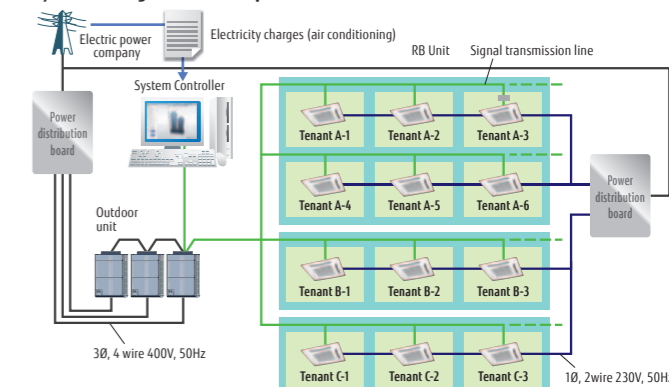
Standard for System Controller
Option for System Controller Lite UTY-PLGXZ

Electricity charge apportionment calculation framework

Suppose you want to find the power consumed by the air conditioners of each tenant from the electricity charge for each month. With electricity charge apportionment function, used energy apportionment ratio will be provided, calculating in detail the energy consumed by the units used by each tenant. This information is then used to calculate the charges for the electricity consumed for air conditioning by each tenant from the total electricity charges in the bill from the electric power company. (See figure at right)

The detailed calculation takes into consideration such things as unused rooms and nighttime electricity charges and shows them in a charges calculation sheet.

System Configuration Example



BACnet® Gateway



NEW UTY-ABGXZ1

- It is possible to connect medium to large sized BMS to VRF network system via BACnet®, a global standard for open networks.
- A maximum of 1600 indoor units with 4 VRF network systems (a maximum of 400 indoor units & 100 outdoor units for one network system) can be connected to one BACnet® Gateway.
- It is possible to control or monitor VRF network system from BMS via BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.
- Scheduling function, Alarm & Event functions as well as Electricity Change Apportionment function are provided in BACnet® Gateway.
- Connection between VRF network system to personal computer is possible via small U10 USB interface. However, both U10 USB interface & personal computer are field supplied items.
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.

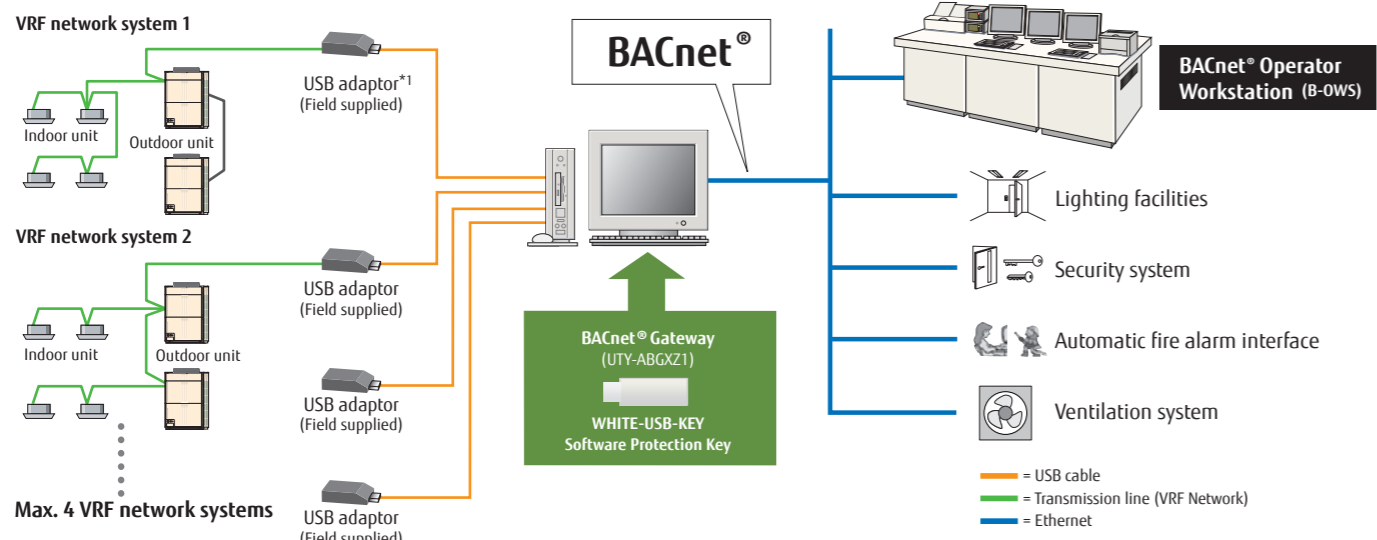
Max. controllable
4
VRF network systems

Max. controllable
400
Outdoor units

Max. controllable
1,600
Indoor units

Functions

Installation example



*1: USB adaptor is U10 USB Network Interface of Echelon® Corporation.

Personal computer system requirements

	UTY-ABGXZ1
Operating system	<ul style="list-style-type: none"> • Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher
Memory	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Ethernet port (for getting access to the Internet using LAN) • USB ports (Maximum of 5 ports) <ul style="list-style-type: none"> - 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.)

<Packing list>

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

BACnet® Gateway (Hardware)



NEW UTY-VBGX

- BACnet® Gateway enables to connect a BMS and FG VRF system.
- A maximum of 128 indoor units and 32 refrigerant system can be connected to a single BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2010) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.

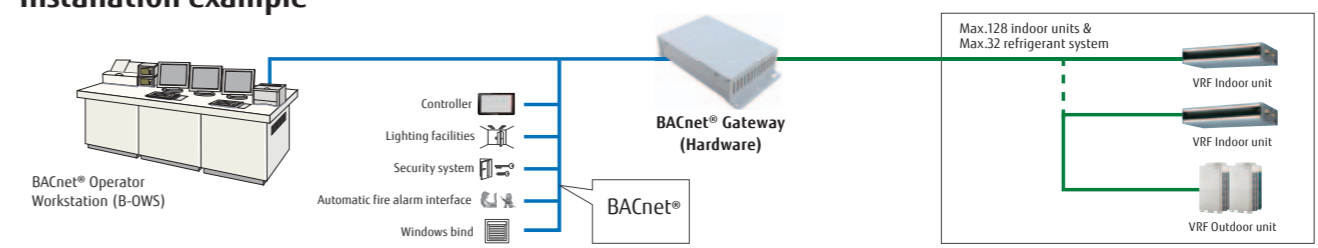
Max. controllable
1
VRF network system

Max. controllable
32
Refrigerant system

Max. controllable
128
Indoor units

Functions

Installation example



Specifications

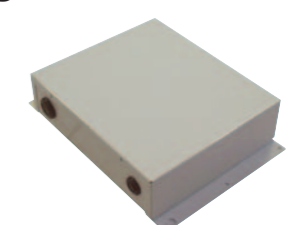
Model name	UTY-VBGX
Number of controllable indoor units	128
Number of controllable refrigerant system	32
Number of controllable VRF network	1
Number of connectable units / one VRF network	4

Model name	UTY-VBGX
Power Supply	208-240V 50/60Hz, single phase
Power Consumption (W)	4.6 (max)
Dimensions (H x W x D) (mm)	59.6 x 270.4 x 176
Weight (g)	1,200

Network Convertor for LONWORKS®

UTY-VLGX

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



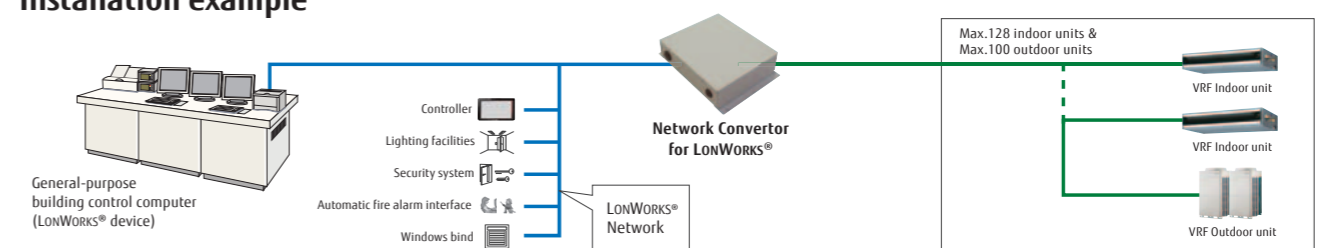
Max. controllable
4
Units to BMS

Max. controllable
100
Outdoor units

Max. controllable
128
Indoor units

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 x 288 x 211
Weight (g)	1,500

Transmission specifications (BMS side)

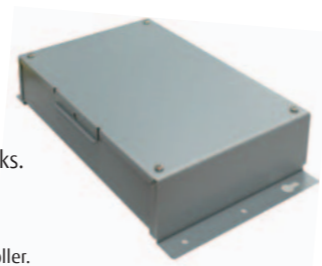
Transmission speed	78 kbps
Transceiver	FT-X1 (Echelon® Corporation)
Transmission way form	Free topology
Terminal resistor	None (It attaches at the terminal of a network.)

MODBUS® Convertor

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.

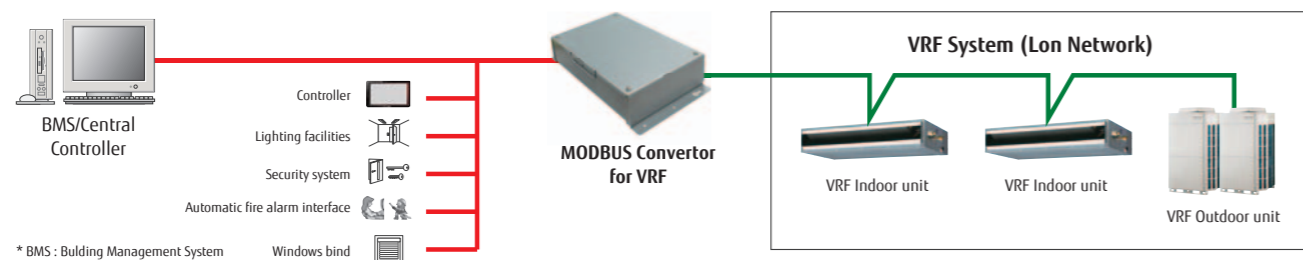


Max. connectable
9
units to one VRF

Max. controllable
100
outdoor units

Selectable
128
indoor units

Functions



Specifications

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

MODBUS® Interface

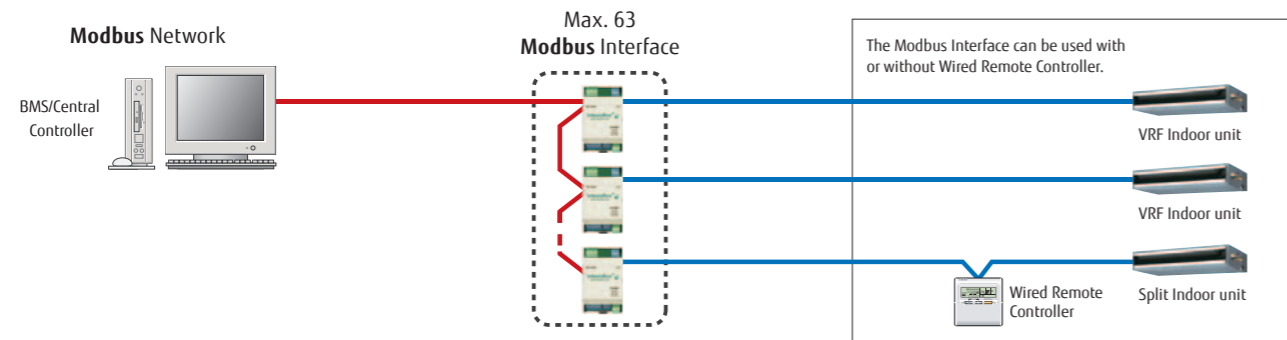
FJ-RC-MBS-1

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

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



Functions



Specifications

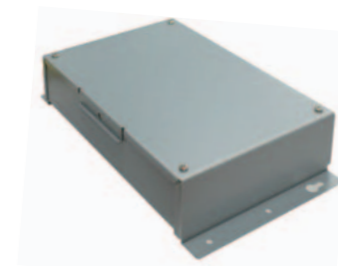
Model name	FJ-RC-MBS-1
Dimensions (H x W x D) (mm)	93x53x58
Weight (g)	85

KNX® Convertor (for VRF)

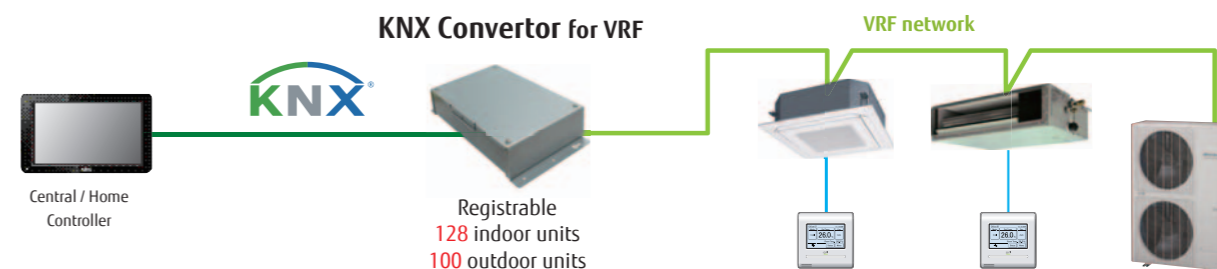
NEW UTY-VKGX

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

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



Functions



Specifications

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

KNX® Interface

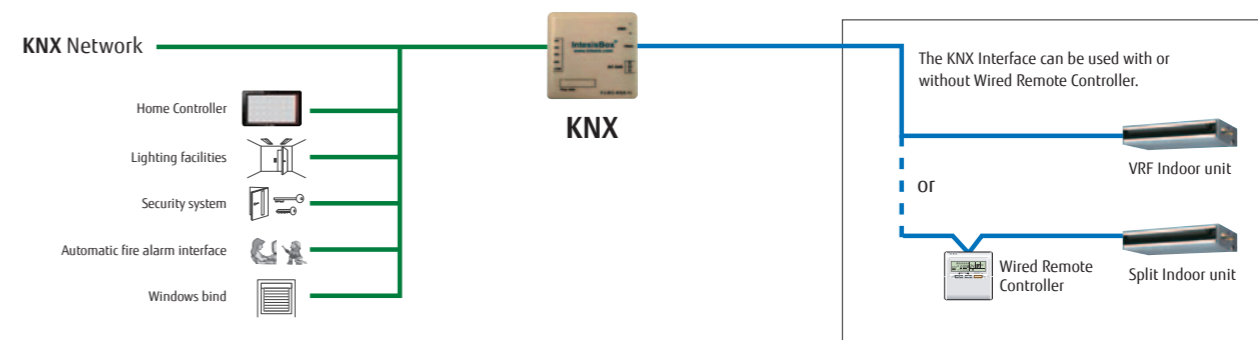
FJ-RC-KNX-1i

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

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



Functions



Specifications

Model name	FJ-RC-KNX-1i
Dimensions (H x W x D) (mm)	70x70x28
Weight (g)	70

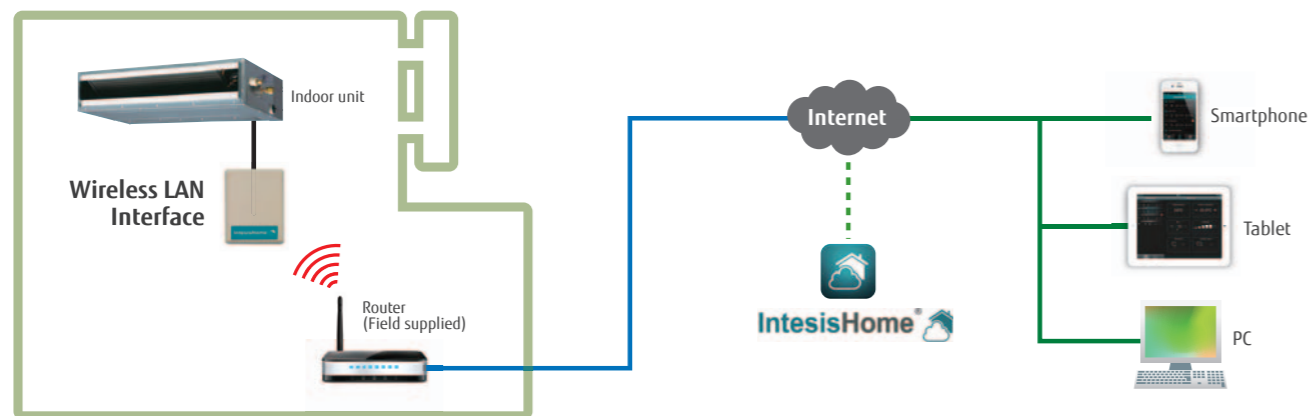
Wireless LAN Interface **IntesisHome**

FJ-RC-WIFI-1

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



Functions



Basic control

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



(Application screen image)

Advanced control (Optional functions)

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

Notifications and History

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

Specifications

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

Network Convertor

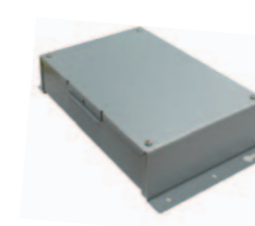
UTY-VTGX (DC power supply type)

UTY-VTGXV (AC power supply type)

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



UTY-VTGX
DC power supply type



UTY-VTGXV
AC power supply type

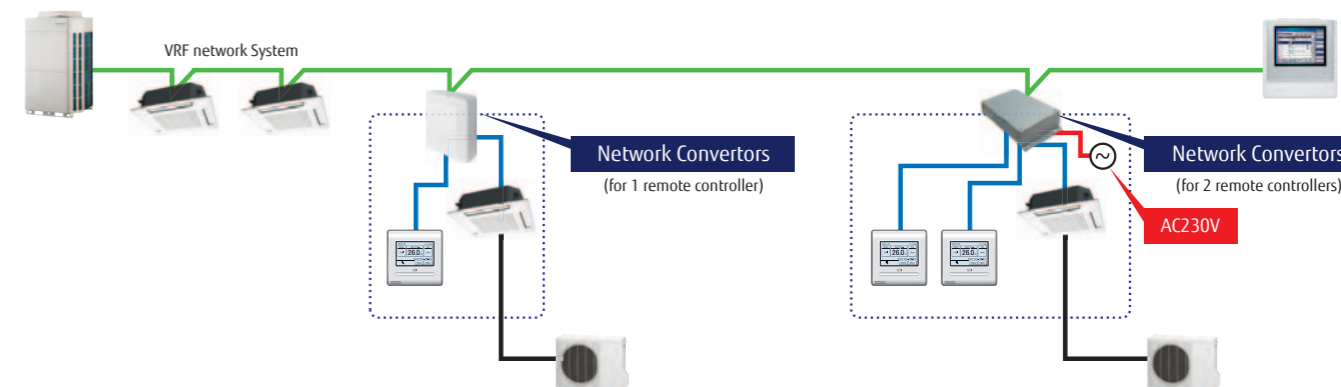
Max. controllable
16
single indoor
units

Max. controllable
100
Network
Convertors

Functions

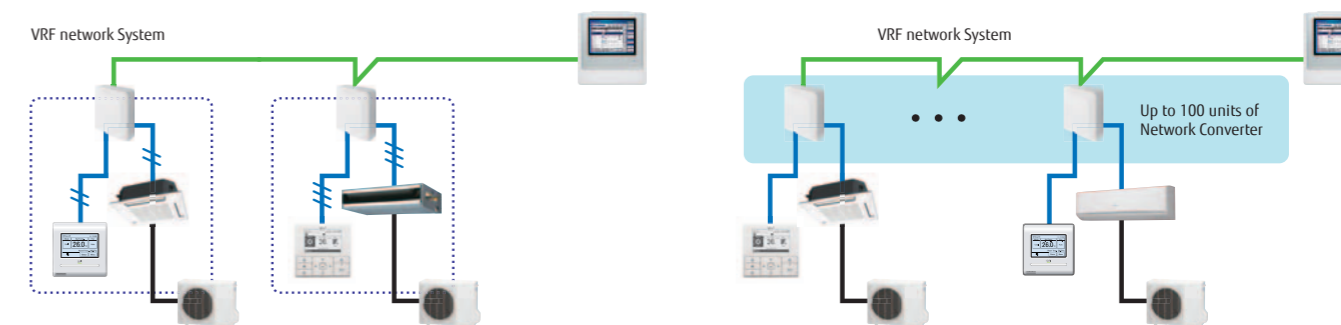
Installation example

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



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

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



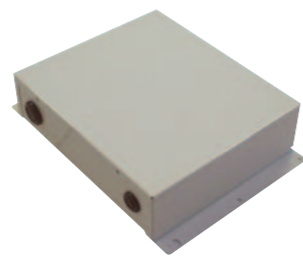
Specifications

Model name	UTY-VTGX		UTY-VTGXV
	polar 3-wire DC12V	non-polar 2-wire DC12V	220-240V 50/60Hz, Single phase
Power Supply			
Input power (W)	Max. 1.2		Max. 3
Dimensions (H x W x D) (mm)	140 x 117 x 43		54 x 260 x 150
Weight (g)	250		1,100

Network Converter

UTY-VGGXZ1

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



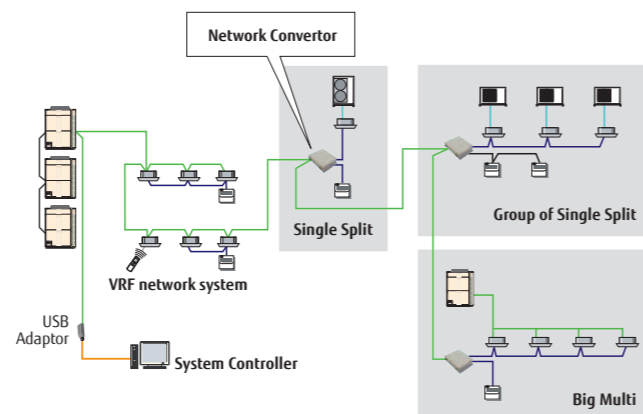
Max. controllable
16
indoor units

Max. controllable
4
Group Remote
Controllers

Functions

Used for connecting single split system

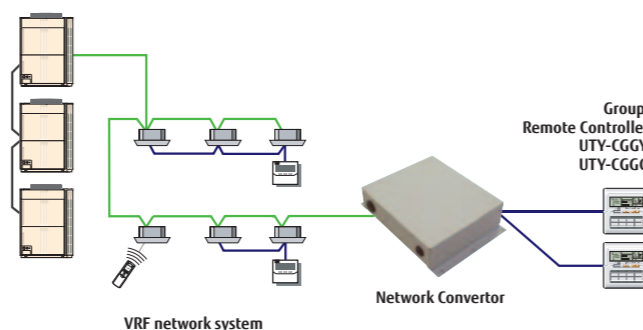
- Split type systems can be centrally controlled from Touch Panel Controller or System Controller through connection to the VRF's network converter.
- On / Off Control, Master control, Room temperature and Fan speed setting via the Network Converter are available.
- One Network Converter can be used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



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

Used for connecting Group Remote Controller

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



* 2 refrigerant circuits can be covered by a single Network Converter (UTY-VGGXZ1). Up to a total of 16 Network Converters (UTY-VGGXZ1) and System Controller adaptors can be connected in a single VRF network system.

Specifications

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

External Switch Controller

NEW UTY-TERX

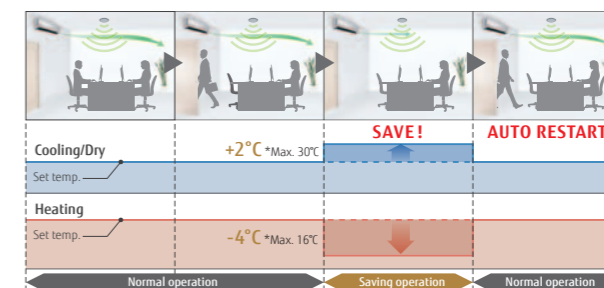
- In combination with a field supply Card-Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are available as a locally purchased parts.
- 2-wire type
- The set temperature can be specified at two points for cooling and heating individually (4 points).



Functions

Installation example

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



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

Specifications

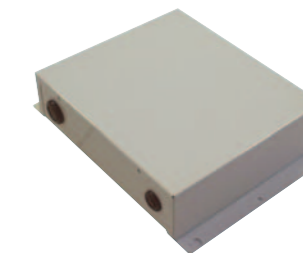
Model name	UTY-TERX
Power Supply	DC 6.5-16V
Dimensions (H x W x D) (mm)	140 x 117 x 43
Weight (g)	250

DC12V is supplied by the indoor unit.

Signal Amplifier

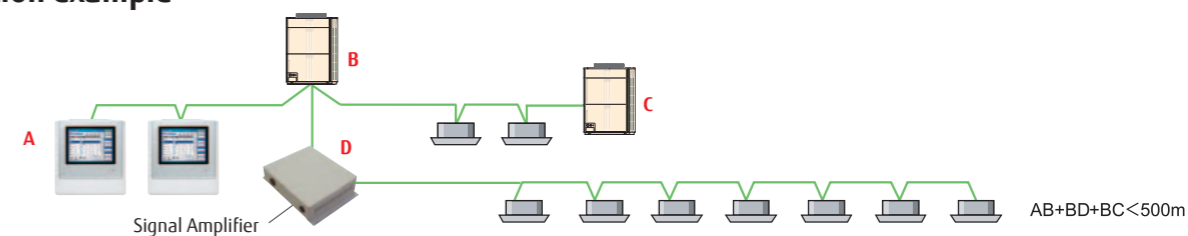
UTY-VSGXZ1

- Transmission Line length can be extended up to 3,600m with multiple Signal Amplifiers.
- Up to 40 signal amplifiers can be installed in a VRF network system.
- A signal amplifier is required,
 - (1) When the total wiring length of the transmission line exceeds 500m.
 - (2) When the total number of units on the transmission line exceeds 64.



Functions

Installation example



Specifications

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



EFFECTIVE HEAT EXCHANGE AND SIMULTANEOUS FRESH AIR VENTILATION



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

Energy Recovery Ventilator



Outdoor Air Unit

DX-Kit for airhandling applications

Energy Recovery Ventilator range

Airflow rate (m ³ /h)	250	350	500	800	1000
Model code	025	035	050	080	100
Energy Recovery Ventilator					
	UTZ-BD025B	UTZ-BD035B	UTZ-BD050B	UTZ-BD080B	UTZ-BD100B

Outdoor Air Unit range

Airflow rate (m ³ /h)	1080	1680	2100
Model code	054	072	096
Outdoor Air Unit			
	ARXH054GTAH	ARXH072GTAH	ARXH096GTAH



Energy Recovery Ventilator

Models
 UTZ-BD025B
 UTZ-BD035B
 UTZ-BD050B
 UTZ-BD080B
 UTZ-BD100B



Feature

Heat exchange ventilation and normal ventilation

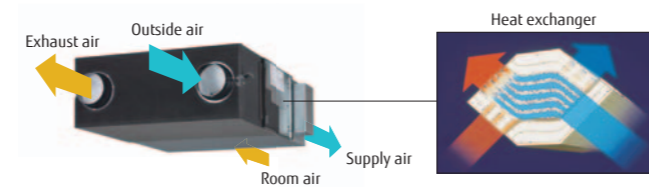
Heat exchange ventilation

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

Normal ventilation

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

Adopts a highly efficient counter-flow heat exchange element



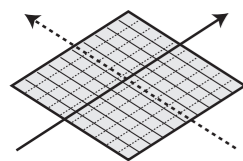
Energy efficiency and ecology

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

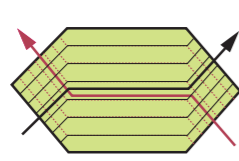
20%
Energy saving

Features of heat exchange element

With the cross-flow element, air moves in a straight line across the element. With the counter-flow element, air flows through the element for a longer time (longer distance), so the heat-exchange effect remains unchanged.



Other element (Cross-flow element)

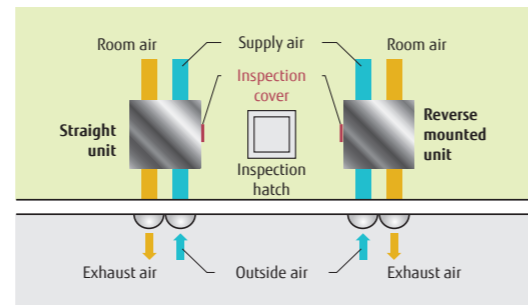


Fujitsu element (Counter-flow element)

Reverse mountable direct air supply / exhaust system

Adoption of straight air supply / exhaust system: Duct design is simplified because the air supply / exhaust ducts are straight.

Since each unit can be mounted in reverse position, only one inspection hole is needed for two units: Two units can share one inspection hole so duct work is easier and more flexible.



Quiet operation

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

Slim shape and easier installation

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



Extended range of an external static pressure

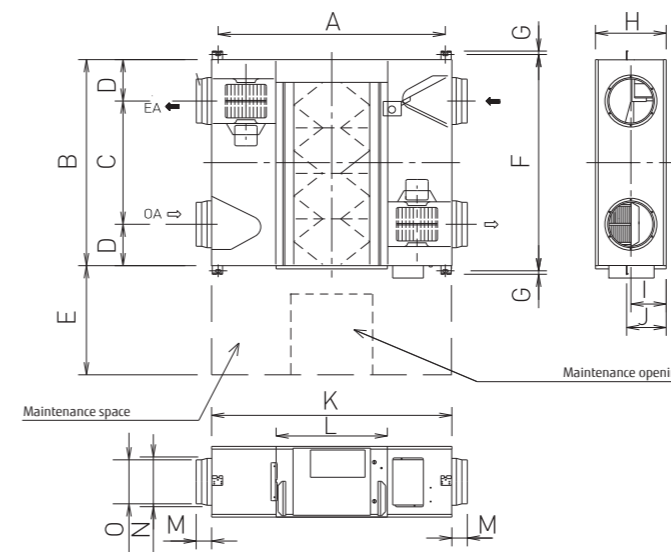
An external static pressure is improved by adopting a powerful fan motor. This allows for application in a wide variety building.

Specifications

				(Tentative)				
Rated flow rate				250 m³/h	350 m³/h	500 m³/h	800 m³/h	1000 m³/h
Model No.				UTZ-BD025B	UTZ-BD035B	UTZ-BD050B	UTZ-BD080B	UTZ-BD100B
Power source				Single-phase, ~220-240V, 50Hz				
HEAT EXCHANGE VENTILATION	Input power	Extra high / High / Low	kW	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311
	Air flow rate	Extra high / High / Low	m³/h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1000 / 1000 / 700
	External static pressure	Extra high / High / Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75
	Temperature Exchange Efficiency	Extra high / High / Low	%	75 / 75 / 77	75 / 75 / 78	75 / 75 / 76	75 / 75 / 76	75 / 75 / 79
	Energy Exchange Efficiency Cooling	Extra high / High / Low	%	63 / 63 / 65	66 / 66 / 71	62 / 62 / 64	65 / 65 / 68	65 / 65 / 70
	Energy Exchange Efficiency Heat pump	Extra high / High / Low	%	70 / 70 / 72	69 / 69 / 73	67 / 67 / 69	71 / 71 / 74	71 / 71 / 76
NORMAL VENTILATION	Sound pressure level	Extra high / High / Low	dB*	31.5 / 30.5 / 26.5	33 / 31 / 25.5	37.5 / 35.5 / 32.5	37.5 / 37 / 34.5	38.5 / 37.5 / 34.5
	Input power	Extra high / High / Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311
	Air flow rate	Extra high / High / Low	m³/h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1000 / 1000 / 700
	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 / 31 / 25.5	38.5 / 38 / 32.5	37.5 / 37 / 34.5	40.5 / 39.5 / 36.5
	Dimensions (W × D × H)	mm		882 × 599 × 270	1050 × 804 × 317	1090 × 904 × 317	1322 × 884 × 388	1322 × 1134 × 388
Weight	kg		29	49	57	71	83	
Outlet duct diameter	mm		150	150	200	250	250	
Operation range	°C		-10 ~ 40	-10 ~ 40	-10 ~ 40	-10 ~ 40	-10 ~ 40	
Maximum humidity	%		85	85	85	85	85	

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

Dimensions (Unit : mm)



	UTZ-BD025B	UTZ-BD035B	UTZ-BD050B	UTZ-BD080B	UTZ-BD100B
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	127	85	85
N	219	162	210	258	258
O	144	144	194	242	242

Outdoor Air Unit

Models

- ARXH054GTAH
- ARXH072GTAH
- ARXH096GTAH

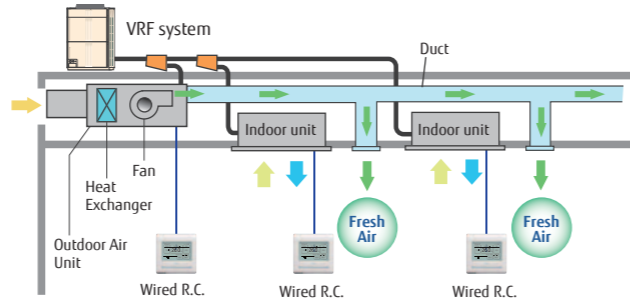
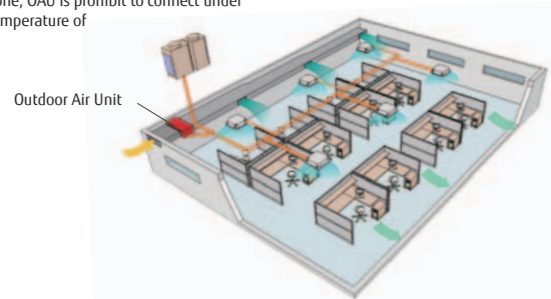


Feature

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

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

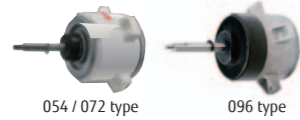
*1. Connectable VRF series: J-IIS, J-II, V-II, V-II tropical, VR-II
In J-II series alone, OAU is prohibit to connect under the ambient temperature of 40°C or higher.



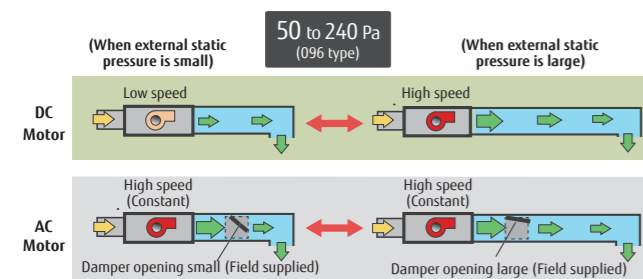
* Make sure the connected capacity is within the range of 50% to 100% of the outdoor unit capacity. In addition, if there are mixed connections with indoor units, make the Outdoor Air Unit connection capacity 30% or less of the outdoor unit capacity.

High energy savings and flexible duct design by using DC motor

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

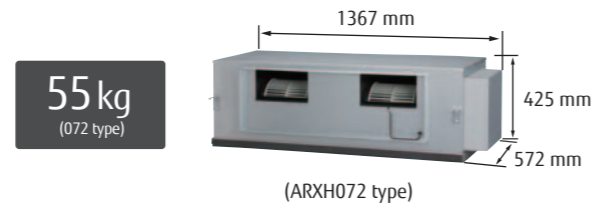


- Compared with AC motor, changing the speed makes it possible to respond flexibly to the external static pressure from 50 Pa to 240 Pa. Even if damper equipment is not used, static pressure can be adjusted and duct design is easy.
- Static pressure can be set easily using wired remote controller.



Top class compact design

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



Various Controller

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

Individual Controller



Central Controller



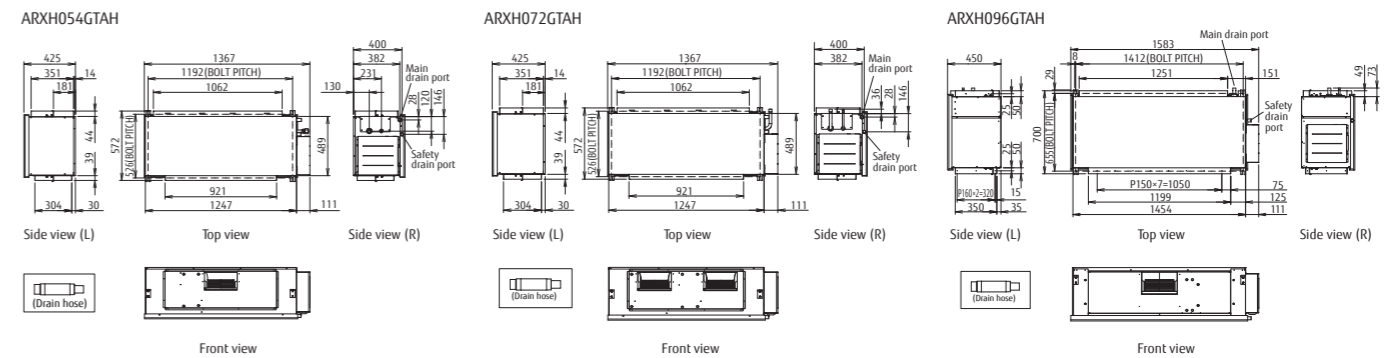
* The temperature setting is discharged air temperature setting. The air volume is set to a constant speed.

Specifications

Rated flow rate	1000 m ³ /h	1500 m ³ /h	2000 m ³ /h
Model No.	ARXH054GTAH	ARXH072GTAH	ARXH096GTAH
Power source	Single-phase, ~220-240V, 50Hz	Single-phase, ~220-240V, 50Hz	Single-phase, ~220-240V, 50Hz
Capacity	Cooling	14.0	22.4
	Heating	8.9	13.9
Input Power	Cooling / Heating	179	292
Airflow Rate		1,080	1,680
Static Pressure	Standard	185	200
	(range)	(50-185)	(50-200)
Sound Pressure Level		42	44
Dimensions (H x W x D)		425×1,367×572	450×1,583×700
Weight		48	55
Connection Pipe Diameter (Small / Large)		Ø9.52/Ø19.05	Ø12.70/Ø22.22
			Ø12.70/Ø22.22
Operation Range	Cooling	5 to 43	5 to 43
	Heating	-7 to 21	-7 to 21
Refrigerant		R410A	R410A

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

Dimensions (Unit : mm)

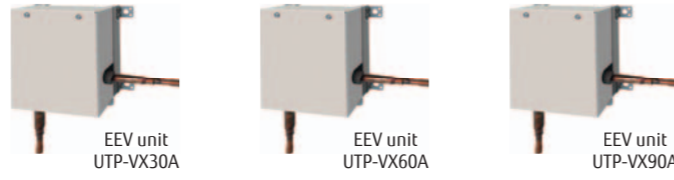


DX-Kit for air handling applications

Models
Control unit
UTY-VDGX

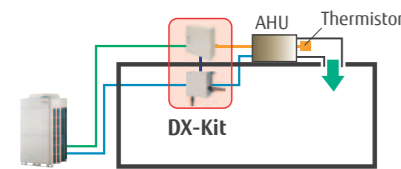
EEV unit
UTP-VX30A
UTP-VX60A
UTP-VX90A

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

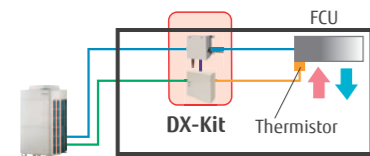


Feature

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

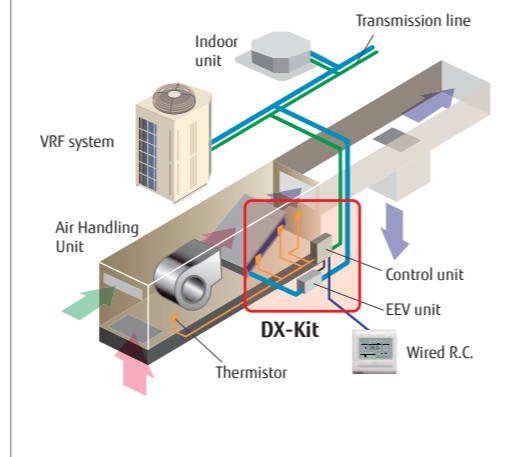


When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.



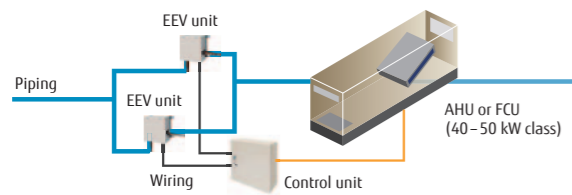
When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

Arrangement as part of a VRF system



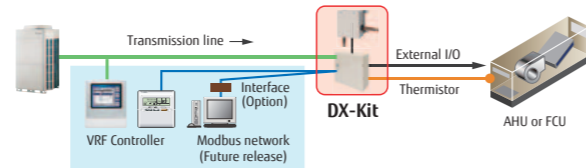
Supports a wide range of capacity classes

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

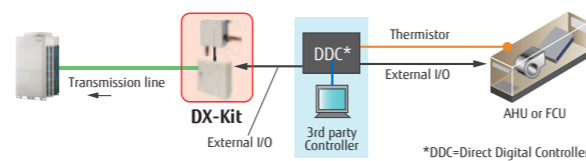


A variety of controls to match the application

- Central control using our VRF controllers or central management controllers



- Central control from external controllers



Functions Summary

Inputs

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

Outputs

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

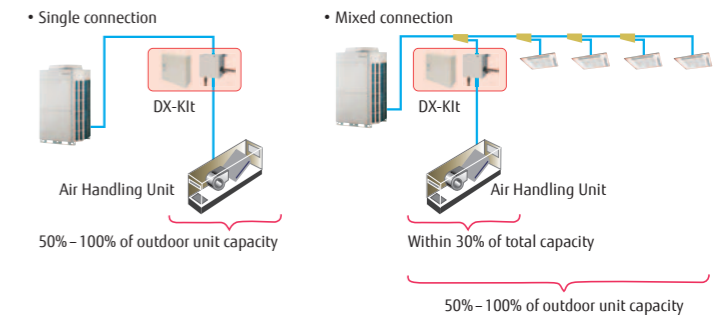
Modbus Control

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

Installation Limitation

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

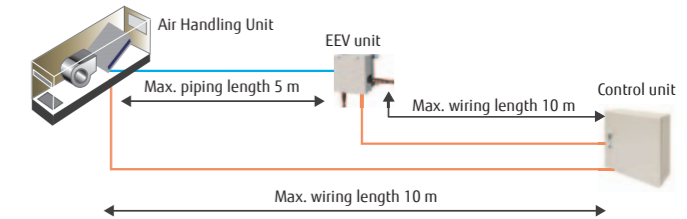
Connectable capacity



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



Piping and wiring length



Specifications

EEV unit		UTP-VX30A				UTP-VX60A			UTP-VX90A		UTP-VX90A*2	
Power source		Single-phase, ~220-240V, 50Hz										
Connectable capacity class		kW		kW		kW		kW		kW		
Capacity	Cooling	5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0	
	Heating	5.6 (5.1-5.9)	6.3 (6.0-7.1)	8 (7.2-9.0)	10 (9.1-11.1)	12.5 (11.2-13.2)	14 (13.3-18.0)	22.4 (18.1-23.7)	25 (23.8-28.0)	40 (28.1-44.7)	50.4 (44.8-50.4)	
Airflow Rate(Reference value)		m ³ /h		m ³ /h		m ³ /h		m ³ /h		m ³ /h		
Dimensions (H×W×D)		mm		mm		mm		mm		mm		
Weight		kg		kg		kg		kg		kg		
Connection pipe diameter(Liquid)		mm		mm		mm		mm		mm		

EEV unit		UTY-VDGX	
Power source		Single-phase, ~220-240V, 50Hz	
Dimensions (H×W×D)		mm	
Weight		kg	

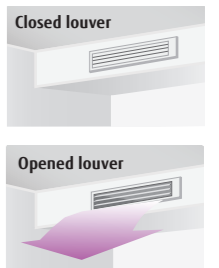
Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m Voltage : 230 [V].

AIRSTAGE™ OPTION



Auto Louver Grille Kit (Option)

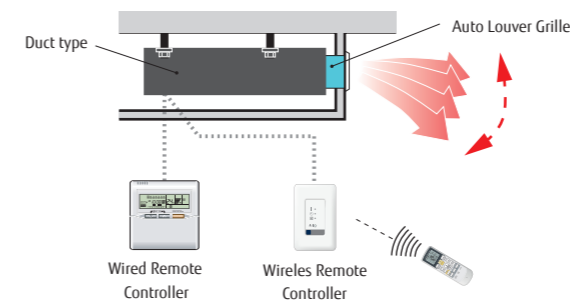
Models
 UTD-GXTA-W
 UTD-GXTB-W
 UTD-GXTC-W



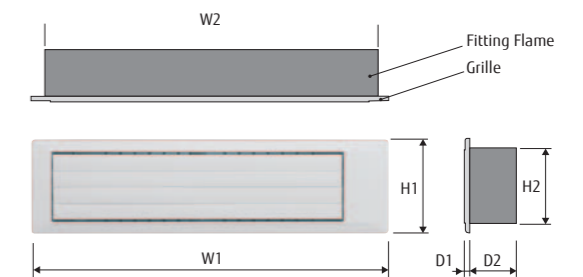
Feature

Flexible Control

- **Operation with indoor unit**
Auto Louver can be operated by synchronizing remote controller of indoor unit.
- **UP and Down auto swing**
 - Auto airflow direction and auto swing
 - 4 steps selectable
- **Auto-closing louver**
When operation of indoor unit is stopped, the louver will automatically close.



Dimensions



Unit: mm						
Model Name	W1	W2	H1	H2	D1	D2
UTD-GXTA-W	683	645	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		ARXD07/09/12/14GALH ARXD07/09/12/14GATH ARXK07/09/12/14GCLH ARXK07/09/12/14GALH		ARXD18GALH ARXD18GATH ARXK18GCLH ARXK18GALH		ARXD24GALH ARXD24GATH ARXK24GCLH ARXK24GALH	
Power source		Connecting with Control box of indoor unit					
Fixing of Auto Louver Grille		Screw fixing to Flange or Square Duct					
Extension Square Duct Limit		1.0m (Max. duct length between indoor unit and Grille)					
Net Dimension (H x W x D)		mm (inch) 180x683x(84+9) [7-3/32 x 26-7/8 x (3-5/16+11/32)]		180 x 883 x (84+9) [7-3/32 x 34-3/4 x (3-5/16+11/32)]		180 x 1083 x (84+9) [7-3/32 x 42-5/8 x (3-5/16+11/32)]	
Weight	Net	kg (lb.) 2.0 (4.4)		2.5 (5.6)		3.0 (6.7)	
	Gross	3.0 (6.7)		3.5 (7.8)		4.0 (8.9)	
Color		White					
Louver Motor		Stepping Motor					
Accessories		Fitting Flame, etc.					
Operation Range	Cooling	°C (°F)		18 to 32 (64 to 90)			
		% RH		80% or less			
	Heating	°C (°F)		16 to 30 (60 to 88)			

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

OPTIONAL PARTS LIST

Controllers / Interface

Type		Indoor unit													
		Cassette			Duct					Ceiling / Floor	Ceiling	Wall Mounted			
		4-way Compact	4-way (slim)	4-way (Large)	Mini (With drain pump)	Mini (Without drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure			—	EEV external	—	
		AUXB 07/09/12/14/18/24GALH	AUXD 18/24 GALH	AUXA 18/24/30/34/36/45/54GALH	ARXK 07/09/12/14/18/24GCLH	ARXK 07/09/12/14/18/24GALH	ARXD 07/09/12/14/18/24GALH	ARXA 24/30/36/45 GBLH	ARXC 36/72/90 GBTH	ARXC 45/60/72/90 GATH	ABHA 12/14/18/24 GATH	ABHA 30/36/45/54 GATH	ASHA 07/09/12/14 GACH	ASHE 07/09/12/14 GACH	ASHA 18/24/30 GACH
		AUXB 07/09/12/14/18/24GATH	AUXD 18/24 GATH	AUXA 30/36/45/54 GATH			ARXD 07/09/12/14/18/24GATH	ARXA 24/30/36/45 GBTH	ARXC 96 GATH			ASHA 07/09/12/14 GATH		ASHA 18/24/30 GATH	
Controllers	Wired Remote Controller	● UTY-RNRGZ2													
		● UTY-RLRG													
	Simple Remote Controller	● UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG													
	Wireless Remote Controller	● UTY-LNHG													
	Group Remote Controller	● UTY-CGGG + UTY-VGGXZ1													
	Central Remote Controller	● UTY-DCGG													
	Touch Panel Controller	● UTY-DTGGZ1													
	System Controller, System Controller Lite	● UTY-APGXZ1, UTY-ALGXZ1													
	Interface	BACnet Gateway	● UTY-ABGXZ1, UTY-VBGX												
		Network Converter for LonWorks	● UTY-VLGX												
MODBUS Converter		● UTY-VMGX													
MODBUS Interface		● FJ-RC-MBS-1				● FJ-RC-MBS-1	● FJ-RC-MBS-1 (ARXC45/60/72/90/96GATH only)							● FJ-RC-MBS-1	
KNX Converter		● UTY-VKGX													
KNX Interface		● FJ-RC-KNX-1i				● FJ-RC-KNX-1i	● FJ-RC-KNX-1i (ARXC45/60/72/90/96GATH only)							● FJ-RC-KNX-1i	
Wireless LAN Interface		● FJ-RC-WIFI-1				● FJ-RC-WIFI-1	● FJ-RC-WIFI-1 (ARXC45/60/72/90/96GATH only)							● FJ-RC-WIFI-1	
External Switch Controller		● UTY-TERX													






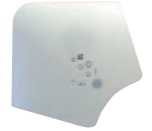
Others

Type		Indoor unit													
		Cassette			Duct					Ceiling / Floor	Ceiling	Wall Mounted			
		4-way Compact	4-way (slim)	4-way (Large)	Mini (With drain pump)	Mini (Without drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure			—	EEV external	—	
Others	IR Receiver Unit	● UTY-LRHGB1			● UTB-YWC										
	Remote Sensor Unit				● UTY-KSZX										
	Cassette Grille	UTG-UFGD-W	● UTG-UFGD-W												
		UTG-UGGA-W	● UTG-UGGA-W												
	Auto Louver Grille Kit				● UTD-GXTA-W UTD-GXTB-W(18) UTD-GXTC-W(24)										
	Long Life Filter						● UTD-LF25NA	● UTD-LF60KA (36 / 45 / 60)							
	Flange						● UTD-SF045T UTD-RF204				● UTR-RF204				
	Drain Pump Unit						● UTZ-PX1NBA								
											● UTR-DPB24T				
	Wide Panel				● UTG-AKXA-W UTG-AGYA-W										
	Panel Spacer				● UTG-BKXA-W UTG-BGYA-W										
	Air Outlet Shutter Plate	For Compact Cassette	● UTR-YDZB	● UTR-YDZK											
		For Cassette													
	Insulation for High Humidity		● UTX-KXGC	● UTX-KXRA											

OPTIONAL PARTS

Controllers

For Individual Control



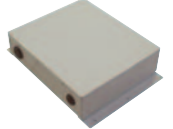
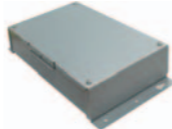

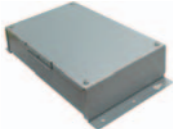


<p>Wired Remote Controller (Touch Panel) NEW UTY-RNRGZ2</p> 	<p>Wired Remote Controller UTY-RLRG</p> 	<p>Simple Remote Controller NEW UTY-RSRG With operation mode</p> 
<p>Simple Remote Controller NEW UTY-RHRG Without operation mode</p> 	<p>Wireless Remote Controller UTY-LNHG</p> 	<p>IR Receiver Unit UTB-YWC For All Duct types except Large Airflow Duct</p> 
<p>IR Receiver Unit UTY-LRHGB1 For Cassette type</p> 		

For Centralized Control


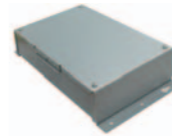
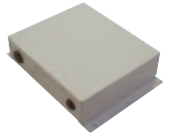

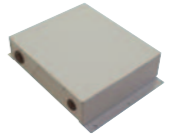
<p>Group Remote Controller UTY-CGGG</p> 	<p>Central Remote Controller UTY-DCCG</p> 	<p>Touch Panel Controller NEW UTY-DTGGZ1 Option UTY-PTGXA</p> 
<p>System Controller Lite Software NEW UTY-ALGXZ1 Option UTY-PLGXR2 UTY-PLGXA2 UTY-PLGXE2 UTY-PLGXX2</p> 	<p>System Controller Software NEW UTY-APGXZ1 Option UTY-PEGXZ1</p> 	

Convertors / Adaptors

For External device


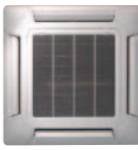
<p>BACnet® Gateway Software NEW UTY-ABGXZ1</p>  <p>WHITE-USB-KEY (Software Protection Key)</p>	<p>BACnet® Gateway Hardware NEW UTY-VBGX</p> 	<p>Network Converter for LonWorks® UTY-VLGX</p> 
<p>MODBUS® Converter for VRF UTY-VMGX</p> 	<p>MODBUS® Interface FJ-RC-MBS-1</p> 	<p>KNX® Converter for VRF NEW UTY-VKGX</p> 
<p>KNX® Interface FJ-RC-KNX-1i</p> 	<p>Wireless LAN Interface FJ-RC-WIFI-1</p> 	

For System expansion

<p>Network Converter for single split UTY-VTGX DC power supply type</p> 	<p>Network Converter for single split UTY-VTGXV AC power supply type</p> 	<p>Network Converter for Group Remote Controller UTY-VGGXZ1</p> 
<p>External Switch Controller NEW UTY-TERX</p> 	<p>Signal Amplifier UTY-VSGXZ1</p> 	







Panels

For Cassette type

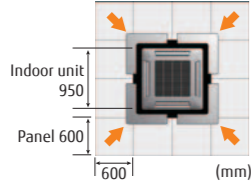
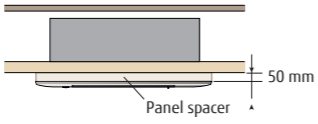
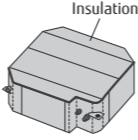


<p>Cassette Grille UTG-UFGC-W For Compact Cassette type</p> 	<p>Cassette Grille UTG-UGGA-W For Cassette type</p> 	
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OPTIONAL PARTS

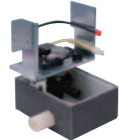
For Duct type

<p>Flange (Round) UTD-RF204 For Medium Static Pressure Duct type / Ceiling type</p> 	<p>Flange (Square) UTD-SF045T For Medium Static Pressure Duct type</p> 	<p>Remote Sensor Unit UTY-XSZX For All Duct type</p> <p>New amenity space can be offered by installing the Remote sensor.</p> 
<p>Long-Life Filter UTD-LF25NA For Medium Static Pressure Duct type</p> 	<p>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</p> 	<p>Drain Pump Unit UTZ-PX1NBA For Medium Static Pressure Duct type</p> 

For Cassette type







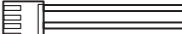

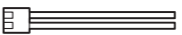

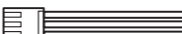

<p>Wide Panel UTG-AKXA-W For Cassette type</p> 	<p>Panel Spacer UTG-BGYA-W For Cassette type</p> 	<p>Insulation Kit for High Humidity UTZ-KXRA For Cassette type UTZ-KXGC For Compact Cassette type</p> 
<p>Air Outlet Shutter Plate UTR-YDZB For Compact Cassette type</p> <p>Shuts the air outlet when only using as 3 blow out.</p> 	<p>Air Outlet Shutter Plate UTR-YDZK For Cassette type</p> <p>Shuts the air outlet when only using as 3 blow out.</p> 	

For Ceiling type

<p>Drain Pump Unit UTR-DPB24T For Ceiling type</p> 		
---	--	--

Others

Communication system: External Connect Kit

<p>For Indoor unit</p> <p>UTY-XWZXZ7 </p> <p>UTY-XWZXZB </p> <p>UTY-XWZXZC </p>	<p>UTY-XWZXZD </p> <p>UTY-XWZXZE </p>	<p>For Outdoor unit</p> <p>UTY-XWZXZ6 </p> <p>UTY-XWZXZ9 </p> <p>UTY-XWZXZF </p>
<p>For Central Remote Controller</p> <p>UTY-XWZXZ7 </p> <p>UTY-XWZXZ8 </p> <p>UTY-XWZXZA </p>	<p>For Touch Panel Controller</p> <p>UTY-XWZXZA </p>	

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

Type	Indoor unit					Outdoor unit		Controller	
	Cassette	Duct	Ceiling / Floor	Ceiling	Wall Mounted, Wall Mounted EEV external	V-III Tropical	V-II Tropical	Central Remote Controller	Touch Panel Controller
	4-way Compact, 4-way,	Mini Slim (With drain pump), Medium Static Pressure, High Static Pressure				AJH 072/090/108/126/144/162 LALBH	AJH 072/090/126 LNLAH	UTY-DCCG	UTY-DTGG1
Input									
Operation / Stop					● UTY-XWZXZD ○ UTY-XWZXZB				
All On / All Off								● UTY-XWZXZ7 ○ UTY-XWZXZ8	● *2 ○ *2
Batch Stop						● UTY-XWZXZ6			
Forced Stop					● UTY-XWZXZD ○ UTY-XWZXZB				
Emergency Stop					● UTY-XWZXZD ○ UTY-XWZXZB	● UTY-XWZXZ6		● UTY-XWZXZ7 ○ UTY-XWZXZ8	● *2 ○ *2
Forced Thermostat off					● UTY-XWZXZE ○ UTY-XWZXZ7				
Low Noise Mode Operation						● UTY-XWZXZ6			
Cooling/ Heating Priority						● UTY-XWZXZ6			
Outdoor Unit Operation Peak Control						● UTY-XWZXZ6			
Power Usage Information from Electricity Meter						● UTY-XWZXZF			● *2 ○ *2
Output									
Operation Status					● UTY-XWZXZC	○ UTY-XWZXZ6		○ UTY-XWZXZA	
Error Status					● UTY-XWZXZC	○ UTY-XWZXZ6		○ UTY-XWZXZA	
Indoor Unit Fun Operation Status					● UTY-XWZXZC				
Auxiliary Heater Output		● UTY-XWZXZC							
Base Heater						● UTY-XWZXZ9			











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

● : Dry Contact ○ : Apply Voltage

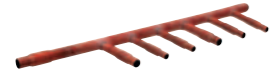



OPTIONAL PARTS

Connection Units

Separation Tube

<p>UTP-AX054A</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTP-AX090A</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 
<p>UTP-AX180A</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTP-AX567A</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 
<p>UTP-LX180A For DX-Kit</p>  	


Header

<p>UTR-H0906L / UTR-H1806L</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTR-H0908L / UTR-H1808L</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 
---	--


Outdoor Unit Branch Kit

UTP-CX567A

Gas Pipe




Liquid Pipe



EV Kit

Model code ≤ 09 : UTR-EV09XB
 Model code ≥ 12 : UTR-EV14XB
 For Compact Wall Mounted 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

Header

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

Outdoor unit Branch kit

Model name	UTP-CX567A	
Number of Outdoor unit	2 outdoor units	1
	3 outdoor units	2

EV Kit

Model name	UTR-EV09XB	UTR-EV14XB
Application Model	ASHE07GACH ASHE09GA.CH	ASHE12GACH ASHE14GACH

ABOUT US

Since we began our air conditioning business in 1971, our products have been popular around the world and we continue to improve them.

OUR HISTORY

GLOBAL NETWORK

HIGH QUALITY DEVELOPMENT & PRODUCTION FACILITIES

PROJECT REFERENCE



OUR HISTORY

Overseas Air Conditioning Business since 1971
VRF Business since 2001

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

1936
Established as Yaou Shouten Ltd.

1971
Air conditioner exports to Middle East.

2001
10HP / Heat recovery & Heat pump



AIRSTAGE S

2003
10HP / Heat recovery, 8,10HP / Heat pump & Cooling



AIRSTAGE S

2004
Small VRF series is released. 6HP / Heat pump



AIRSTAGE J

2012
High efficiency and Compact design model
8 to 48HP / Heat Recovery



AIRSTAGE VR-II

2013
Tropical spec model
Extensive lineup from 8HP to 42HP in 2HP increment / Heat pump



AIRSTAGE V-II

2014
High efficiency and compact design model
4HP to 6HP / Heat pump



AIRSTAGE J-IIS

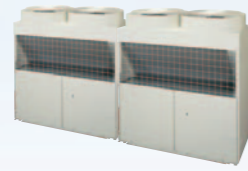
NEW



AIRSTAGE J-III

Tropical spec model
High efficiency and compact design model
4HP to 6HP / Heat pump

2007
8 to 42HP / Heat pump



AIRSTAGE V

2009
High efficiency and Compact design model
Extensive lineup from 8HP to 48HP in 2HP increment / Heat pump



AIRSTAGE V-II

2011
High efficiency and small capacity model
4HP to 6HP / Heat pump



AIRSTAGE J-II

2015
High efficiency and large capacity model.
Extensive lineup from 8HP to 54HP in 2HP increment / Heat pump



AIRSTAGE V-III

2016
High efficiency and small capacity model
4HP to 6HP / Heat pump



AIRSTAGE J-III

2016
Tropical spec model
Extensive lineup from 8HP to 54HP in 2HP increment / Heat pump



AIRSTAGE V-III



AIRSTAGE J-III L

High efficiency and compact design model
10HP to 12HP / Heat pump

AIRSTAGE™ History

1936 Established as Yaou Shouten Ltd.

2001-2011

2012-2016

2017

Certification Acquisition of

ISO14001

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

New Product Initiatives

Fujitsu introduced inverter technology which used R410A refrigerant.



RoHS Compliant

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

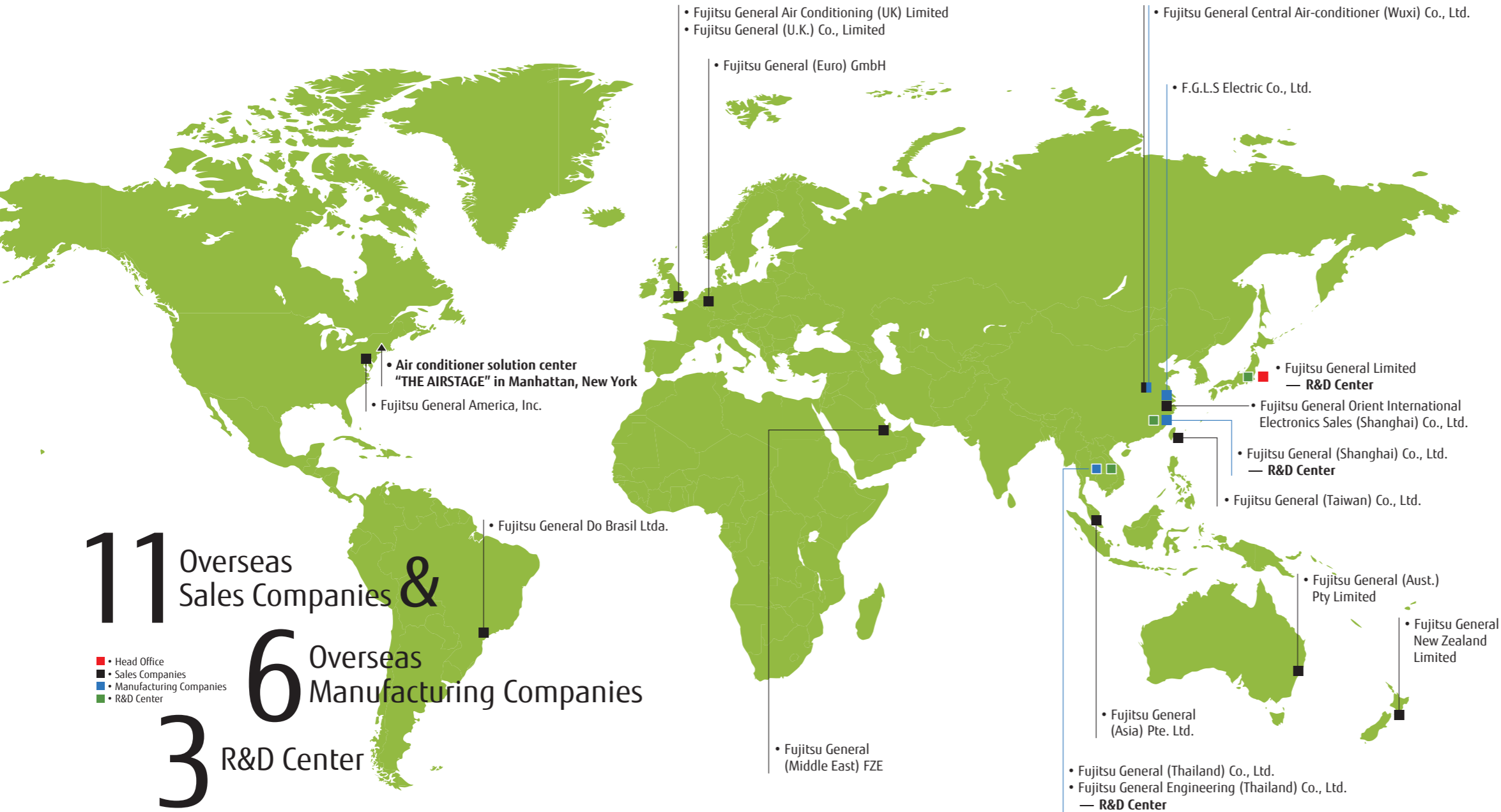


DC Inverter Compressors
Use of 100% inverter driven DC compressors.



GLOBAL NETWORK

Fujitsu General's air conditioning business has acquired a major share of the overseas market. We have many production and sales facilities overseas, and we continue to develop and sell products that are accepted around the world by their "easy-to-use and environmentally-friendly technology".



Fujitsu General (Shanghai) Co., Ltd.



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



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



FGA (Thailand) Co., Ltd.



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



TCFG Compressor (Thailand) Co.,Ltd.



R&D Center in Fujitsu General(Shanghai)



R&D Center in Fujitsu General Engineering(Thailand)







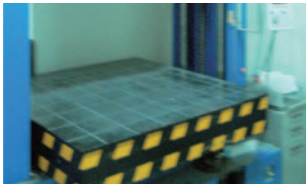

JAPAN Head Office
R&D Center and 60 m Height Difference
Testing Tower



HIGH QUALITY DEVELOPMENT & PRODUCTION FACILITIES

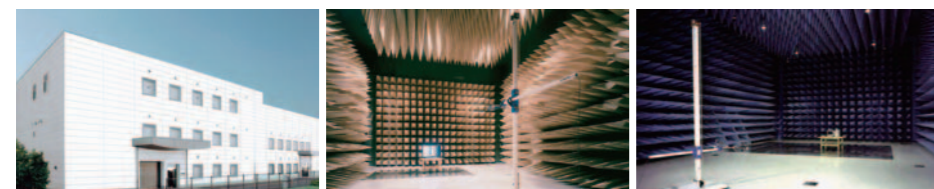
Fujitsu General is one of Japan's leading manufacturers with an R&D Center in Japan. We provide customers with the highest quality and performance using these facilities.

Advanced Research Facility and Equipment

Performance Testing			
	Air Volume Measurement Room Measure air volumes of the air conditioners from compact RAC models to VRF.	Calorimeter Measure the cooling/heating capacity by measuring the inlet and outlet temperatures, humidity, and air volume of the air conditioner.	Silent Room Measure the operating sounds of air conditioners with the sound reflection-proof walls and ceiling.
			
Reliability Testing	Constant Temperature Room Check on the product performance in cooling/heating operation under the various temperature and humidity conditions.	Practical Test Room Check on whether the air conditioners performance under the actual house conditions is sustainable.	Shower Test Room Check on whether the electrical box of the outdoor unit is protected by rain waters with typhoon like wind.
	Transportation & Handling		

Testing Laboratory

Fujitsu General EMC Laboratory Limited



ACQUISITION OF ISO 9001 AND ISO 14001

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

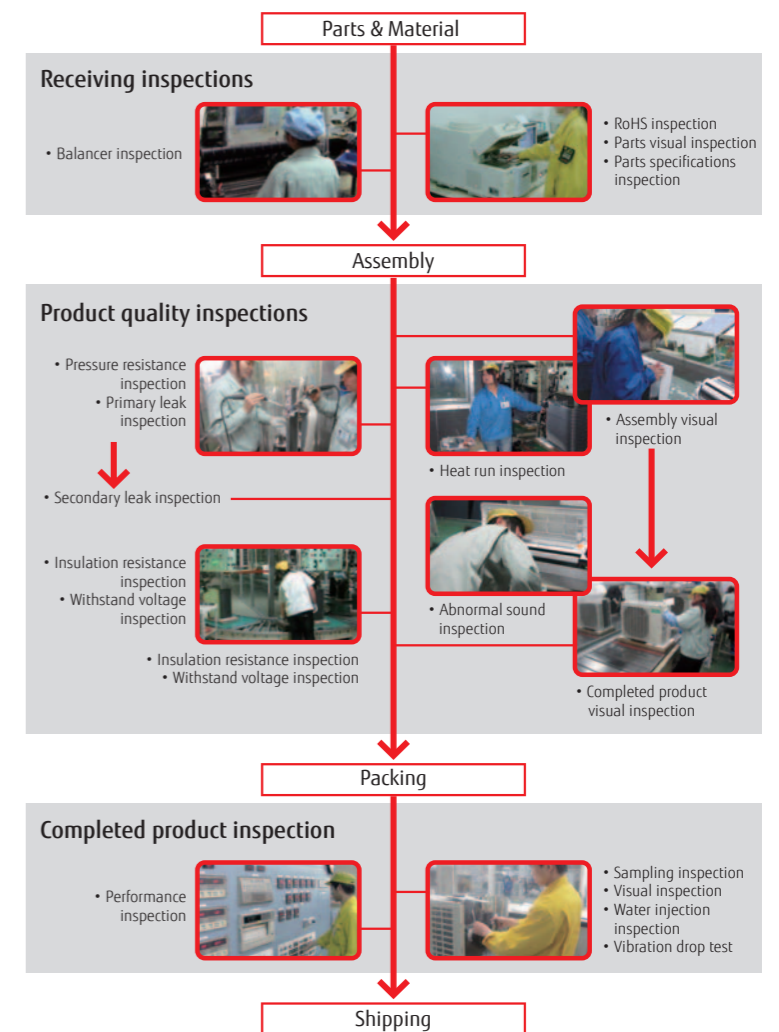


High Product Quality Assurance

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

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

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



PROJECT REFERENCE

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



LIGHT COMMERCIAL



Office in Europe



Shop in Europe



Hotel in U.S.A.

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



Restaurant in Middle East



Shop in Oceania



COMMERCIAL



Office in Europe



Office in china



Factory in U.S.A.



RESIDENTIAL



Residential in Europe



Residential in Middle East



Residential in Europe



Residential in Oceania

SUPPORT

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

AIRSTAGE™ SUPPORT

AIRSTAGE™ / RAC SUPPORT TOOL

QUICK SERVICE & MAINTENANCE

SERVICE TOOL

WEB MONITORING TOOL

Category	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 Seek			●	●	●	●	●									
Technical Information Seek							●									
Model Selection						●							●			
Design						●		●	●							
Verification													●			
Installation						●				●						
After sales and Service											●				●	●



AIRSTAGE™ SUPPORT

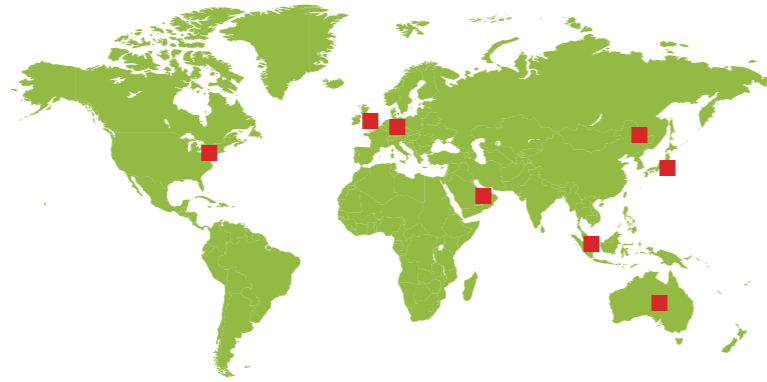
Fujitsu General provides a variety of product and technical information to engineers and consultants, and also conducts new product research and design support activities. We provide a wide range of support to maintain high quality from design to installation.

Training

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

Features

- Designing AIRSTAGE™ Systems
- Control System on-site training



Head Office Training Center: Japan



Europe Training Center: Germany



Europe Training Center: U.K.



America Training Center: U.S.A.



China Training Center: China



Asia Training Center: Singapore



Middle East Training Center: UAE



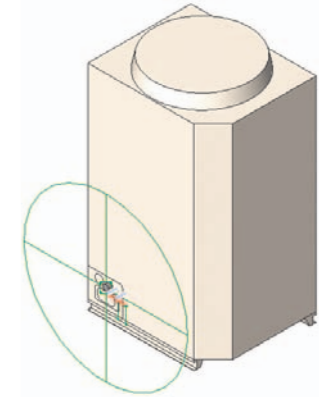
Oceania Training Center: Australia

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



Product information

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

Features

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

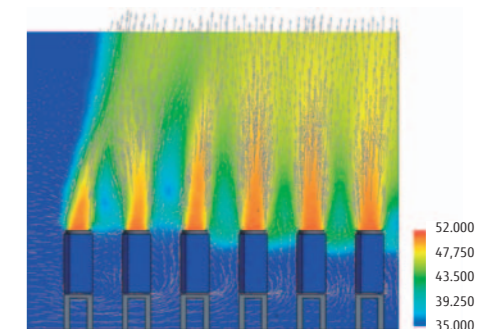


Technical support

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

Features

- CFD Simulation
- Guide line
- Commissioning Support



CFD Simulation



Commissioning Support

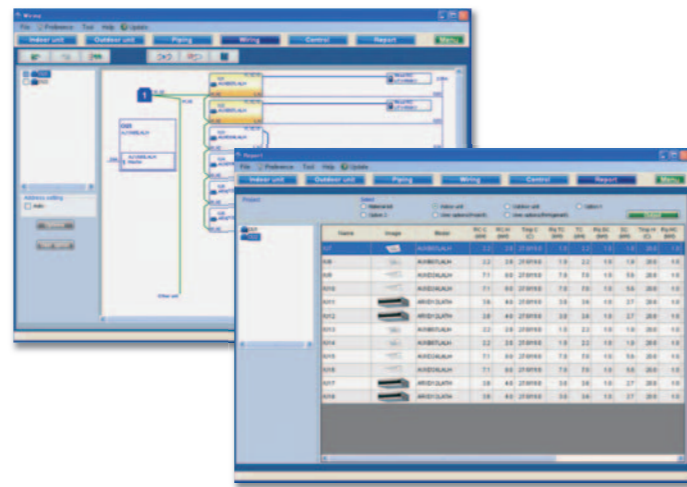
AIRSTAGE™ / RAC SUPPORT TOOL

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 - it'll even export to Word, Excel, or Acrobat formats, and group the relevant CAD data for your project.

Design Simulator

Automatically create model selection information

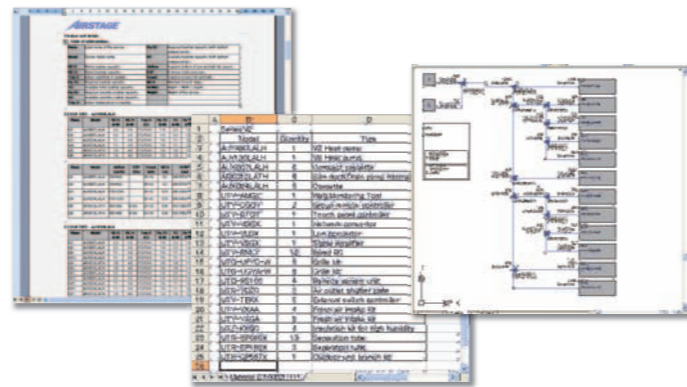
- Each unit can be automatically set by entering the required performance, type, and temperature conditions for each indoor unit and then dragging and dropping into the outdoor unit.
- Piping and wiring diagrams can be created automatically and it is easy to set branches, grouping, and options.
- The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



Output the format that matches the application

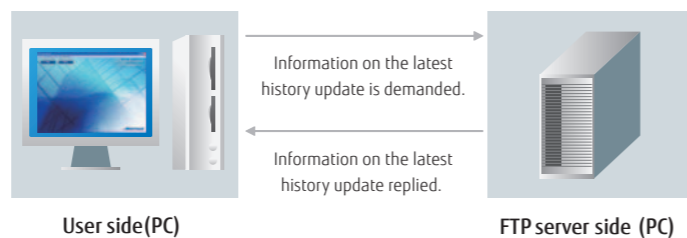
The information specific to your project can be exported in a number of industry standard file formats.

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



Update your Design Simulator

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

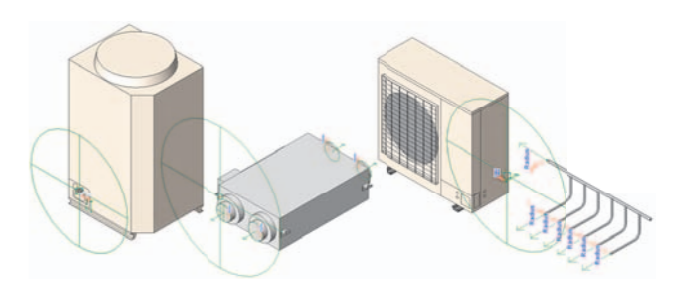


BIM Building Information Modeling

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

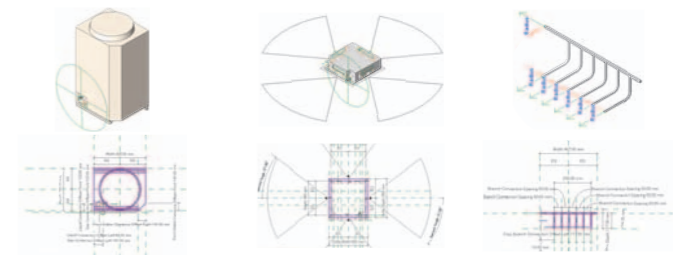
3D and 2D product data

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



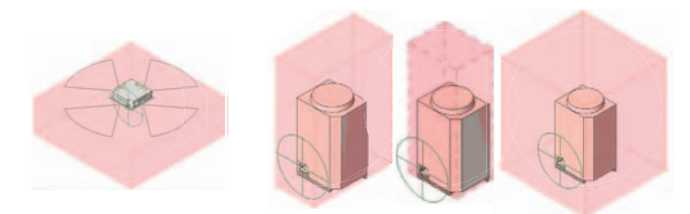
Installation limitation

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



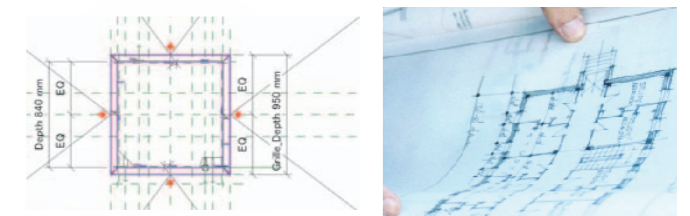
Update your Design Simulator

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



Product specifications & link information

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



QUICK SERVICE & MAINTENANCE

If trouble should occur in a unit or system, abundant support tools such as trouble code display at the product, Service Tool that allows checking of the detailed status of the entire system, and remote monitoring tool that uses the internet, etc. support quick service and maintenance anywhere and at any time.

Mobile troubleshooting tool for iPhone & Android



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

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



Easy maintenance & monitoring

Design for easy maintenance

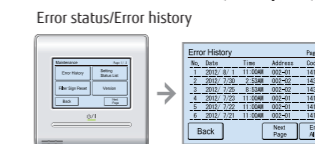
Design for easy maintenance
The air conditioner operating status and trouble status of the detailed are displayed at the 7-segment of the outdoor unit PCB or on the remote controller screen.
The unit status can be checked rapidly and quick response is also possible.

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

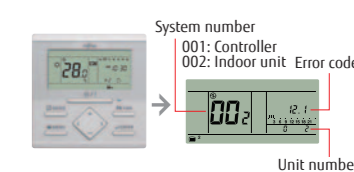
7-segment LED



Wired Remote Controller (Touch panel)



Wired Remote Controller

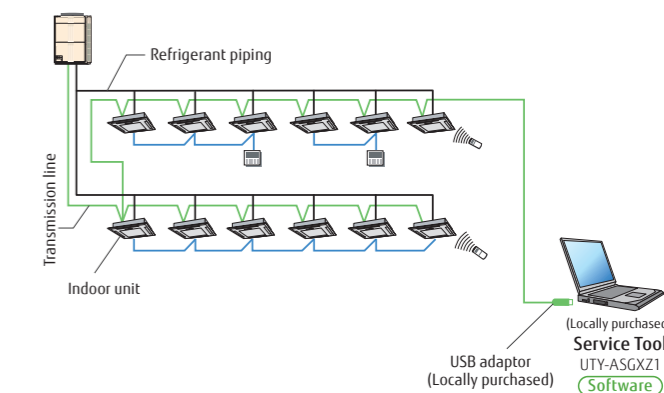


Unit number

Error diagnosis by Service Tool

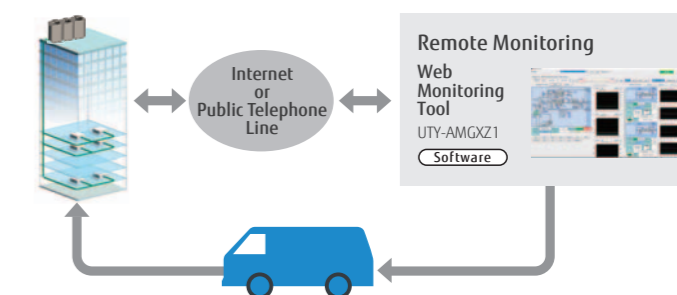
Error diagnosis by Service Tool
The unit status details for VRF system can be checked on PC screen by connecting Service Tool.
Quick countermeasures can be taken

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



Remote monitoring

VRF system operating status and trouble status details can be constantly and remotely monitored over the Internet, etc.
Rapid cooperation with the service personnel are also possible.



SERVICE TOOL

Extensive monitoring and analysis functions for installation and maintenance

- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
- This software can be connected to any point of transmission line with USB adaptor (locally purchased)

* The saved data can be displayed offline. However, the data saved by the following model cannot be displayed.

- UTR-YSTB/UTR-YSTC (Service Tool)
- UTR-YMSA (Web Monitoring Tool)

Automatic operation check for refrigeration cycle

After product installation, operation check can be performed automatically. Self-diagnosis function automatically judges whether each sensor value is normal, so the operation check work can be reduced. The diagnosis can also be output as a report.

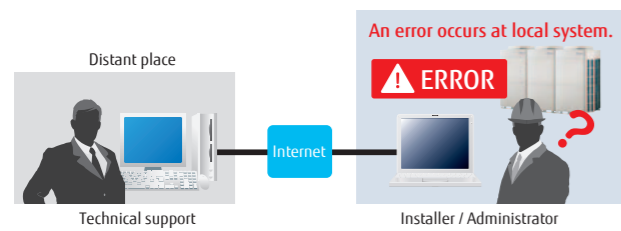
Whether each sensor value is normal is judged automatically.

- ✓ Discharge temperature normal value **OK**
- ✓ Super heat volume normal value **OK**
- ✓ High pressure pipe normal value **OK**
- ✓ Low pressure pipe normal value **OK**
- ...etc.

[Note] Use only as a guide and judge for yourself finally.

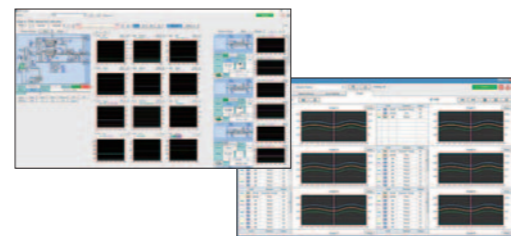
Remote technical support & maintenance

On-site check screen can be shared with the skilled person in a distant place. When visiting for troubleshooting on site, operation status can be shared in real time and get assistance easily. Online chat function helps to support on site staff.



Various trend graph display

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



Personal computer system requirements

	UTY-ASGX1
Operating system	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 1 GB or more (for Windows Vista®, 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	<ul style="list-style-type: none"> • 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.)

<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.

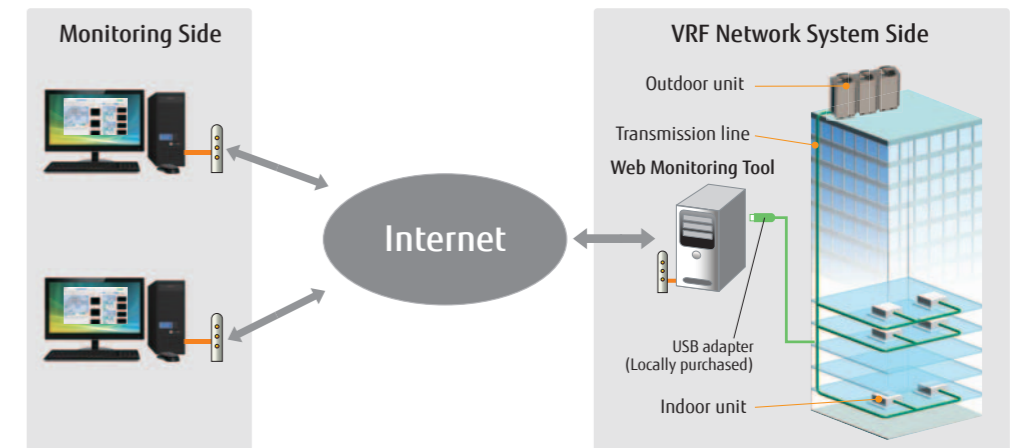
WEB MONITORING TOOL

Product features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet *1.
- Requires either a dedicated internet connection or public telephone line.
- Determination of an error occurrence can be made through error warnings and equipment status information obtained from a remote location.
- The monitoring data in a remote side can be optionally downloaded. And, this data can be displayed in offline mode of the service tool.
- Monitoring side computer is not required to install special software, requires only general web browser.

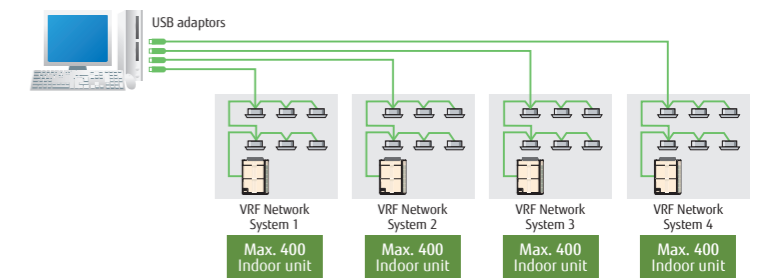
*1: Use of internet mail system required.

Web Monitoring System



Support 4 VRF network systems

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



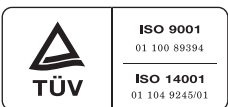
Personal computer system requirements

	UTY-AMGX1
Operating system	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 1 GB or more (for Windows Vista®, 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	<ul style="list-style-type: none"> • USB port (for 10 USB Network Interface Max.4, Software protection key) • Either of the following interface is required for remote connection: <ul style="list-style-type: none"> - Internet using LAN: Ethernet port is required
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.)

<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.



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ISO 9001 Certified number: 01 100 79269



ISO 14001 Certified number: CNB1311153-UK
 Fujitsu General (Shanghai) Co., Ltd.



ISO 9001 Certified number: 15914Q10065R4M
 ISO 14001 Certified number: 15912E10022R3M
 Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.

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