



Variable Refrigerant Flow System
AIRSTAGETM



HEAT PUMP

VRF CATALOGUE 2018-2019

for Middle East



FUJITSU GENERAL LIMITED

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 **SMALL BUILDING**



Heat Pump type for heating or cooling operation

AIRSTAGE™ J-III 

4 HP - 6 HP 6 Models

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

P46~

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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

P50~

OUR HISTORY

Overseas Air Conditioning Business since 1971
VRF Business since 2001

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

For Commercial Use

2001

10HP / Heat recovery & Heat pump

2003

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



AIRSTAGE S

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

2012

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



AIRSTAGE VR-II

For Residential & Light Commercial Use

2004

Small VRF series is released. 6HP / Heat
pump



AIRSTAGE J

2011

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



AIRSTAGE J-II

2014

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



AIRSTAGE J-III

2016

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



AIRSTAGE J-III

AIRSTAGE™ History

1936 Established as Yaou Shouten Ltd. - 2016

1936

Established as Yaou Shouten Ltd.

1971

Air conditioner exports to Middle East.

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.

2013

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



AIRSTAGE V-II 

2015

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



AIRSTAGE V-III

2016

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



AIRSTAGE V-III 



AIRSTAGE J-III

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



AIRSTAGE J-III L

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



2017

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.

ALL INVERTER

WORLD WIDE LOCATIONS

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



JAPAN Head Office

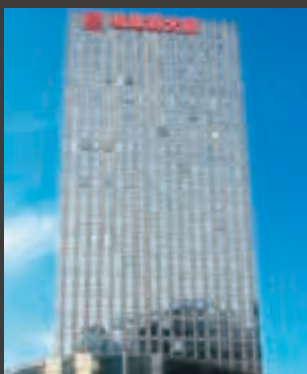
• Air conditioner solution center
"THE AIRSTAGE" in Manhattan, New York

• Fujitsu General America, Inc.

• Fujitsu General Do Brasil Ltda.

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Overseas Sales Companies



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



Fujitsu General (Taiwan) Co., Ltd.



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



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



Fujitsu General (EURO) GmbH



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



Fujitsu General Air Conditioning
(UK) Limited



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



Fujitsu General New Zealand Ltd.
(New Zealand)



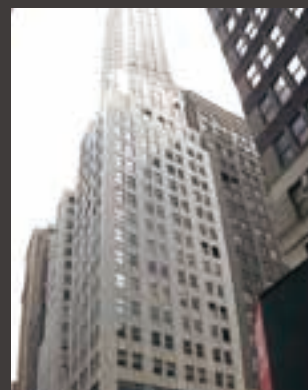
Fujitsu General (Middle East) FZE
(U.A.E.)



Fujitsu General Do Brasil Ltda. (Brasil)



Fujitsu General America, Inc.



FUJITSU GENERAL SOLUTION
CENTER "THE AIRSTAGE"

GLOBAL BUSINESS ACTIVITIES

We are engaging in advertising, human resource development, CS activities, and social contribution activities worldwide. These activities have been recognized throughout different regions by the awards we have been honored with.

North/South America



AHR Expo



HVAC trade show in Brasil



Distributor meeting



Call center

Middle East



Distributor meeting

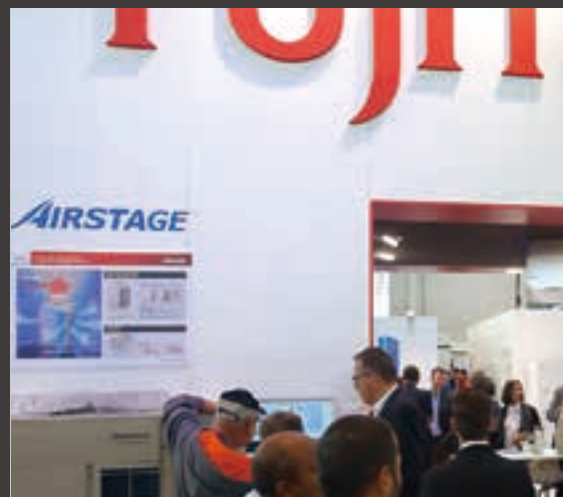


Technical seminar



Training for dealers

Europe

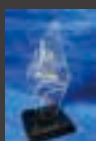


HVAC trade show in Europe countries



Presentation & training

International authoritative design awards



"Dealer Design Awards" of "the NEWS"



Gold Award (Category: HVAC & PLUMBING) in Reader's Choice Awards



TOP OF MIND 2016 First prize in "MARCA DE EQUIPAMENTODE AR-CONDICIONADO" category of "CLIMATIZACAO" division



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



ACR Show



Oceania



HVAC trade show in Australia



Charity (Christchurch)



Service & Maintenance

Asia



New Product Presentation Meeting, Sales store awards



FG TAIWAN Entire employee workshop



SE training



Call center



The product design competition has existed since 1955. Its award, the "red dot", is an internationally recognized quality seal.



Coolworld Industry Awards
"Most Efficient Air Conditioner"



China State Construction Engineering Luban Prize



Canstar Blue Most Satisfied Customers Award



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

PROJECT REFERENCE

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

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



For **LIGHT COMMERCIAL**

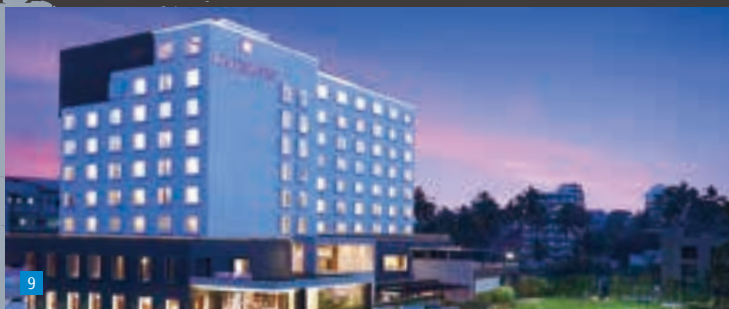
- 1 Shop in Asia
- 2 Restaurant in Middle East
- 3 Office in Europe
- 4 Hotel in Oceania
- 5 School in U.S.A.
- 6 Hospital in Asia



7



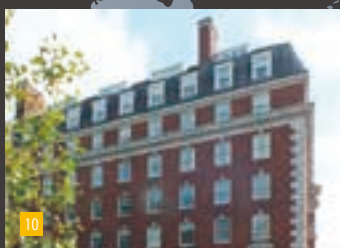
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For COMMERCIAL

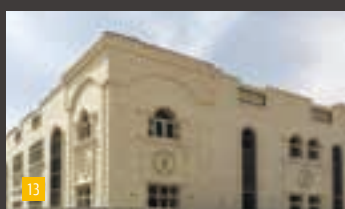
- 7 Office in Europe
- 8 Office in Europe
- 9 Hotel in Asia



10



12



13

For RESIDENTIAL

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

GLOBAL DEVELOPMENT & PRODUCTION BASES

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



5 R&D Center



R&D Center in Fujitsu General (Shanghai)



R&D Center in Fujitsu General Engineering (Thailand)



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



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

6 Overseas Manufacturing Companies



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.

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



HIGH QUALITY DEVELOPMENT & PRODUCTION

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

Advanced Research Facility and Equipment

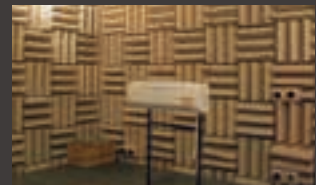
Performance Testing



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



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



Compressibility testing



Vibration testing

Testing Laboratory

Fujitsu General EMC Laboratory Limited



60 m Height Difference Testing Tower

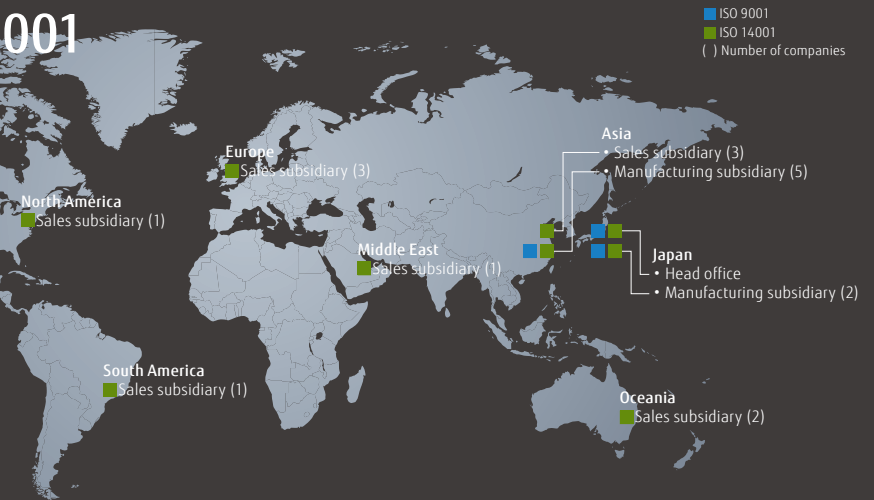
Objective is to confirm oil circulation of compressor for reliability



FACILITIES

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

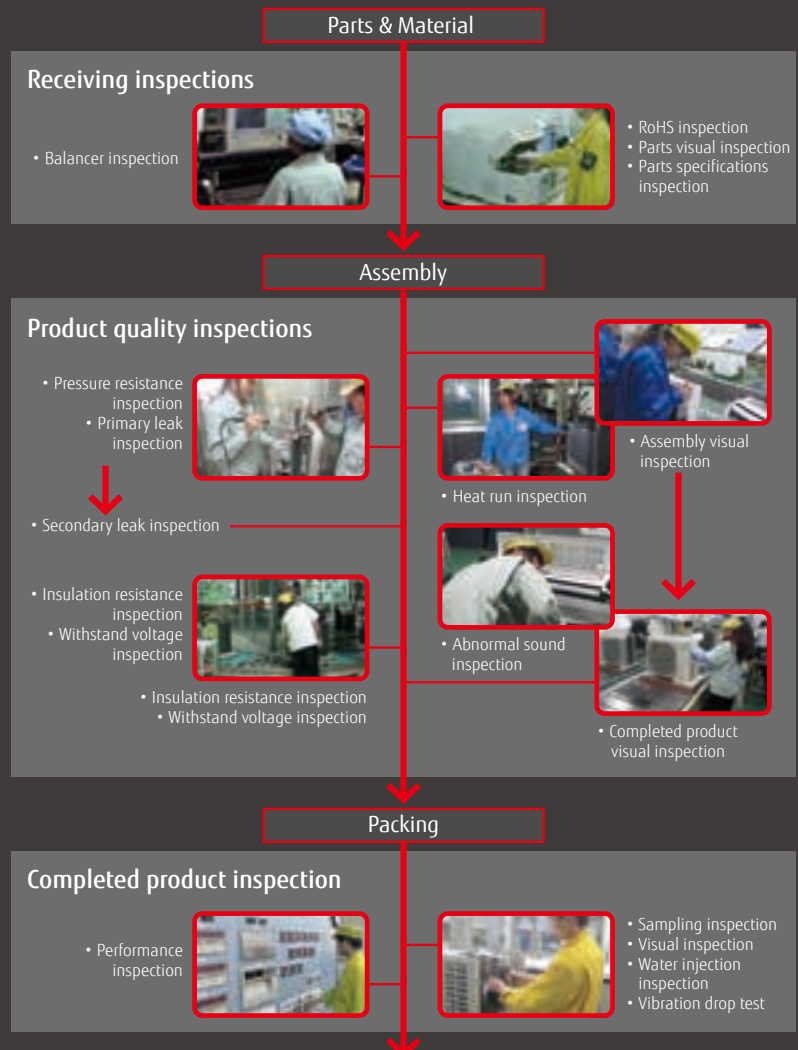
All Fujitsu General factories have acquired ISO 9001, and have built a quality control system common around the world. High quality products are offered to all over the world based on stringent quality inspections.

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.



OUR SOLUTION FOR ALL

Fujitsu General provides the best solutions suitable for properties.

Solution Point

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



PROPERTIES

Target Property



LIGHT COMMERCIAL

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

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



COMMERCIAL

For Large Building

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



Light Commercial

APARTMENT, VILLA

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

AIRSTAGE™

APARTMENT



Large space air conditioning in the dining and living room



Medium Static Pressure Duct

Small space air conditioning

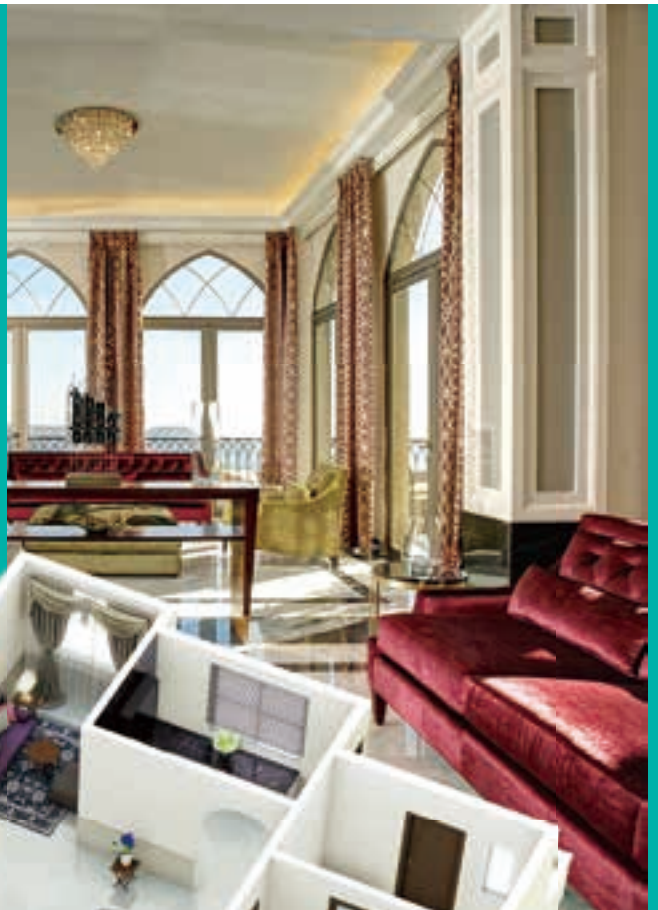
Space saving

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



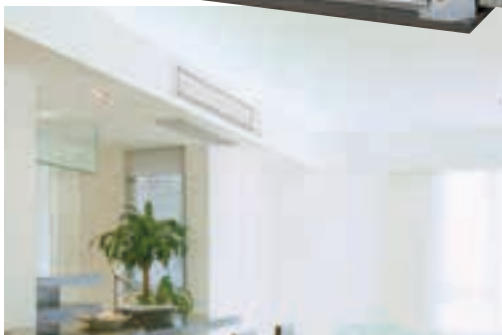
Mini Duct

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

Comfortable dining air conditioning with powerful airflow



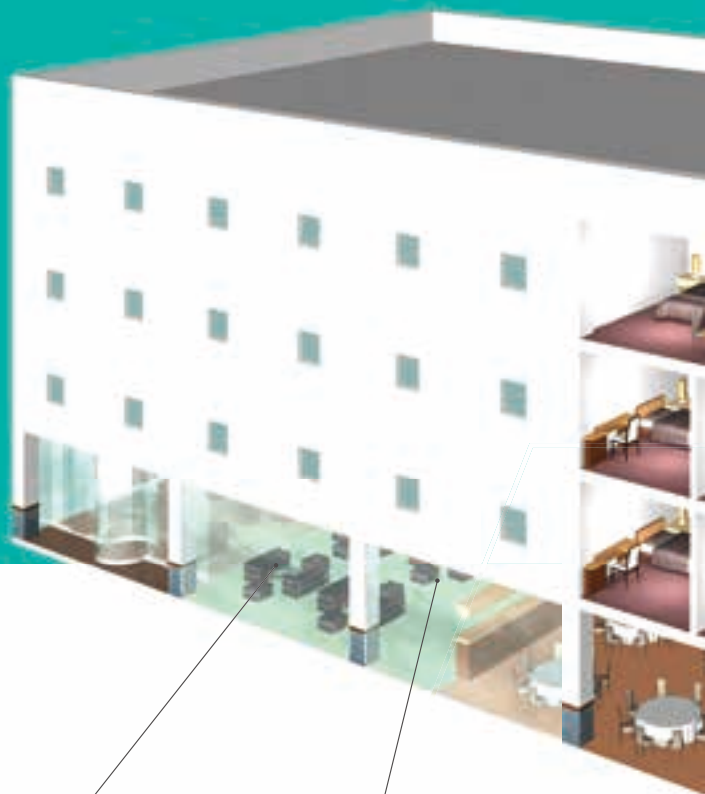
Large Wall Mounted

Light Commercial

HOTELS

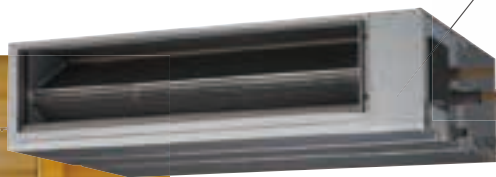
Fujitsu General provides perfect total air conditioning systems that take into account comfort, energy saving, external appearance, safety and easy installation for small low-rise hotels.

AIRSTAGE™



Large space air conditioning in the reception and lobby

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



Ventilation of the whole hotel supported

Outdoor air processing is essential in hotel spaces with a high degree of airtightness. The DX-Kit can link up with air conditioners to ensure sufficient ventilation.

This system can be expanded.

Simple Remote Controller with sophisticated design

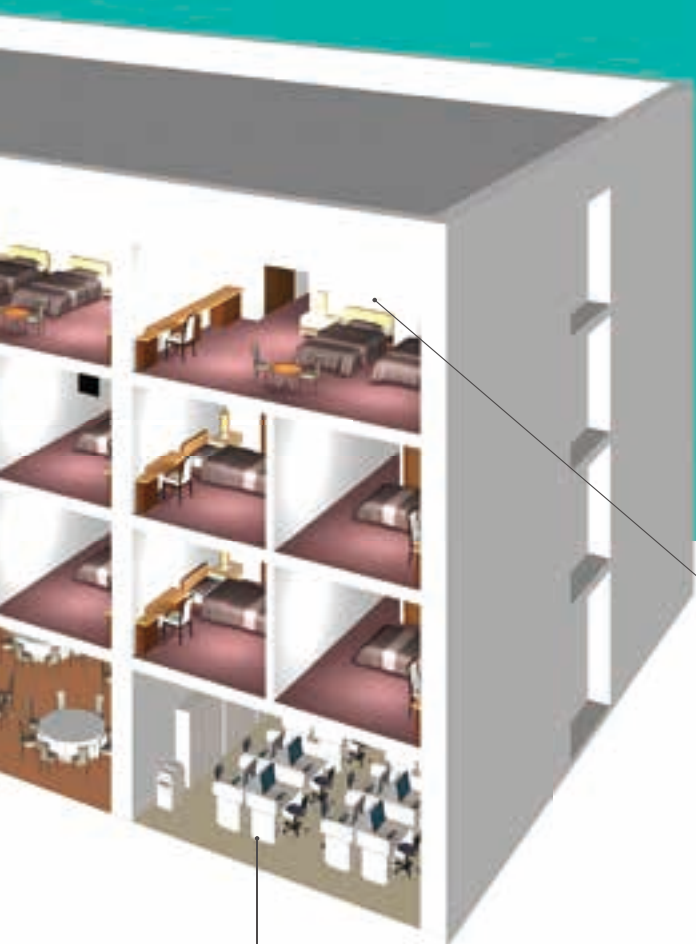
Suitable for hotels or offices as it is easily operated with no complex functions.

Large LCD screen & simple operation buttons White colored backlight on monitor enable easy operation in dark.



EEV unit

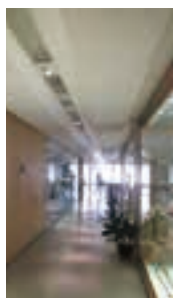
Control unit



System controller

Centralized control of air conditioning in shared spaces

Air conditioning in shared spaces such as lobbies and hallways is controlled centrally. Temperature and operating conditions can be managed without the adjustment by guests.



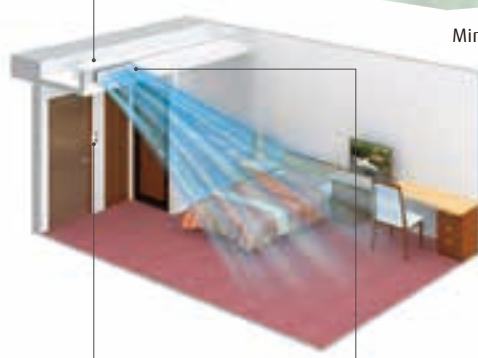
Guest room air conditioning with excellent comfort, energy saving and easy installation

Space saving

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



Mini Duct



Card key switch available

Using the card key prevents you from forgetting to switch off the air conditioner.



Use of an external connect switch

Comfortable airflow that switches up and down air directions

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



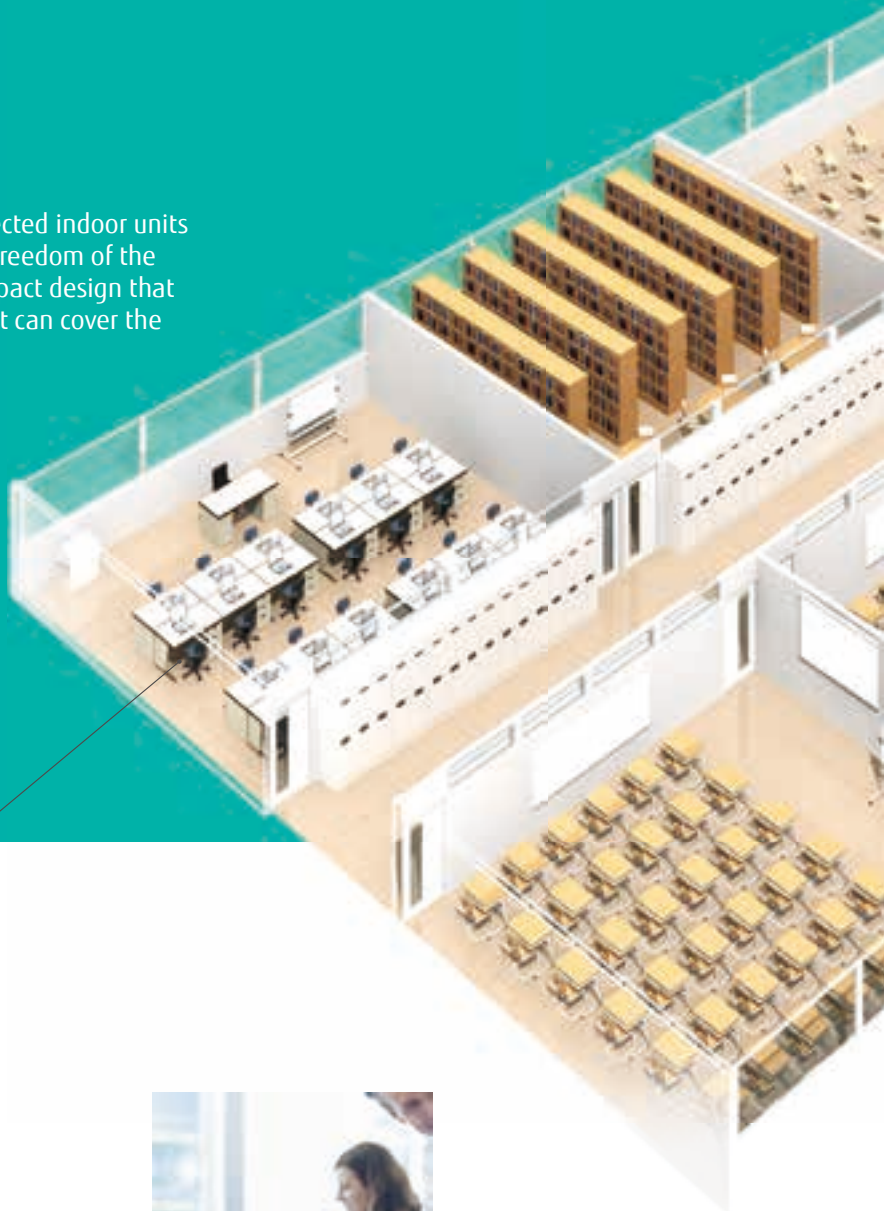
Auto Louver Grille Kit

Light Commercial

SCHOOL

Fujitsu General provides the optimal number of connected indoor units for mid-sized educational institutions. The degree of freedom of the installation location selection is improved with a compact design that minimizes the installation area. Even one outdoor unit can cover the entire school building.

AIRSTAGE™



Touch Panel Controller UTY-DTGYZ1

LAN



PC



Router

Fixed IP, IP forwarding
and open Port required



Tablet PC

Smartphone

iOS, Android and/or Windows

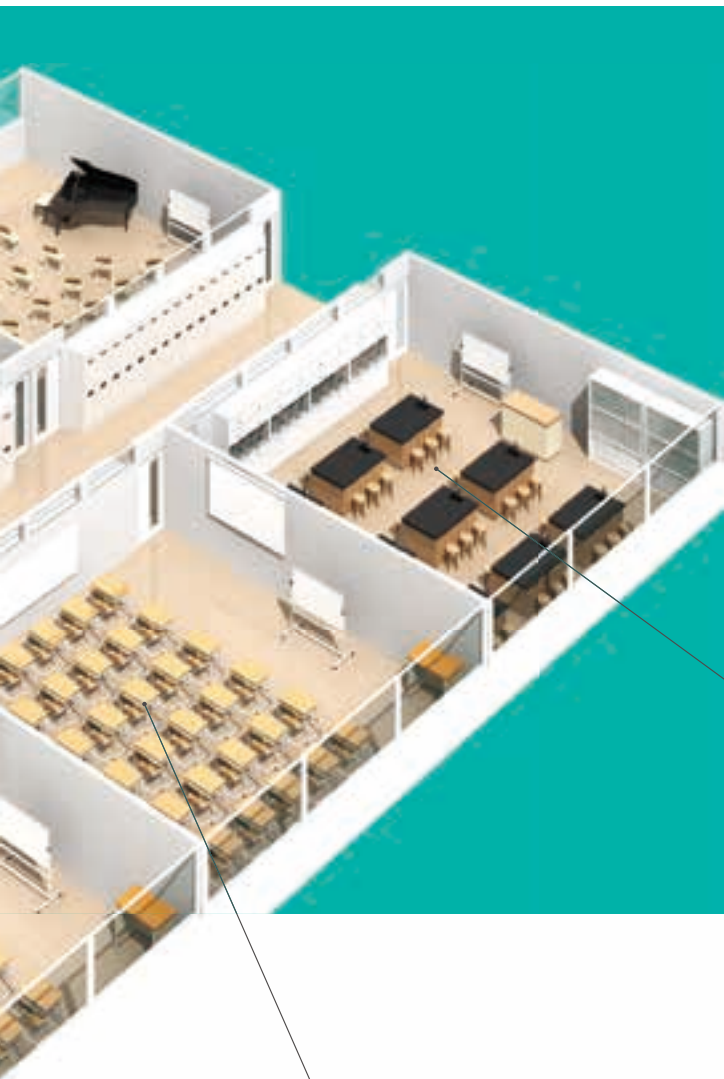
New centralized remote controller with improved operability

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

Control and monitoring

The same management as with the main unit is possible even if you are at your desk. Non-administrators can also operate the air conditioners with a PC, Smartphone or tablet.

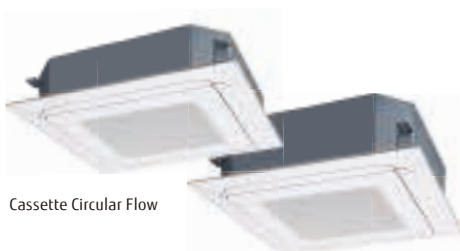




Cassette Circular Flow



Mini Duct



Cassette Circular Flow



Wall Mounted

Various indoor units

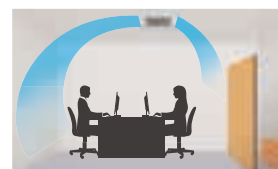
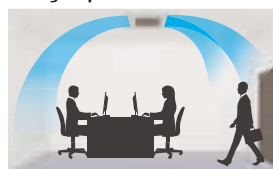
We have a lineup of indoor units that can also support complex applications – from normal classrooms to special classrooms and auditoriums. Air conditioners can be also added easily.

Comfortable room air conditioning without airflow feeling

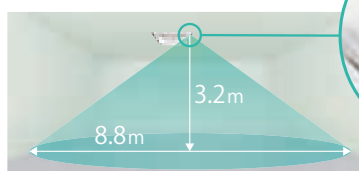
Circular Airflow Cassette blows out in all directions without temperature unevenness



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



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



Human sensor (Option)

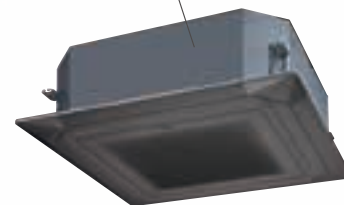
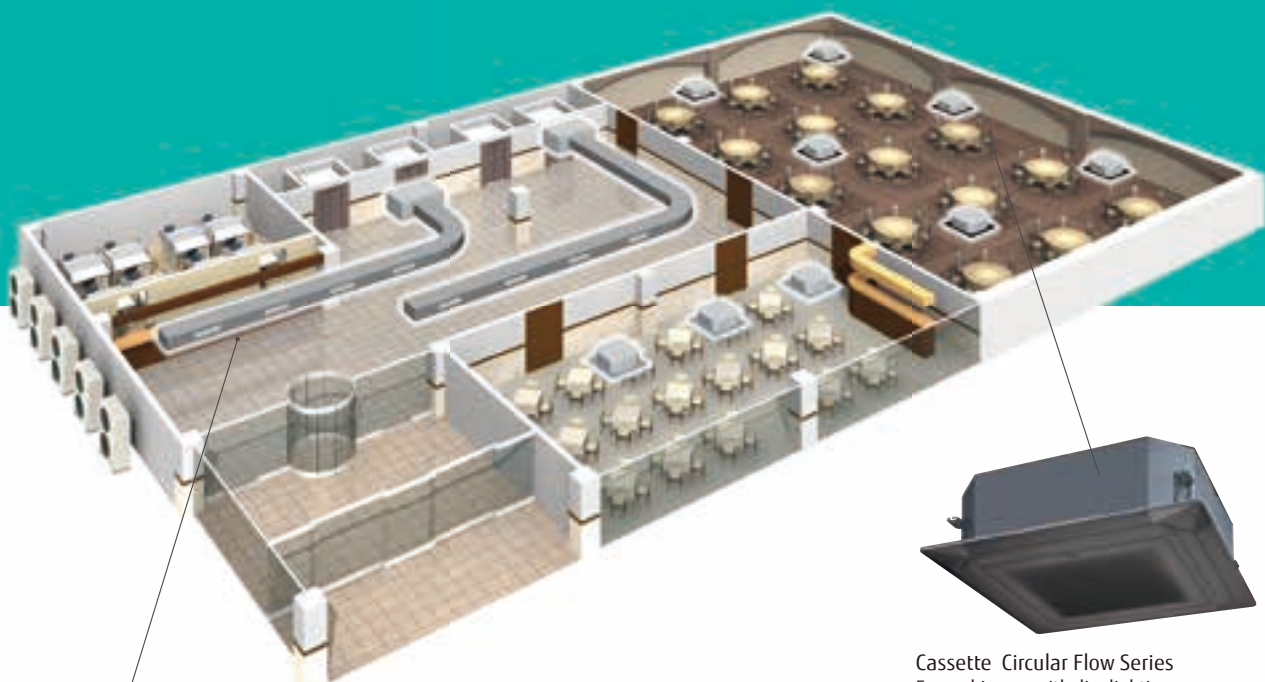
Light Commercial

RESTAURANT, SHOPS

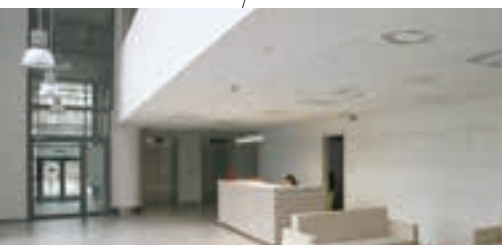
Fujitsu General provides perfect total air conditioning systems that offer smooth support by tenant, by purpose and by customer visit frequency in shops and restaurants with multiple lighting and a high density of customers.



RESTAURANT

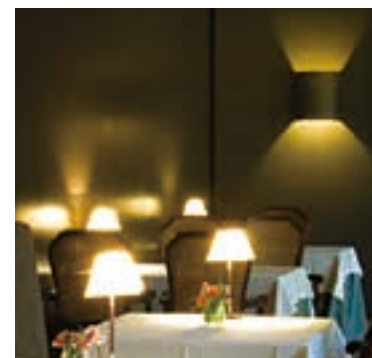


Cassette Circular Flow Series
For ambiances with dim lightings



Appropriate air conditioning in the atrium space

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



Color variations by two panels

Both black and white panels are available for Cassette type. Black panel is suitable for the dark place such as a restaurant with atmosphere. White panel is usually used at bright areas such as offices. (Available to single split and VRF indoor units)

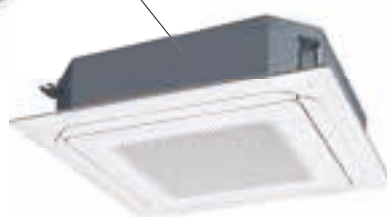
High Static Pressure Duct



SHOPS



Circular Flow Cassette



Slim type

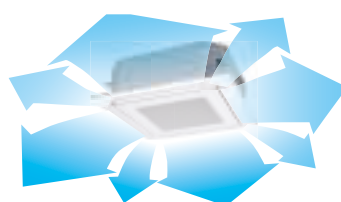


Large type



Uniform temperature air conditioning

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



Commercial

LARGE BUILDING

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

AIRSTAGE™



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



AIRSTAGE™ V-III **TROPICAL series**

8 HP - 54 HP 39 Models

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

Centralized control of both air conditioning and lighting

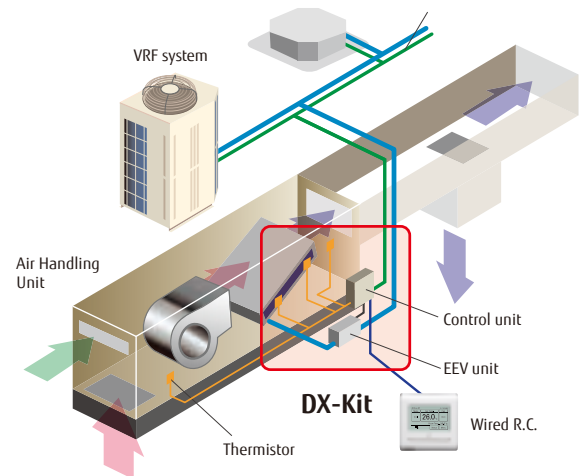
It is possible to perform centralized control to stop the operation of lighting and ventilation equipment in addition to air conditioner. This is useful in energy saving management over the whole building.





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.

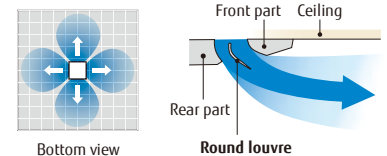


4-way Flow Cassette



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.



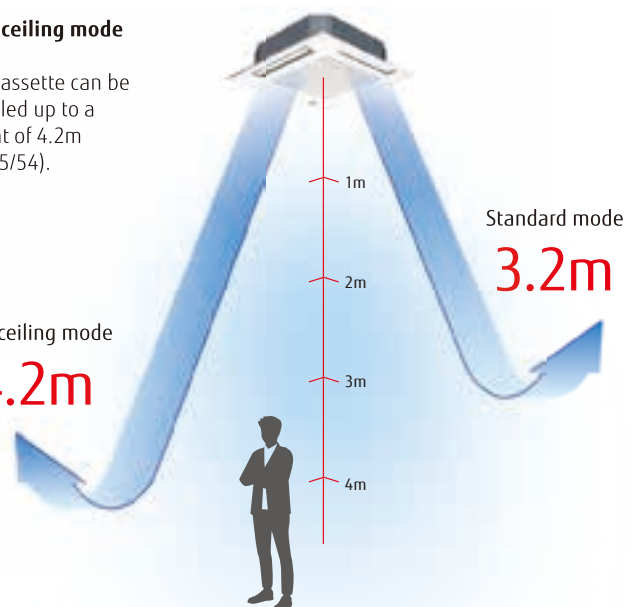
High ceiling mode

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

High ceiling mode

4.2m

Standard mode
3.2m




Difference in height Up to 110 m

The height difference between the outdoor unit and the indoor unit is usually 50 m for the V-III series, but by installing the pressure sensor kit it is possible to expand it to 110 m. (*This product can be used connected only V-III tropical series.)



Pressure Sensor Kit

A low-angle, upward-looking photograph of several skyscrapers against a clear blue sky with a few wispy clouds. The central building is a tall, cylindrical glass skyscraper that reflects the sky and other buildings. To its right is a rectangular skyscraper with a grid-like window pattern. The perspective creates a sense of height and architectural grandeur.

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

AIRSTAGE™

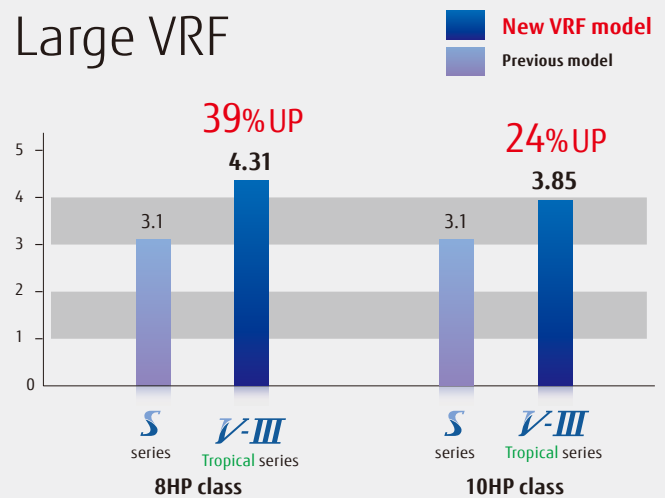
HIGH ENERGY EFFICIENCY

Highly Energy Efficiency

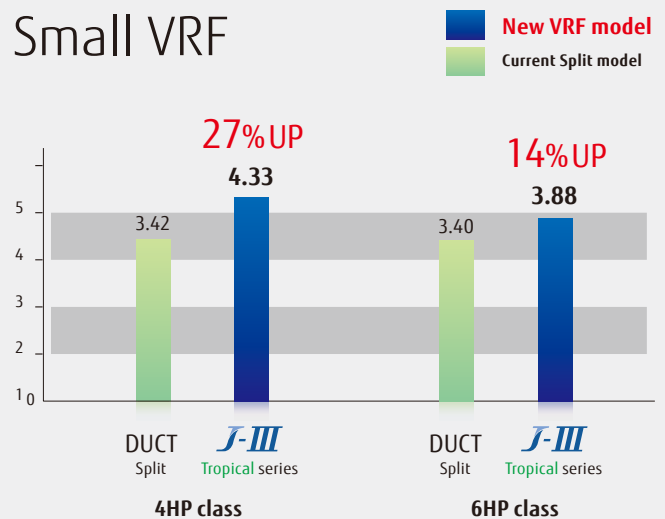
Significantly efficiency is improved by using DC twin rotary compressor, inverter technology, and large heat exchanger.



Large VRF



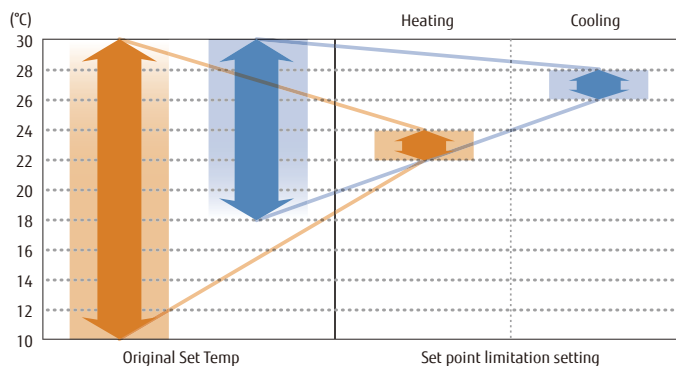
Small VRF



Operation Performance is Efficiently Controlled.

Room temperature set point limitation

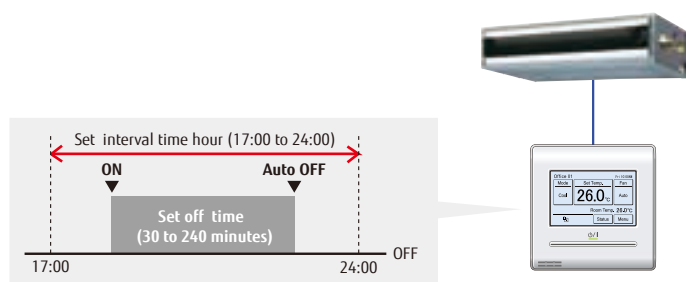
The minimum and maximum temperature ranges can be limited, which provide further energy saving while maintaining the comfort of the occupants.



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.



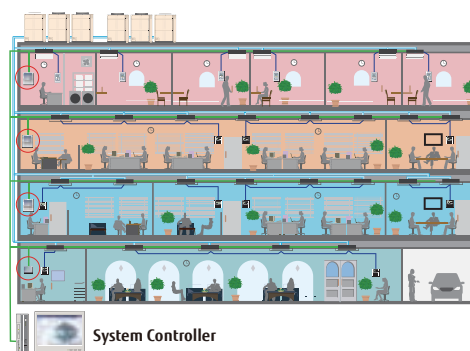
Energy saving management

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.

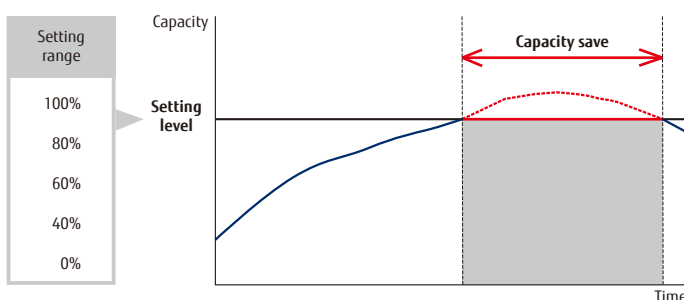


(Screen image is Energy manager software(Optional))



Capacity save operation

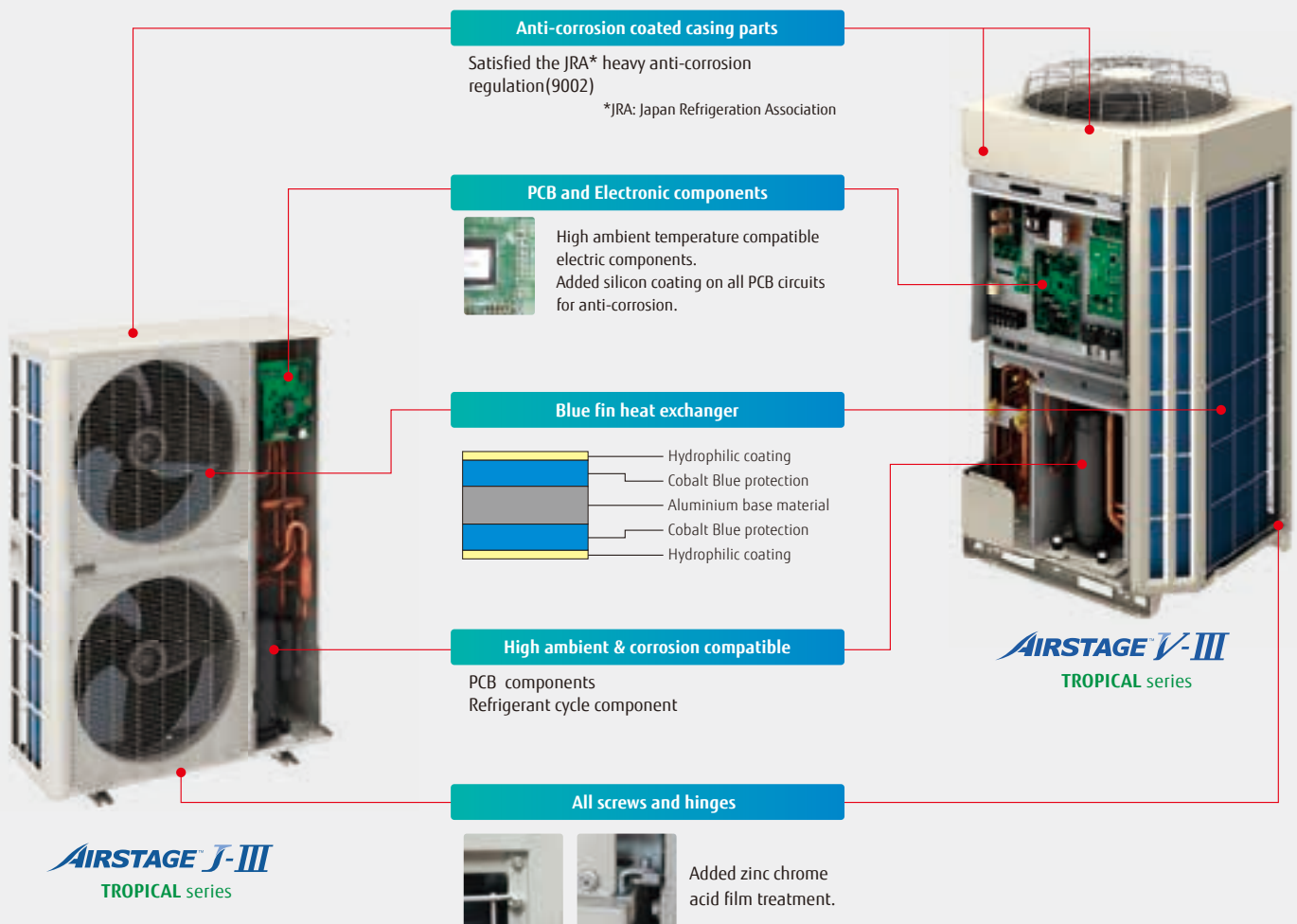
Operation capacity can be set in 5 steps for rated capability. The power consumption at peak is cut down and the maximum load is suppressed.



HIGH RELIABILITY



Heavy anti-corrosion treatment design

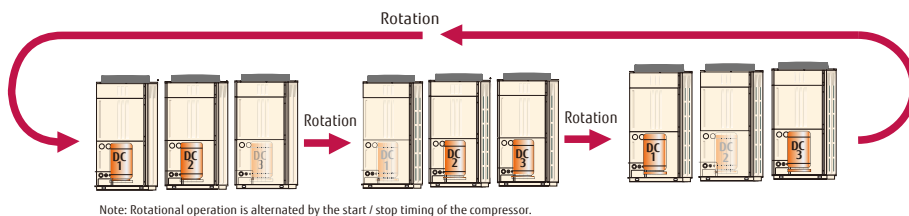


Take special notice of the following in order to enhance the anti-corrosion effect.

- 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

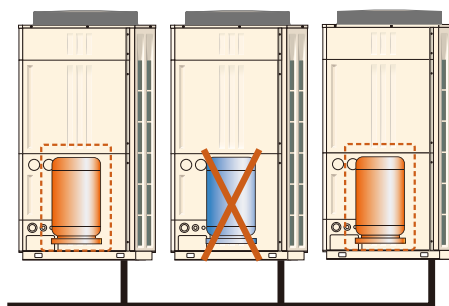
Outdoor unit rotational operation
The compressor starting order is rotated so that the running time is shared.



Backup operation

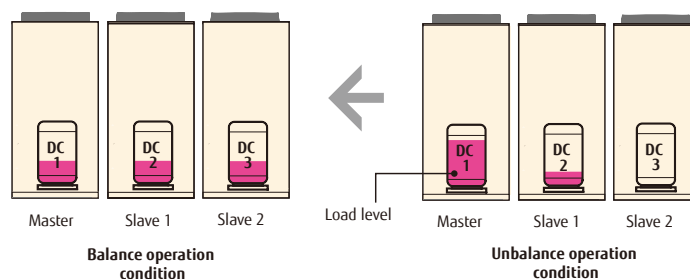
If one compressor fails, backup operation will be performed by the remaining compressors*.

NOTE: Need to change the Outdoor unit setting in order to perform the Backup Operation



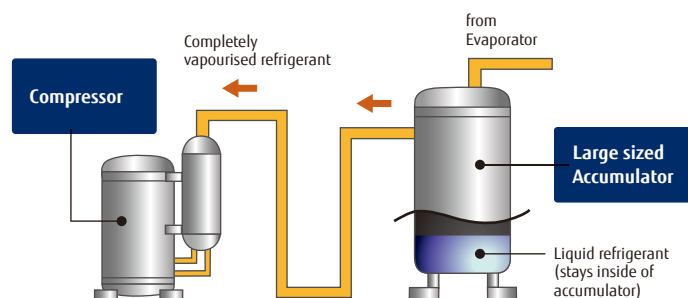
Advanced refrigerant control

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-III tropical)

Total pipe length
1,000m max.

Actual pipe length

165m

(V-III tropical)

Height difference between
outdoor and indoor units

50m max.

NOTE: Possible to extend the
height difference by using option
parts UTY-SPWX

For the outdoor unit installed
below the indoor units: 40m max.



Height difference

110m* max.

* It is only when using the
optional Pressure sensor kit.
This product can be connected
only to V-III series.

Pipe length from first
separation tube to the
farthest indoor unit

90m* max.

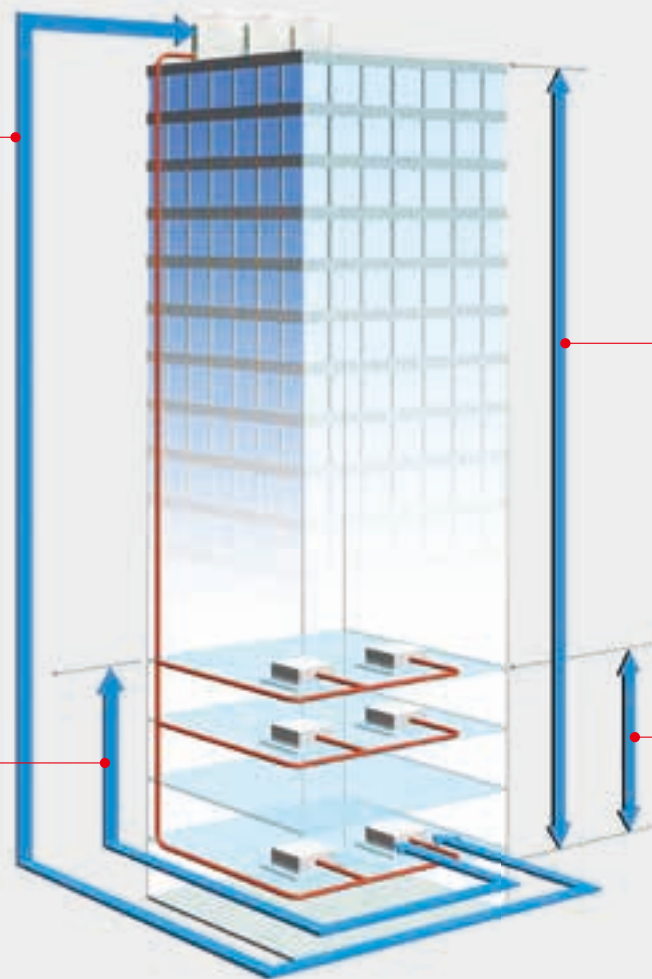
(V-III tropical)

*: 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.

Height difference between
indoor and indoor units

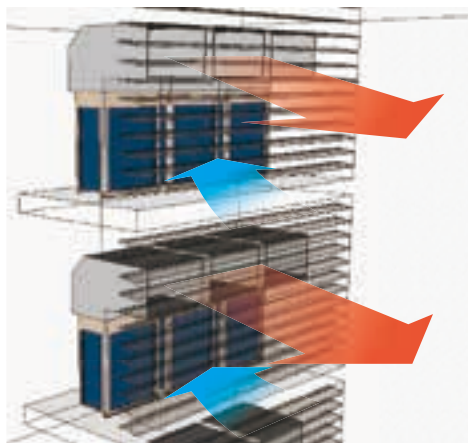
15m max.



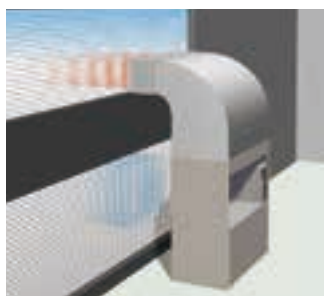
High static pressure

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

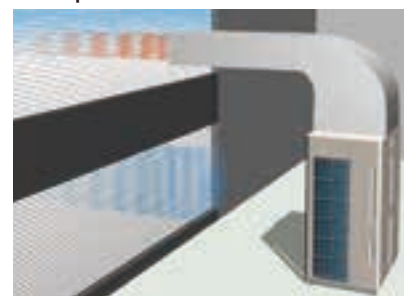
Powerful discharge air prevents a short-circuit.



Previous model



V-III tropical



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

82Pa
(V-III tropical)

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 55

AIRSTAGE J-III TROPICAL series

4HP-6HP
6models



Connectable indoor unit
capacity range
50% to 130%

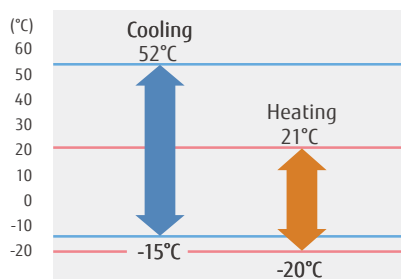
Connectable indoor
unit number
up to 9

High ambient operation design

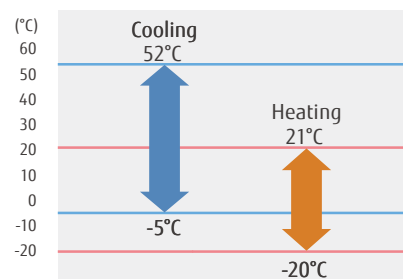


Installation in extreme temperature conditions is possible due to an increase in operational range.

AIRSTAGE V-III TROPICAL series



AIRSTAGE J-III TROPICAL series

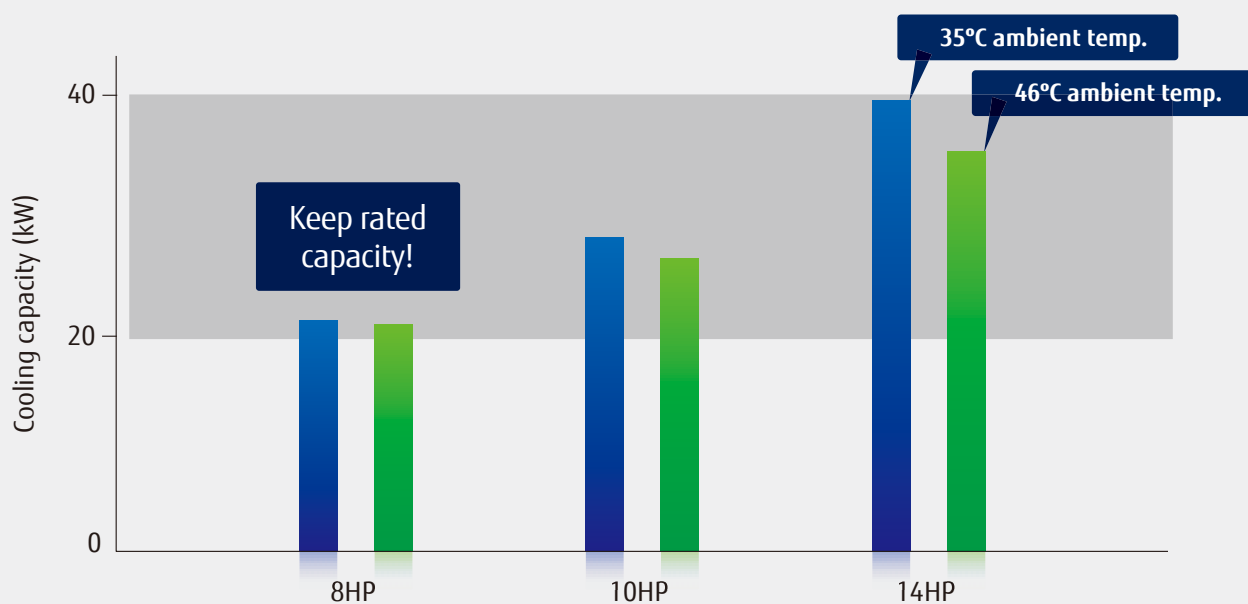


*. Note : When a multiple outdoor unit connection is used, operating range is from -5°C to 52°C in cooling.

MORE COMFORT

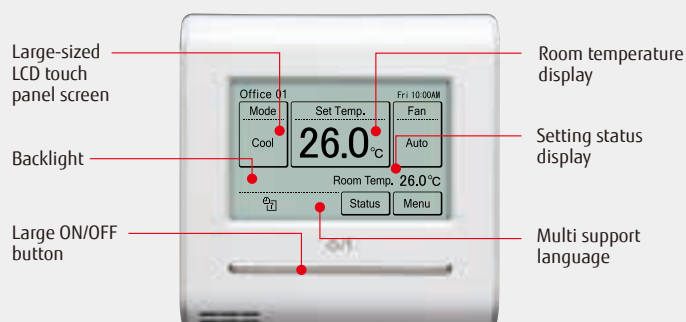
Powerful cooling capacity design

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



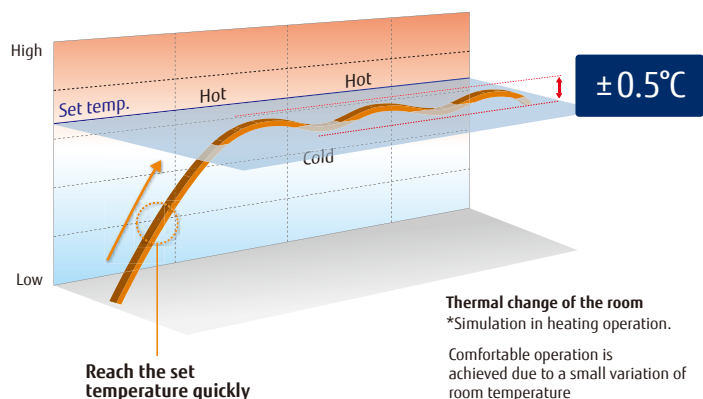
Touch Panel Wired Remote Controller

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

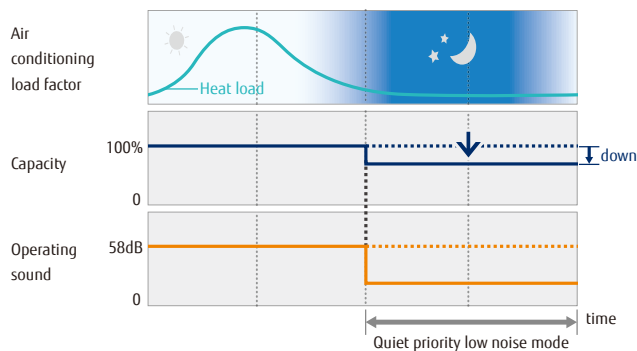


Quiet operation

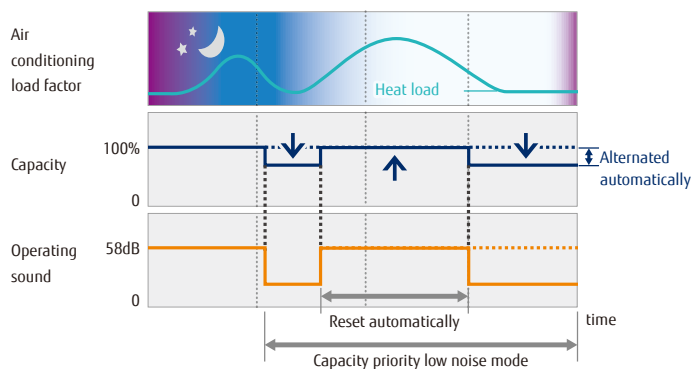
Low noise mode

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



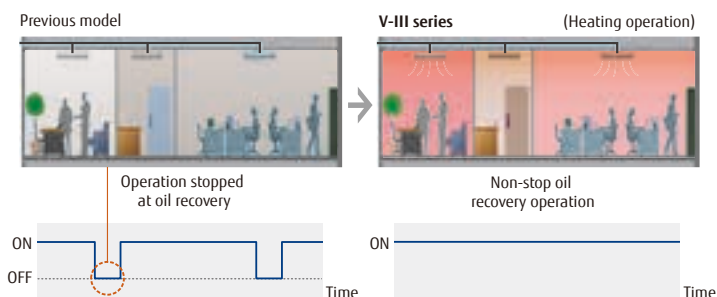
Capacity priority setting



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.

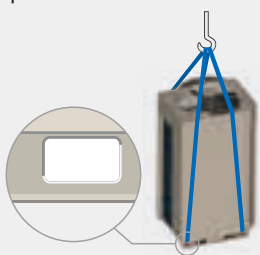


EASY INSTALLATION

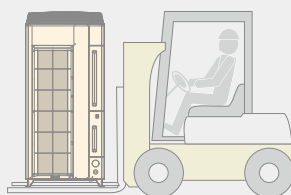


Easily transported

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.

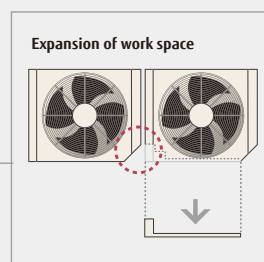


Can be transported in a small elevator



Easy access

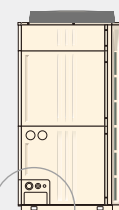
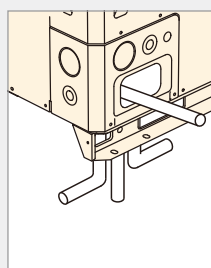
By adopting a L-Shape front panel that can be removed, the work space for installation and service has been significantly expanded by this new design. For multiple installations, work is performed easily and efficiently even in a narrow space.



Reduced installation intervals by front access

Flexible piping connection

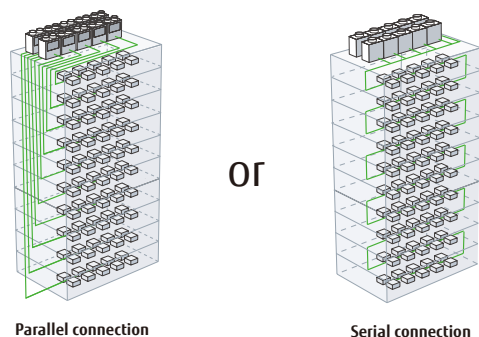
Piping and wiring are available to the front, left and right, and bottom.



Flexible installation by 4 way pipe direction

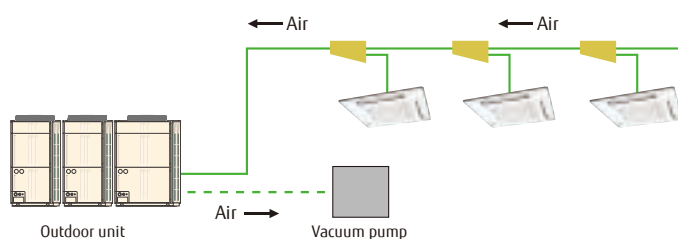
Simple wiring work

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



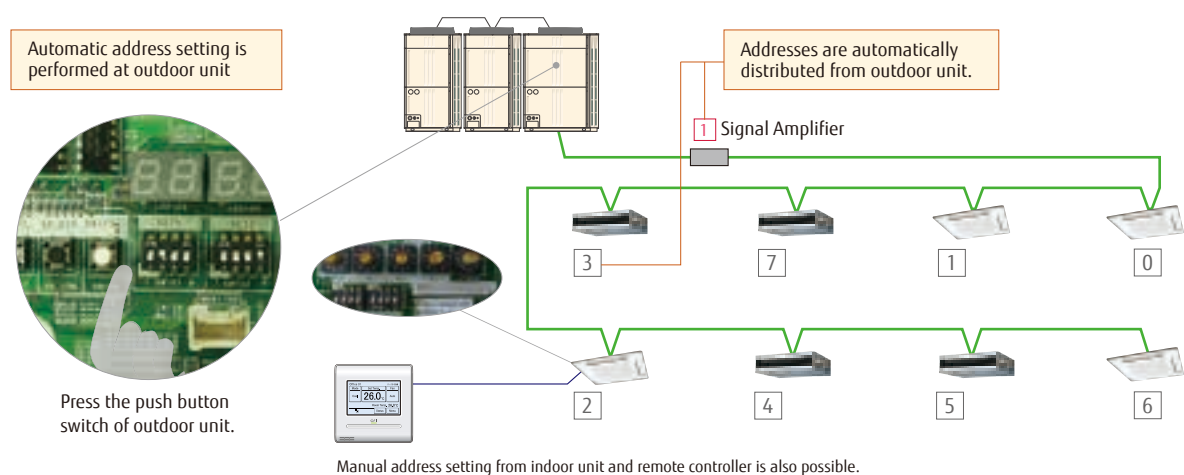
Easy evacuation - using vacuum mode function

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



Automatic address setting

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



Easy commissioning by Service Tool

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



EASY SERVICE & MAINTENANCE



Design for Easy Maintenance

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



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

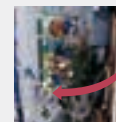


7-segment LED

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

Movable PCB panel

Easier for maintenance work behind the PCB



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

An error code is displayed on a liquid crystal screen.

Wired Remote Controller

System number
001: Controller
002: Indoor unit

Error code
002

Unit number
12

Simple Remote Controller

Remote controller address
12

Error code
12

Wired Remote Controller (Touch panel)

Error status / Error history

No.	Date	Time	Address	Code
1	2012/ 8/ 1	11:00AM	002-01	141
2	2012/ 7/20	2:53AM	002-02	143
3	2012/ 7/25	2:53AM	002-02	143
4	2012/ 7/25	11:00AM	002-01	141
5	2012/ 7/22	11:00AM	002-01	141
6	2012/ 7/21	11:00AM	002-01	141

Buttons: Back, Next Page, Erase All

Error status can be checked easily by outdoor unit display

Error and quantity annunciation

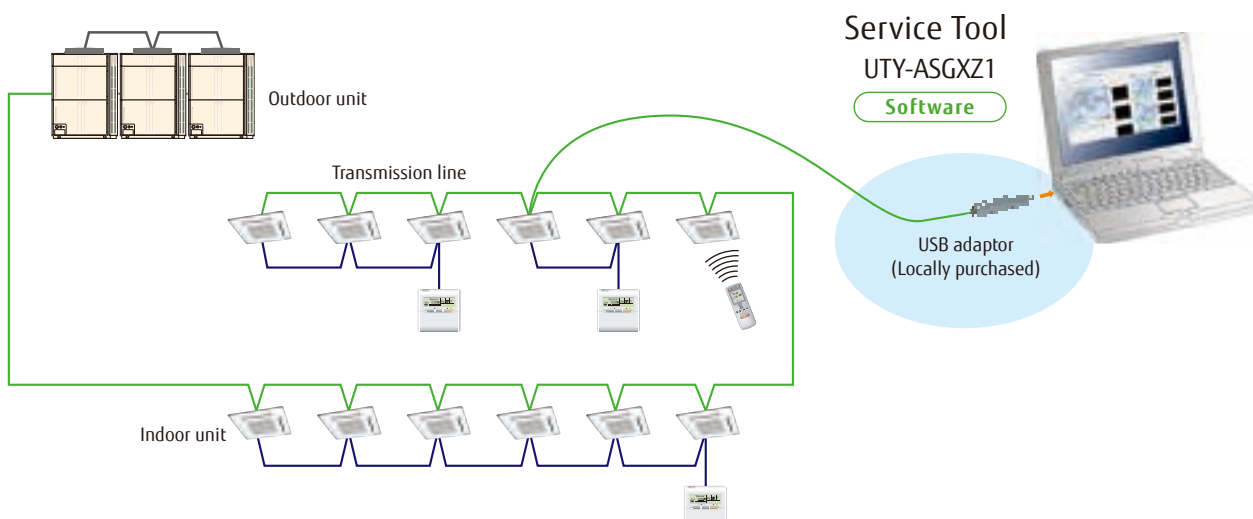
Error code

Abnormal indoor unit address

Error diagnosis by Service Tool

Connection to Service Tool

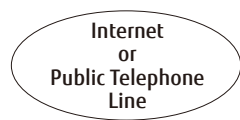
- Detail operation status and recent error history can be checked and analyzed by using the Service Tool.
- Last 5 min. operation memory can also be recorded.



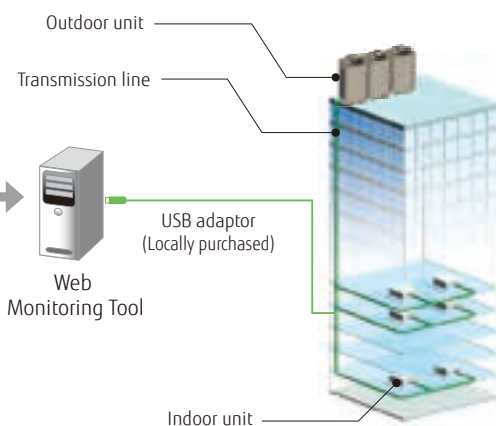
Remote monitoring

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 series (V-III tropical & J-III tropical) has a total of 45 models to meet the building Air-conditioning requirement

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

AIRSTAGE™ LINE-UP

HEAT PUMP TYPE AIRSTAGE J-III TROPICAL Series

HEAT PUMP TYPE AIRSTAGE V-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
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
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
<div><div><div>AIRSTAGE J-III</div><div>TROPICAL series</div><div>Heat Pump</div></div><div>High Efficiency (Single phase)</div></div>												
	AJH040LBTAHN	AJH045LBTAHN	AJH054LBTAHN									
<div><div><div>AIRSTAGE J-III</div><div>TROPICAL series</div><div>Heat Pump</div></div><div>High Efficiency (3 phase)</div></div>												
	AJH040LETAHN	AJH045LETAHN	AJH054LETAHN									
<div><div><div>AIRSTAGE V-III</div><div>TROPICAL series</div><div>Heat Pump</div></div><div>Space saving</div></div>												
				AJH072LNTCH	AJH090LNTCH	AJH108LNTCH	AJH126LNTCH	AJH144LNTCH	AJH162LNTCH	AJH180LNTCH	AJH198LNTCH	AJH216LNTCH
<div><div><div>AIRSTAGE V-III</div><div>TROPICAL series</div><div>Heat Pump</div></div><div>High Efficiency</div></div>												
								AJH144LNTCHH	AJH162LNTCHH	AJH180LNTCHH		AJH216LNTCHH



26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
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
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
														
AJH234LNTCH	AJH252LNTCH	AJH270LNTCH	AJH288LNTCH	AJH306LNTCH	AJH324LNTCH	AJH342LNTCH	AJH360LNTCH	AJH378LNTCH	AJH396LNTCH	AJH414LNTCH	AJH432LNTCH	AJH450LNTCH	AJH468LNTCH	AJH486LNTCH
														
AJH234LNTCHH	AJH252LNTCHH	AJH270LNTCHH	AJH288LNTCHH	AJH306LNTCHH	AJH324LNTCHH	AJH342LNTCHH	AJH360LNTCHH	AJH378LNTCHH	AJH396LNTCHH	AJH414LNTCHH				



HEAT PUMP TYPE

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

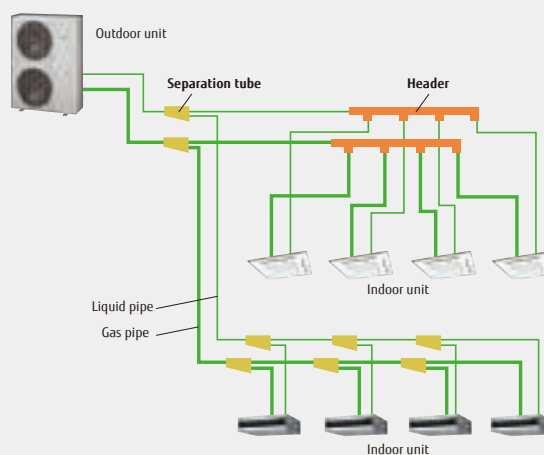
Heat pump inverter control is used to achieve an efficient cooling and heating operation in any indoor unit combination.

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

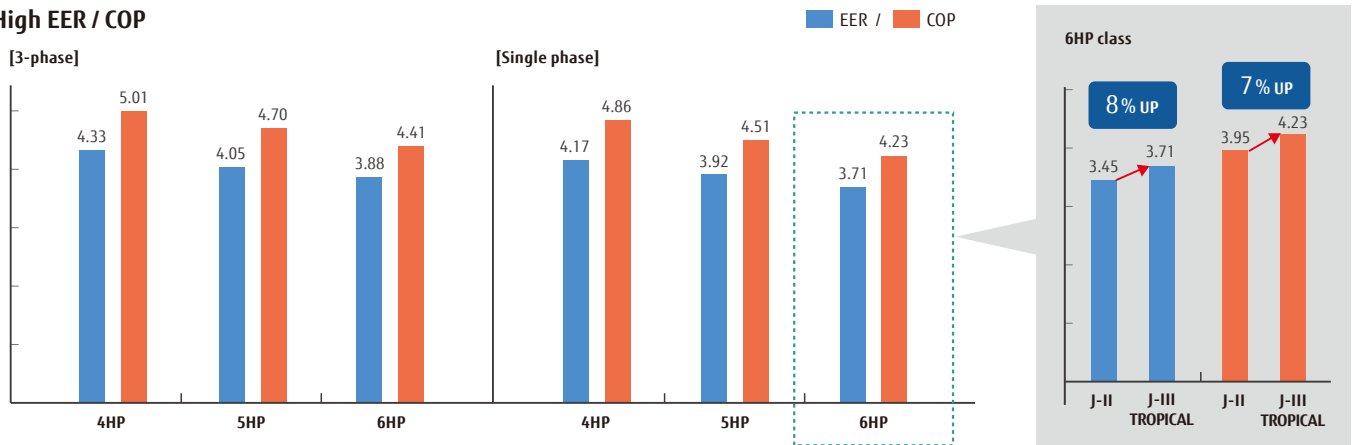
- This system is used for small and medium-sized buildings. 1 refrigerant system is used for each outdoor unit.
- Connection of multiple indoor units using separation tubes and headers.



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

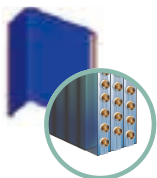


Advanced high efficiency technology



Large propeller fan

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



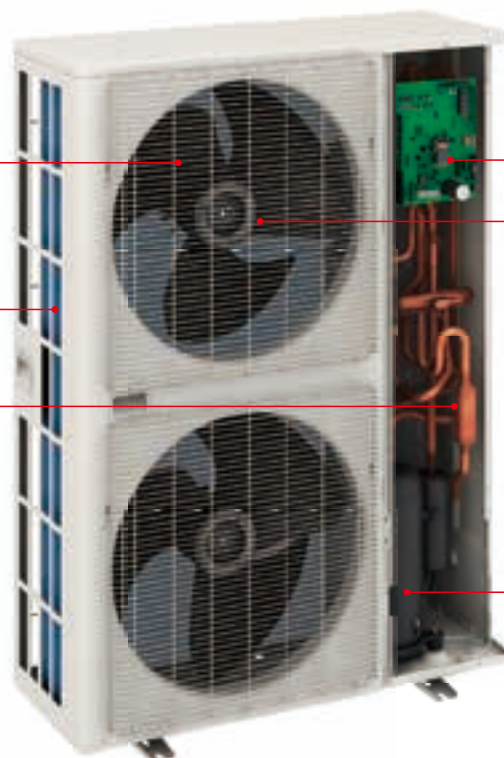
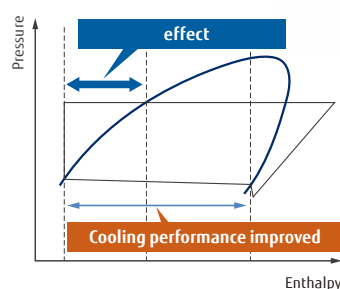
Large heat exchanger

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.



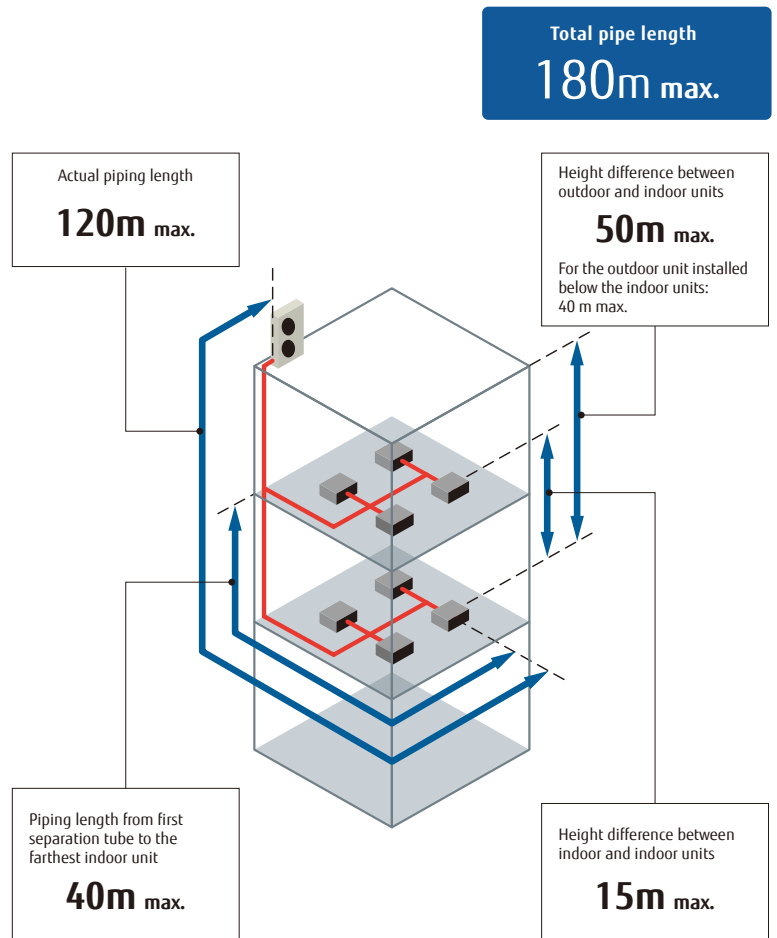
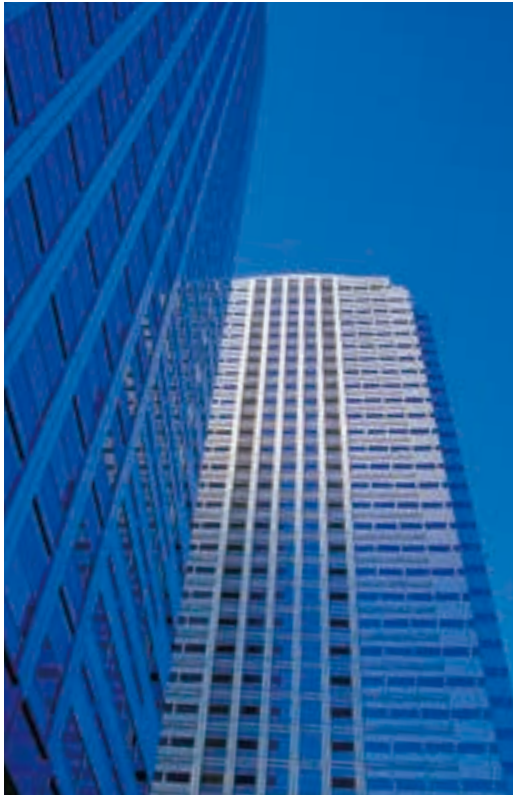
INVERTER Compressor

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

Made in JAPAN

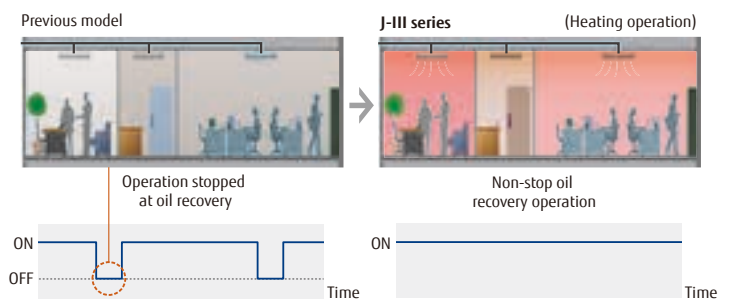
Long piping capability

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



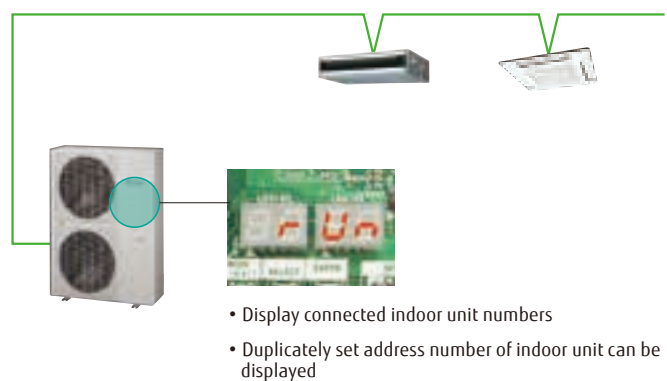
Non-stop oil recovery operation

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



Easier Installation

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



Specifications

		HP	4	5	6	4	5	6
Rating Capacity range	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, ~230V, 50Hz			3-phase, ~400V, 50Hz		
Capacity	Cooling(T1/T3)	kW	12.1/10.3	14.0/11.1	15.5/11.5	12.1/10.3	14.0/11.1	15.5/11.5
	Heating		13.6	16.0	18.0	13.6	16.0	18.0
	Cooling(T1/T3)	Btu/h	41,000/35,000	47,500/37,800	52,500/39,000	41,000/35,000	47,500/37,800	52,500/39,000
	Heating		46,000	54,500	61,000	46,000	54,500	61,000
Input power	Cooling(T1/T3)	kW	2.90/3.47	3.57/3.77	4.18/3.92	2.79/3.30	3.46/3.57	3.99/3.71
	Heating		2.80	3.55	4.26	2.71	3.40	4.08
Current	Cooling(T1/T3)	A	12.7/15.2	15.7/16.6	18.4/17.2	5.2/6.2	6.6/6.6	7.7/6.9
	Heating		12.3	15.6	18.7	5.0	6.5	7.8
EER	Cooling(T1/T3)	W/W	4.17/2.97	3.92/2.95	3.71/2.94	4.33/3.13	4.05/3.11	3.88/3.10
		Btu/h/W	14.15/10.10	13.30/10.05	12.60/9.95	14.70/10.60	13.75/10.60	13.15/10.50
COP	Heating	W/W	4.86	4.51	4.23	5.01	4.70	4.41
		Btu/h/W	16.45	15.35	14.30	17.00	16.00	14.95
Air flow rate	High	m³/h(l/s)	6,200(1,722)	6,400(1,778)	6,900(1,916)	6,200(1,722)	6,400(1,778)	6,900(1,916)
Sound pressure level	Cooling	dB (A)	50	51	53	50	51	53
	Heating		52	53	55	52	53	55
Net Dimensions	Height	mm	1,334	1,334	1,334	1,334	1,334	1,334
	Width		970	970	970	970	970	970
	Depth		370	370	370	370	370	370
Net Weight		kg	120	120	120	120	120	120
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Gas		15.88	15.88	19.05	15.88	15.88	19.05
Operation range	Cooling	°CDB	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note: Specifications are based on the following conditions.

Cooling(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

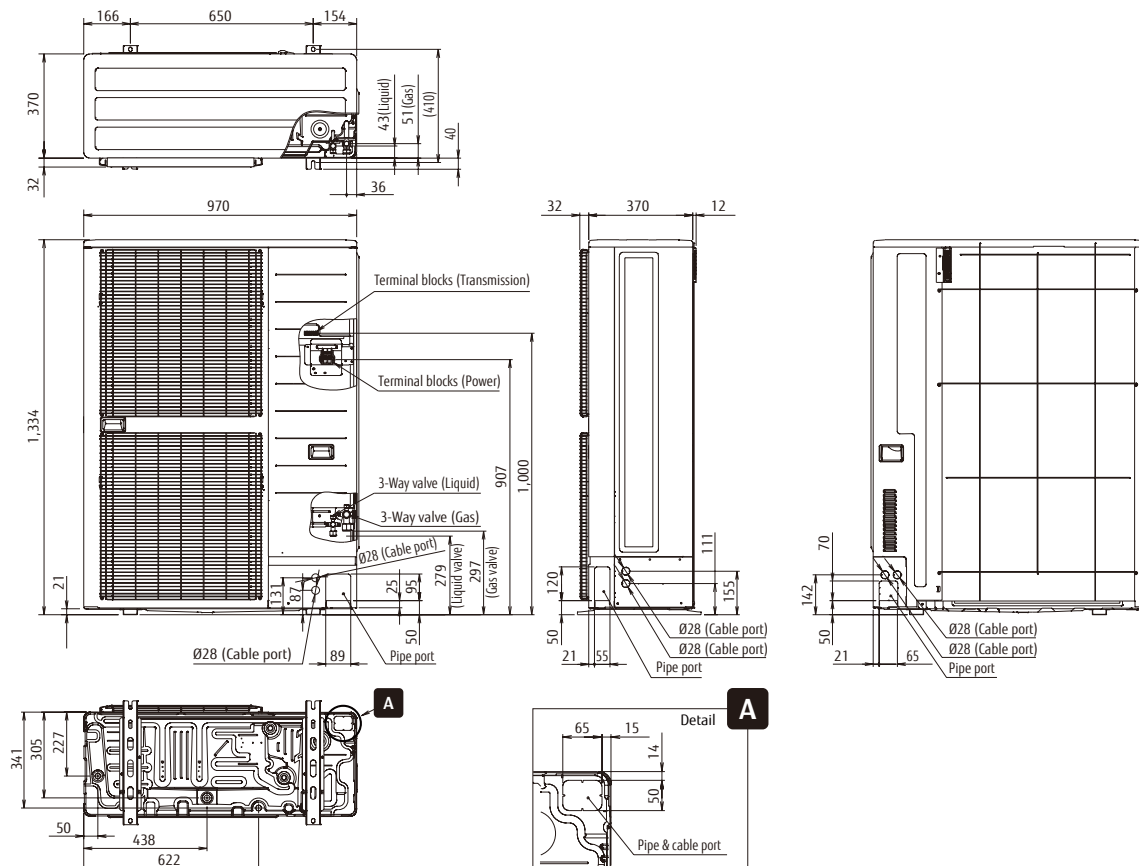
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

Dimensions

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

(Unit : mm)



HEAT PUMP TYPE

AIRSTAGE™ V-III



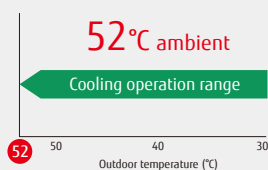
TROPICAL series

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

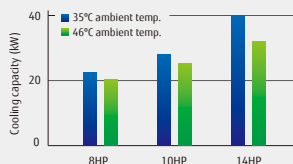
High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature



Powerful cooling capacity design

Keeping high cooling power at even high ambient temperature



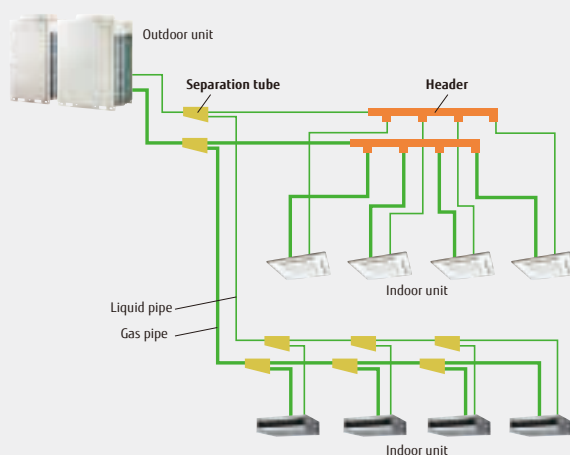
Anti-corrosion treatment design

All metallic and PCB components are protected against corrosion



System configuration example

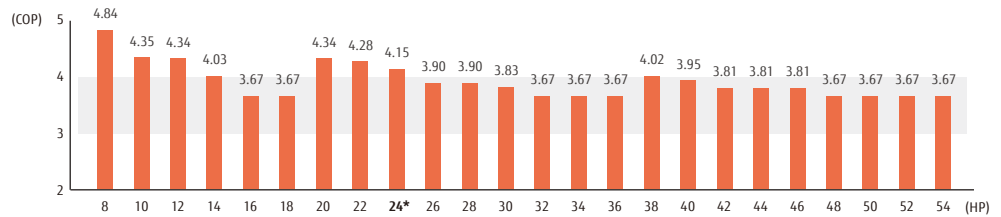
- This system is used for medium-sized and large buildings. Connecting each outdoor unit makes it possible to create a high-capacity system.
- Connection of multiple indoor units using separation tubes and headers.



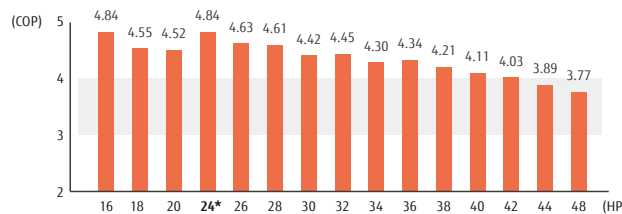
Energy efficiency

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



For 24 HP Combination

Space saving

Energy efficiency

COP 17% UP

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.



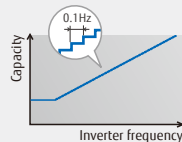
Sine-wave DC inverter control

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

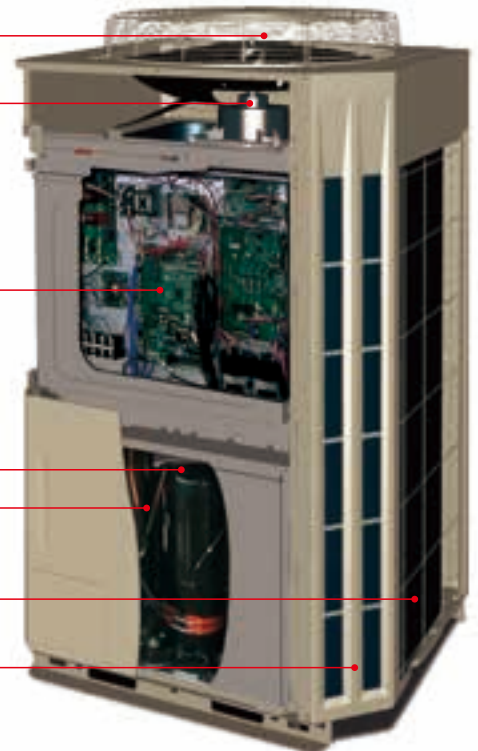
High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.



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.

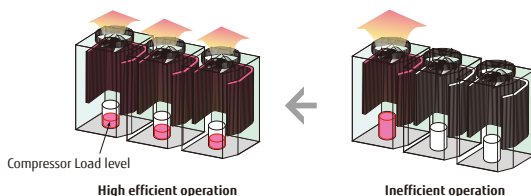
Front intake port (corner cut air inhaling structure)



Advanced energy saving control

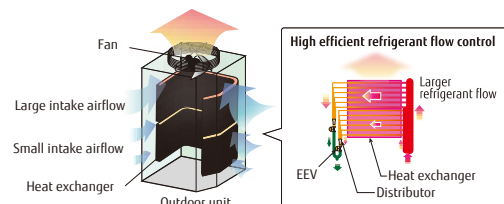
Multiple outdoor operation control

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

72,000Btu/h (8HP)  AJH072LNTCH UNIT : AJH072LNTCH	90,000Btu/h (10HP)  AJH090LNTCH UNIT : AJH090LNTCH	108,000Btu/h (12HP)  AJH108LNTCH UNIT : AJH108LNTCH	126,000Btu/h (14HP)  AJH126LNTCH UNIT : AJH126LNTCH	144,000Btu/h (16HP)  AJH144LNTCH UNIT : AJH144LNTCH
162,000Btu/h (18HP)  AJH162LNTCH UNIT : AJH162LNTCH	180,000Btu/h (20HP)  AJH180LNTCH UNIT : AJH090/090LNTCH	198,000Btu/h (22HP)  AJH198LNTCH UNIT : AJH126/072LNTCH	216,000Btu/h (24HP)  AJH216LNTCH UNIT : AJH126/090LNTCH	234,000Btu/h (26HP)  AJH234LNTCH UNIT : AJH144/090LNTCH
252,000Btu/h (28HP)  AJH252LNTCH UNIT : AJH162/090LNTCH	270,000Btu/h (30HP)  AJH270LNTCH UNIT : AJH144/126LNTCH	288,000Btu/h (32HP)  AJH288LNTCH UNIT : AJH144/144LNTCH	306,000Btu/h (34HP)  AJH306LNTCH UNIT : AJH162/144LNTCH	324,000Btu/h (36HP)  AJH324LNTCH UNIT : AJH162/162LNTCH
342,000Btu/h (38HP)  AJH342LNTCH UNIT : AJH162/090/090LNTCH	360,000Btu/h (40HP)  AJH360LNTCH UNIT : AJH144/126/090LNTCH	378,000Btu/h (42HP)  AJH378LNTCH UNIT : AJH144/144/090LNTCH	396,000Btu/h (44HP)  AJH396LNTCH UNIT : AJH162/144/090LNTCH	414,000Btu/h (46HP)  AJH414LNTCH UNIT : AJH162/162/090LNTCH
432,000Btu/h (48HP)  AJH432LNTCH UNIT : AJH144/144/144LNTCH	450,000Btu/h (50HP)  AJH450LNTCH UNIT : AJH162/144/144LNTCH	468,000Btu/h (52HP)  AJH468LNTCH UNIT : AJH162/162/144LNTCH	486,000Btu/h (54HP)  AJH486LNTCH UNIT : AJH162/162/162LNTCH	

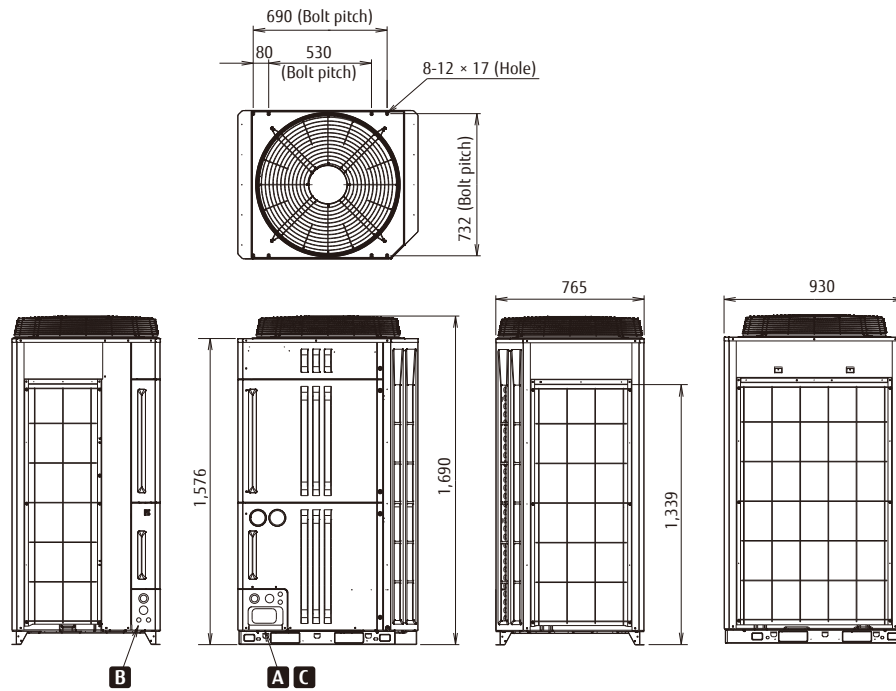
Energy efficiency combination

144,000Btu/h (16HP)  AJH144LNTCHH UNIT : AJH072/072LNTCH	162,000Btu/h (18HP)  AJH162LNTCHH UNIT : AJH090/072LNTCH	180,000Btu/h (20HP)  AJH180LNTCHH UNIT : AJH108/072LNTCH	216,000Btu/h (24HP)  AJH216LNTCHH UNIT : AJH072/072/072LNTCH	234,000Btu/h (26HP)  AJH234LNTCHH UNIT : AJH090/072/072LNTCH
252,000Btu/h (28HP)  AJH252LNTCHH UNIT : AJH108/072/072LNTCH	270,000Btu/h (30HP)  AJH270LNTCHH UNIT : AJH126/072/072LNTCH	288,000Btu/h (32HP)  AJH288LNTCHH UNIT : AJH108/108/072LNTCH	306,000Btu/h (34HP)  AJH306LNTCHH UNIT : AJH126/108/072LNTCH	324,000Btu/h (36HP)  AJH324LNTCHH UNIT : AJH108/108/108LNTCH
342,000Btu/h (38HP)  AJH342LNTCHH UNIT : AJH126/108/108LNTCH	360,000Btu/h (40HP)  AJH360LNTCHH UNIT : AJH126/126/108LNTCH	378,000Btu/h (42HP)  AJH378LNTCHH UNIT : AJH126/126/126LNTCH	396,000Btu/h (44HP)  AJH396LNTCHH UNIT : AJH144/126/126LNTCH	414,000Btu/h (46HP)  AJH414LNTCHH UNIT : AJH144/144/126LNTCH

Dimensions

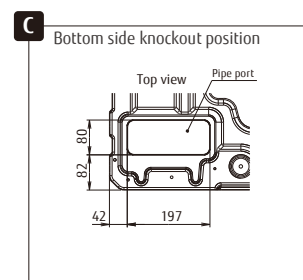
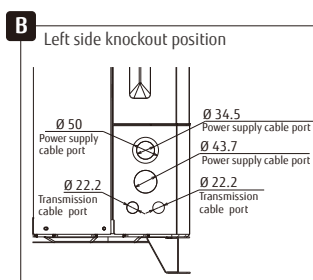
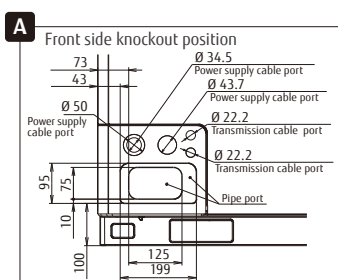
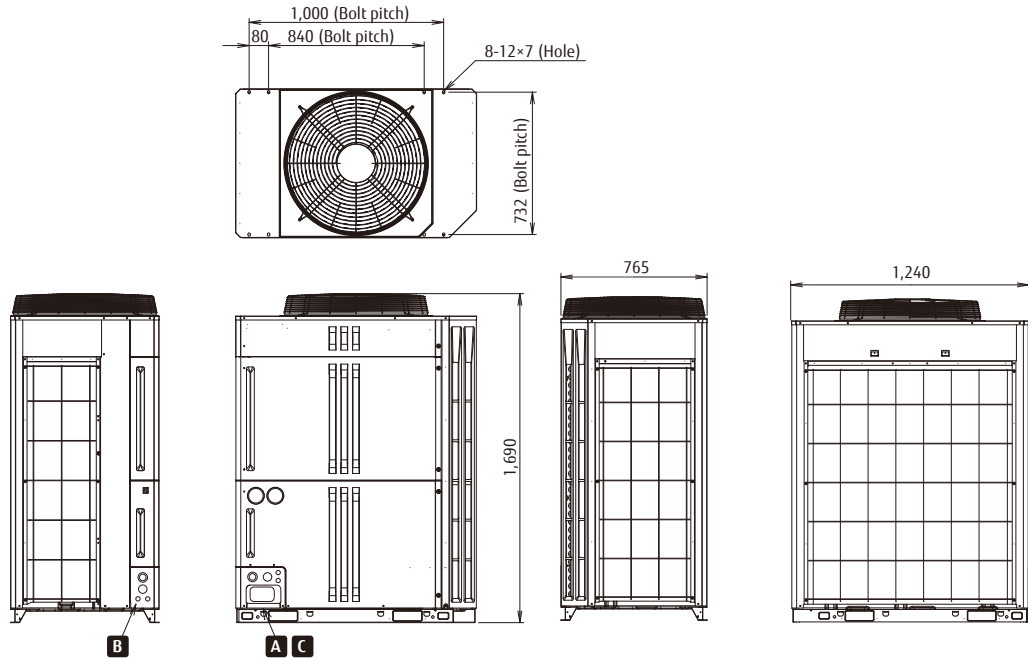
8,10HP : AJH072LNTCH / AJH090LNTCH

(Unit : mm)



12,14,16,18HP : AJH108LNTCH / AJH126LNTCH / AJH144LNTCH / AJH162LNTCH

(Unit : mm)



Outdoor units specifications

Space Saving Combination

Rating Capacity range			HP	8	10	12	14	16	18	20	22	24	26	28	
			Btu/h	72,000	90,000	108,000	126,000	144,000	162,000	180,000	198,000	216,000	234,000	252,000	
			Ton	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	
Model name			AJH072LNTCH		AJH090LNTCH	AJH108LNTCH	AJH126LNTCH	AJH144LNTCH	AJH162LNTCH	AJH180LNTCH	AJH198LNTCH	AJH216LNTCH	AJH234LNTCH	AJH252LNTCH	
Unit 1			AJH072LNTCH		AJH090LNTCH	AJH108LNTCH	AJH126LNTCH	AJH144LNTCH	AJH162LNTCH	AJH090LNTCH	AJH126LNTCH	AJH090LNTCH	AJH144LNTCH	AJH162LNTCH	
Unit 2										AJH090LNTCH	AJH072LNTCH	AJH090LNTCH	AJH090LNTCH	AJH090LNTCH	
Unit 3															
Maximum Connectable Indoor Unit			13		16	19	23	26	29	33	36	40	43	46	
Indoor unit connectable capacity		Cooling	kW	11.2-29.1	14-36.4	16.8-43.5	20-52	22.5-58.5	25-65	28-72.8	31.2-81.1	34-88.4	36.5-94.9	39-101.4	
Power source			3-phase 4 wire, 400 V, 50Hz												
T1 condition	Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	62.4	68.0	73.0	78.0	
		Heating		25.0	31.5	37.5	45.0	50.0	50.0	63.0	70.0	76.5	81.5	81.5	
		Cooling	Btu/h	76400	95500	114300	136500	153500	170600	191000	212900	232000	249000	266100	
		Heating		85300	107500	128000	153500	170600	170600	215000	238800	261000	278100	278100	
	Input power	Cooling	kW	5.20	7.28	8.96	10.96	13.01	16.56	14.56	16.16	18.24	20.29	23.84	
		Heating		5.17	7.25	8.65	11.17	13.63	13.63	14.50	16.34	18.42	20.88	20.88	
	Current	Cooling	A	9.2	12.0	15.0	17.7	20.7	26.1	-	-	-	-	-	
		Heating		9.2	12.2	14.6	18.2	21.5	21.5	-	-	-	-	-	
	EER	Cooling	W/W	4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27	
		Heating		4.84	4.35	4.34	4.03	3.67	3.67	4.34	4.28	4.15	3.90	3.90	
		Cooling		Btu/h/W	14.7	13.1	12.8	12.5	11.8	10.3	13.1	13.2	12.7	12.3	11.2
		COP			16.5	14.8	14.8	13.7	12.5	12.5	14.8	14.6	14.2	13.3	13.3
T3 condition	Capacity	Cooling	kW	20.2	25.2	28.5	32	35.1	35.2	50.4	52.2	57.2	60.3	60.4	
	Btu/h		68900	86000	97200	109200	119800	120100	172000	178100	195200	205800	206100		
	kW		6.73	9.20	9.34	10.70	11.82	12.35	18.39	17.44	19.90	21.02	21.55		
	A		10.8	14.5	14.7	16.9	18.6	19.2	-	-	-	-	-		
	W/W		3.00	2.74	3.05	2.99	2.97	2.85	2.74	2.99	2.87	2.87	2.80		
	Btu/h/W		10.23	9.35	10.40	10.20	10.14	9.72	9.35	10.21	9.81	9.79	9.56		
Power factor		%	90	92	92	92	92	93	-	-	-	-	-		
Air flow rate		High	m³/h	11100	11100	13000	13000	13700	13700	11100×2	13000+11100	13000+11100	13700+11100	13700+11100	
Sound pressure level		Cooling	dB (A)	56	58	57	60	62	63	61	61	62	63	64	
		Heating		58	59	60	62	64	64	62	63	64	65	65	
External static pressure (Max)		Pa	82	82	82	82	82	82	82	82	82	82	82	82	
Compressor motor output		kW	7.5	7.5	11	11	11	11	11	7.5×2	11.0+7.5	11.0+7.5	11.0+7.5	11.0+7.5	
Heat exchanger fin				Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	
Dimensions	Height	mm	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	
	Width		930	930	1240	1240	1240	1240	930×2	1240+930	1240+930	1240+930	1240+930		
	Depth		765	765	765	765	765	765	765	765	765	765	765		
Weight		kg	255	255	279	279	279	279	255+2	279+255	279+255	279+255	279+255		
Refrigerant		Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	
		Charge	kg	11.7	11.7	11.8	11.8	11.8	11.8	11.7×2	11.8+11.7	11.8+11.7	11.8+11.7	11.8+11.7	
Connection pipe diameter		Liquid	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88	15.88	
		Discharge Gas	22.22	22.22	28.58	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	
Operation range		Cooling	°CDB	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	
		Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	

Energy Efficiency Combination

Rating Capacity range			HP	16	18	20	24	26	28	30	32	
			Btu/h	144,000	162,000	180,000	216,000	234,000	252,000	270,000	288,000	
			Ton	12.0	13.5	15.0	18.0	19.5	21.0	22.5	24.0	
Model name			AJH144LNTCHH		AJH162LNTCHH	AJH180LNTCHH	AJH216LNTCHH	AJH234LNTCHH	AJH252LNTCHH	AJH270LNTCHH	AJH288LNTCHH	
Unit 1			AJH072LNTCH AJH072LNTCH		AJH090LNTCH AJH072LNTCH	AJH108LNTCH AJH072LNTCH	AJH072LNTCH AJH072LNTCH	AJH090LNTCH AJH072LNTCH	AJH108LNTCH AJH072LNTCH	AJH126LNTCH AJH072LNTCH	AJH108LNTCH AJH072LNTCH	
Unit 2												
Unit 3												
Maximum Connectable Indoor Unit			26		29	33	39	43	46	50	52	
Indoor unit connectable capacity		Cooling	kW	22.4-58.2		25.2-65.5	28-72.6	33.6-87.3	36.4-94.6	39.2-101.7	42.4-110.2	44.7-116.2
Power source			3-phase 4 wire, 400 V, 50Hz									
T1 condition	Capacity	Cooling	kW	44.8	50.4	55.9	67.2	72.8	78.3	84.8	89.4	
				Heating	50.0	56.5	62.5	75.0	81.5	87.5	95.0	100.0
		Btu/h	Cooling	152800	171900	190700	229200	248300	267100	289300	305000	
			Heating	170600	192800	213300	255900	278100	298600	324100	341300	
	Input power	kW	Cooling	10.40	12.48	14.16	15.60	17.68	19.36	21.36	23.12	
			Heating	10.34	12.42	13.82	15.51	17.59	18.99	21.51	22.47	
	Current	A	Cooling	-	-	-	-	-	-	-	-	
			Heating	-	-	-	-	-	-	-	-	
	EER	Cooling	W/W	4.31	4.04	3.95	4.31	4.12	4.04	3.97	3.87	
				Heating	4.84	4.55	4.52	4.84	4.63	4.61	4.42	4.45
		Btu/h/W		Cooling	14.7	13.8	13.5	14.7	14.0	13.8	13.5	13.2
				Heating	16.5	15.5	15.4	16.5	15.8	15.7	15.1	15.2
T3 condition	Capacity	Cooling	kW	40.4	45.4	48.7	60.6	65.6	68.9	72.4	77.2	
			Btu/h	137800	154900	166100	206700	223800	235000	247000	263300	
	Input power		kW	13.47	15.93	16.08	20.20	22.66	22.81	24.17	25.42	
	Current		A	-	-	-	-	-	-	-	-	
	EER		W/W	3.00	2.85	3.03	3.00	2.89	3.02	3.00	3.04	
			Btu/h/W	10.23	9.72	10.33	10.23	9.87	10.30	10.22	10.36	
Power factor			%									
Air flow rate		High	m³/h	11100×2	11100×2	13000+11100	11100×3	11100×3	13000+11100×2	13000+11100×2	13000×2+11100	
Sound pressure level		Cooling	dB (A)	59	60	60	61	62	61	63	61	
		Heating		61	62	62	63	64	65	64		
External static pressure (Max)			Pa	82	82	82	82	82	82	82	82	
Compressor motor output			kW	7.5×2	7.5×2	11.0+7.5	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2	11.0×2+7.5	
Heat exchanger fin				Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	
Dimensions			Height	mm	1690	1690	1690	1690	1690	1690	1690	
			Width		1240×2	1240×2	1240+930	930×3	930×3	1240+930×2	1240+930×2	1240×2+930
			Depth		765	765	765	765	765	765	765	765
Weight			kg	279×2	279×2	279+255	255×3	255×3	279+255×2	279+255×2	279×2+255	
Refrigerant		Type	kg	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	
		Charge		11.7×2	11.7×2	11.8+11.7	11.7×3	11.7×3	11.8+11.7×2	11.8+11.7×2	11.8×2+11.7	
Connection pipe diameter			Liquid	mm	12.70	15.88	15.88	15.88	15.88	19.05	19.05	
			Discharge Gas		28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92
Operation range			Cooling	°CDB	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	
			Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

30	32	34	36	38	40	42	44	46	48	50	52	54
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
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
AJH270LNTCH	AJH288LNTCH	AJH306LNTCH	AJH324LNTCH	AJH342LNTCH	AJH360LNTCH	AJH378LNTCH	AJH396LNTCH	AJH414LNTCH	AJH432LNTCH	AJH450LNTCH	AJH468LNTCH	AJH486LNTCH
AJH144LNTCH AJH126LNTCH	AJH144LNTCH AJH144LNTCH	AJH162LNTCH AJH144LNTCH	AJH162LNTCH AJH162LNTCH	AJH162LNTCH AJH090LNTCH AJH090LNTCH	AJH144LNTCH AJH126LNTCH AJH090LNTCH	AJH144LNTCH AJH144LNTCH AJH090LNTCH	AJH162LNTCH AJH144LNTCH AJH090LNTCH	AJH162LNTCH AJH162LNTCH AJH090LNTCH	AJH144LNTCH AJH144LNTCH AJH144LNTCH	AJH162LNTCH AJH144LNTCH AJH144LNTCH	AJH162LNTCH AJH162LNTCH AJH144LNTCH	AJH162LNTCH AJH162LNTCH AJH162LNTCH
50	53	55	55	55	55	55	55	55	55	55	55	55
42.5-110.5	45-117	47.5-123.5	50-130	53-137.8	56.5-146.9	59-153.4	61.5-159.9	64-166.4	67.5-175.5	70-182	72.5-188.5	75-195

3-phase 4 wire, 400 V, 50Hz												
85.0	90.0	95.0	100.0	106.0	113.0	118.0	123.0	128.0	135.0	140.0	145.0	150.0
95.0	100.0	100.0	100.0	113.0	126.5	131.5	131.5	131.5	150.0	150.0	150.0	150.0
290000	307000	324100	341200	361600	385500	402500	419600	436700	460500	477600	494700	511800
324100	341200	341200	341200	385600	431600	448700	448700	448700	511800	511800	511800	511800
23.97	26.02	29.57	33.12	31.12	31.25	33.30	36.85	40.40	39.03	42.58	46.13	49.68
24.80	27.26	27.26	27.26	28.13	32.05	34.51	34.51	34.51	40.89	40.89	40.89	40.89
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
3.55	3.46	3.21	3.02	3.41	3.62	3.54	3.34	3.17	3.46	3.29	3.14	3.02
3.83	3.67	3.67	3.67	4.02	3.95	3.81	3.81	3.81	3.67	3.67	3.67	3.67
12.1	11.8	11.0	10.3	11.6	12.3	12.1	11.4	10.8	11.8	11.2	10.7	10.3
13.1	12.5	12.5	12.5	13.7	13.5	13.0	13.0	13.0	12.5	12.5	12.5	12.5
67.91	70.2	70.3	70.4	85.6	92.3	95.4	95.5	95.6	105.3	105.4	105.5	105.6
229000	239600	239900	240200	292100	315000	325600	325900	326200	359400	359700	360000	360300
22.52	23.64	24.17	24.70	30.75	31.72	32.83	33.37	33.90	35.45	35.99	36.52	37.05
-	-	-	-	-	-	-	-	-	-	-	-	-
2.98	2.97	2.91	2.85	2.78	2.91	2.91	2.86	2.82	2.97	2.93	2.89	2.85
10.17	10.14	9.93	9.72	9.50	9.93	9.92	9.77	9.62	10.14	10.00	9.86	9.72
-	-	-	-	-	-	-	-	-	-	-	-	-
13700+13000	13700+2	13700+2	13700+2	13700+11100+2	13700+13000+11100	13700+2+11100	13700+2+11100	13700+2+11100	13700+3	13700+3	13700+3	13700+3
64	65	66	66	65	65	66	66	66	67	67	67	68
66	67	67	67	66	67	68	68	68	69	69	69	69
82	82	82	82	82	82	82	82	82	82	82	82	82
11.0+2	11.0+2	11.0+2	11.0+2	11.0+7.5+2	11.0+2+7.5	11.0+2+7.5	11.0+2+7.5	11.0+2+7.5	11.0+3	11.0+3	11.0+3	11.0+3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690	1690
1240+2	1240+2	1240+2	1240+2	1240+930+2	1240+2+930	1240+2+930	1240+2+930	1240+2+930	1240+3	1240+3	1240+3	1240+3
765	765	765	765	765	765	765	765	765	765	765	765	765
279+2	279+2	279+2	279+2	279+255+2	279+2+255	279+2+255	279+2+255	279+2+255	279+3	279+3	279+3	279+3
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
11.8+2	11.8+2	11.8+2	11.8+2	11.8+11.7+2	11.8+2+11.7	11.8+2+11.7	11.8+2+11.7	11.8+2+11.7	11.8+3	11.8+3	11.8+3	11.8+3
19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

34	36	38	40	42	44	46
306,000	324,000	342,000	360,000	378,000	396,000	414,000
25.5	27.0	28.5	30.0	31.5	33.0	34.5
AJH306LNTCHH	AJH324LNTCHH	AJH342LNTCHH	AJH360LNTCHH	AJH378LNTCHH	AJH396LNTCHH	AJH414LNTCHH
AJH126LNTCH AJH108LNTCH AJH072LNTCH	AJH108LNTCH AJH108LNTCH AJH108LNTCH	AJH126LNTCH AJH108LNTCH AJH108LNTCH	AJH126LNTCH AJH126LNTCH AJH108LNTCH	AJH126LNTCH AJH126LNTCH AJH126LNTCH	AJH144LNTCH AJH126LNTCH AJH126LNTCH	AJH144LNTCH AJH144LNTCH AJH144LNTCH
55	55	55	55	55	55	55
48-124.6	50.3-130.6	53.5-139.1	56.8-147.5	60-156	62.5-162.5	65-169

3-phase 4 wire, 400 V, 50Hz						
95.9	100.5	107.0	113.5	120.0	125.0	130.0
107.5	112.5	120.0	127.5	135.0	140.0	145.0
327200	342900	365100	387300	409500	426500	443500
366800	384000	409500	435000	460500	477600	494700
25.12	26.88	28.88	30.88	32.88	34.93	36.98
24.99	25.95	28.47	30.99	33.51	35.97	38.43
-	-	-	-	-	-	-
-	-	-	-	-	-	-
3.82	3.74	3.70	3.68	3.65	3.58	3.52
4.30	4.34	4.21	4.11	4.03	3.89	3.77
13.0	12.8	12.6	12.5	12.5	12.2	12.0
14.7	14.8	14.4	14.0	13.7	13.3	12.9
80.7	85.5	89.0	92.5	96.0	99.1	102.2
275300	291600	303600	315600	327600	338200	348800
26.78	28.03	29.39	30.75	32.11	33.22	34.34
-	-	-	-	-	-	-
3.01	3.05	3.03	3.01	2.99	2.98	2.98
10.28	10.40	10.33	10.26	10.20	10.18	10.16
-	-	-	-	-	-	-
13000+2+11100	13000+3	13000+3	13000+3	13000+3	13700+13000+2	13700+2+13000
62	63	63	64	65	66	66
65	65	66	66	67	68	68
82	82	82	82	82	82	82
11.0+2+7.5	11.0+3	11.0+3	11.0+3	11.0+3	11.0+3	11.0+3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1690	1690	1690	1690	1690	1690	1690
1240+2+930	1240+3	1240+3	1240+3	1240+3	1240+3	1240+3
765	765	765	765	765	765	765
279+2+255	279+3	279+3	279+3	279+3	279+3	279+3
R410A	R410A	R410A	R410A	R410A	R410A	R410A
11.8+2+11.7	11.8+3	11.8+3	11.8+3	11.8+3	11.8+3	11.8+3
19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note: Specifications are based on the following conditions.

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

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

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

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

A photograph of a white AIRSTAGE indoor unit mounted on a light-colored tiled ceiling. The unit features a large rectangular air filter grille and a control panel with several buttons. A green vertical bar is visible on the right side of the image.

AIRSTAGE™ INDOOR UNITS

14 Type and 124 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

Compact Cassette

4-way Flow Cassette

Circular Flow Cassette

Mini Duct

Slim Duct / Slim Concealed Floor

Medium Static Pressure Duct

High Static Pressure Duct

Large Airflow Duct

Floor / Ceiling

Ceiling














































Wall Mounted (EEV Internal / external)



































AIRSTAGETM

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.
14 types, 124 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
		kW	2.2	2.8	3.6	4.5	5.6
Cassette	Compact Cassette		 AUXB07GALH AUXB07GATH	 AUXB09GALH AUXB09GATH	 AUXB12GALH AUXB12GATH	 AUXB14GALH AUXB14GATH	 AUXB18GALH AUXB18GATH
	4-way Flow	(Slim type)					 AUXD18GALH
		(Large type)					 AUXA18GALH
	NEW Circular Flow	(Slim type)					 AUXM018GTAH
		(Large type)					 AUXK018GTAH
Duct	Mini Duct (With drain pump)		 ARXK07GCLH	 ARXK09GCLH	 ARXK12GCLH	 ARXK14GCLH	 ARXK18GCLH
	Mini Duct (Without drain pump)		 ARXK07GALH	 ARXK09GALH	 ARXK12GALH	 ARXK14GALH	 ARXK18GALH
	Slim Duct (With drain pump)		 ARXD07GALH ARXD07GATH	 ARXD09GALH ARXD09GATH	 ARXD12GALH ARXD12GATH	 ARXD14GALH ARXD14GATH	 ARXD18GALH ARXD18GATH
	Medium Static Pressure Duct						
	High Static Pressure Duct						
	Large Airflow Duct						 ARXN18GATH*2
Floor	Floor (Same as Ceiling models)				 ABHA12GATH	 ABHA14GATH	 ABHA18GATH
	Slim Concealed Floor (Same as Slim Duct models)		 ARXD07GALH ARXD07GATH	 ARXD09GALH ARXD09GATH	 ARXD12GALH ARXD12GATH	 ARXD14GALH ARXD14GATH	 ARXD18GALH ARXD18GATH
Ceiling	Ceiling				 ABHA12GATH	 ABHA14GATH	 ABHA18GATH
Wall Mounted	Wall Mounted		 ASHA07GACH ASHA07GATH	 ASHA09GACH ASHA09GATH	 ASHA12GACH ASHA12GATH	 ASHA14GACH ASHA14GATH	 ASHA18GACH ASHA18GATH
	Wall Mounted (EEV external)		 ASHE07GACH	 ASHE09GACH	 ASHE12GACH	 ASHE14GACH	With this model, connection of EV kit is necessary.

	24,000	30,000	34,000	36,000	45,000	54,000	60,000	72,000	90,000	96,000
	7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0	28.0
 AUXB24GALH AUXB24GATH										
 AUXD24GALH										
 AUXA24GALH	 AUXA30GALH	 AUXA34GALH	 AUXA36GALH	 AUXA45GALH	 AUXA54GALH					
 AUXM024GTAH										
 AUXK024GTAH	 AUXK030GTAH	 AUXK034GTAH	 AUXK036GTAH	 AUXK045GTAH	 AUXK054GTAH					
 ARXK24GCLH										
 ARXK24GALH										
 ARXD24GALH ARXD24GATH										
 ARXA24GBLH ARXA24GBTH	 ARXA30GBLH ARXA30GBTH		 ARXA36GBLH ARXA36GBTH	 ARXA45GBLH ARXA45GBTH						
			 ARXC36GBTH					 ARXC72GBTH*1	 ARXC90GBTH*1	 ARXC96GATH*1
				 ARXC45GATH		 ARXC60GATH*1	 ARXC72GATH*1	 ARXC90GATH*1		
 ARXN24GATH*2	 ARXN30GATH*2	 ARXN34GATH*2	 ARXN36GATH*2	 ARXN45GATH*2						
 ABHA24GATH										
 ARXD24GALH ARXD24GATH										
 ABHA24GATH	 ABHA30GATH		 ABHA36GATH	 ABHA45GATH	 ABHA54GATH					
 ASHA24GACH ASHA24GATH	 ASHA30GACH ASHA30GATH									

*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.

Compact Cassette

Models

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

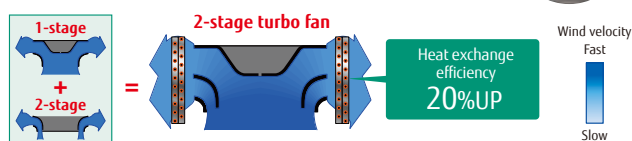


Feature

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.

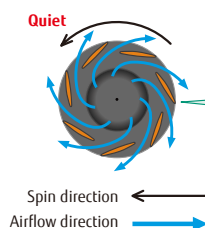


Quiet quality

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

Designed by CFD-analysis (fluid) simulations

Adoption of laminar wing

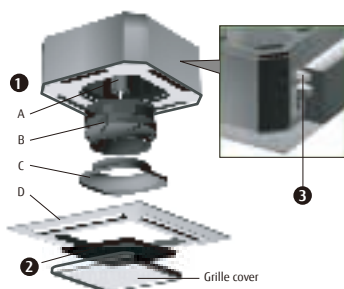


Laminar wing

Airflow runs through smoothly along the laminar wing



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

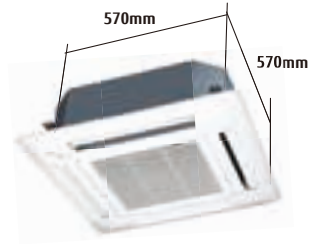
The compact cassette can be installed up to a height of 3.0m (12/14/18/24).

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

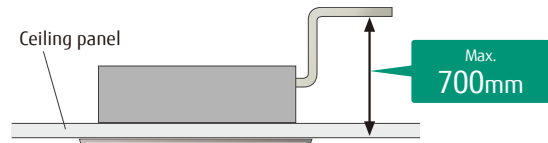


Compact design

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



High lift drain pump



Optional parts

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

Specifications

Model name			AUXB07GALH AUXB07GATH	AUXB09GALH AUXB09GATH	AUXB12GALH AUXB12GATH	AUXB14GALH AUXB14GATH	AUXB18GALH AUXB18GATH	AUXB24GALH AUXB24GATH
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	4.1	5.0	6.3	8.0
Input power		W	25	25	29	35	36	84
Airflow rate	High	m ³ /h (l/s)	540 (150)	550 (153)	600 (167)	680 (189)	710 (197)	1,030 (286)
	Med	m ³ /h (l/s)	450 (125)	450 (125)	530 (147)	590 (164)	580 (161)	830 (231)
	Low	m ³ /h (l/s)	350 (97)	350 (97)	390 (108)	390 (108)	400 (111)	450 (125)
Sound pressure level	High	dB (A)	34	35	37	38	41	50
	Med	dB (A)	30	30	34	34	35	44
	Low	dB (A)	25	25	27	27	27	30
Dimensions (H × W × D)		mm	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570
Weight		kg(lbs)	15 (33)	15 (33)	15 (33)	15 (33)	17 (37)	17 (37)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	9.52	9.52
	Gas (Flare)	mm	12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32					
Cassette Grille		Model name	UTG-UFGC-W					
		Dimensions (H×W×D)	50 × 700 × 700					
		Weight	2.6 (6)					

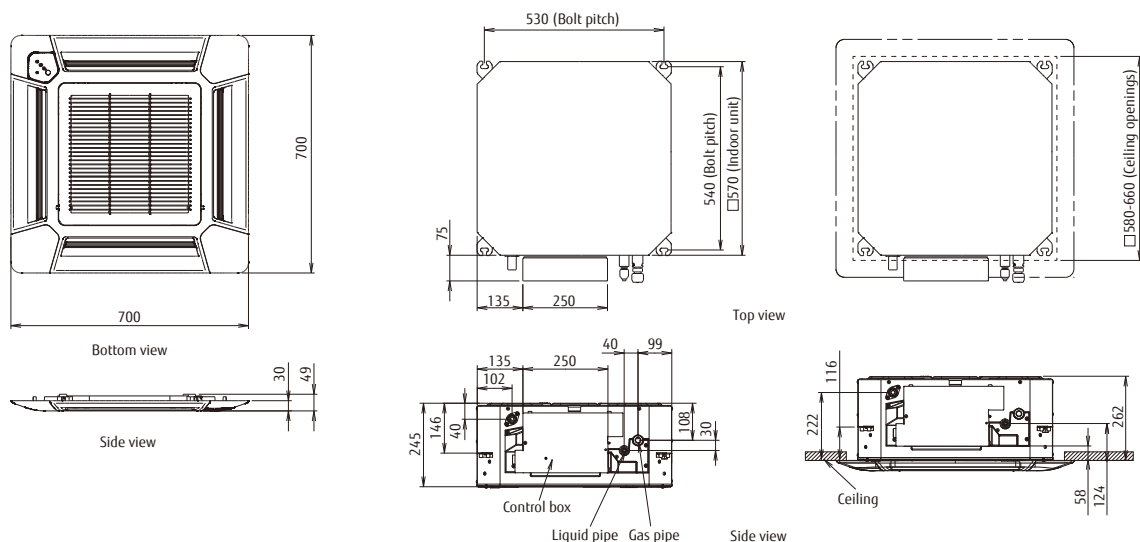
Note : Specifications are based on the following conditions.

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

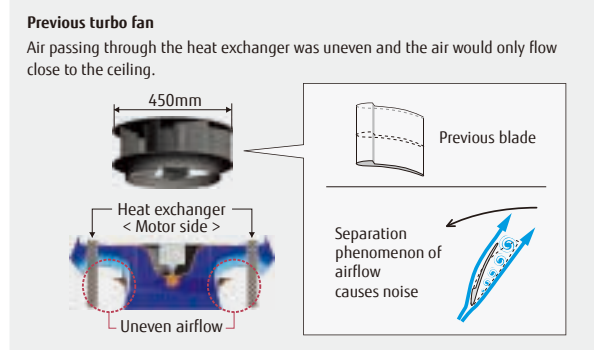
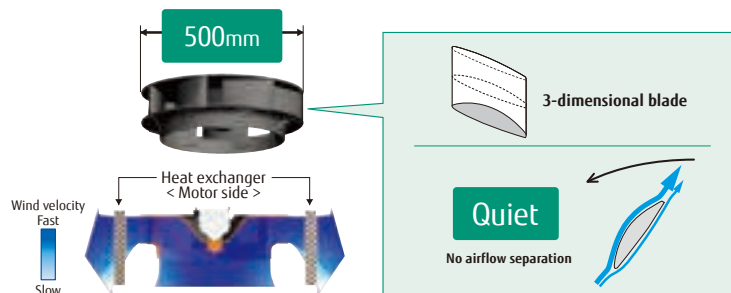
AUXD24GALH



Feature

High efficiency turbo fan with 3-dimensional blade

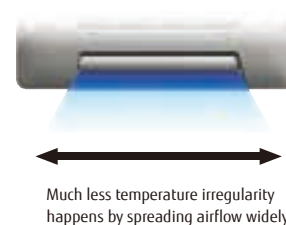
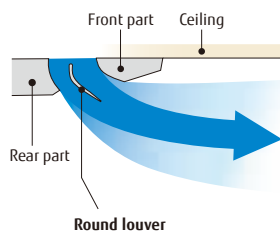
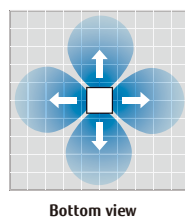
High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.



← : Spin direction → : Airflow direction ••••• : Turbulent flow noise

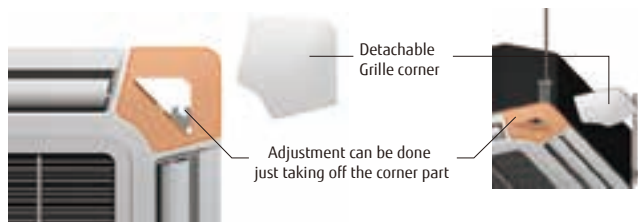
Improvement of the airflow distribution

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



Much less temperature irregularity happens by spreading airflow widely

Adjustment of hanger position is possible after installation

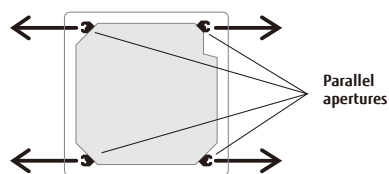


High ceiling mode

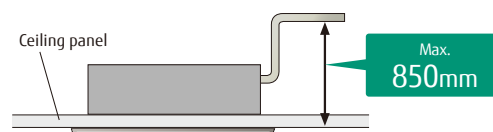
This cassette can be installed up to a height of 3.5m.

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	AUXD24GALH
Power source			Single - phase, 220-240V, 50Hz	
Capacity	Cooling	kW	5.6	7.1
	Heating		6.3	8.0
Input power		W	39	46
Airflow rate	High	m ³ /h (l/s)	1,150 (319)	1,280 (356)
	Med		940 (261)	1,040 (289)
	Low		870 (242)	870 (242)
Sound pressure level	High	dB (A)	36	38
	Med		30	33
	Low		29	29
Dimensions (H × W × D)		mm	246 × 840 × 840	246 × 840 × 840
Weight		kg(lbs)	22 (48)	22 (48)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52
	Gas (Flare)		15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32	
Cassette Grille			UTG-UGGA-W	
Dimensions (H×W×D)		mm	50 × 950 × 950	
Weight		kg(lbs)	5.5 (12)	

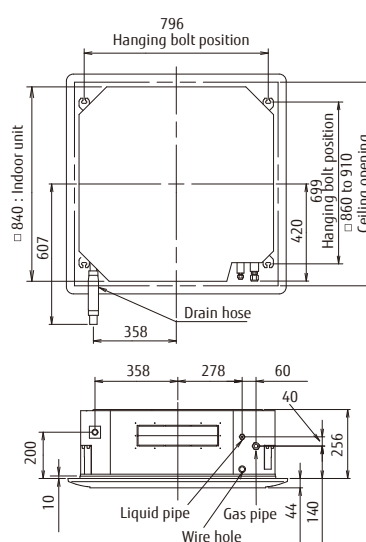
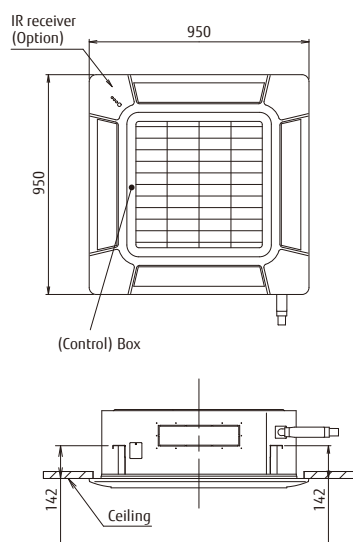
Note : Specifications are based on the following conditions.

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

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

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

Dimensions (Unit : mm)



4-way Flow Cassette (Large type)

Models

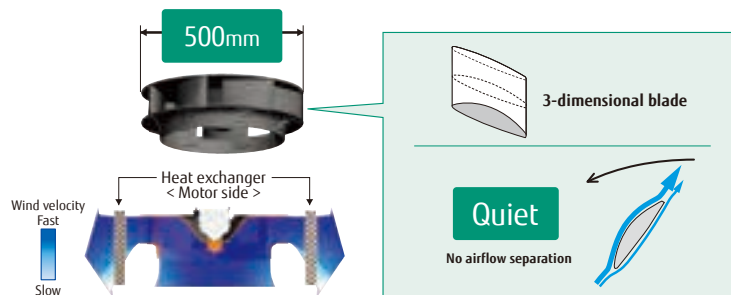
AUXA18GALH
AUXA24GALH
AUXA30GALH
AUXA34GALH
AUXA36GALH
AUXA45GALH
AUXA54GALH



Feature

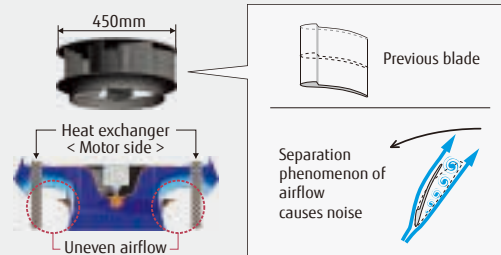
High efficiency turbo fan with 3-dimensional blade

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



Previous turbo fan

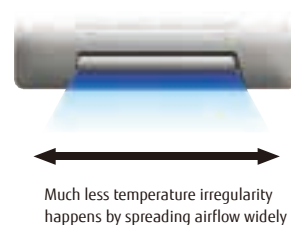
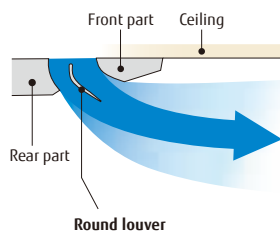
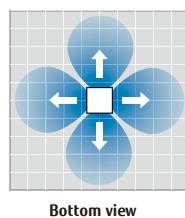
Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.



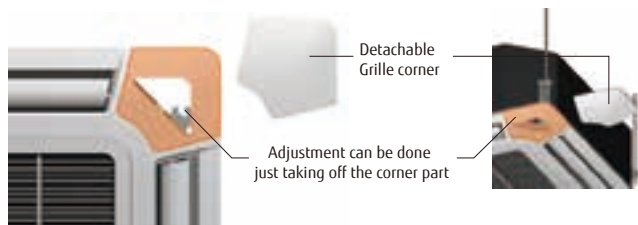
← : Spin direction → : Airflow direction ••••• : Turbulent flow noise

Improvement of the airflow distribution

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



Adjustment of hanger position is possible after installation

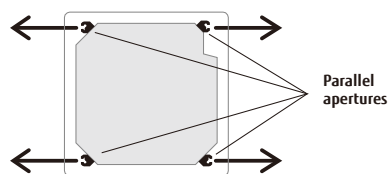


High ceiling mode

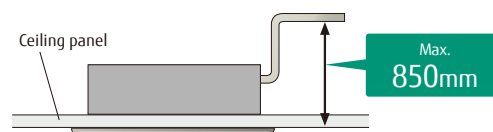
This cassette can be installed up to a height of 4.2m (36/45/54).

Model code	The maximum height from floor to ceiling (m)	
	Standard mode	High ceiling mode
18	3.0	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	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH
Power source			Single - phase, 220-240V, 50Hz						
Capacity	Cooling	kW	5.6	7.1	9.0	10.0	11.2	12.5	14.0
	Heating		6.3	8.0	10.0	11.2	12.5	14.0	16.0
Input power		W	51	51	59	77	80	99	119
Airflow rate	High	m³/h (l/s)	1,420 (394)	1,420 (394)	1,600 (444)	1,750 (486)	1,800 (500)	1,900 (528)	2,000 (556)
	Med		1,230 (342)	1,230 (342)	1,300 (361)	1,300 (361)	1,300 (361)	1,370 (381)	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)	1,100 (306)
Sound pressure level	High	dB (A)	40	40	40	43	44	46	47
	Med		36	36	38	38	38	39	39
	Low		33/31*1	33/31*1	33	33	33	33	33
Dimensions (H × W × D)		mm	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840
Weight		kg(lbs)	27 (59)	27 (59)	27 (59)	27 (59)	27 (59)	27 (59)	27 (59)
Connection pipe diameter	Liquid (Flare)	mm	9.52	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	19.05
Drain hose diameter (I.D./O.D.)			25 / 32						
Cassette Grille	Model name		UTG-UGGA-W						
	Dimensions (H×W×D)	mm	50 × 950 × 950						
	Weight	kg(lbs)	5.5 (12)						

Note : Specifications are based on the following conditions.

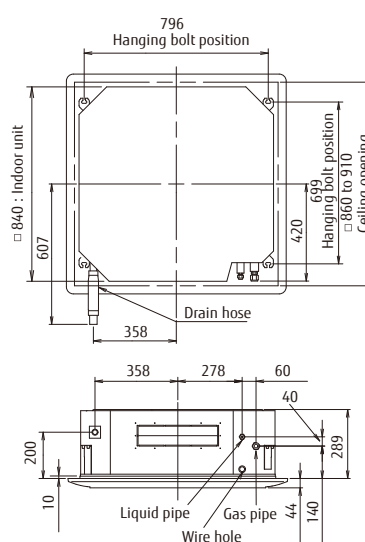
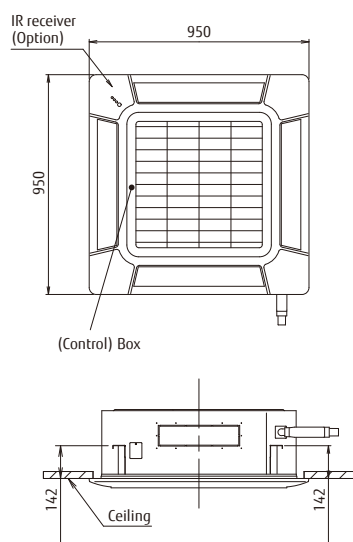
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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

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

*1: This value is under cooling operation.

Dimensions (Unit : mm)



Circular Flow Cassette

Models (Slim type)

AUXM018GTAH **NEW**

AUXM024GTAH **NEW**



Models (Large type)

AUXK018GTAH **NEW**

AUXK024GTAH **NEW**

AUXK030GTAH **NEW**

AUXK034GTAH **NEW**

AUXK036GTAH **NEW**

AUXK045GTAH **NEW**

AUXK054GTAH **NEW**



Feature

Unique Circular Flow design

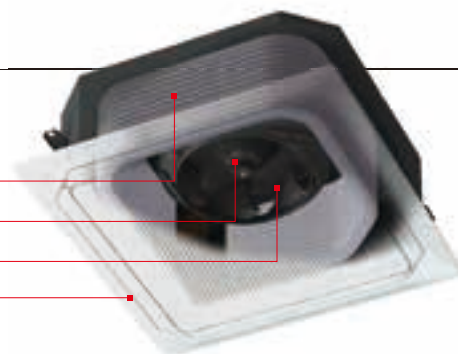
New Cassette type realizes Circular Flow to blow large airflow in 360° direction by mounting high performance DC fan motor, new turbo fan and unique seamless airflow louver design.

Ø7mm high density heat exchanger

New DC fan motor

High efficient turbo fan

Seamless airflow louver



Uniform temperature air conditioning

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



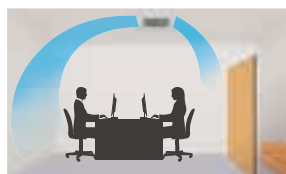
Individual louver control

Each louver can be set individually by Touch Panel Wired Remote Controller to enjoy the comfort of different directional airflows according to various room layouts.

* Touch Panel Wired RC (UTY-RNRGZ2) only



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



Efficient air conditioning based on the room layout

Human sensor increases more energy saving

Energy saving operation starts automatically by detecting the motion of a person. 2 modes of save operation mode and stop mode can be selected.

*Touch Panel Wired RC (UTY-RNRGZ2) only



Human sensor (Option)

2 modes can be selected

Auto saving

Power is saved while people are away.

Auto OFF

Operation stops after people go out.

Optional parts

Human Sensor Kit:

Wide Panel:

Panel Spacer:

Air Outlet Shutter Plate:

Insulation Kit for High Humidity:

Cassette Grille:

IR Receiver Unit:

UTY-SHZXC

UTG-AKXA-W

UTG-BKXA-W

UTR-YDZK

UTZ-KXRA

UTG-UKGD-W, UTG-UKGA-B

UTY-LBHDX



Specifications

Model name			AUXM018 GTAH	AUXM024 GTAH	AUXK018 GTAH	AUXK024 GTAH	AUXK030 GTAH	AUXK034 GTAH	AUXK036 GTAH	AUXK045 GTAH	AUXK054 GTAH	
Power source			Single - phase, 220-240V, 50Hz									
Capacity	Cooling	kW	5.6	7.1	5.6	7.1	9.0	10.0	11.2	12.5	14.0	
	Heating		6.3	8.0	6.3	8.0	10.0	11.2	12.5	14.0	16.0	
Input power		W	20	25	40	40	47	47	61	89	116	
Airflow rate	High	m³/h	1,050	1,120	1,420	1,420	1,440	1,440	1,620	1,820	2,040	
	Med-Hi		930	1,050	1,360	1,360	1,440	1,440	1,500	1,590	1,800	
	Med		900	930	1,300	1,300	1,340	1,340	1,400	1,500	1,590	
	Lo-Hi		870	900	1,270	1,270	1,300	1,300	1,340	1,400	1,440	
	Low		810	870	1,200	1,200	1,280	1,280	1,280	1,300	1,300	
	Quiet		780	780	1,150	1,150	1,150	1,150	1,150	1,150	1,150	
Sound pressure level	High	dB (A)	33	35	38	38	39	39	41	44	47	
	Med-Hi		32	33	37	37	38	38	40	42	45	
	Med		31	32	36	36	37	37	38	40	42	
	Lo-Hi		30	31	35	35	36	36	37	38	39	
	Low		29	30	34	34	35	35	36	36	36	
Quiet		28	28	33	33	33	33	33	33	33		
Dimensions (H × W × D)		mm	246×840×840	246×840×840	288×840×840	288×840×840	288×840×840	288×840×840	288×840×840	288×840×840	288×840×840	
Weight		kg	24.0	24.5	26.5	26.5	29.5	29.5	29.5	29.5	29.5	
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52	6.35	9.52	9.52	9.52	9.52	9.52	9.52	
	Gas (Flare)		12.70	15.88	12.70	15.88	15.88	15.88	15.88	15.88	15.88	
Drain hose diameter (I.D./O.D.)			25 / 32									
Cassette Grille	Model name		UTG-UKGD-W/UTG-UKGA-B									
	Dimensions (H×W×D)		mm									
	Weight		kg									
			6.0									

Note : Specifications are based on the following conditions.

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

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

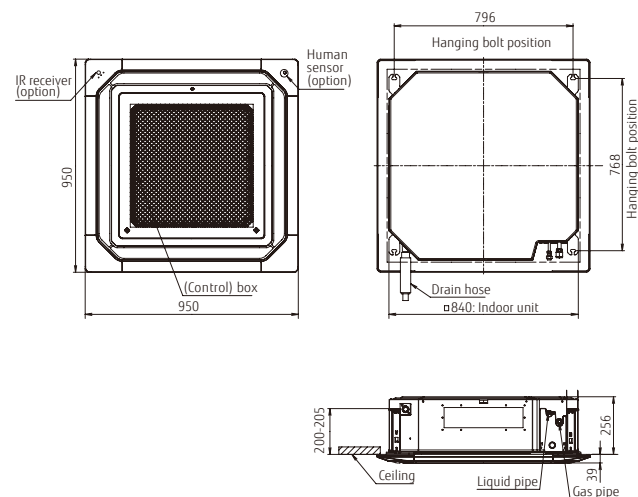
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

When AUX*018GTAH is connected to the outdoor unit other than J-III, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas)

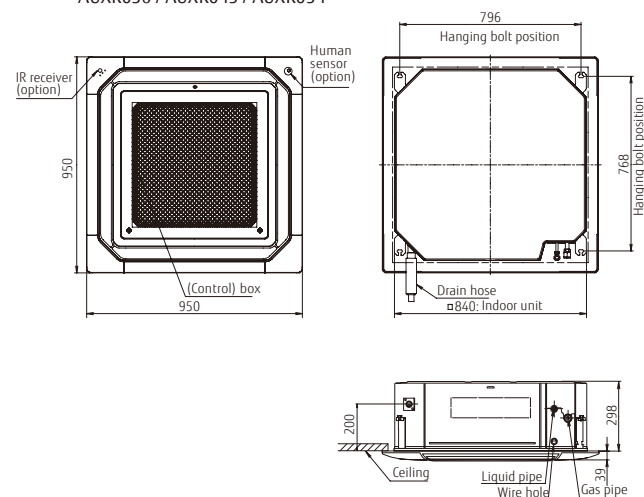
When AUXK036GTAH, AUXK045GLAH, and AUXK054GLAH are connected to the outdoor unit other than J-III, gas pipe diameter should be Ø19.05.

Dimensions (Unit: mm)

Models: AUXM018 / AUXM024



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



Mini Duct

Models (With drain pump)

ARXK07GCLH
ARXK09GCLH
ARXK12GCLH
ARXK14GCLH
ARXK18GCLH
ARXK24GCLH



Models (Without drain pump)

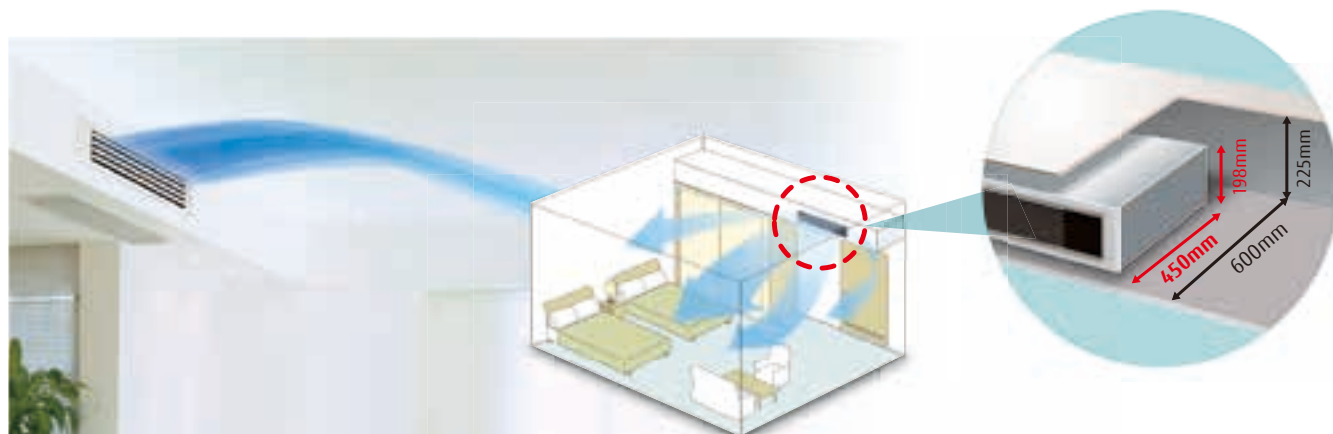
ARXK07GALH
ARXK09GALH
ARXK12GALH
ARXK14GALH
ARXK18GALH
ARXK24GALH



Feature

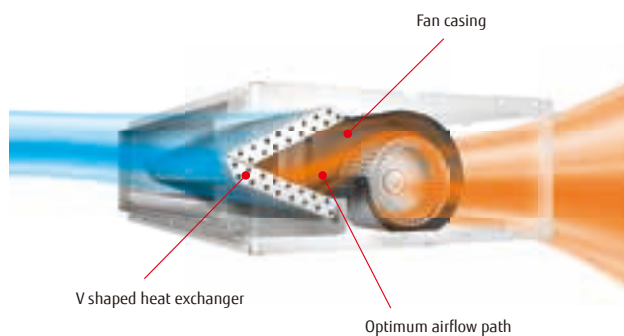
Optimum design in harmony with interior decoration

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

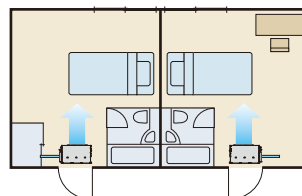
Models with drain pump: Drainage to the distant drain port is possible.
Models without drain pump: Both sides drainage is possible.

Models with drain pump



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

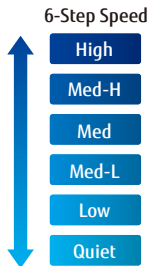
Models without drain pump



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 07/09models



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

Optional parts

Remote Sensor Unit : UTY-XSZX

IR Receiver Unit : UTB-YWC

Auto Louver Grille Kit : UTD-GXTA-W (for ARXK07/09/12/14GCLH
ARXK07/09/12/14GALH)

UTD-GXTB-W (for ARXK18GCLH, ARXK18GALH)

UTD-GXTC-W (for ARXK24GCLH, ARXK24GALH)

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		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	m ³ /h (l/s)	460 (128)	460 (128)	550 (153)	760 (211)	930 (258)	1,160 (322)
	Med-H		440 (122)	440 (122)	520 (144)	660 (183)	840 (233)	1,060 (294)
	Med		420 (117)	420 (117)	480 (133)	560 (156)	740 (206)	960 (267)
	Med-L		400 (111)	400 (111)	450 (125)	490 (136)	640 (178)	860 (239)
	Low		370 (103)	370 (103)	410 (114)	410 (114)	540 (150)	750 (208)
	Quiet		340 (94)	340 (94)	340 (94)	340 (94)	470 (131)	610 (169)
Static pressure range		Pa	0 to 30	0 to 30	0 to 30	0 to 50	0 to 50	0 to 50
Standard static pressure			10	10	10	15	15	15
Sound pressure level	High	dB (A)	26	26	29	34	33	32
	Med-H		25	25	27	31	30	30
	Med		24	24	26	28	28	28
	Med-L		23	23	25	26	26	27
	Low		22	22	24	24	24	25
	Quiet		21	21	22	22	22	22
Dimensions (H × W × D)		mm	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 900 × 450	198 × 1,100 × 450
Weight	GCLH / GALH	kg(lbs)	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)	mm	6.35	6.35	6.35	6.35	9.52	9.52
	Gas (Flare)		12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32					

Note : Specifications are based on the following conditions.

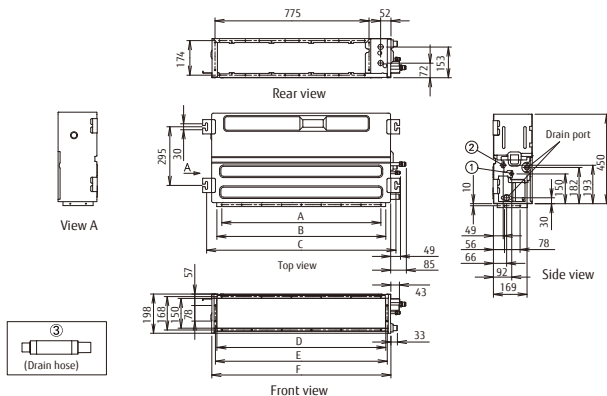
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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)

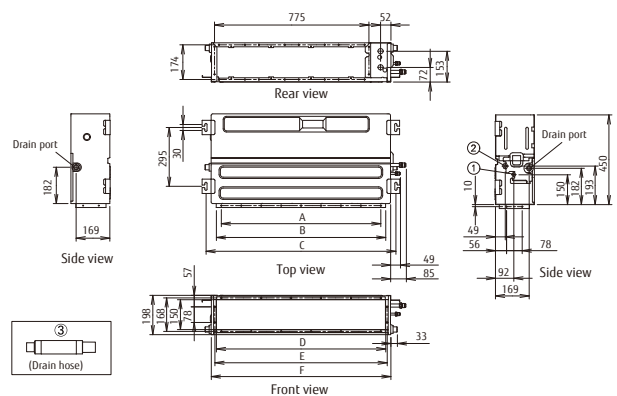
Models: ARXK07GCLH / ARXK09GCLH / ARXK12GCLH / ARXK14GCLH /
ARXK18GCLH / ARXK24GCLH



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

	ARXK07-14	ARXK18	ARXK24
A	P100-φ=600	P100-φ=800	P100-φ=1,000
B	650	850	1,050
C	752	952	1,152
D	650	850	1,050
E	665	864	1,064
F	700	900	1,100

Models: ARXK07GALH / ARXK09GALH / ARXK12GALH / ARXK14GALH /
ARXK18GALH / ARXK24GALH



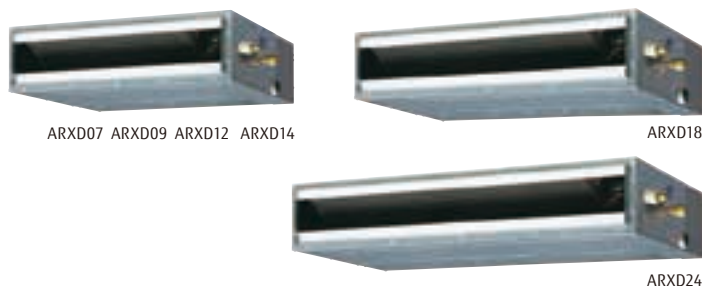
- ① Refrigerant pipe flare connection (Liquid)
- ② Refrigerant pipe flare connection (Gas)
- ③ Drain hose connection

	ARXK07-14	ARXK18	ARXK24
A	P100-φ=600	P100-φ=800	P100-φ=1,000
B	650	850	1,050
C	752	952	1,152
D	650	850	1,050
E	665	864	1,064
F	700	900	1,100

Slim Duct / Slim Concealed Floor

Models (With drain pump)

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



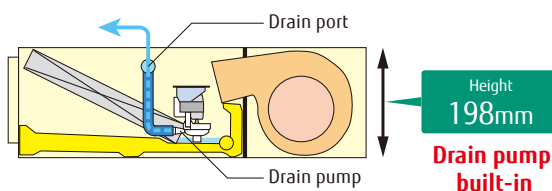
Slim Concealed Floor



Feature

Slim design

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



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.

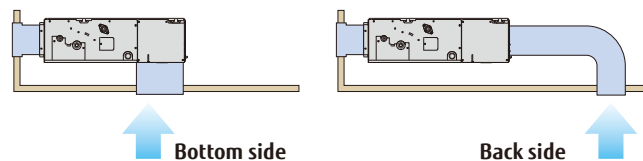


Static pressure range
0 to 90 Pa

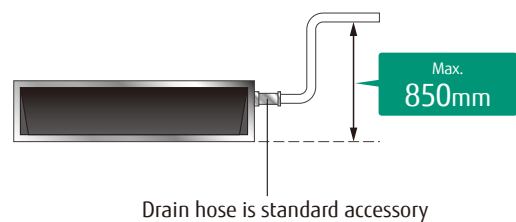
*24 model is 0 to 50Pa

Air-intake

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



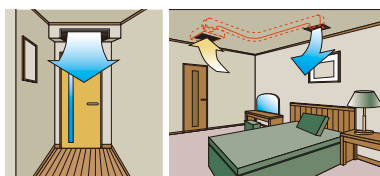
High lift drain pump



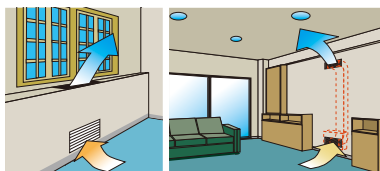
Drain hose is standard accessory

Flexible installation

Ceiling concealed

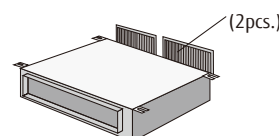


Floor concealed

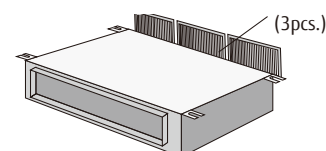


Filter (Accessory)

ARXD07 / 09 / 12 / 14 / 18

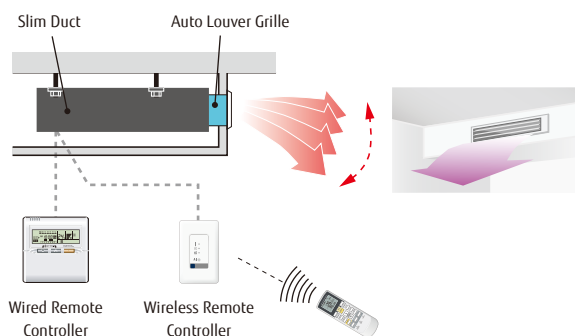


ARXD24



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	kW	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	44	50	54	92	83	122
Airflow rate	High	m³/h (l/s)	550 (153)	600 (167)	600 (167)	800 (222)	940 (261)	1,330 (369)
	Med		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	dB (A)	28	29	30	34	34	35
	Med		25	26	27	32	32	32
	Low		22	24	24	28	28	29
Dimensions (H × W × D)		mm	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 900 × 620	198 × 1,100 × 620
Weight		kg(lbs)	17 (37)	17 (37)	18 (40)	18 (40)	22 (48)	26 (57)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	9.52	9.52
	Gas (Flare)		12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32					

Note : Specifications are based on the following conditions.

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

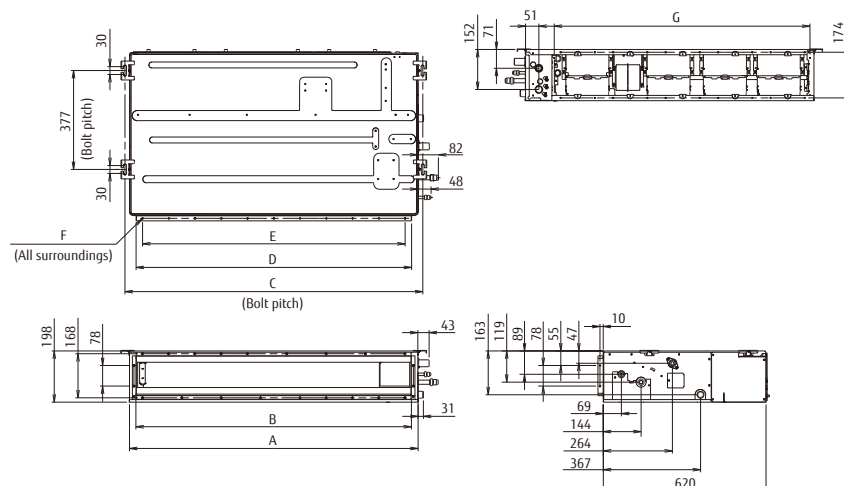
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

Dimensions (Unit: mm)

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

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



	ARXD07-14	ARXD18	ARXD24
A	700	900	1,100
B	650	850	1,050
C	734	934	1,134
D	650	850	1,050
E	P100x6=600	P100x8=800	P100x10=1,000
F	18xØ5	22xØ5	26xØ5
G	574	774	974

Medium Static Pressure Duct

Models

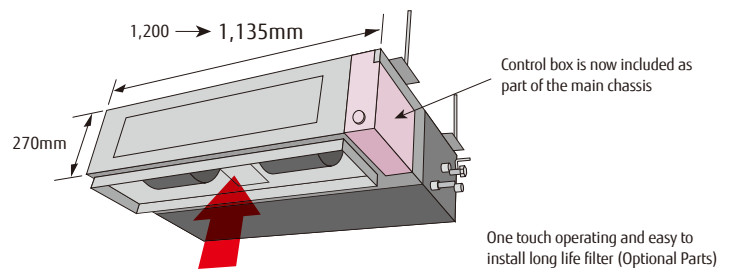
ARXA24GBLH	ARXA24GBTH
ARXA30GBLH	ARXA30GBTH
ARXA36GBLH	ARXA36GBTH
ARXA45GBLH	ARXA45GBTH



Feature

Slim & Compact design

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



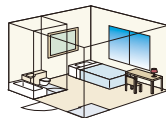
Selectable with a wide range of static pressure

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.

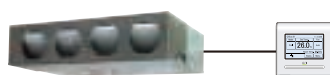


It can also be installed in wide spade when high static pressure is required, such as for offices.



Easy setting by using remote controller

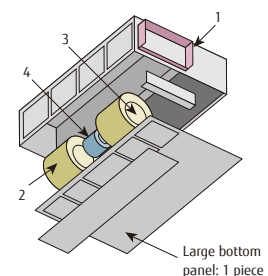
The change of static pressure range is possible by remote controller



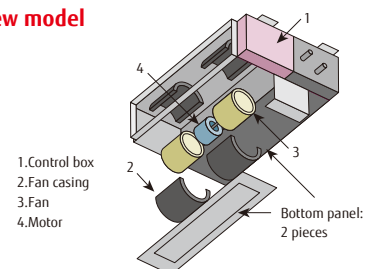
Easy maintenance

See below for the case of rear suction type

Previous model

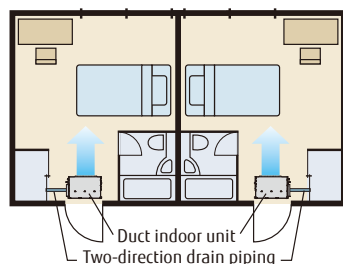


New model



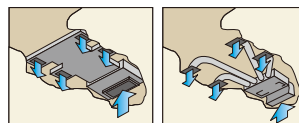
Structural improvement is attained by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while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

Two-direction drain piping

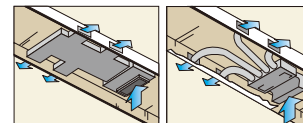


Installation styles

Embedded in Ceiling



Hanging from Ceiling



Optional parts

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

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

Specifications

Model name			ARXA24GBLH ARXA24GBTH	ARXA30GBLH ARXA30GBTH	ARXA36GBLH ARXA36GBTH	ARXA45GBLH ARXA45GBTH
Power source			Single - phase, 220-240V, 50Hz			
Capacity	Cooling	kW	7.1	9.0	11.2	12.5
	Heating	kW	8.0	10.0	12.5	14.0
Input power		W	190	188	312	312
Airflow rate	High	m ³ /h (l/s)	1,280 (356)	1,280 (356)	1,720 (478)	1,720 (478)
	Med	m ³ /h (l/s)	1,210 (336)	1,210 (336)	1,670 (464)	1,670 (464)
	Low	m ³ /h (l/s)	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		Pa	100	100	100	100
Sound pressure level	High	dB (A)	38	40	43	43
	Med	dB (A)	36	38	41	41
	Low	dB (A)	34	36	39	39
Dimensions (H × W × D)		mm	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700
Weight		kg(lbs)	39 (86)	42 (93)	42 (93)	42 (93)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
	Gas (Flare)	mm	15.88	15.88	19.05	19.05
Drain hose diameter (I.D./O.D.)			25 / 32			

Note : Specifications are based on the following conditions.

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

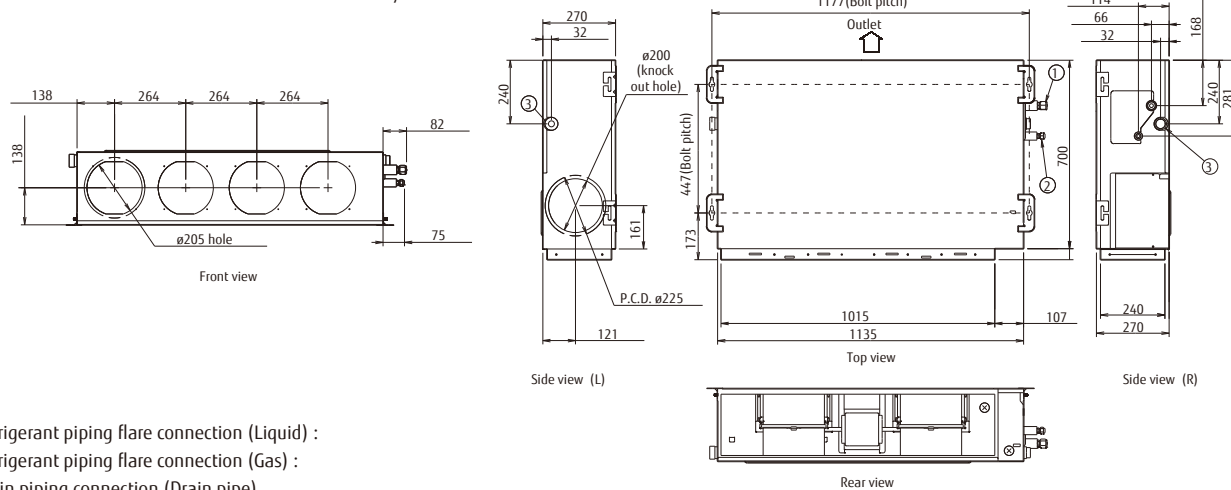
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

Dimensions (Unit: mm)

*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



Models

ARXC72GBTH
ARXC90GBTH



Models

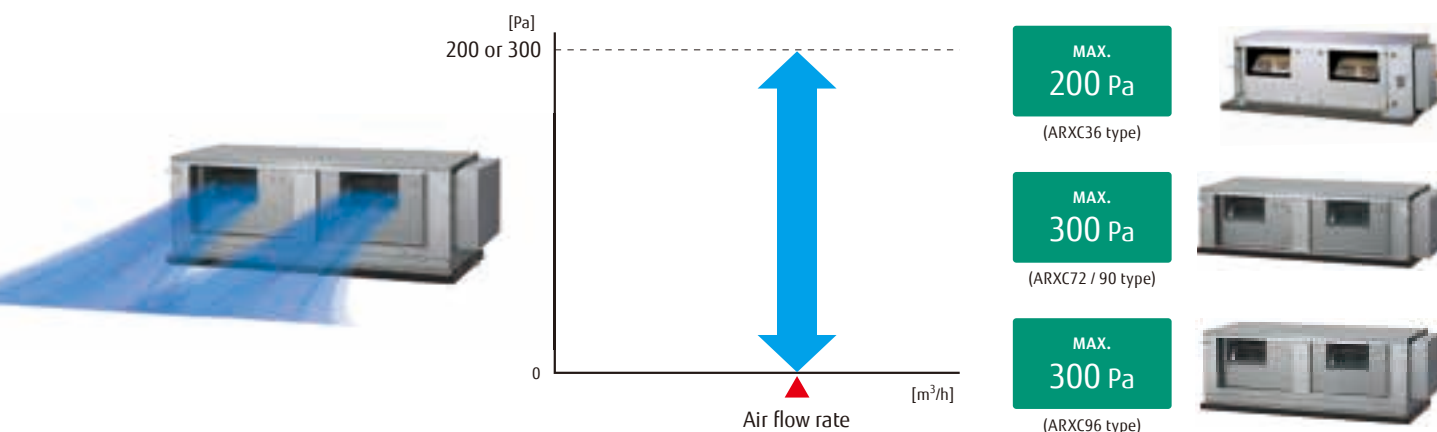
ARXC96GATH



Feature

Static pressure selection

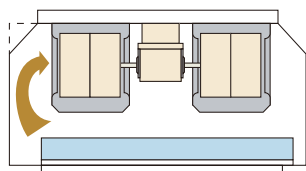
By using DC fan motor, it is possible to change static pressure range from 0 to 200Pa (ARXC36) / 300Pa (ARXC72 / 90 / 96).



Low noise

Models : ARXC36

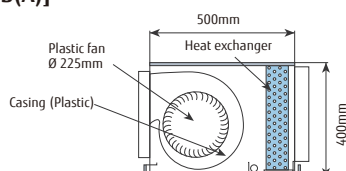
Cutting off the corners of the conventional indoor unit front panel and fan casing, has enabled less turbulent air flow. Low noise is realized by adopting a plastic case and a plastic fan.



New model
(ARXC36GBTH)

ARXC36GBTH : Plastic fan [42dB(A)]

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



Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.



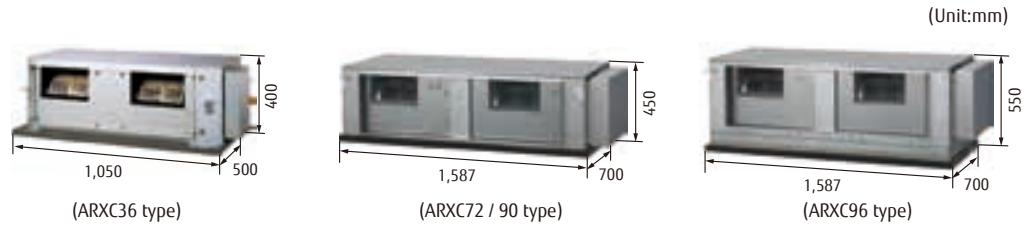
(ARXC36 type)



(ARXC72 / 90 / 96 type)

Easy installation (Compact size & Lightweight)

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



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			
Capacity	Cooling	kW	11.2	22.4	25.0	28.0
	Heating		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		1,680 (467)	3,300 (917)	4,000 (1,111)	4,250 (1,181)
	Low		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			100	150	150	150
Sound pressure level	High	dB (A)	42	47	48	48
	Med		36	43	46	45
	Low		32	40	44	42
Dimensions (H × W × D)		mm	400 × 1,050 × 500	450 × 1,587 × 700	450 × 1,587 × 700	550 × 1,587 × 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		19.05 (Flare)	22.22 (Brazing)	22.22 (Brazing)	22.22 (Brazing)
Drain hose diameter (I.D./O.D.)		25 / 32				

Note : Specifications are based on the following conditions.

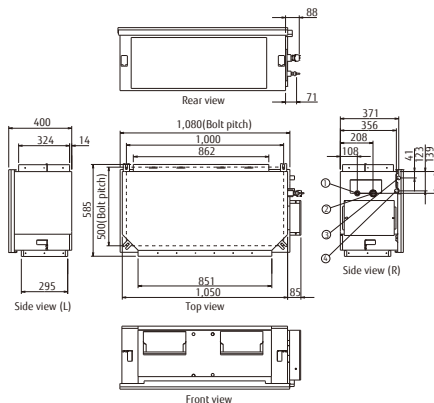
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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

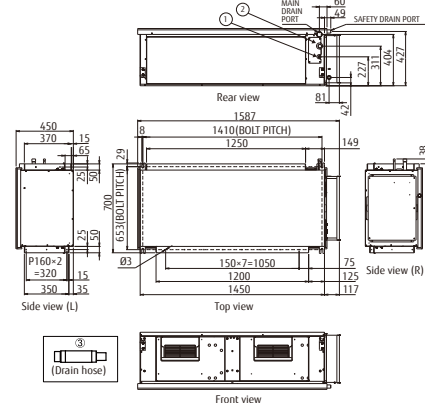
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Dimensions (Unit: mm)

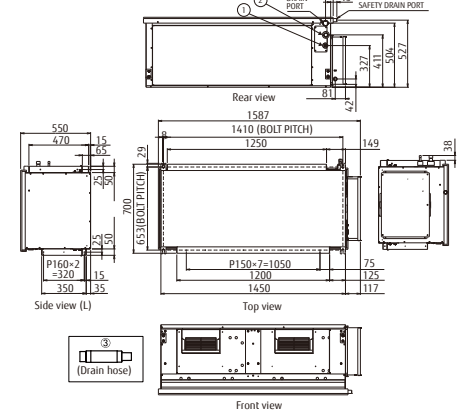
Models: ARXC36



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



Models

ARXC72GATH

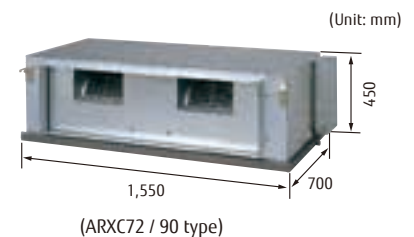
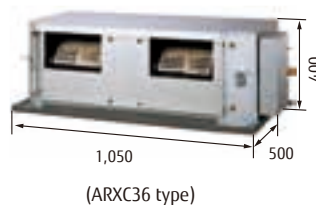
ARXC90GATH



Feature

Easy installation (Compact size & Lightweight)

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



Static pressure selection

Models : ARXC72 / ARXC90

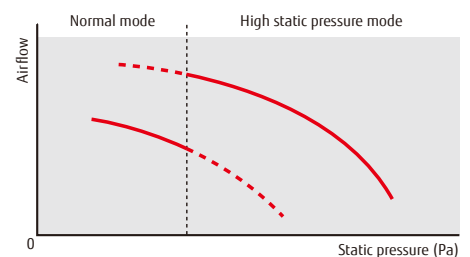
2 Types of static pressure mode are selectable.

MAX.
300 Pa



High Static Pressure Duct (ARXC72)

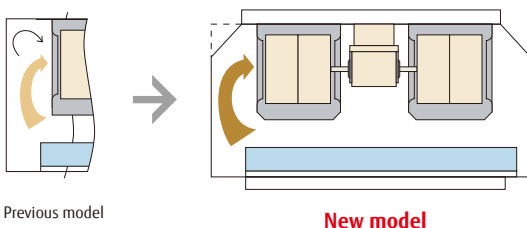
The adoption of a single phase fan motor allows 3 steps fan speed control



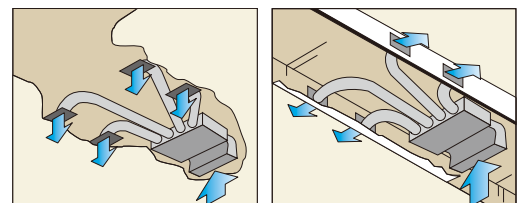
Low noise

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.



Installation styles



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
	Heating		14.0	20.0	25.0	28.0
Input power		W	715	730	1,110	1,250
Airflow rate	High	m ³ /h (l/s)	3,500 (972)	3,500 (972)	3,900 (1,083)	4,300 (1,195)
	Med		3,000 (833)	3,000 (833)	3,300 (917)	4,000 (1,111)
	Low		2,460 (683)	2,460 (683)	3,000 (833)	3,500 (972)
Static pressure range		Pa	100 to 250	100 to 250	50 to 300	100 to 300
Standard static pressure			100	100	260	250
Sound pressure level	High	dB (A)	49	49	51	53
	Med		45	45	48	51
	Low		42	42	45	49
Dimensions (H × W × D)		mm	400 × 1,050 × 500	400 × 1,050 × 500	450 × 1,550 × 700	450 × 1,550 × 700
Weight		kg(lbs)	46 (101)	46 (101)	83 (-)	85(-)
Connection pipe diameter	Liquid (Flare)	mm	9.52 (Flare)	9.52 (Flare)	12.70 (Brazing)	12.70 (Brazing)
	Gas (Flare)		19.05 (Flare)	19.05 (Flare)	22.22 (Brazing)	22.22 (Brazing)
Drain hose diameter (I.D./O.D.)			25 / 32			

Note : Specifications are based on the following conditions.

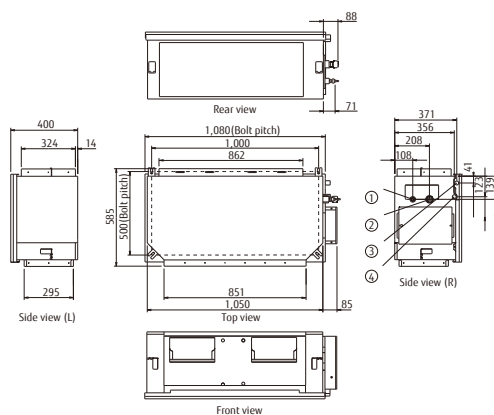
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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

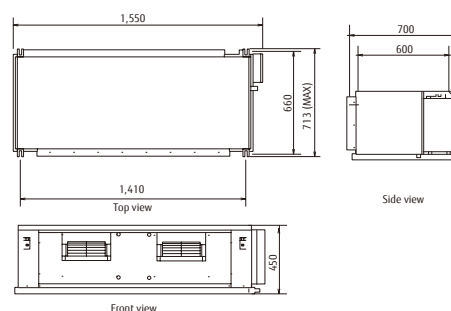
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Dimensions (Unit: mm)

Models: ARXC45 / ARXC60



Models: ARXC72 / ARXC90



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

Large Airflow Duct (Large type)

Models

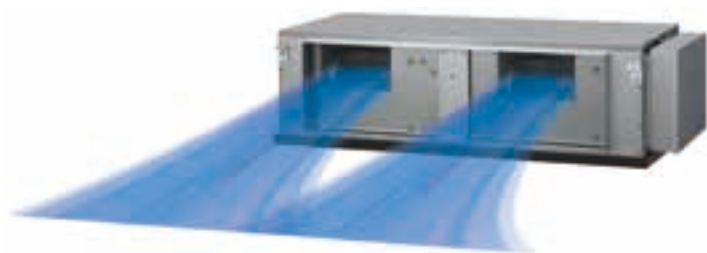
ARXN18GATH
ARXN24GATH
ARXN30GATH
ARXN34GATH
ARXN36GATH
ARXN45GATH



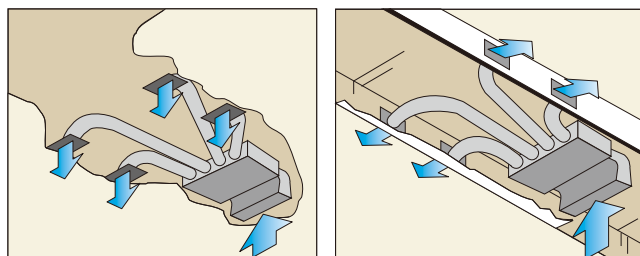
Feature

Large airflow volume

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



Installation styles



Selectable with a wide range of static pressure



static pressure range
50 to 250 Pa

(30 / 34class)

static pressure range
50 to 300 Pa

(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		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 (l/s)	2,280 (633)	2,640 (733)	3,200 (889)	3,720 (1,033)	4,120 (1,145)	4,120 (1,145)
	Med		—	—	—	—	—	—
	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			50	50	50	50	60	60
Sound pressure level	High	dB (A)	35	37	40	43	45	45
	Med		—	—	—	—	—	—
	Low		—	—	—	—	—	—
Dimensions (H × W × D)		mm	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700	450 × 1,587 × 700
Weight		kg(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)		15.88	15.88	15.88	15.88	19.05	19.05
Drain hose diameter (I.D./O.D.)			25 / 32					

Note : Specifications are based on the following conditions.

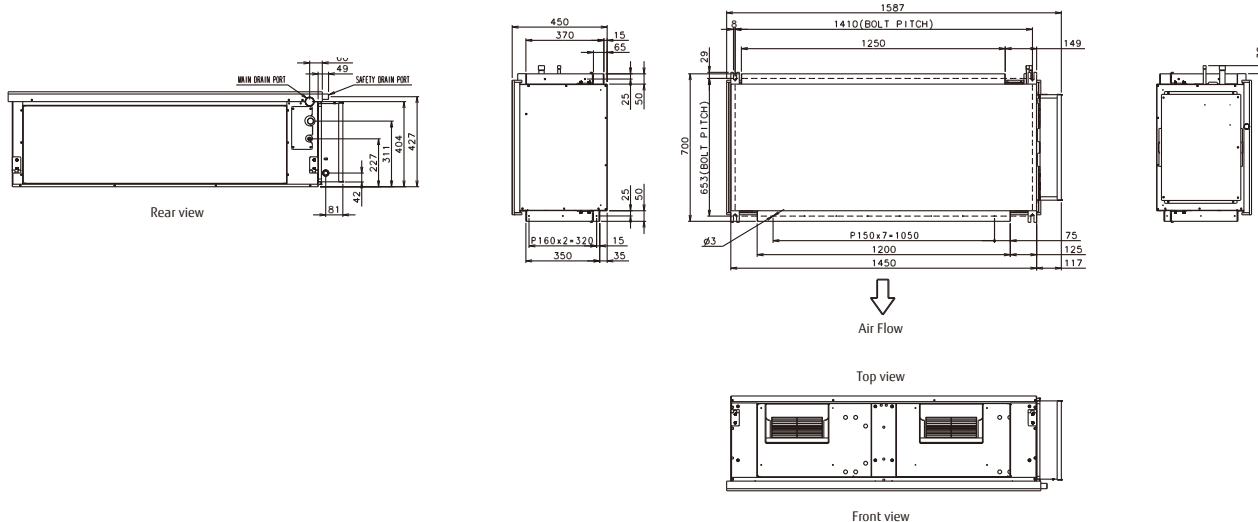
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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

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

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

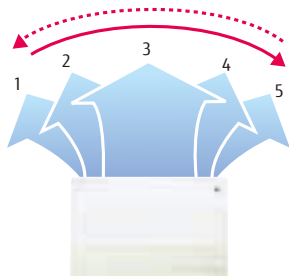
Under ceiling



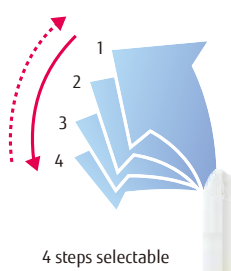
Double auto swing

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

RIGHT and LEFT SWING

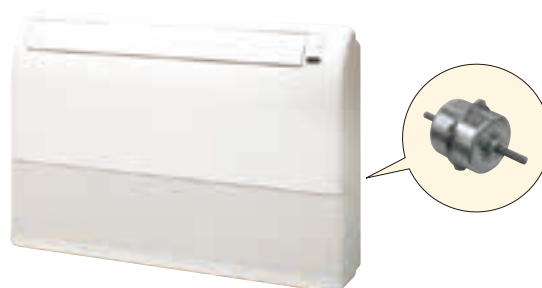


UP and DOWN SWING



High power DC fan motor

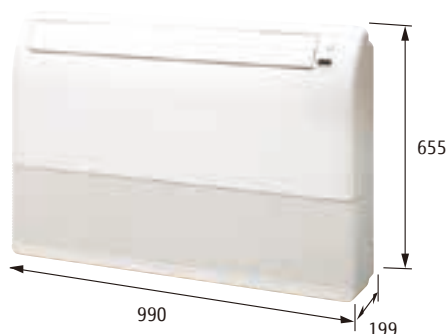
- High power
- Wide rotation range
- High efficiency



Compact design

Symmetrical, slim and compact design.

(Unit : mm)



Auto-closing louver

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

Super vane

Double Louver 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	kW	3.6	4.5	5.6	7.1
	Heating		4.0	5.0	6.3	8.0
Input power		W	30	42	74	99
Airflow rate	High	m³/h (l/s)	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	dB (A)	36	40	46	47
	Med		32	36	39	42
	Low		28	34	35	37
Dimensions (H × W × D)		mm	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655
Weight		kg(lbs)	25 (55)	26 (57)	26 (57)	27 (59)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	9.52	9.52
	Gas (Flare)		12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32			

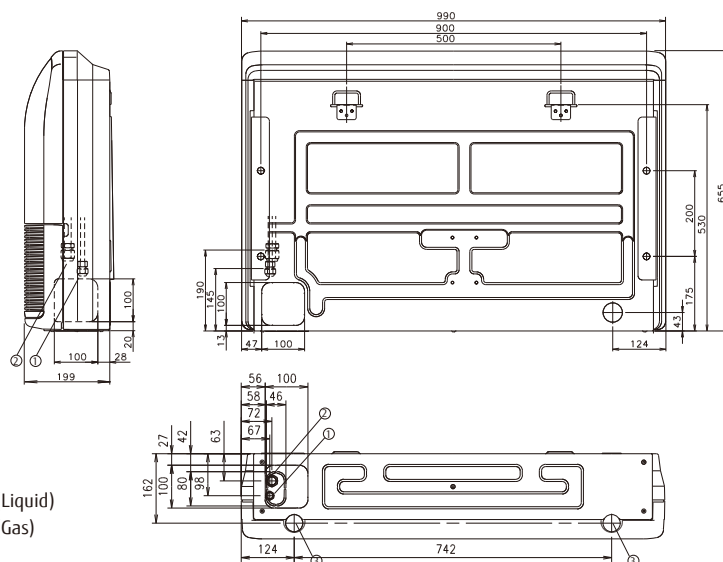
Note : Specifications are based on the following conditions.

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

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

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

Dimensions (Unit: mm)



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

Ceiling

Models

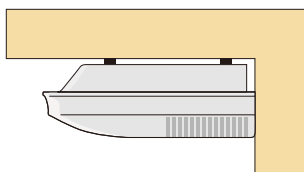
ABHA30GATH
ABHA36GATH
ABHA45GATH
ABHA54GATH



Feature

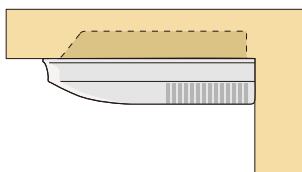
Installation

Open



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

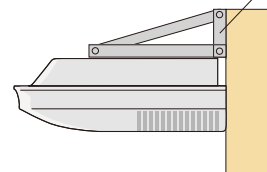
Concealed



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

Wall mounted

(Field Supplied)

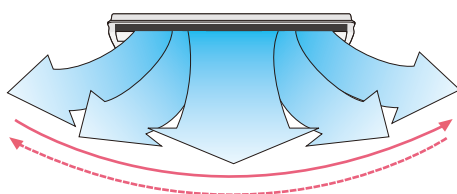


Installation which fixes the indoor unit to the wall by the use of wall brackets (Field supplied). This type of installation can be used when the ceiling space is insufficient.

Double auto swing and wide airflow

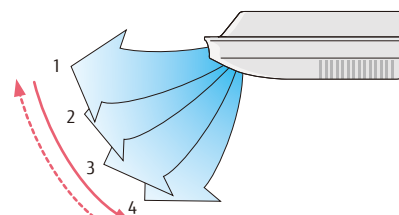
Auto airflow direction and auto swing

Right and left



5 steps selectable

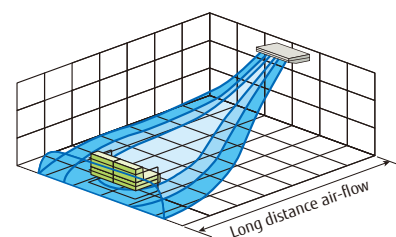
Up and down



4 steps selectable

Long airflow

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

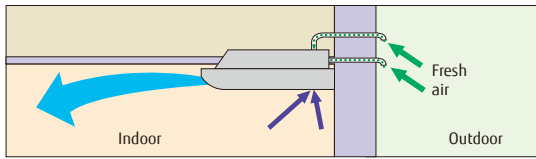


High power DC fan motor

- High power
- Wide rotation range
- High efficiency

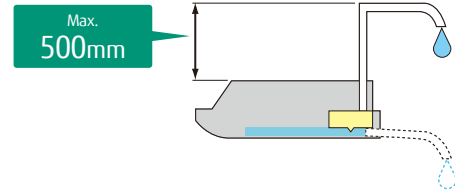


Fresh air intake



High lift drain pump

Optional drain pump unit allows flexible installation design.



Slim & Compact 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	kW	9.0	11.2	12.5	14.0
	Heating		10.0	12.5	14.0	16.0
Input power		W	66	85	131	180
Airflow rate	High	m³/h (l/s)	1,630 (452)	1,690 (469)	2,010 (558)	2,270 (629)
	Med		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	dB (A)	42	45	48	51
	Med		38	38	42	45
	Low		33	34	35	36
Dimensions (H × W × D)		mm	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700
Weight		kg(lbs)	46 (101)	48 (106)	48 (106)	48 (106)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
	Gas (Flare)		15.88	19.05	19.05	19.05
Drain hose diameter (I.D./O.D.)			25 / 32			

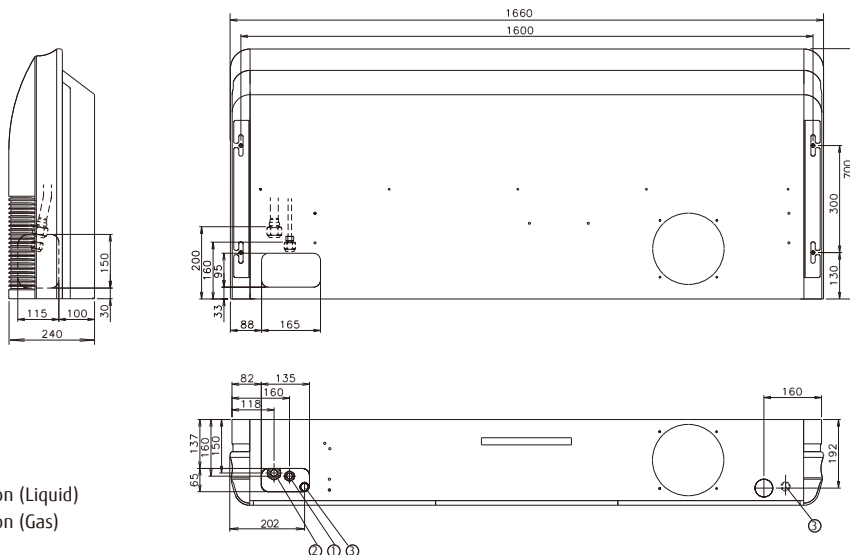
Note : Specifications are based on the following conditions.

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

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

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

Dimensions (Unit: mm)



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

Wall Mounted

Models (EEV internal) **Models** (EEV internal) **Models** (EEV external)

ASHA07GACH ASHA07GATH ASHE07GACH
ASHA09GACH ASHA09GATH ASHE09GACH
ASHA12GACH ASHA12GATH ASHE12GACH
ASHA14GACH ASHA14GATH ASHE14GACH



Feature

Filter features

High performance filter provides high quality air conditioning



Long-life* 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.

(*The filter can be used for approx. 3 years if it is washed under water to restore its surface action when it is dirty.)

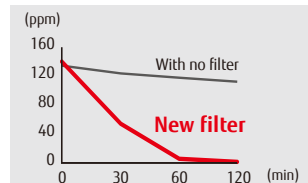


Apple-catechin Filter

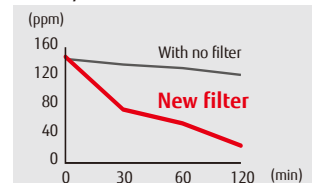
Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol extracted from apples.

Deodorizing effect (Odor reduction rate)

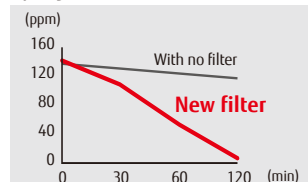
Ammonia



Trimethylamine



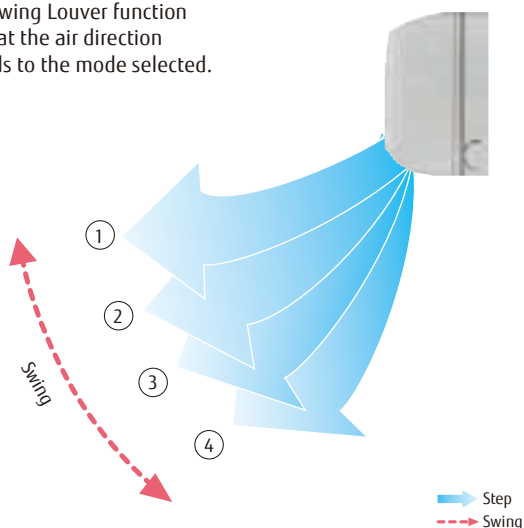
Hydrogen sulfate



High performance filters have been thoroughly tested by the Environmental Sanitary Inspection Center using an advanced Deodorization Test.

Auto swing louver

The Auto Swing Louver 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
790 mm



790mm

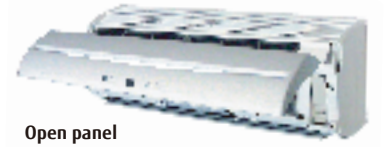
High power DC fan motor

- 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.

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	kW	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		W	17	18	22	34	15	16	21	34
Airflow rate	High	m ³ /h (l/s)	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	dB (A)	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 × W × D)		mm	275 × 790 × 215	275 × 790 × 215	275 × 790 × 215	275 × 790 × 215	275 × 790 × 215	275 × 790 × 215	275 × 790 × 215	275 × 790 × 215
Weight		kg(lbs)	9 (20)	9 (20)	9 (20)	9 (20)	9 (20)	9 (20)	9 (20)	9 (20)
Connection pipe diameter	Liquid (Flare)	mm	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.D.)			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.

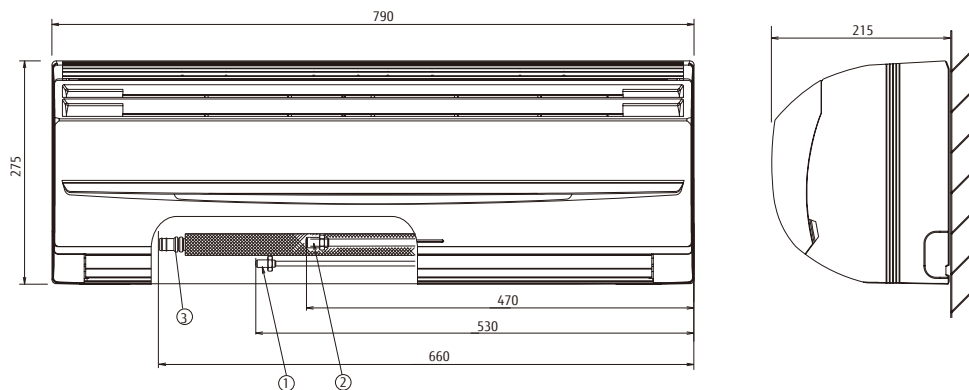
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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

Wall Mounted

Models

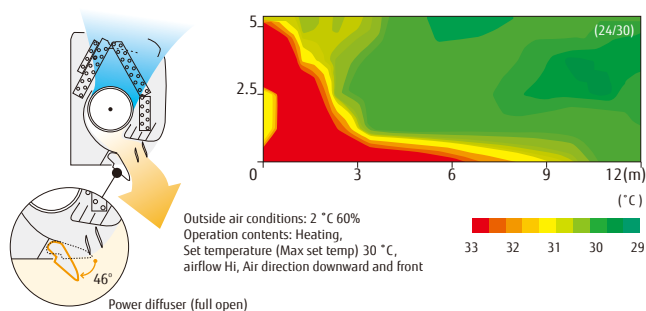
ASHA18GACH ASHA18GATH
ASHA24GACH ASHA24GATH
ASHA30GACH ASHA30GATH



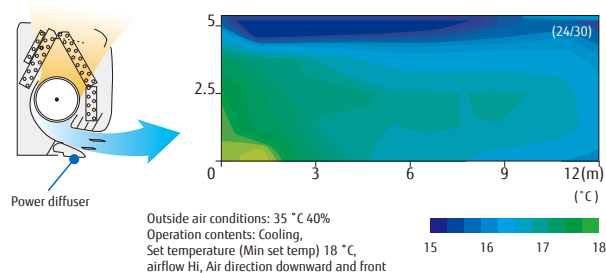
Feature

More comfort airflow by adopting power diffuser

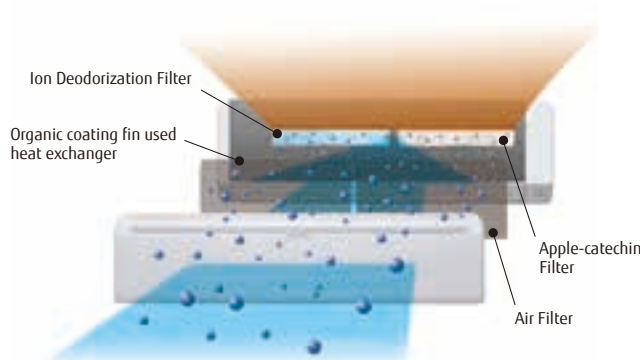
"Vertical airflow" provides powerful floor level heating



"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.



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.



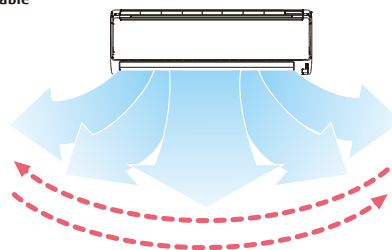
Apple-catechin Filter

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

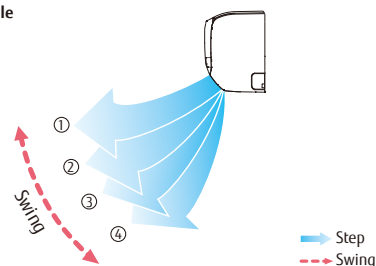
Double auto swing

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

5 steps selectable



4 steps selectable



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		6.3	8.0	9.0
Input power		W	32	60	91
Airflow rate	High	m³/h (l/s)	840 (233)	1,100 (305)	1,240 (343)
	Med		770 (213)	910 (252)	980 (271)
	Low		690 (191)	730 (202)	770 (213)
Sound pressure level	High	dB (A)	41	48	52
	Med		39	43	45
	Low		35	35	35
Dimensions (H × W × D)		mm	320 × 998 × 228	320 × 998 × 228	320 × 998 × 228
Weight		kg(lbs)	15 (33)	15 (33)	15 (33)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52
	Gas (Flare)		15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			12 / 16		

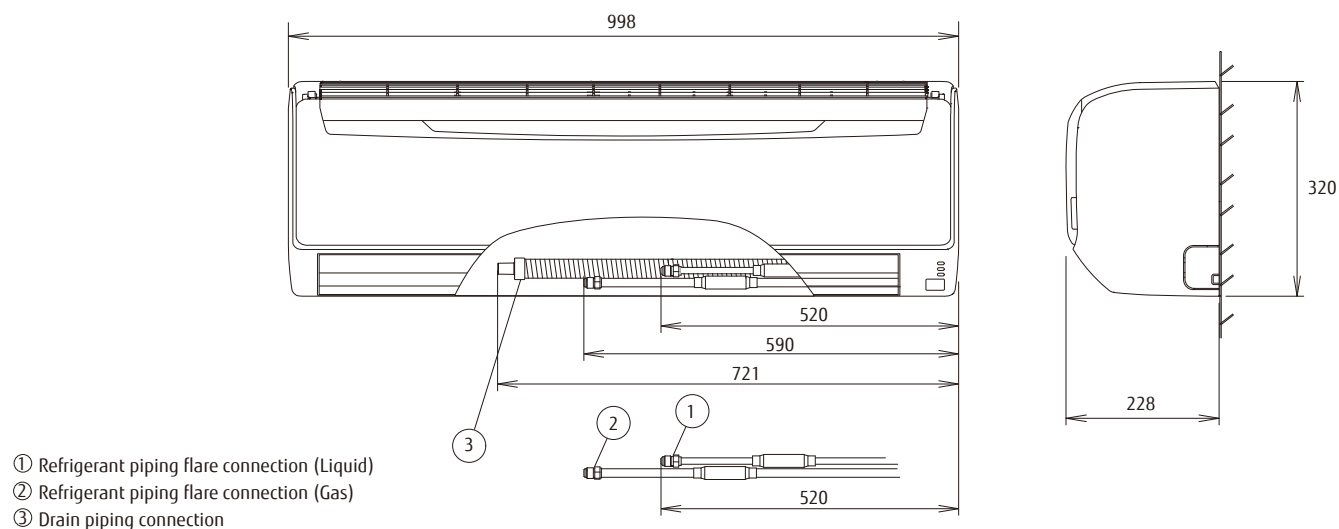
Note : Specifications are based on the following conditions.

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

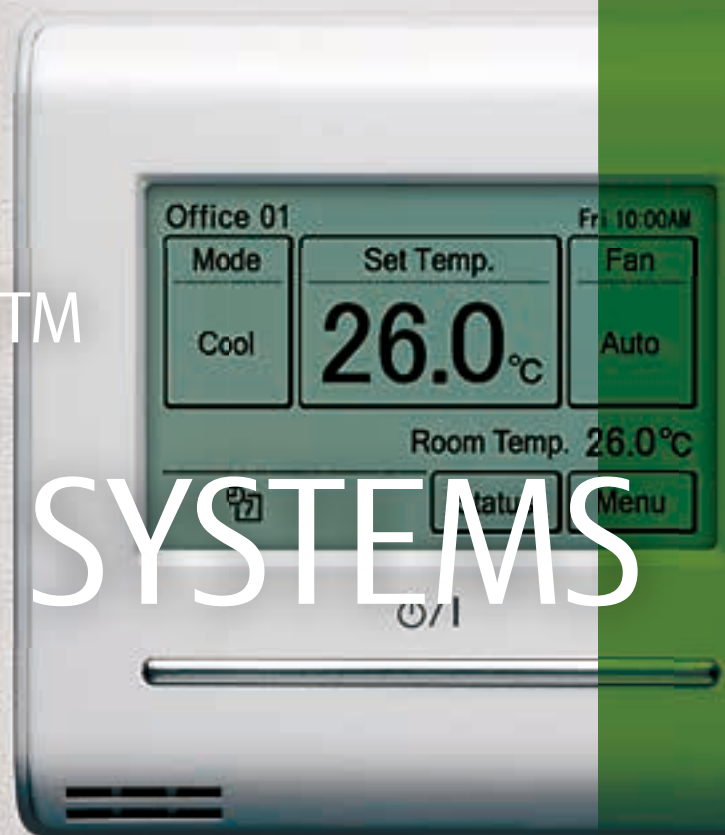
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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.

BEST CONTROL SOLUTION FOR EACH PROPERTY

CONTROL SYSTEM OVERVIEW

COMPARISON TABLE OF CONTROLLERS

Individual Controller

Centralised Controller









Convertor / Adaptor

AIRSTAGETM













BEST CONTROL SOLUTION FOR EACH PROPERTY

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














SHOP

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

HOTEL

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

OFFICE

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

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.

Air Conditioning Individual Control



**Wired Remote Controller
(Touch panel)**
UTY-RNRGZ2



Wired Remote Controller
UTY-RNRG



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



Wireless Remote Controller
UTY-LNHG



IR Receiver Unit
UTB-YWC For Duct type



For Cassette
For Circular Flow Cassette

IR Receiver Unit
UTY-LRHGB1 For Cassette type
UTY-LBHGD For Circular Flow Cassette

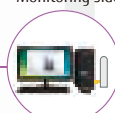
Air Conditioning Centralized Control



USB Adaptor *1
(Field supplied)

Internet or
Public
Telephone
Line

Remote/
Monitoring side



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

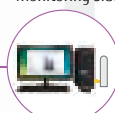
Max. controllable
1600*
Indoor units

*: Lite edition is max. controllable 400 indoor units



Internet or
Public
Telephone
Line

Remote/
Monitoring side



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

Network Converter
(for Group Remote Controller)
UTY-VGGXZ1

Max. controllable
8
Remote Controller
Groups



Convertor / Adaptor For external device

BACnet® Gateway

UTY-ABGXZ1 **Software**



BACnet® Gateway

UTY-VBGX **Hardware**



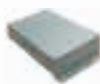
Network Converter For LONWORKS®

UTY-VLGX



MODBUS® Convertor

UTY-VMGX



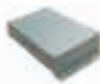
MODBUS® Interface

FJ-RC-MBS-1



KNX® Convertor For VRF

UTY-VKGX



KNX® Interface

FJ-RC-KNX-1i



Wireless LAN Interface

FJ-RC-WIFI-1



External Switch Controller

UTY-TERX



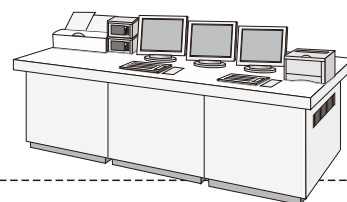
Card-key
(Field supplied)



Internet device



BMS/BAS *2



BMS, Home automation system



*1. USB Adaptor: Echelon® U10 USB Network Interface

*2. BMS/BAS: Building Management System/Building Automation System

Convertor / Adaptor For system expansion

Network Converter (DC power supply)

UTY-VTGX



Network Converter (AC power supply)

UTY-VTGXV



Signal Amplifier

UTY-VSGXZ1












Thermostat Convertor

UTY-TTRX **NEW**



COMPARISON TABLE OF CONTROLLERS

Item						
			Wired Remote Controller (Touch panel)	Wired Remote Controller	Simple Remote Controller	Simple Remote Controller* ¹
Model name			UTY-RNRGZ2	UTY-RLRG	UTY-RSRG	UTY-RHRG
Max. controllable remote controller groups			1	1	1	1
Max. controllable indoor units			16	16	16	16
Max. controllable groups			—	—	—	—
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		—	—	—	—
	Refrigerant leakage detection function		—	—	—	—
	Timer	Schedule timer	Period	Week	Week	—
On/off, Temp, Mode, Times per day			8	4	—	—
On/off timer		●	●	—	—	
Sleep timer		—	—	—	—	
Program timer		—	—	—	—	
Auto off timer		●	●	—	—	
Day off		●	●	—	—	
Min. unit of timer setting (Minutes)		10 • 30	30	—	—	
Control	Status monitoring system		—	—	—	—
	Electricity charge apportionment		—	—	—	—
	Error history		●	●	—	—
	Emergency stop		—	—	—	—
	Remote management		—	—	—	—
	Energy saving management		—	—	—	—
	E-mail notification for malfunction		—	—	—	—
	Key lock		● Child lock	● Child lock	—	—
	Low noise mode		—	—	—	—

					
Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller Lite <small>(Software)</small>	System Controller <small>(Software)</small>
UTY-LNHG	UTY-CGGG	UTY-DCGG	UTY-DTGGZ1	UTY-ALGXZ1	UTY-APGXZ1
1	8	100	400	400	1600
16	128	100	400	400	1600
—	—	16	400	400	1600
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
●	●	●	●	●	●
—	—	●	●	●	●
●	—	●	●	—	—
●	—	●	●	●	●
●	—	●	●	●	●
—	—	—	●	—	—
—	—	●	●	●	●
—	—	●	●	●	●
—	—	●	●	●	●
—	—	●	●	●	●
—	—	—	●	—	—
●	—	●	●	●	●
—	—	—	●	●	●
—	●	●	●	●	●
—	—	●	●	●	●
●	●	●	●	●	●
—	●	—	●	●	●
—	●	●	●	●	●
—	●	●	●	●	●
—	●	●	●	●	●
—	—	—	●	—	—
—	—	●	●	●	●
—	—	●	●	●	●
—	—	●	●	●	●
—	—	●	●	●	●
—	—	●	●	—	—
—	—	—	—	—	●
—	—	—	●	●	●
—	Week	Week	Year	Year	Year
—	4	20	20	144	144
●	—	—	—	—	—
●	—	—	—	—	—
●	—	—	—	—	—
—	—	—	●	—	—
—	—	●	●	●	●
5	10	10	10	10	10
—	—	●	●	●	●
—	—	—	○	○	●
—	●	●	●	●	●
—	—	●*2	●*2	—	—
—	—	—	●	○	●
—	—	—	—	○	○
—	—	—	●	●	●
—	●	●	●	●	●
—	Child lock	Password setting	Password setting	Password setting	Password setting
—	—	—	●	—	—

*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

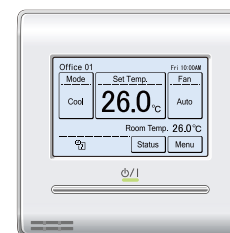
16

indoor units

UTY-RNRGZ2

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

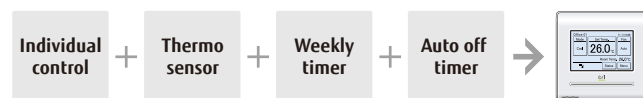
- Easy finger touch operation with LCD panel
- Built-in weekly/Daily timer (ON/OFF, Temp., Mode)
- Backlight enables easy operation in a darkened room
- Room temperature display
- Control up to 16 indoor units
- Corresponds to 12 different languages
(English, Chinese, French, German, Spanish, Russian,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



Functions

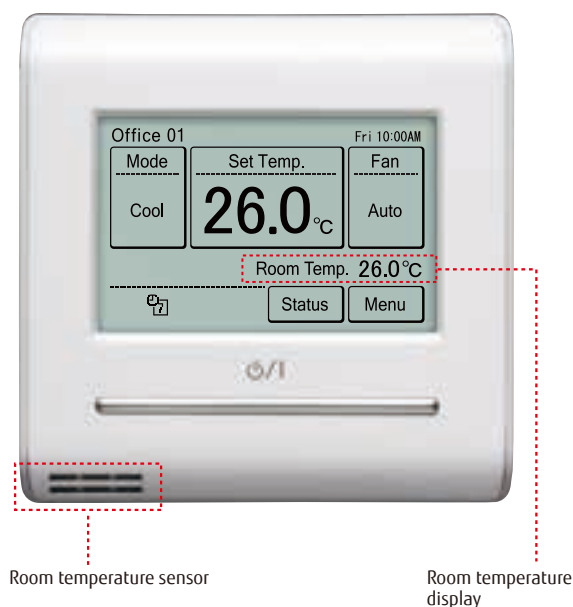
High performance and compact size

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



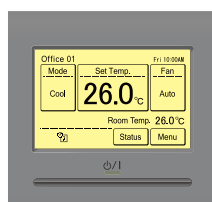
Accurate and comfortable control

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



Backlight

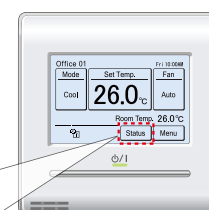
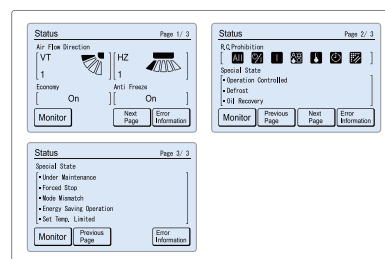
- Backlight enable easy operation in a darkened room.
- For the lighting time of Backlight, 30 or 60 seconds can be set.
- Backlight activates while the buttons are operated and goes off 30 or 60 seconds after the operation stops.



Various convenient functions

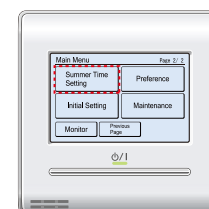
Displays setting status and Limitations

- The remote controller settings can be easily checked



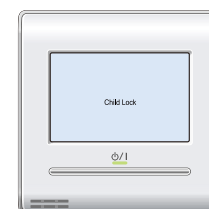
Summer Time display

- This function can be set easily from Menu screen



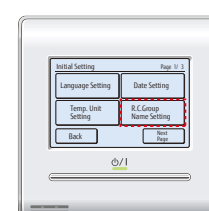
Child lock

- 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.



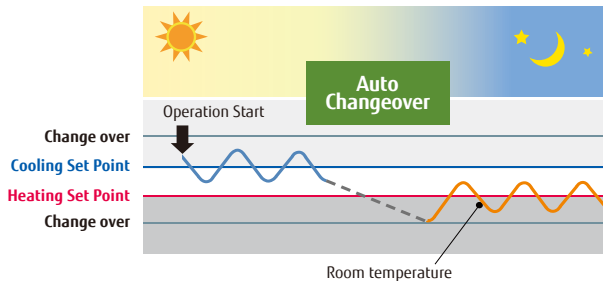
Various energy saving control

Custom Auto

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

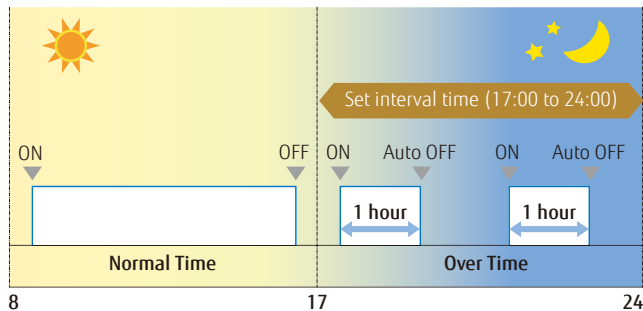
* This function is not available for some models.

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



Auto OFF timer

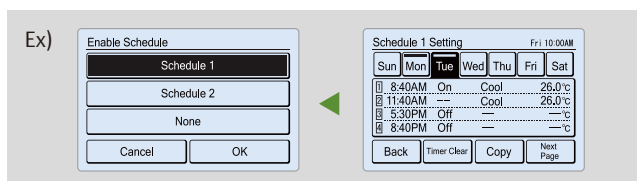
- The indoor unit automatically is turned off when it reaches to the preset operating time frame.
- The time frame of the "Auto off timer" can be flexibly scheduled.
- Can be set off time 30 to 240 minutes



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

2 schedules Weekly Timer

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



Set Temperature Auto Return

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

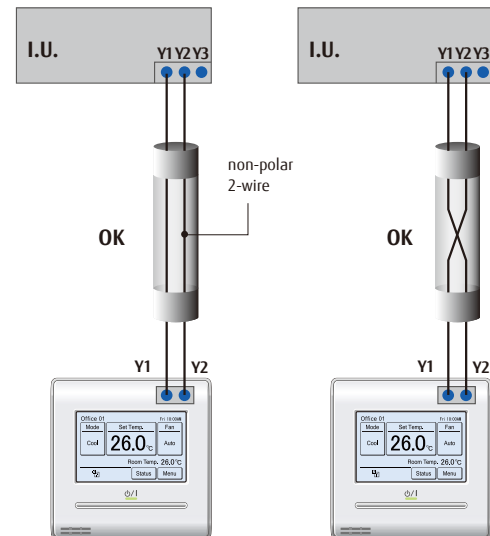
Set Temperature Upper and Lower Limit Setting

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

Simplified installation

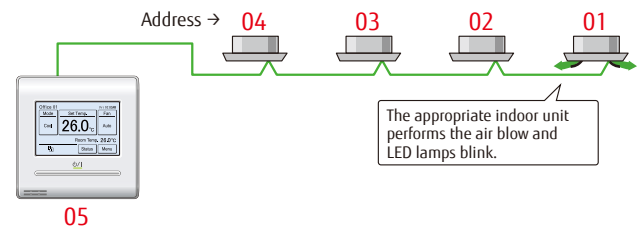
Uses non-polar 2-wire type

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



Auto Address Setting/Setting Position Notification

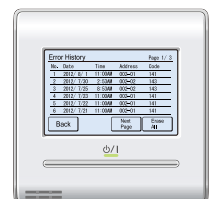
- Reduce errors and install time compared with the current specification Rotary SW
- When will be set remote controller groups, can also be set automatically new Wired remote controller address
- After auto address setting of new wired remote controller groups, what number can also confirm addresses



Easy Maintenance

Error History Display

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



Specifications

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

DC12V is supplied by indoor unit.

Wired Remote Controller

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

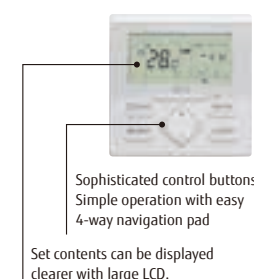
High performance and compact size

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



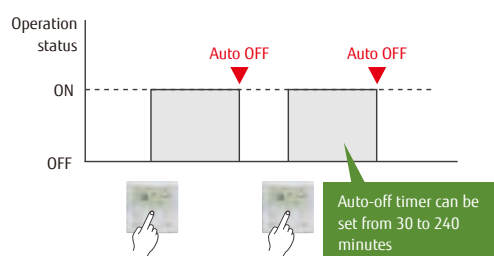
High visibility and easy operation

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



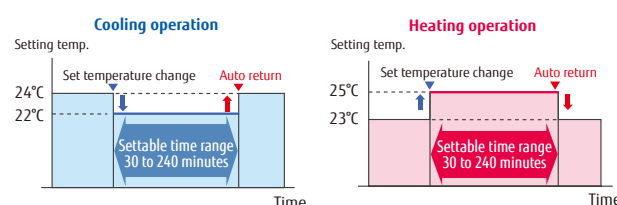
Auto-off timer

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



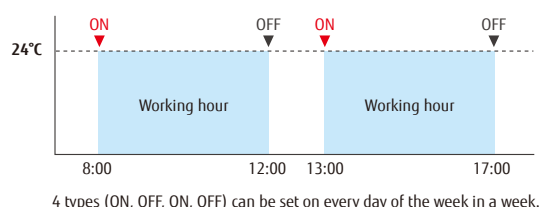
Set temperature auto return

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



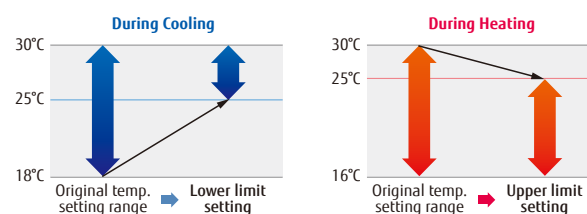
Weekly timer function

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



Set temperature upper and lower limit setting

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



Specifications

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

DC12V is supplied by indoor unit.

Simple Remote Controller

Max. controllable

16

indoor units

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



UTY-RSRG



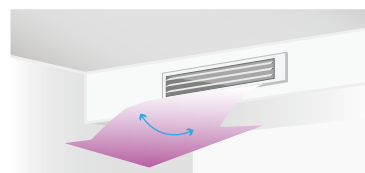
UTY-RHRG
Without Operation mode

Functions

Corresponding to various applications

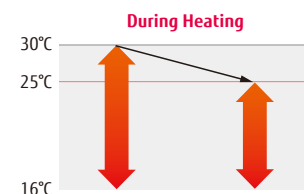
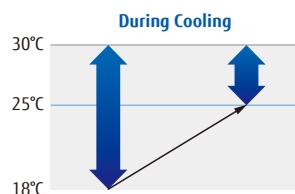
• Vertical louver control:

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



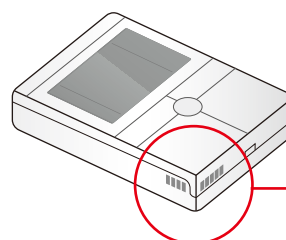
• Room temperature set point limitation:

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



• Built in room temperature sensor:

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



Room temperature
sensor

Specifications

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

DC12V is supplied by indoor unit.

Wireless Remote Controller

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

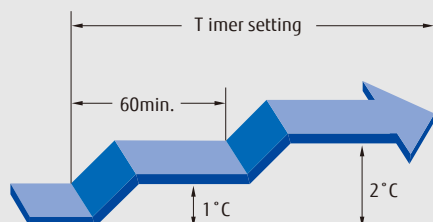
Select from 4 different timer programs : On / Off / Program / Sleep

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.

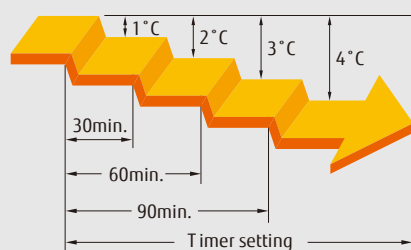
Cooling operation/dry operation

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.



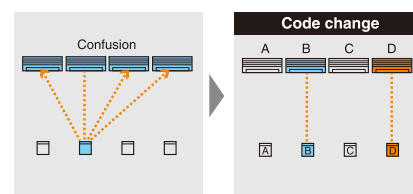
Heating operation

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.

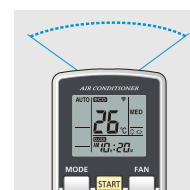


Easy installation and operation

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

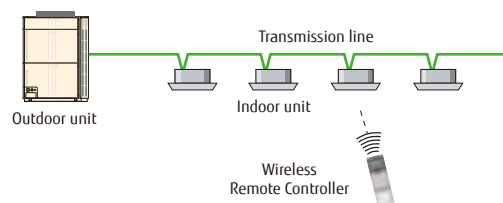


Wide and precise



Address setting

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



Specifications

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

IR Receiver Unit

UTB-YWC

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

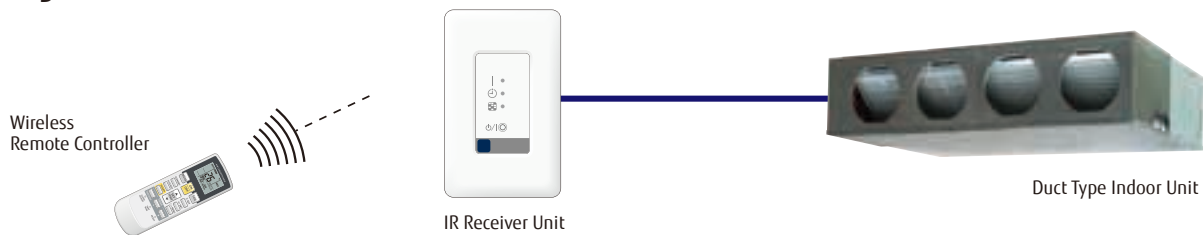
*Only Large Airflow Duct cannot be connected to IR Receiver Unit.

- 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

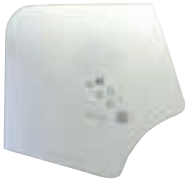
Model name		UTB-YWC
Power Supply		DC 5V
Dimensions (H x W x D)	mm	145 x 90 x 30
Weight	g	150

IR Receiver Unit

UTY-LRHGB1 (For Cassette)

UTY-LBHXD (For Circular Flow Cassette)

Cassette type indoor unit can be controlled with Wireless Remote Controller



UTY-LRHGB1



UTY-LBHXD

Functions

Wiring connection



Specifications

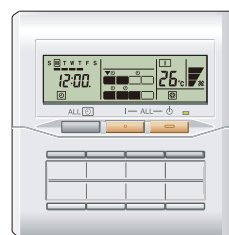
Model name		UTY-LRHGB1	UTY-LBHXD
Power Supply		DC 5V	
Dimensions (H x W x D)	mm	193.9 x 193.9 x 31.2	
Weight	g	140	

Group Remote Controller / Network Converter

UTY-CGGG / UTY-VGGXZ1

Group control of indoor units with simple operation

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



Group Remote Controllers
UTY-CGGG



Network Converter
UTY-VGGXZ1
For Group Remote Controller

Max. controllable
8
remote controller
groups

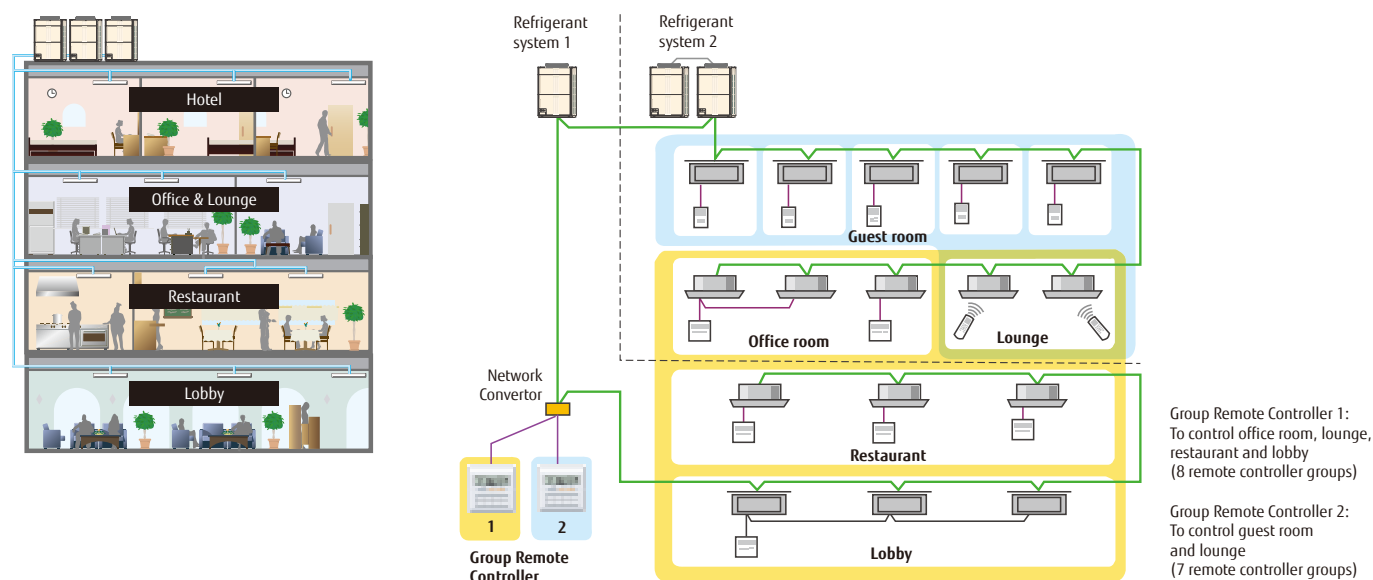
Max. controllable
92 indoor units in
8 Groups

Max. controllable
2
refrigerant
circuits

Functions

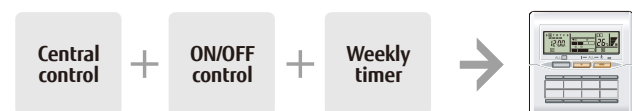
Control up to 8 remote controller groups

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.

Specifications

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

DC12V is supplied by indoor unit.

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

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.

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

Max. controllable
100
indoor units

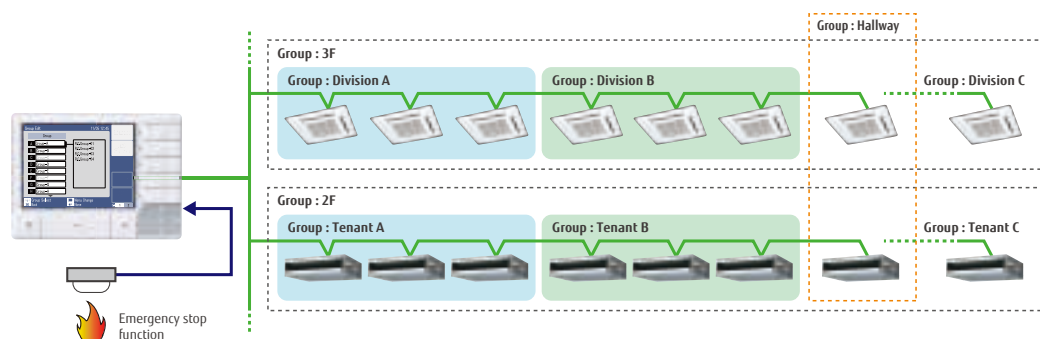
Max. controllable
16
groups



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)



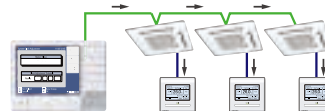
- Weekly timer



- Error history



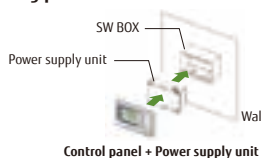
- Automatic clock adjustment



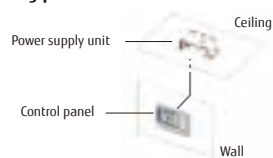
Easy Installation

- 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.

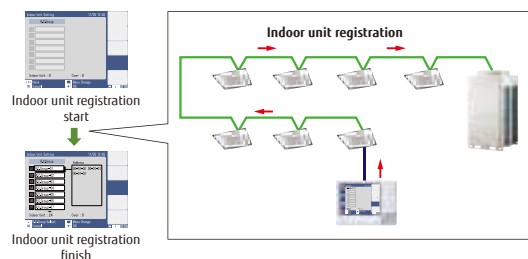
Setting pattern 1



Setting pattern 2



- 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

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

UTY-DTGGZ1

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



Functions

Control & monitoring from anywhere

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



Easy maintenance

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

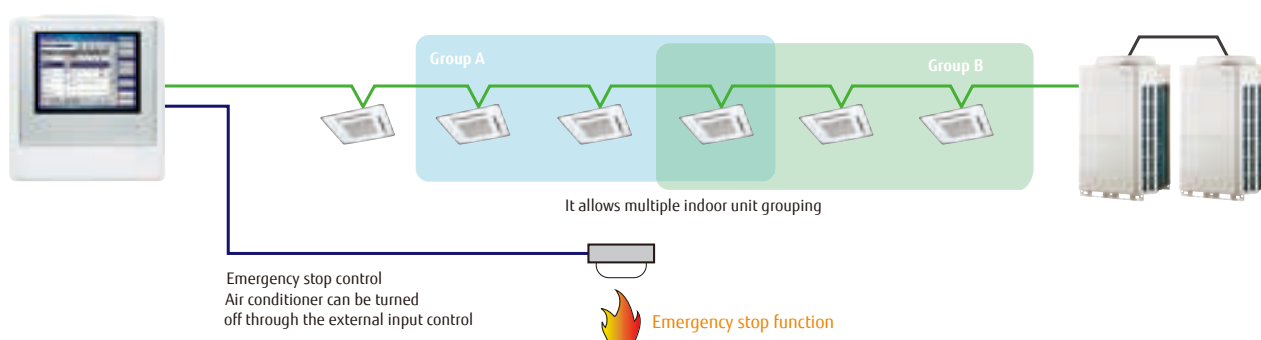


Easy installation

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

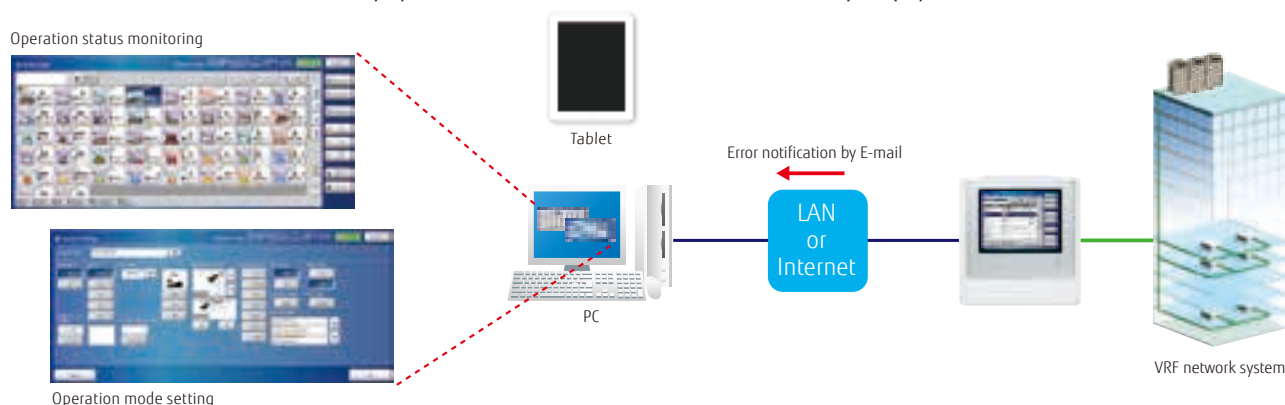


Up to 400 indoor units can be controlled



Control & monitoring

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



Smart Phone

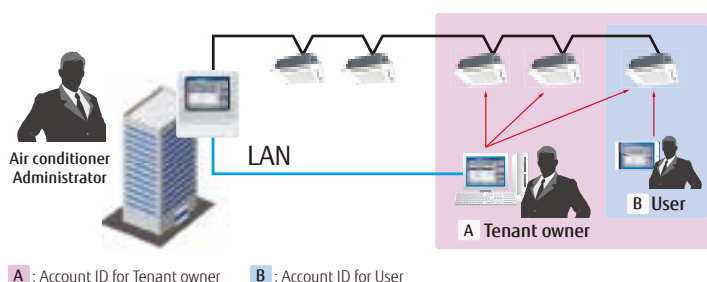
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iphone7 (iOS 10.1)	Safari 10

Tablet

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

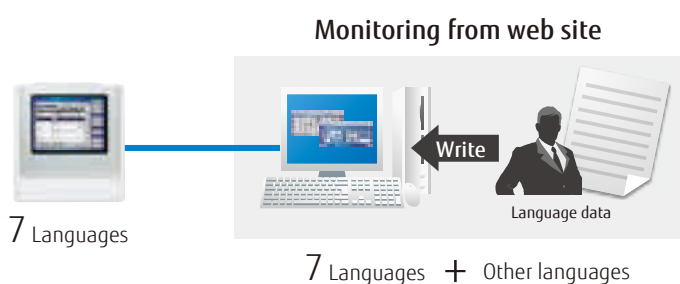
Flexible access permission for Point each level user.

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



Additional languages function

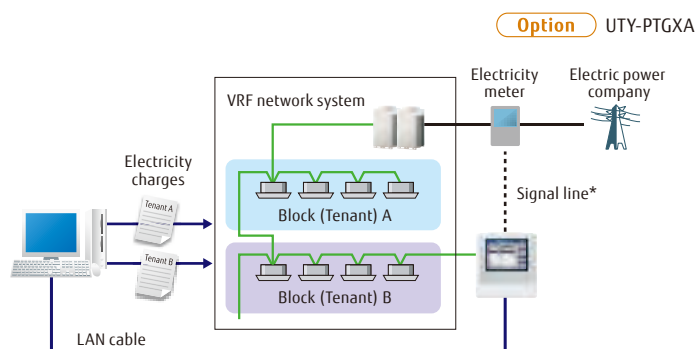
Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish as standard. Additional language can be integrated on remote device by creating language database. Additional language is displayed on only the remote device, and Touch Panel Controller cannot be added other languages.



Electricity charge apportionment

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

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



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

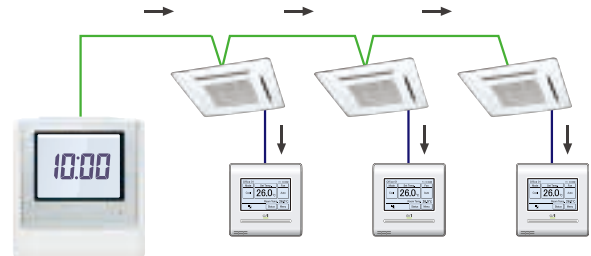
Automatic summer time setting

Providing function

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

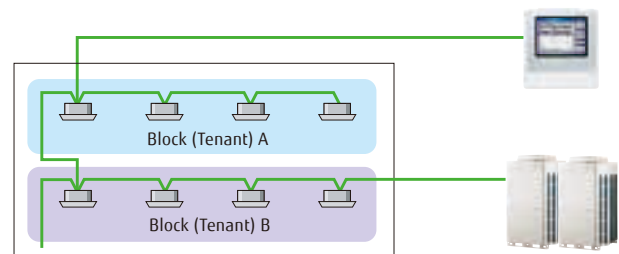
Automatic clock adjustment

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

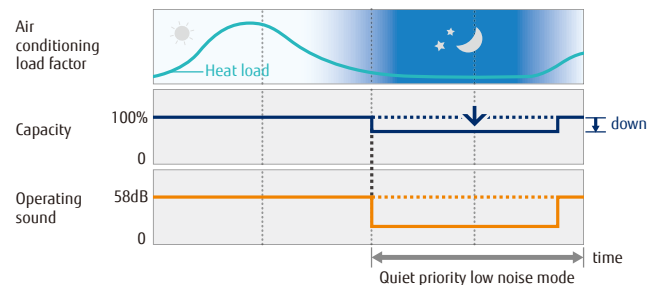


Outdoor low noise operation

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



Quiet priority setting



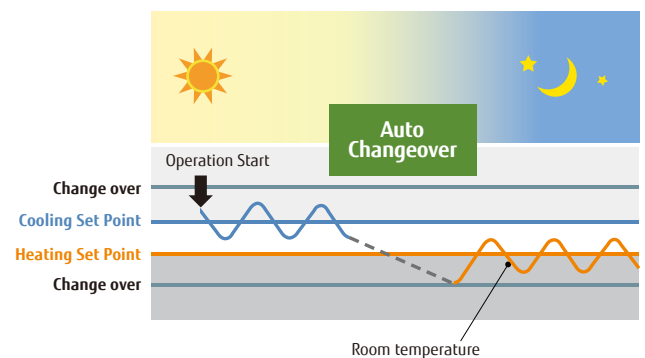
NEW Various energy saving control

Custom Auto



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



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





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
Filter sign reset	●	●
Memory operation	●	●

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

*1 Only setting cancellation can be operated.

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

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

Specifications

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

System Controller Software

UTY-APGXZ1

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

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

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



System Controller Lite Software

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 system	Max. controllable 400 indoor units	Max. controllable 100 outdoor units
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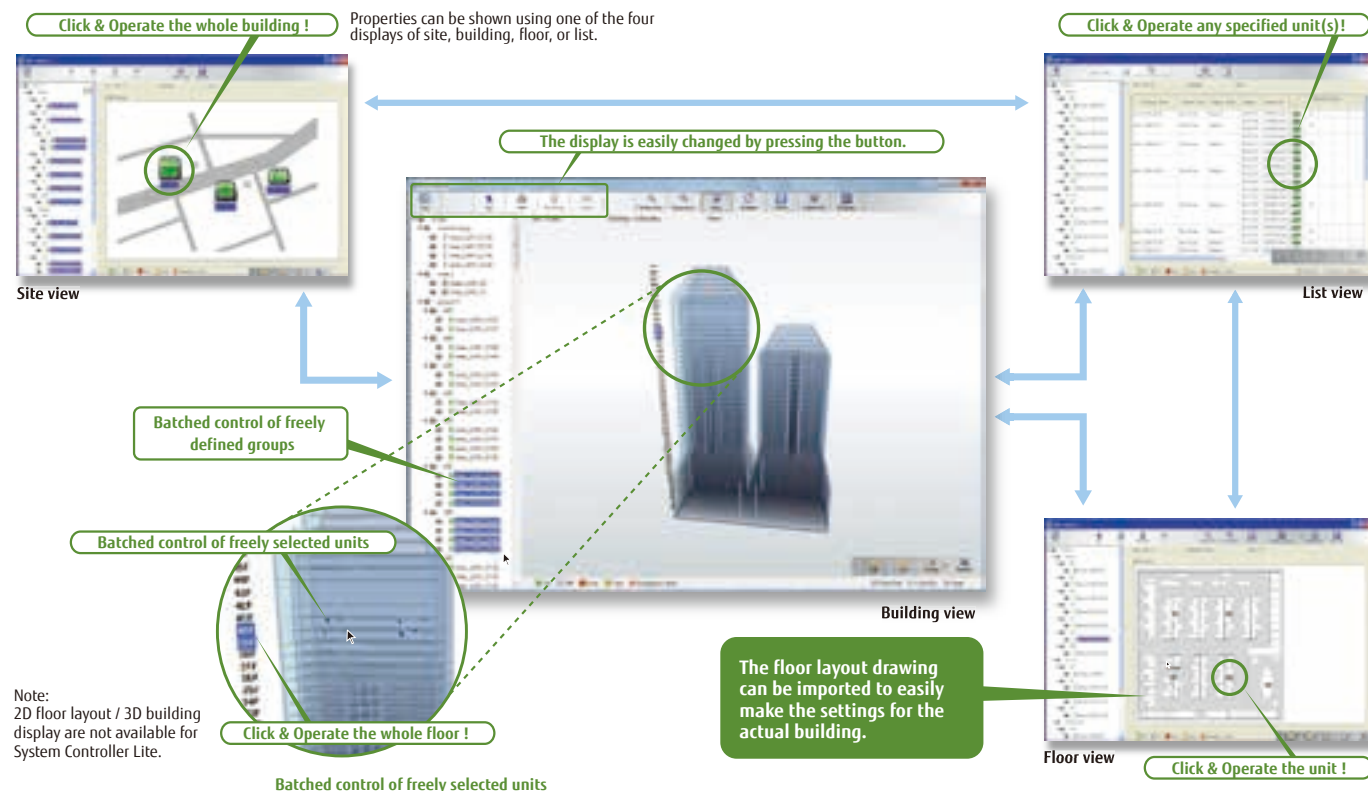


Functions

User friendly view and operation

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

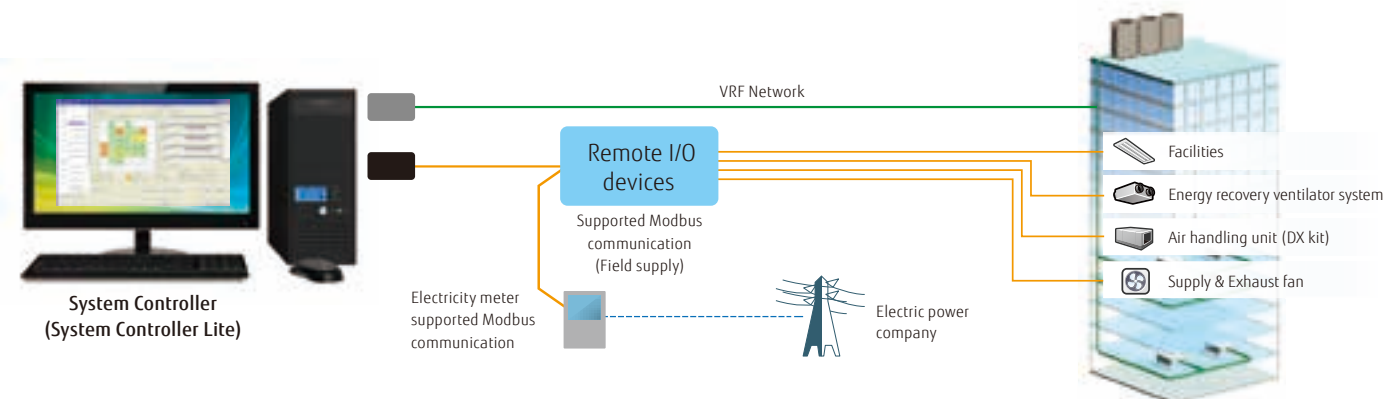
- **Freely define groups for batched control** : Indoor units can be freely grouped for simple batched control from a tree menu. Grouping by hierarchal structure, such as by section, division or department is possible.



3rd party devices connected by Modbus can be controlled.

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

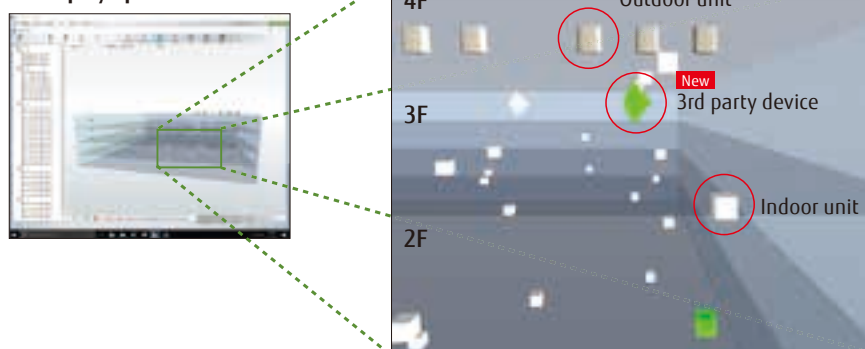
When Modbus Adaptor (locally purchased) is connected to PC, the electric facilities supported by Modbus can be controlled centrally. Wasteful electricity charge by forgetting to turn off and patrol activities can be reduced in the entire building.



3D display of external equipment

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

3D display operation

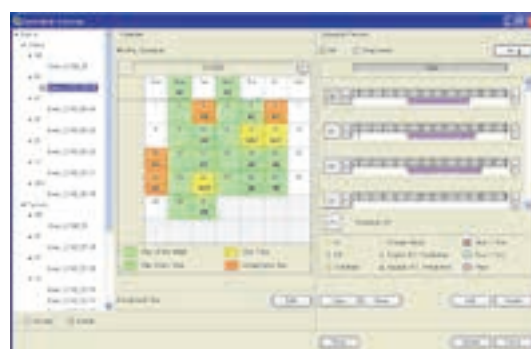


*UTY-APGXZ1 only

Diverse operation management & Data management

Schedule management

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



Diverse control of indoor and outdoor unit

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

Remote controller prohibition

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

Automatic clock adjustment

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

Error display & E-mail notification

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

Data base import/export

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

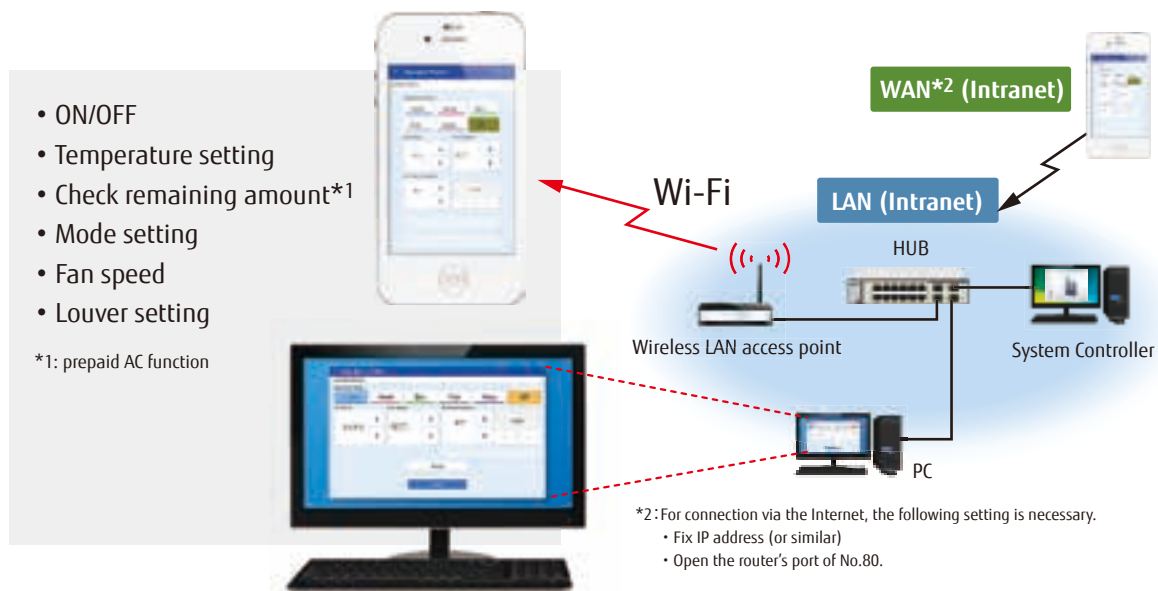
Operating & control record

Displays the history of operation status and control.

Functions

Web Operation

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

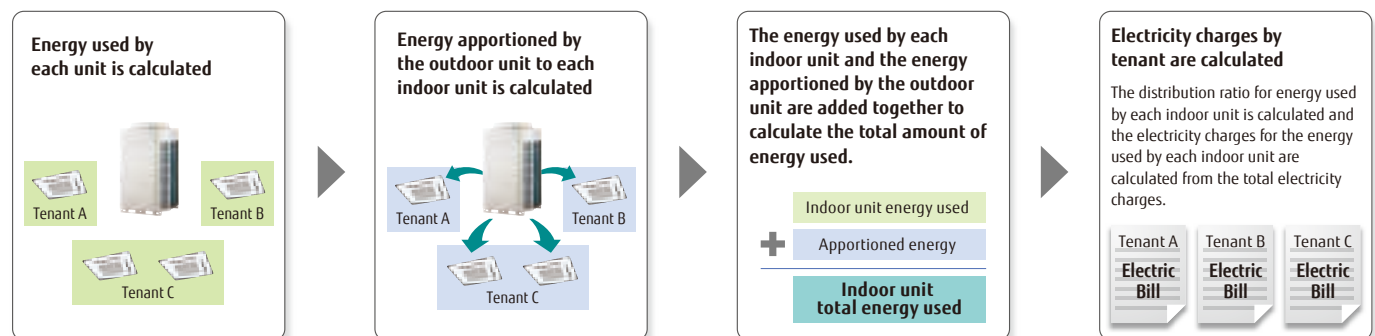
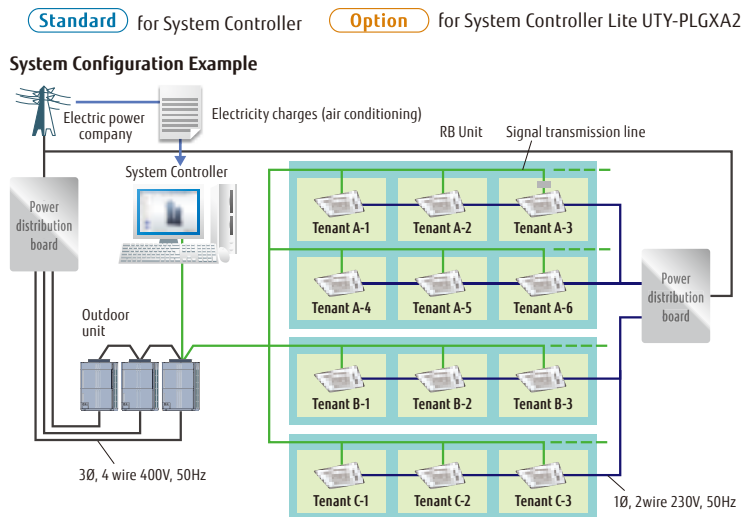


Electricity charge apportionment

Electricity charge apportionment calculation framework

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

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

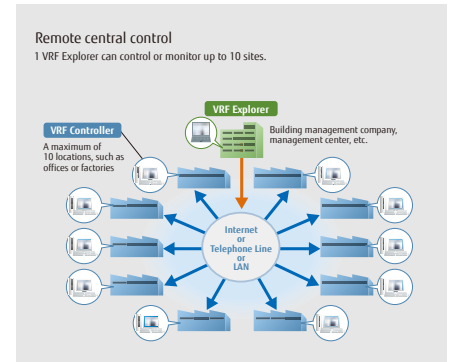
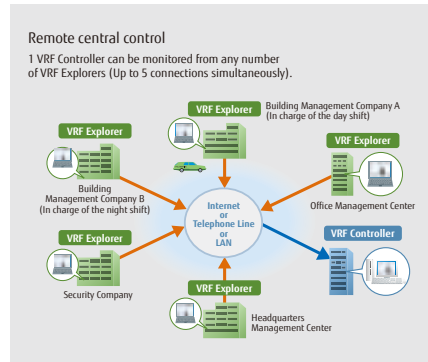


Remote management

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

Standard for System Controller

Option for System Controller Lite UTY-PLGXA2



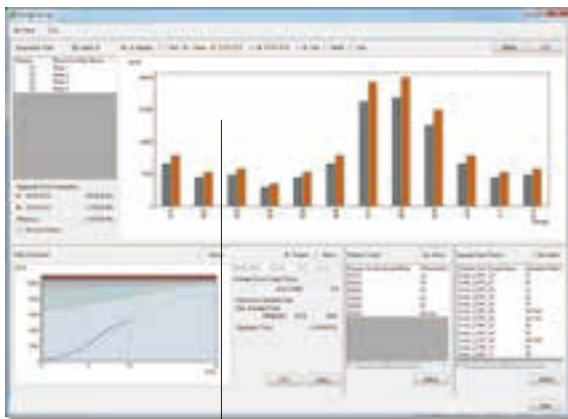
Energy saving management

Option for System Controller UTY-PEGXZ1

Option for System Controller Lite UTY-PLGXE2

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

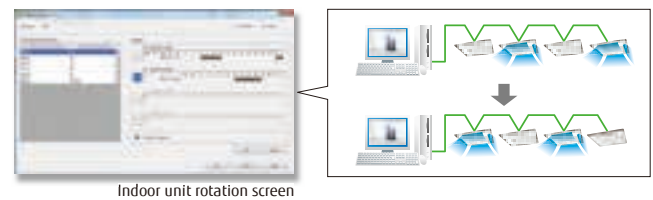
Energy Saving Management Main Screen



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

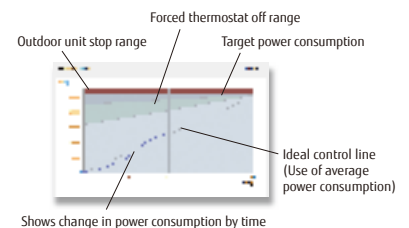
Indoor unit rotation operation

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



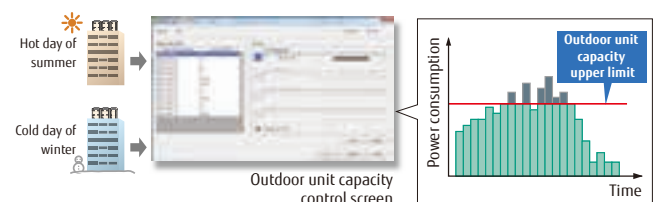
Peak cut operation

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



Outdoor unit capacity save

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

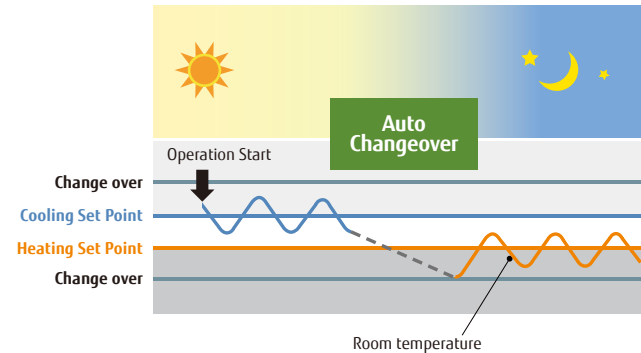


Functions

Custom Auto Function

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

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



Custom Auto operation display

Set Temp. [Custom Auto] (° C)	
Cool	Heat
27.0	23.0
25.5	23.0

Custom Auto operation display

Custom Auto		App	Est	Dry	Hum	Heat
Set Temp. (°C)						
Cool	25.5					
Custom Auto	Heat					

*This function can display only the indoor unit that supports Custom Auto Function.

FUNCTIONS SUMMARY

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

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

Personal computer system requirements

The required PC specifications are shown in the following table.

	System Controller	System Controller Lite
Operating system	<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® CoreTM i3 2 GHz or higher	
Memory	• 2 GB or more (for Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)	
HDD	40 GB or more of free space355	
Display	1024 x 768 or higher resolution	
Interface	<ul style="list-style-type: none"> Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 2 USB ports are required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB port depends on the applicable system configuration.	<ul style="list-style-type: none"> Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 4 USB ports are required for WHITE-USB-KEY/WibuKey connection - 1 USB port is required for Echelon® U10 USB Network Interface * The maximum number of required USB port depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	
Software	Adobe® Reader® 9.0 or later	

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

<PACKING LIST>

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

*1: Software protection key to be inserted in a USB slot running System Controller or System Controller Lite.

System Controller or System Controller Lite may only run on a PC with WHITE-USB-KEY. However, WHITE-USB-KEY is not required for remote VRF Explorer software.

BACnet® Gateway

UTY-ABGXZ1

- It is possible to connect medium to large sized BMS to VRF network system via BACnet®, a global standard for open networks.
- A maximum of 1600 indoor units with 4 VRF network systems (a maximum of 400 indoor units & 100 outdoor units for one network system) can be connected to one BACnet® Gateway.
- It is possible to control or monitor VRF network system from BMS via BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2014) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.
- Scheduling function, Alarm & Event functions as well as Electricity Change Apportionment function are provided in BACnet® Gateway.
- Connection between VRF network system to personal computer is possible via small U10 USB interface. However, both U10 USB interface & personal computer are field supplied items.
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.

Max. controllable
4
VRF network systems

Max. controllable
1,600
indoor units

Max. controllable
400
outdoor units



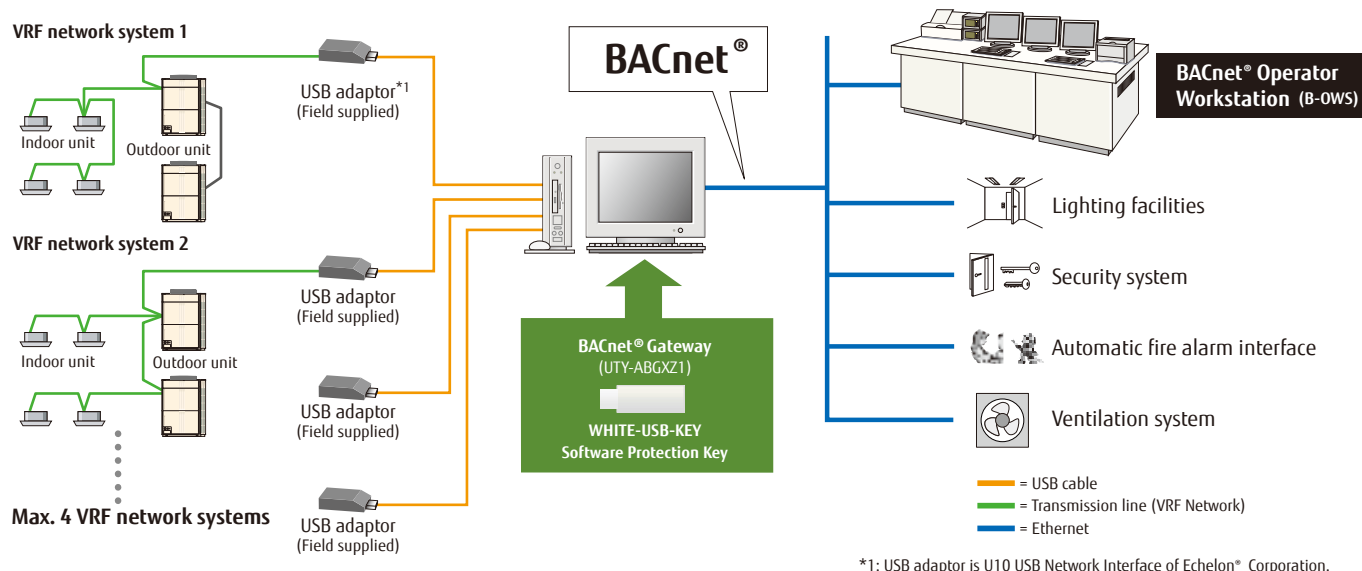
BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to the requirements of ASHRAE Standard 135 is the responsibility of BACnet International (BI). BTL is a registered trademark of BACnet International.



WHITE-USB-KEY
(Software Protection Key)

Functions

Installation example



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) - 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)

Max. controllable
1
VRF network system

Max. controllable
32
refrigerant system

Max. controllable
128
indoor units

UTY-VBGX

- BACnet® Gateway enables to connect a BMS and FG VRF system.
- A maximum of 128 indoor units and 32 refrigerant system can be connected to a single BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.

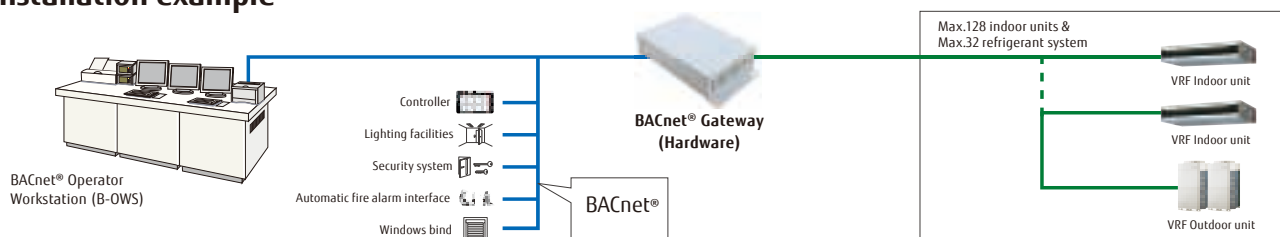


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Functions

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	100-240V 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 Converter for LONWORKS®

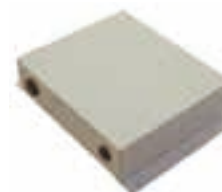
Max. controllable
4
Units to BMS

Max. controllable
128
indoor units

Max. controllable
100
outdoor units

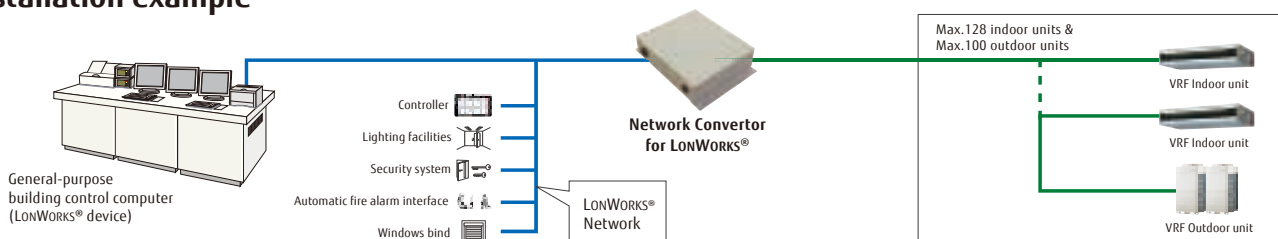
UTY-VLGX

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



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.)

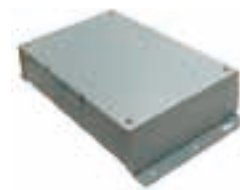
MODBUS® Convertor

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

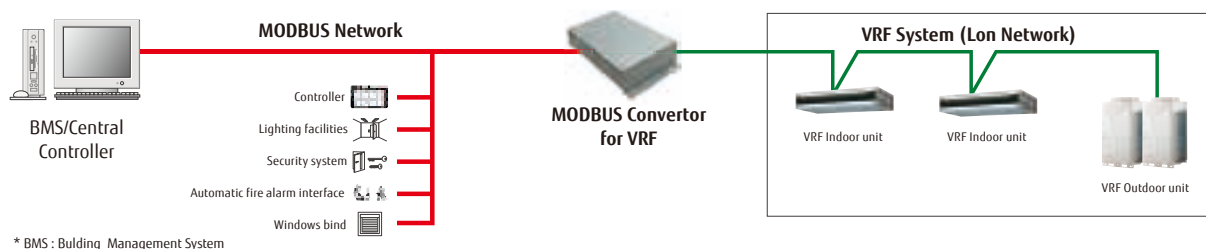
UTY-VMGX

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

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



Functions



Specifications

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

MODBUS® Interface

Max. controllable 1 Single indoor unit

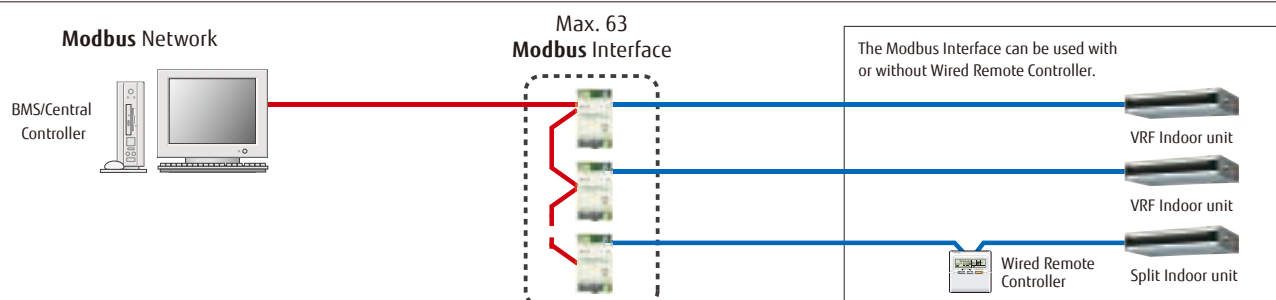
FJ-RC-MBS-1

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

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



Functions



Specifications

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

KNX® Convertor (for VRF)

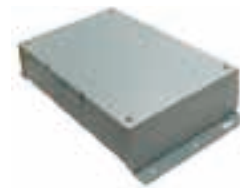
Max. controllable
128
indoor units

Max. controllable
100
outdoor units

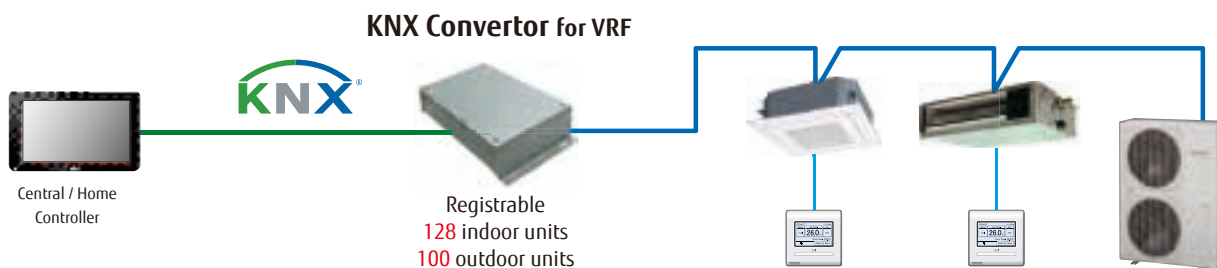
UTY-VKGX

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

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



Functions



Specifications

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

KNX® Interface

Max. controllable
1
group

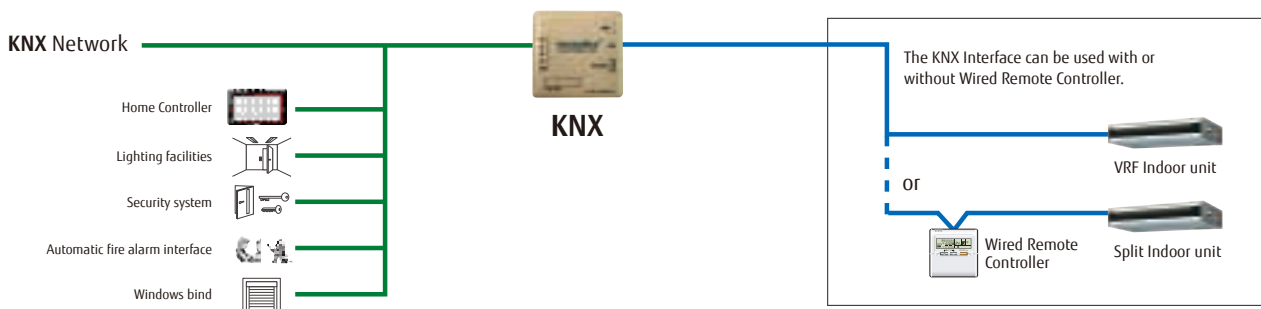
FJ-RC-KNX-1i

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

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



Functions



Specifications

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

Wireless LAN Interface

Max. controllable

1

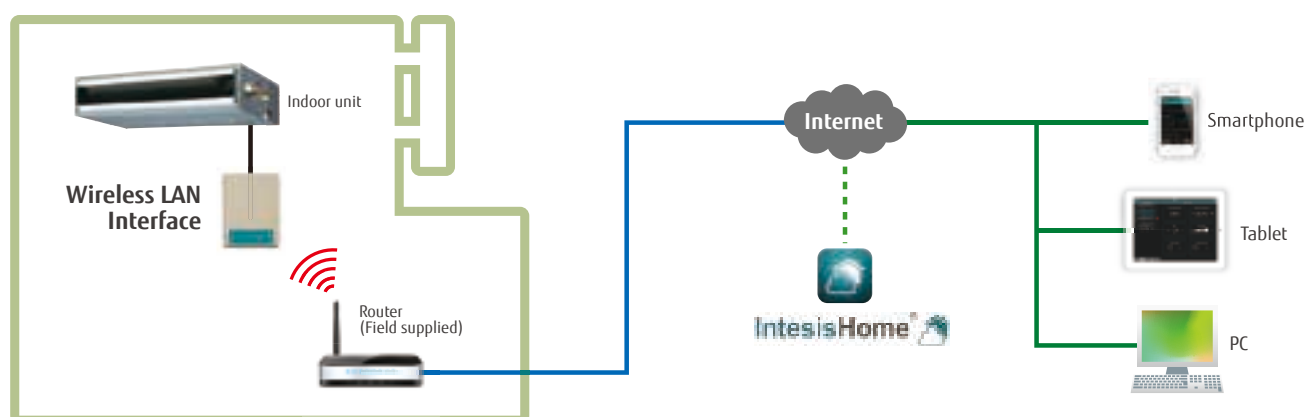
Single indoor unit

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



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)

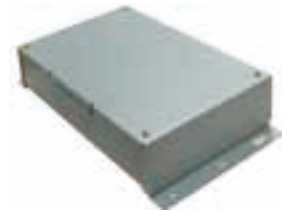
UTY-VTGXV (AC power supply type)

Compact remote controller provides access to basic functions

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



UTY-VTGX
DC power supply type



UTY-VTGXV
AC power supply type

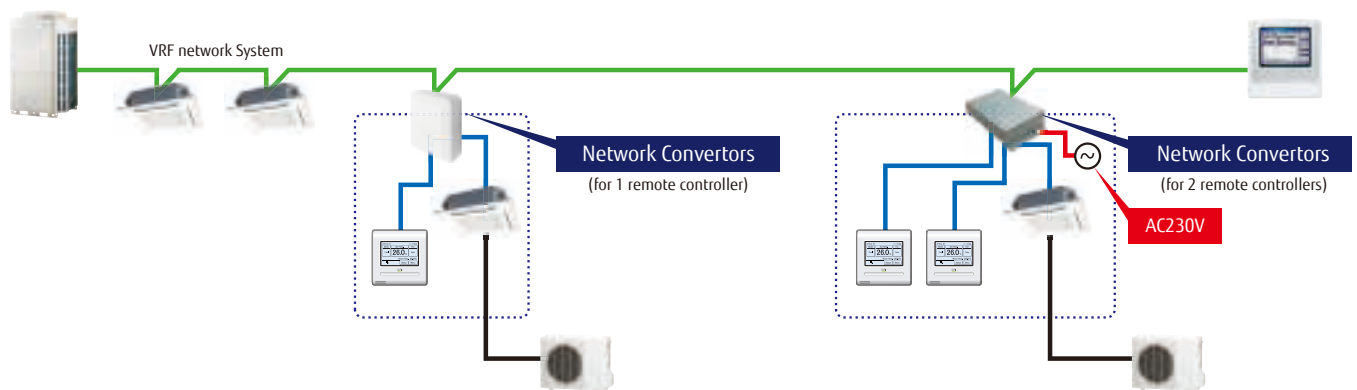
Max. controllable
16
single indoor units

Max. controllable
100
Network Convertors

Functions

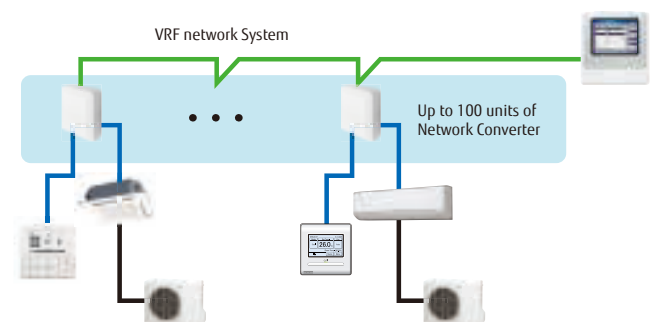
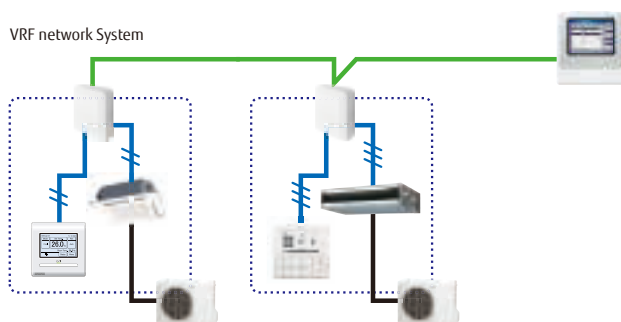
Installation example

- 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.

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



Specifications

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

External Switch Controller

Max. controllable

1
group

UTY-TERX

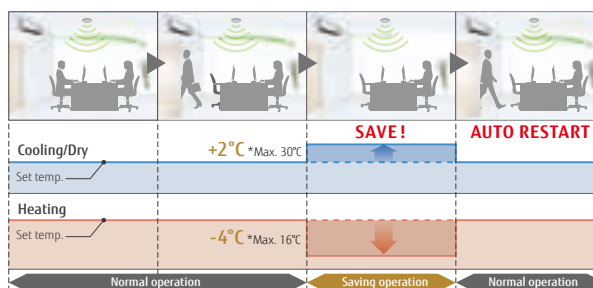
- In combination with a field supply Card-Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are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



Functions

Installation example

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



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

Specifications

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

DC12V is supplied by indoor unit.

Signal Amplifier

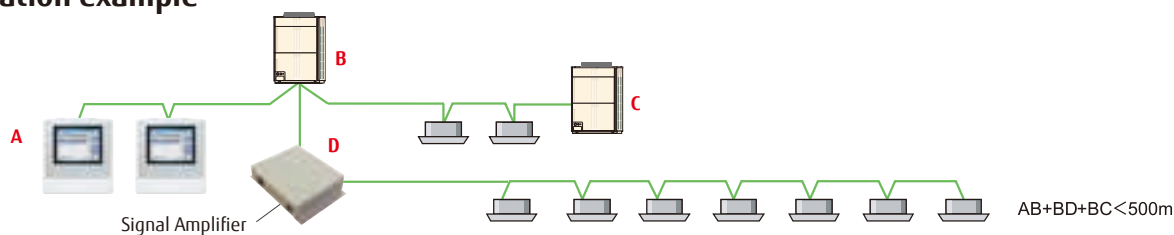
UTY-VSGXZ1

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



Functions

Installation example



Specifications

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

Thermostat Convertor

Max. controllable

16

Indoor units

UTY-TTRX **NEW**

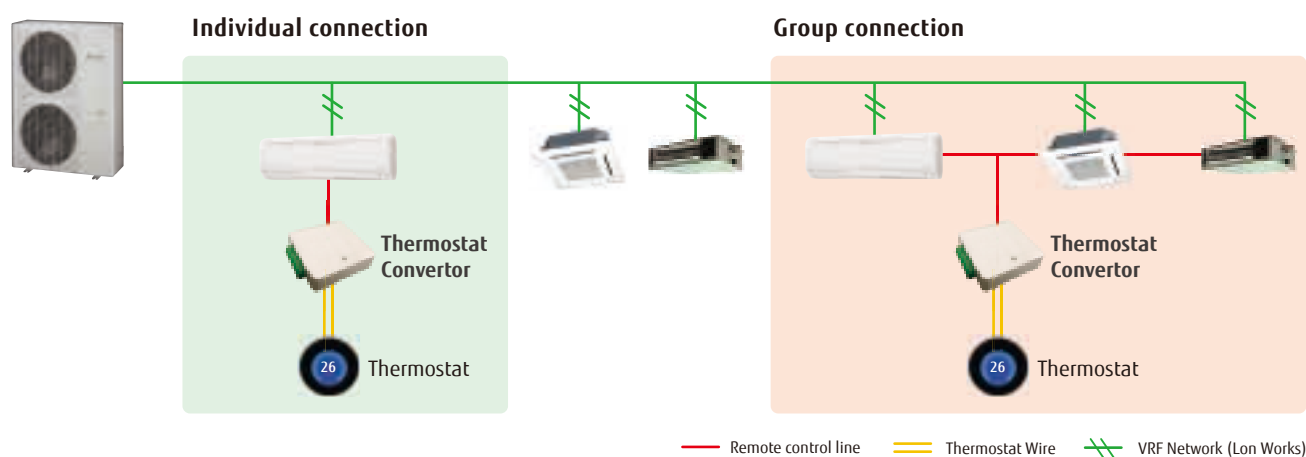
Control air conditioner using third party thermostat

- Thermostat convertor can control Fujitsu General products using a third party thermostat.
- Up to 16 indoor unit can be connected with one thermostat convertor.



Functions

Installation example



Function

Air Conditioning Control	ON/OFF
	Operation mode
	Room Temperature
	Fan Speed
	Delay OFF

Air Conditioning Control	Indoor unit Error notification*
	Convertor Error notification*

*These function are displayed on the convertor's PCB board.

Specifications

Model name	UTY-TTRX	
Max. Connectable Indoor Unit	16	
Input power (Max.)	W	0.6
Dimensions (H x W x D)	mm	27 × 86.7 × 86.7
Weight	g	220

A photograph of a modern office interior featuring glass partition doors. The doors are made of clear glass with silver-colored metal frames and handles. They are set in a hallway with a light-colored floor and ceiling. The lighting is bright, creating a clean and professional atmosphere. The word "VENTILATION" is overlaid in large white capital letters across the center of the image.

VENTILATION




EFFECTIVE HEAT EXCHANGE AND SIMULTANEOUS FRESH AIR VENTILATION

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

Outdoor Air Unit

DX-Kit for airhandling applications

Outdoor Air Unit range

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



AIRSTAGE[™]

Outdoor Air Unit

Models

ARXH054GTAH

ARXH072GTAH

ARXH096GTAH



ARXH054



ARXH072



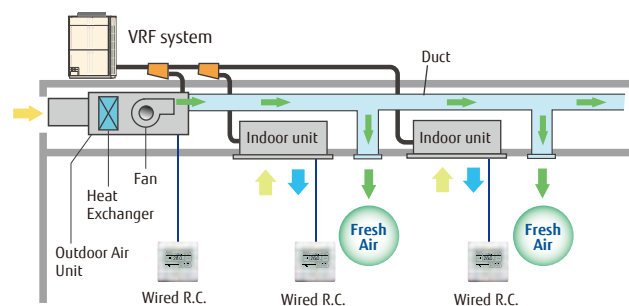
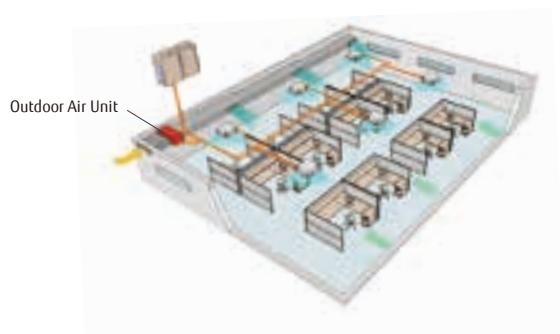
ARXH096

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.

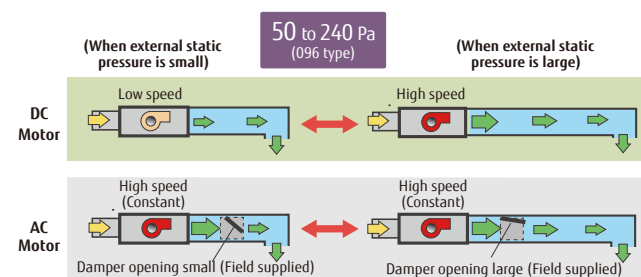
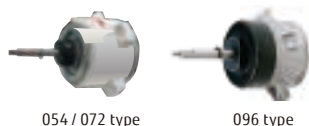
*1. Connectable VRF series: J-IIS



* 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.

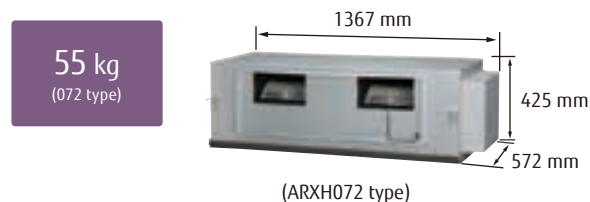
High energy savings and flexible duct design by using DC motor

- 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

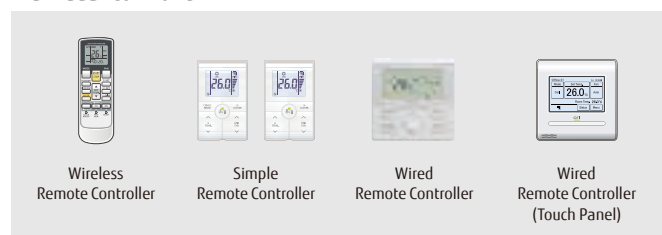
- Top class lightweight compact design at just 425 mm in height, 55 kg in weight for ARXH072 type. This unit can be installed easily even at narrow space.



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 m³/h	1500 m³/h	2000 m³/h
Model name			ARXH054GTAH	ARXH072GTAH	ARXH096GTAH
Power source		V/Ø/Hz	220-240V, 50Hz		
Capacity	Cooling	kW	14.0	22.4	28.0
	Heating		8.9	13.9	17.4
Input power	Cooling	W	179	292	370
	Heating		179	292	370
Airflow rate		m³/h	1,080	1,680	2,100
Static Pressure	Standard (range)	Pa	185 (50-185)	200 (50-200)	200 (50-240)
Sound Pressure Level		dB(A)	42	44	47
Dimensions (H × W × D)		mm	425 × 1,367 × 572	425 × 1,367 × 572	450 × 1,583 × 700
Weight		kg	48	55	71
Connection pipe diameter	Small	mm	9.52	12.70	12.70
	Large		19.05	22.22	22.22
Operation Range	Cooling	°CDB	5 to 43	5 to 43	5 to 43
	Heating		-7 to 21	-7 to 21	-7 to 21
Refrigerant			R410A	R410A	R410A

Note : Specifications are based on the following conditions.

Cooling : Outdoor temperature of 33°CDB / 28°CWB.

Heating : Outdoor temperature of 0°CDB / -2.9°CWB.

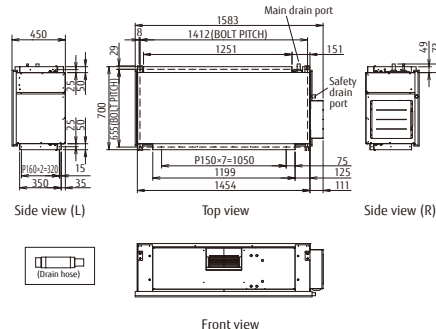
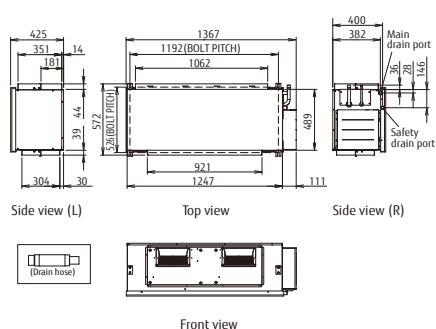
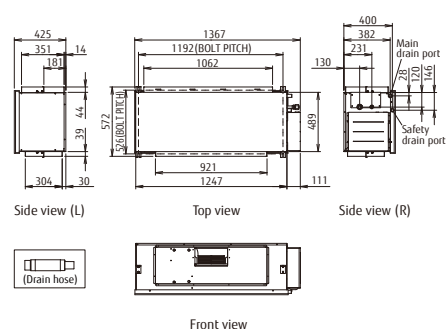
Pipe length : 7.5 m Voltage : 230 [V].

Dimensions (Unit: mm)

Model: ARXH054

Model: ARXH072

Model: ARXH096



DX-Kit for air handling applications

Models

Control unit
UTY-VDGX

EEV unit
UTP-VX30A
UTP-VX60A
UTP-VX90A

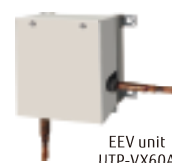
These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or, be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).



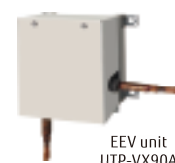
Control unit
UTY-VDGX



EEV unit
UTP-VX30A



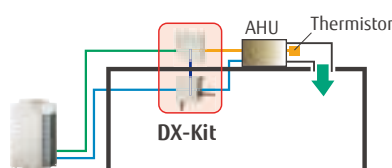
EEV unit
UTP-VX60A



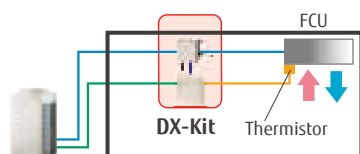
EEV unit
UTP-VX90A

Feature

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

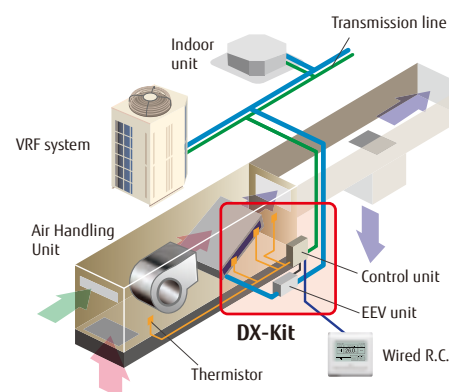


When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.



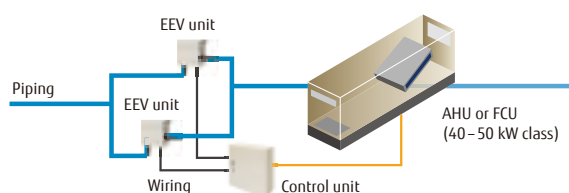
When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

Arrangement as part of a VRF system



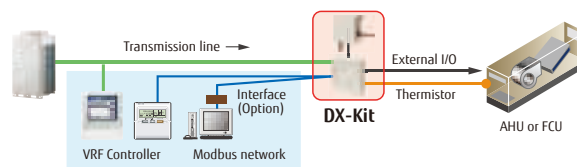
Supports a wide range of capacity classes

- 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

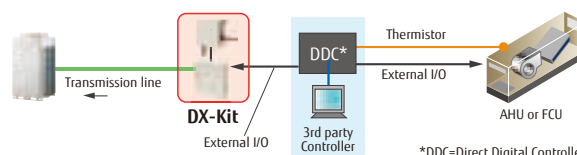


A variety of controls to match the application

- Central control using our VRF controllers or central management controllers



- Central control from external controllers



*DDC=Direct Digital Controller

Functions Summary

Inputs

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

Outputs

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

Modbus Control

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

Installation Limitation

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

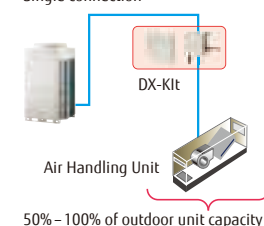
[For 2EEV units connection (option)]

- Separation Tube : UTP-LX180A

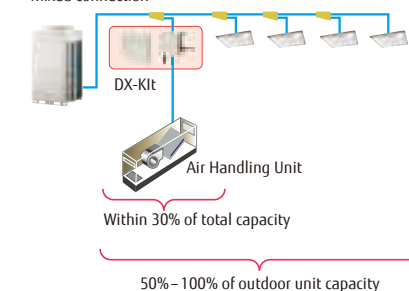


Connectable capacity

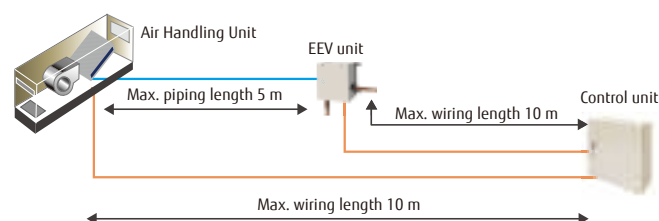
• Single connection



• Mixed connection



Piping and wiring length



Specifications

EEV unit			UTP-VX30A			UTP-VX60A			UTP-VX90A		UTP-VX90A×2		
Power source		V/Ø/Hz	230/1/50										
Connectable capacity class		kW	5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0	
Capacity	Cooling	kW	5.6 (5.1-5.9)	6.3 (6.0-7.1)	8 (7.2-9.0)	10 (9.1-11.1)	12.5 (11.2-13.2)	14 (13.3-18.0)	22.4 (18.1-23.7)	25 (23.8-28.0)	40 (28.1-44.7)	50.4 (44.8-50.4)	
	Heating		6.3 (5.7-6.7)	7.1 (6.8-8.0)	9 (8.1-10.0)	11.2 (10.1-12.4)	14 (12.5-15.0)	16 (15.1-20.0)	25 (20.1-26.5)	28 (26.6-31.5)	45 (31.6-49.9)	56.5 (50.0-56.5)	
Airflow Rate(Reference value)		m³/h	1,060	1,200	1,520	1,600	2,000	2,240	3,560	4,000	6,400	8,000	
Dimensions (H × W × D)		mm	160 × 220 × 90									(160 × 220 × 90)× 2	
Weight		kg	2									2 × 2	
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52	12.70	12.70	12.70	12.70	

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

Note : Specifications are based on the following conditions.

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

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

Pipe length : 7.5 m Voltage : 230 [V].



AIRSTAGE™ OPTION

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



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

Pressure Sensor Kit

Auto Louvre Grille Kit

CONTROL SYSTEM LIST

OPTIONAL PARTS LIST

OPTIONAL PARTS

FUNCTION LIST

SEPARATION TUBE etc.

AIRSTAGE™

Pressure Sensor Kit

Models

UTY-SPWX **NEW**



Features

Design Flexibility

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

(*This product can be used connected only V-III series. Also, it is possible to use only the outdoor unit that outdoor unit software is compatible with this product. The software for outdoor unit will be changed since production lot in January 2018.)

Total pipe length
1,000m max.

Actual pipe length
165m max.

Pipe length (First
separation tube to
farthest indoor unit)
90m max.

Height difference
50m max.

Height difference
between indoor units
15m max.

Actual pipe length
165m max.

Pipe length (First
separation tube to
farthest indoor unit)
90m max.

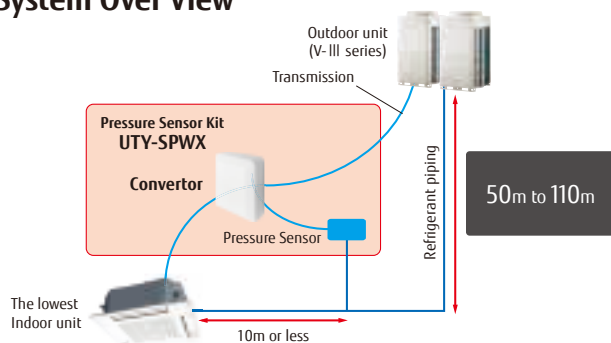
Total pipe length
1,000m max.

Height difference
110m max.

For the outdoor unit installed
below the indoor units :
40m max.

Height difference
between indoor units
15m max.

System Over View



Pressure Sensor Kit

Pressure sensor kit
(Converter)



Refrigerant
pressure sensor



Joint pipe



Specifications

Model name	UTY-SPWX	
Power Supply	DC16-9	
Dimensions (H x W x D)	mm	140×117×43
Weight	g	200

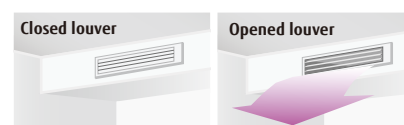
Auto Louver Grille Kit

Models

UTD-GXTA-W

UTD-GXTB-W

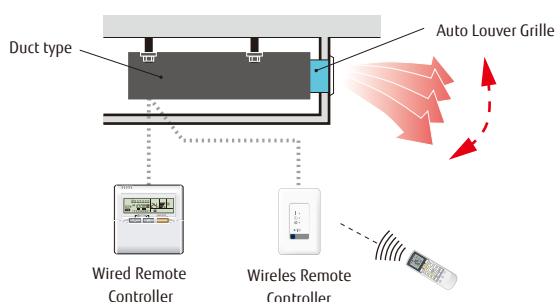
UTD-GXTC-W



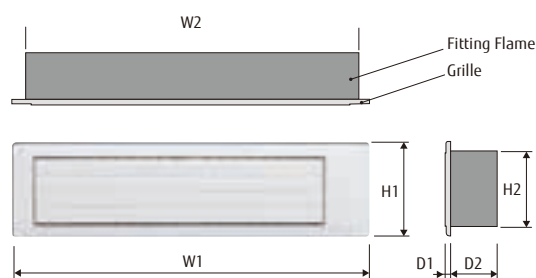
Feature

Flexible Control

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



Dimensions



Unit: mm						
Model Name	W1	W2	H1	H2	D1	D2
UTD-GXTA-W	683	645	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		ARXD18GALH		ARXD24GALH	
			ARXD07/09/12/14GATH		ARXD18GATH		ARXD24GATH	
			ARXK07/09/12/14GCLH		ARXK18GCLH		ARXK24GCLH	
			ARXK07/09/12/14GALH		ARXK18GALH		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)					
Dimensions (H × W × D)		mm	180 × 683 × (84+9)		180 × 883 × (84+9)		180 × 1083 × (84+9)	
Weight	Net	kg	2.0		2.5		3.0	
	Gross		3.0		3.5		4.0	
Color			White					
Louver Motor			Stepping Motor					
Accessories			Fitting Flame, etc.					
Operation Range	Cooling	°C	18 to 32					
		% RH	80% or less					
	Heating	°C	16 to 30					

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

CONTROL SYSTEM LIST









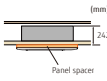



Controllers / Interface

Type			Indoor unit						
			Cassette				Duct		
			4-way Compact	4-way		Circular Flow		Mini (With drain pump)	Mini (Without drain pump)
			AUXB 07/09/12/14/18/24 GALH, AUXB 07/09/12/14/18/24 GATH	AUXD 18/24GALH	AUXA 18/24/30/34/ 36/45/54 GALH	AUXM 018/024GTAH	AUXK 018/024/030/034/ 036/045/054 GTAH	ARXK 07/09/12/14/18/24 GCLH	ARXK 07/09/12/14/18/24 GALH
Controllers	Wired Remote Controller		● UTY-RNRGZ2						
			● UTY-RLRG						
	Simple Remote Controller	 2-wire type  3-wire type	● 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	IR Receiver Unit			● UTY-LRHGB1		● UTY-LBHXD		● UTB-YWC	
	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	
	KNX Converter		● UTY-VKGX						
	KNX Interface			● FJ-RC-KNX-1i				● FJ-RC-KNX-1i	
	Wireless LAN Interface			● FJ-RC-WIFI-1				● FJ-RC-WIFI-1	
	External Switch Controller		● UTY-TERX						
	Network Converter for single split	 DC Power Supply Type  AC Power Supply Type	● UTY-VTGX, UTY-VTGXV						
	Thermostat converter		● UTY-TTRX						

Indoor unit								
Duct				Ceiling / Floor	Ceiling	Wall Mounted		
Slim (With drain pump)	Medium Static Pressure	High Static Pressure				—	EEV external	—
ARXD 07/09/12/14/18/24 GALH, ARXD 07/09/12/14/18/24 GATH	ARXA 24/30/36/45 GBLH, ARXA 24/30/36/45 GBTH	ARXC 36/72/90 GBTH, ARXC 96GATH	ARXC 45/60/72/90 GATH	ABHA 12/14/18/24 GATH	ABHA 30/36/45/54 GATH	ASHA 07/09/12/14 GACH, ASHA 07/09/12/14 GATH	ASHE 07/09/12/14 GACH	ASHA 18/24/30 GACH, ASHA 18/24/30 GATH
● UTY-RNRGZ2								
● UTY-RLRG								
● UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG								
● UTY-LNHG								
● UTY-CGGG + UTY-VGGXZ1								
● UTY-DCGG								
● UTY-DTGGZ1								
● UTY-APGXZ1, UTY-ALGXZ1								
● UTB-YWC								
● UTY-ABGXZ1, UTY-VBGX								
● UTY-VLGX								
● UTY-VMGX								
● FJ-RC-MBS-1	● FJ-RC-MBS-1 (ARXC45/60/72/90/96GATH only)			● FJ-RC-MBS-1				
● UTY-VKGX								
● FJ-RC-KNX-1i	● FJ-RC-KNX-1i (ARXC45/60/72/90/96GATH only)			● FJ-RC-KNX-1i				
● FJ-RC-WIFI-1	● FJ-RC-WIFI-1 (ARXC45/60/72/90/96GATH only)			● FJ-RC-WIFI-1				
● UTY-TERX								
● UTY-VTGX, UTY-VTGXV								
● UTY-TTRX								

OPTIONAL PARTS LIST

Others










Type		Indoor unit						
		Cassette				Duct		
		4-way Compact	4-way		Circular Flow		Mini (With drain pump)	Mini (Without drain pump)
		AUXB 07/09/12/14/18/24 GALH, AUXB 07/09/12/14/18/24 GATH	AUXD 18/24GALH	AUXA 18/24/30/34/ 36/45/54 GALH	AUXM 018/024GTAH	AUXK 018/024/030/034/ 036/045/054 GTAH	ARXK 07/09/12/14/18/24 GCLH	ARXK 07/09/12/14/18/24 GALH
Others	Human Sensor Kit					● UTY-SHZXC		
	Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.					● UTY-XSZX	
	Cassette Grille	 UTG-UFGC-W UTG-UGGA-W UTG-UKGD-W UTG-UKGA-B	● UTG-UFGC-W	● UTG-UGGA-W		● UTG-UKGD-W UTG-UKGA-B		
	Auto Louver Grille Kit						● UTD-GXTA-W UTD-GXTB-W(18) UTD-GXTC-W(24)	
	Long Life Filter							
	Flange							
	Drain Pump Unit							
	Wide Panel	 Indoor unit 950 Panel 600 600 (mm)		● UTG-AKXA-W UTG-AGYA-W		● UTG-AKXA-W		
	Panel Spacer	 (mm) 242 Panel spacer		● UTG-BKXA-W UTG-BGYA-W		● UTG-BKXA-W		
	Air Outlet Shutter Plate	 For Compact Cassette For Cassette	● UTR-YDZB	● UTR-YDZK		● UTR-YDZK		
	Insulation for High Humidity	 For Compact Cassette type / Cassette type	● UTZ-KXGC	● UTZ-KXRA		● UTZ-KXRA		
	Pressure Sensor Kit for V-III series*							

Indoor unit								Outdoor unit	
Duct				Ceiling / Floor	Ceiling	Wall Mounted			V-III Tropical
Slim (With drain pump)	Medium Static Pressure	High Static Pressure				—	EEV external	—	
ARXD 07/09/12/14/18/24 GALH, ARXD 07/09/12/14/18/24 GATH	ARXA 24/30/36/45 GBLH, ARXA 24/30/36/45 GBTH	ARXC 36/72/90 GBTH, ARXC 96GATH	ARXC 45/60/72/90 GATH	ABHA 12/14/18/24 GATH	ABHA 30/36/45/54 GATH	ASHA 07/09/12/14 GACH, ASHA 07/09/12/14 GATH	ASHE 07/09/12/14 GACH	ASHA 18/24/30 GACH, ASHA 18/24/30 GATH	AJH 072/090/108/ 126/144/162 LNTCH
● UTY-XSZX									
● UTD-GXTA-W UTD-GXTB-W(18) UTD-GXTC-W(24)									
	● UTD-LF25NA	● UTD-LF60KA(36/45/60)							
	● UTD-SF045T UTD-RF204				● UTD-RF204				
	● UTZ-PX1NBA				● UTR-DPB24T				
									● UTY-SPWX




OPTIONAL PARTS

Controllers

For Individual Control



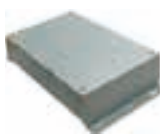

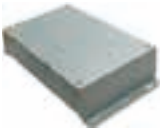



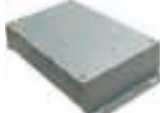





Wired Remote Controller (Touch Panel) UTY-RNRGZ2 	Wired Remote Controller UTY-RLRG 	Simple Remote Controller UTY-RSRG With operation mode 
Simple Remote Controller UTY-RHRG Without operation mode 	Wireless Remote Controller UTY-LNHG 	IR Receiver Unit UTB-YWC For All Duct types except Large Airflow Duct 
IR Receiver Unit UTY-LRHGB1 For Cassette type 	IR Receiver Unit UTY-LBHXD For Circular Flow Cassette type 	Human Sensor Kit UTY-SHZXC For Circular Flow Cassette type 

For Centralized Control

Group Remote Controller UTY-CGGG 	Central Remote Controller UTY-DCGG 	Touch Panel Controller UTY-DTGGZ1 Option UTY-PTGXA 
System Controller Lite Software UTY-ALGXZ1 WHITE-USB-KEY (Software Protection Key) Option UTY-PLGXR2 UTY-PLGXA2 UTY-PLGXE2 UTY-PLGXX2 	System Controller Software UTY-APGXZ1 WHITE-USB-KEY (Software Protection Key) Option UTY-PEGXZ1 	

Convertors / Adaptors

For External device / System expansion

BACnet® Gateway Software UTY-ABGXZ1 WHITE-USB-KEY (Software Protection Key) 	Network Convertor for LONWORKS® UTY-VLGX 	MODBUS® Convertor for VRF UTY-VMGX 
MODBUS® Interface FJ-RC-MBS-1 	KNX® Convertor for VRF UTY-VKGX 	KNX® Interface FJ-RC-KNX-1i 
Wireless LAN Interface FJ-RC-WIFI-1 	Network Convertor for single split UTY-VTGX DC power supply type 	Network Convertor for single split UTY-VTGXV AC power supply type 
Network Convertor for Group Remote Controller UTY-VGGXZ1 	External Switch Controller UTY-TERX 	Signal Amplifier UTY-VSGXZ1 
Thermostat convertor NEW UTY-TTRX 	Pressure Sensor Kit for V-III tropical series* NEW UTY-SPWX 	

OPTIONAL PARTS

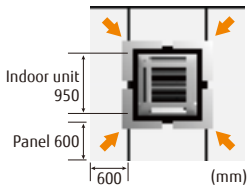
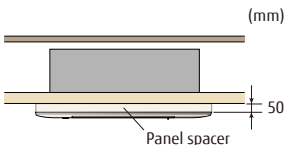
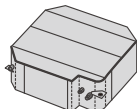


Panels

For Cassette type

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

Others

For Cassette type








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

For Ceiling type










Drain Pump Unit UTR-DPB24T For Ceiling type 		
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Others

For Duct type

Flange (Round) UTD-RF204 For Medium Static Pressure Duct type / Ceiling type 	Flange (Square) UTD-SF045T For Medium Static Pressure Duct type 	Remote Sensor Unit UTY-XSZX For All Duct type New amenity space can be offered by installing the Remote sensor. 
Long-Life Filter UTD-LF25NA For Medium Static Pressure Duct type  UTD-LF60KA For High Static Pressure Duct type 	Auto Louver Grille Kit UTD-GXTA-W (for ARXD07/09/12/14, ARXK07/09/12/14) UTD-GXTB-W (for ARXD18, ARXK18) UTD-GXTC-W (for ARXD24, ARXK24) For Slim Duct type / Mini Duct type 	Drain Pump Unit UTZ-PX1NBA For Medium Static Pressure Duct 

Communication system: External Connect Kit

For Indoor unit			For Outdoor unit
UTY-XWZXZ7		UTY-XWZXZD	
UTY-XWZXZB		UTY-XWZXZE	
UTY-XWZXZC			
For Central Remote Controller		For Touch Panel Controller	
UTY-XWZXZ7		UTY-XWZXZA	
UTY-XWZXZ8			
UTY-XWZXZA			

FUNCTION LIST

Type		Indoor unit									
		Cassette					Duct				
		4-way Compact	4-way		Circular Flow		Mini (With drain pump)	Mini (Without drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure
		AUXB 07/09/12/14/18/24 GALH, AUXB 07/09/12/14/18/24 GATH	AUXD 18/24GALH	AUXA 18/24/30/34/ 36/45/54 GALH	AUXM 018/024GTAH	AUXK 018/024/030/034/ 036/045/054 GTAH	ARXK 07/09/12/14/18/24 GCLH	ARXK 07/09/12/14/18/24 GALH	ARXD 07/09/12/14/18/24 GALH, ARXD 07/09/12/14/18/24 GATH	ARXA 24/30/36/45 GBLH, ARXA 24/30/36/45 GBTH	ARXC 36/72/90 GBTH, ARXC 96GATH
Input	Operation / Stop	●UTY-XWZXZD ○UTY-XWZXZB									
	All On / All Off										
	Batch Stop										
	Forced Stop	●UTY-XWZXZD ○UTY-XWZXZB									
	Emergency Stop	●UTY-XWZXZD ○UTY-XWZXZB									
	Forced Thermostat off	●UTY-XWZXZE ○UTY-XWZXZ7									
	Low Noise Mode Operation										
	Cooling/ Heating Priority										
	Outdoor Unit Operation Peak Control										
	Power Usage Information from Electricity Meter										
Output	Operation Status	●UTY-XWZXZC									
	Error Status	●UTY-XWZXZC									
	Indoor Unit Fun Operation Status	●UTY-XWZXZC									
	Auxiliary Heater Output						●UTY-XWZXZC				
	Base Heater										

Indoor unit						Outdoor unit		Controller	
Duct	Ceiling / Floor	Ceiling	Wall Mounted			J-III Tropical	V-III Tropical	Central Remote Controller	Touch Panel Controller
High Static Pressure			—	EEV external	—				
ARXC 45/60/72/90 GATH	ABHA 12/14/18/24 GATH	ABHA 30/36/45/54 GATH	ASHA 07/09/12/14 GACH, ASHA 07/09/12/14 GATH	ASHE 07/09/12/14 GACH	ASHA 18/24/30 GACH, ASHA 18/24/30 GATH	AJH 040/045/054 LBTAHN, AJH 040/045/054 LETAHN	AJH 072/090/108/ 126/144/162 LNTCH	UTY-DCGG	UTY-DTGGZ1
●UTY-XWZXZD ○UTY-XWZXZB									
								●UTY-XWZXZ7 ○UTY-XWZXZ8	●*2 ○*2
							●UTY-XWZXZ6		
●UTY-XWZXZD ○UTY-XWZXZB									
●UTY-XWZXZD ○UTY-XWZXZB							●UTY-XWZXZ6	●UTY-XWZXZ7 ○UTY-XWZXZ8	●*2 ○*2
●UTY-XWZXZE ○UTY-XWZXZ7									
							●UTY-XWZXZ6		
							●UTY-XWZXZ6		
							●UTY-XWZXZF		●*2 ○*2
●UTY-XWZXZC							○UTY-XWZXZ6	○UTY-XWZXZA	
●UTY-XWZXZC							○UTY-XWZXZ6	○UTY-XWZXZA	
●UTY-XWZXZC									
●UTY-XWZXZC									
							●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





SEPARATION TUBE etc.

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>	
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Outdoor Unit Branch Kit

<p>UTP-CX567A</p> <p>Gas Pipe </p> <p>Liquid Pipe </p>		
--	--	--

EV Kit

<p>Model code \leq 09 : UTR-EV09XB</p> <p>Model code \geq 12 : UTR-EV14XB</p> <p>For Compact Wall Mounted type</p> 		
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Specifications

Separation Tube

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

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

Header

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

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

Outdoor unit Branch kit

Model name		UTP-CX567A (for V-III Tropical)
Model name	2 outdoor units	1
	3 outdoor units	2

EV Kit

Model name		UTR-EV09XB	UTR-EV14XB
Application Code		ASHE007GTAH ASHE009GTAH	ASHE012GCAH ASHE014GCAH

Reducer kit

Model name		UTP-NX18A	UTP-NX54A
Applicable Model		AUXK018GTAH AUXM018GTAH AUGK018GTAH AUGM018GTAH	AUXK036/045/054GTAH AUXM036/045/054GTAH

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

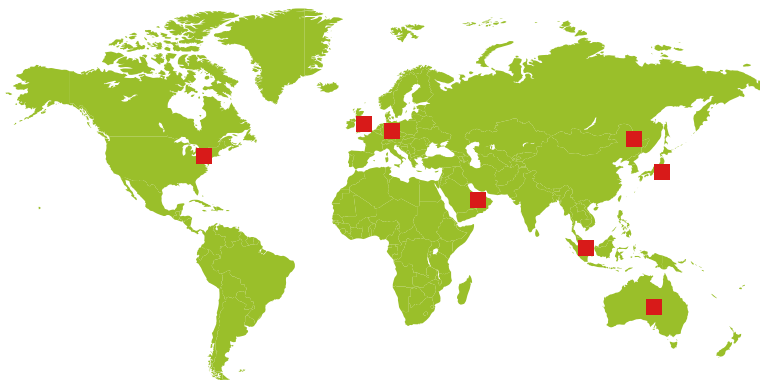
Fujitsu General provides a variety of product and technical information to engineers and consultants, and also conducts new product research and design support activities. We provide a wide range of support to maintain high quality from design to installation.

Training

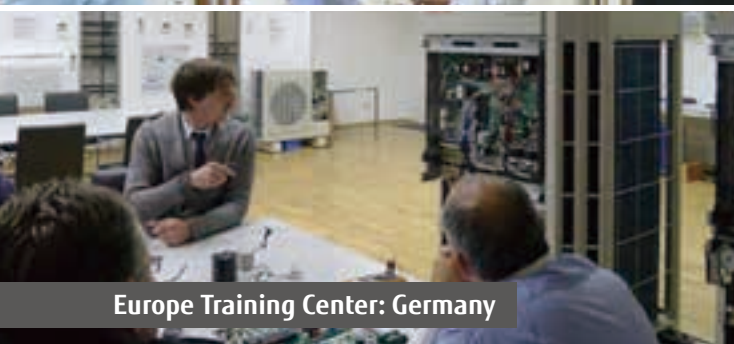
Fujitsu General has many training facilities around the world that regularly conduct specialized product, technical, and service training. These research facilities also support the development of people with high technical capability.

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



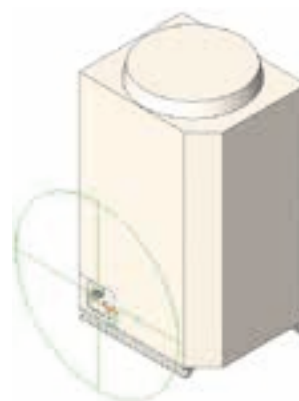
Oceania Training Center: Australia

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

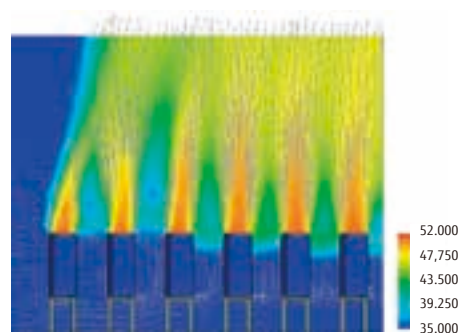


Technical support

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

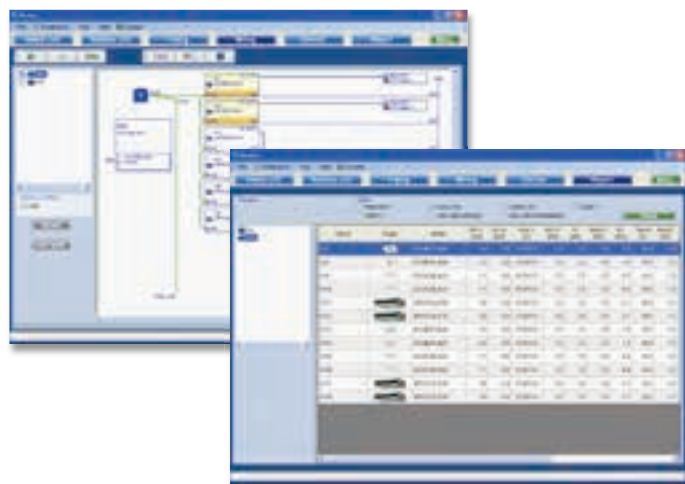
AIRSTAGE™ /RAC SUPPORT TOOL

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

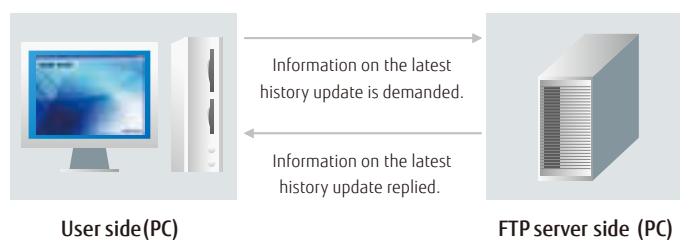
The information specific to your project can be exported in a number of industry standard file formats.

- 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.

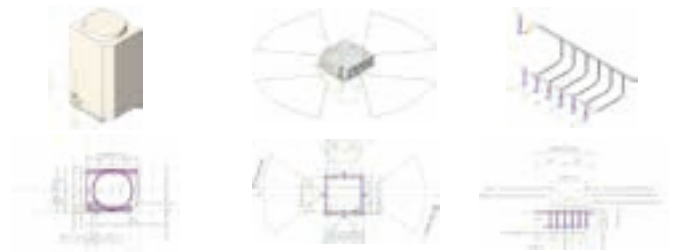
3D and 2D product data

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

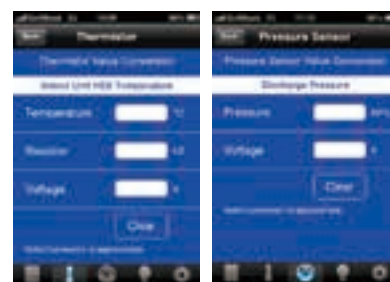


We will release an App of troubleshooting tool for iPhone, iPod touch and other Apple products. This application is a troubleshooting tool for Fujitsu General air conditioner (RAC/PAC, VRF)

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



Mobile Technician **FREE**



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.

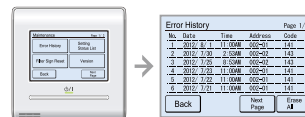
- Operation mode status
- Discharge temperature/Pressure status
- Compressor operation indication
- Address/Type/Number of outdoor unit
- Error code.

7-segment LED

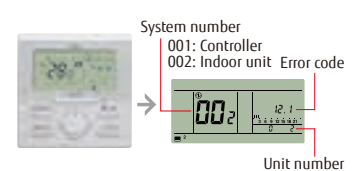


Wired Remote Controller (Touch panel)

Error status/Error history



Wired Remote Controller



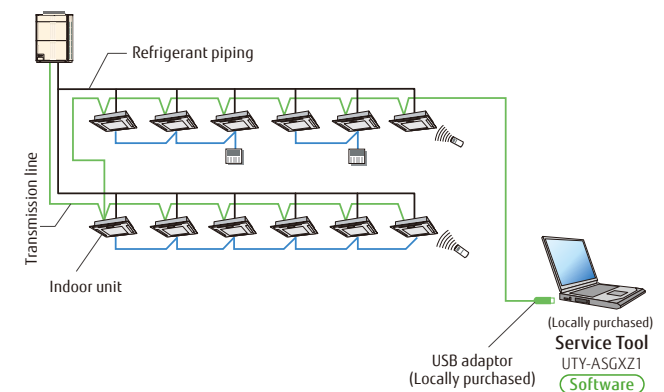
Error diagnosis by Service Tool

Error diagnosis by Service Tool

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

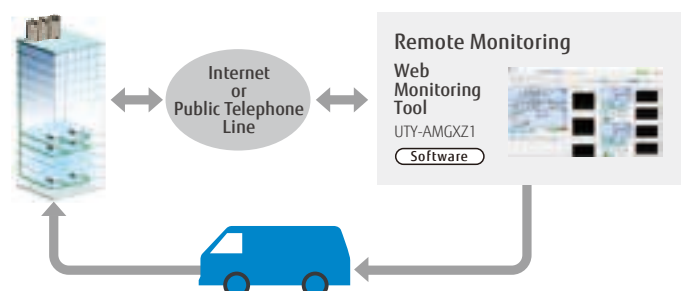
Quick countermeasures can be taken

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

UTY-ASGXZ1

Extensive monitoring and analysis functions for installation and maintenance

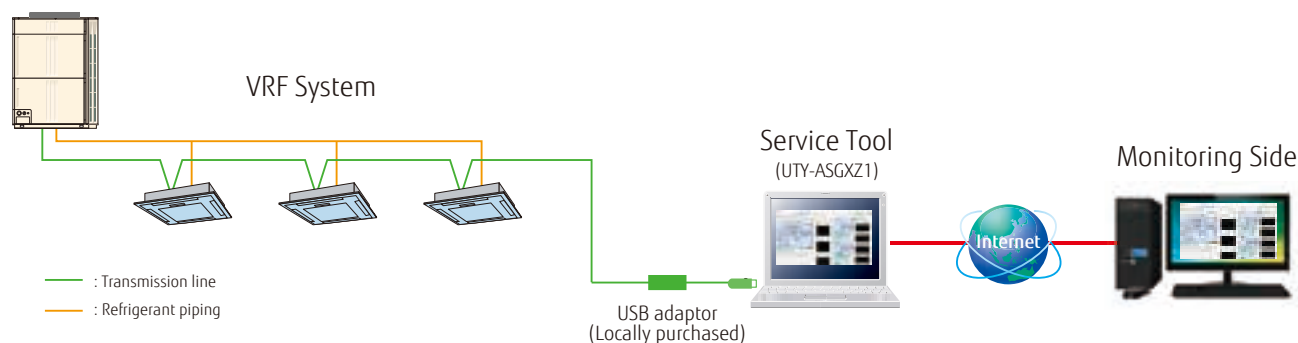
- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
-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

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

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

Functions

System Over View



Automatic operation check for refrigeration cycle

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



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

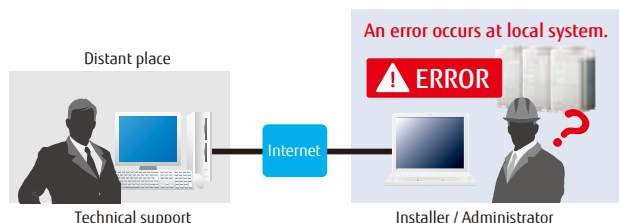
Whether each sensor value is normal is judged automatically.

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



Remote technical support & maintenance

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




Various trend graph display

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



NEW Custom Auto Function



Mode	Set Temp.(°C)	
Cool (Main)	•	
Custom Auto	28	23
Custom Auto	28	23

Custom Auto operation display



Custom Auto	Cool	24	°C
	Heat	20	°C
	Deadband	1.5	°C

Custom Auto setting

Function summary

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

Personal computer system requirements

	UTY-ASGXZ1
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® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Display	1366 x 768 or higher resolution
Interface	• USB port for U10 USB Network Interface and Software protection key
Software	Internet Explorer® 11 or Microsoft Edge

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

<PACKING LIST>

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

• Personal computer that satisfies the following system requirements

WEB MONITORING TOOL

UTY-AMGXZ1

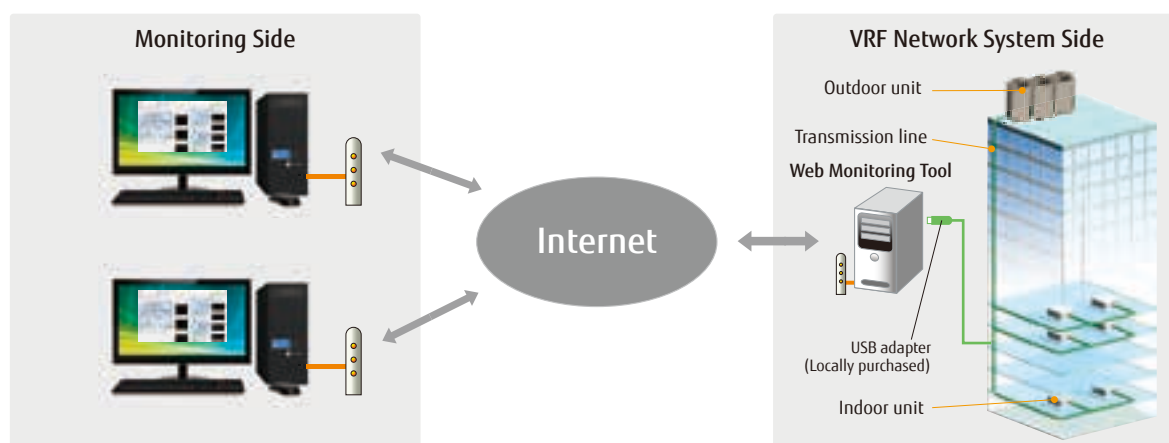
Product features

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

*1: Use of internet mail system required.

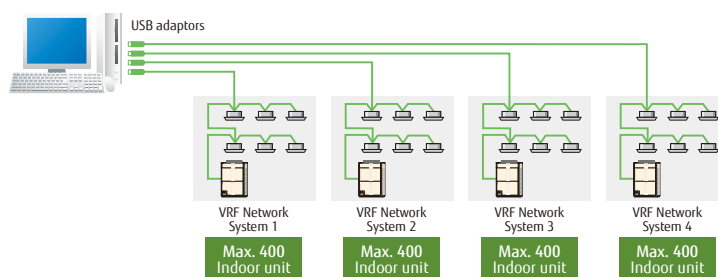
Functions

Web Monitoring System

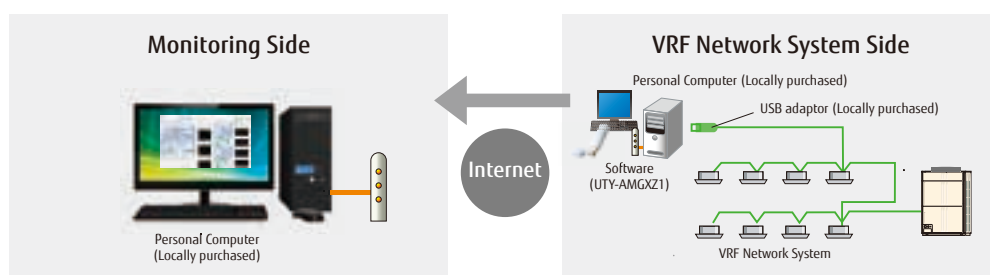


Support 4 VRF network systems


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



System components



NEW Custom Auto Function



Mode	Set Temp.(°C)	
Cool (Main)	•	
Custom Auto	28	23
Custom Auto	28	23

Custom Auto operation display



Custom Auto	Cool	24	°C
	Heat	20	°C
	Deadband	1.5	°C

Custom Auto setting

Function summary

	UTY-AMGXZ1
Interchangeability of equipment	●
Indication of equipment list	●
Operation control	●
Indication of refrigerant circuit diagram	●
Commissioning tool	●
Storage and CSV output of operating history (sensor data)	●
Indication of trend graph	●
Printing of trend graph	●
Monitoring and screen display of abnormalities	●
E-mail automatic transmission of abnormalities	●
Network Topology Analyzer	●
Remote Setting	●
System Time Setting	●
Central Release	●
Model Name Writer	—
Error Memory Reader	—
Time Guard Information	●
Automatic operation check for refrigeration cycle	—
Many different kinds of graph display	●
Automatic update of software	●
NEW Custom Auto function	●
NEW Display of individual louver control function	●
NEW Display of human sensor control function	●

Personal computer system requirements

	UTY-AMGXZ1
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® 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"> - Public Telephone Line: Modem is required - Internet using LAN: Ethernet port is required
Software	Internet Explorer® 11 or Microsoft Edge

• 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.

• Personal computer that satisfies the following system requirements

Variable Refrigerant Flow System

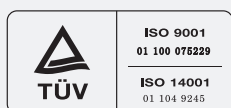
AIRSTAGE™

TROPICAL SPEC

HEAT PUMP

VRF CATALOGUE 2018-2019

for Middle East



ISO 9001
Certified number: 01 100 075229
Fujitsu General (Thailand) Co., Ltd.

ISO 14001
Certified number: 01 104 9245



ISO 9001
Certified number: 01 100 79269



ISO 14001
Certified number: CNB312244-UK
Fujitsu General (Shanghai) Co., Ltd.



ISO 9001
Certified number: 15917020073R5M
Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.

ISO 14001
Certified number: 15915E10020R4M

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