

Variable Refrigerant Flow System  
**AIRSTAGE™**

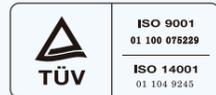


HEAT PUMP  
VRF CATALOGUE

for Middle East

AIRSTAGE TROPICAL SPEC HEAT PUMP VRF CATALOGUE

FUJITSU GENERAL LIMITED



ISO 9001 Certified number: 01 100 075229  
ISO 14001 Certified number: 01 104 9245  
Fujitsu General (Thailand) Co., Ltd.



ISO 9001 Certified number: 01 100 79269  
Fujitsu General (Shanghai) Co., Ltd.



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



ISO 9001 Certified number: 15917020073R5M  
ISO 14001 Certified number: 15918E20021R5M  
Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.

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- For further details, please check with our authorised dealer.
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**AIRSTAGE™**



HEAT PUMP  
VRF CATALOGUE

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FUJITSU GENERAL LIMITED

## FUJITSU GENERAL Way

### Our Mission

# Living together for our future

Through innovation and technology, we deliver a brighter future with the peace of mind to our customers and societies around the world.

### Our Philosophy

#### Act Spontaneously

We embrace new challenges by investing in ourselves for personal growth, and through continuous creativity with a spontaneous attitude.

#### Develop Our Team

We respect and value our people, and optimize their abilities through fostering culture and diversity, and utilizing a collaborative effort focused on communication.

#### Value Integrity

To achieve our goals, we always act with integrity and shared ethics.

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#### For SMALL BUILDING 46

### AIRSTAGE™ J-III TROPICAL

Heat Pump type for heating or cooling operation

4 HP - 6 HP 6 Models

• Single phase: 4 HP to 6 HP/3 models

• 3 phase: 4 HP to 6 HP/3 models

#### For LARGE BUILDING 50

### AIRSTAGE™ V-III TROPICAL

Production by order

Heat Pump Modular type for heating or cooling operation

8 HP - 54 HP 39 Models

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

• Energy efficiency combination: 16 HP to 46 HP/15 models

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# 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

<p><b>2001</b> 10HP / Heat recovery &amp; Heat pump</p> <p><b>2003</b> 10HP / Heat recovery 8, 10HP / Heat pump &amp; Cooling</p>  <p><b>AIRSTAGE S</b></p>	<p><b>2007</b> 8 to 42HP / Heat pump</p>  <p><b>AIRSTAGE V</b></p>	<p><b>2009</b> High efficiency and Compact design model Extensive lineup from 8HP to 48HP in 2HP increment / Heat pump</p>  <p><b>AIRSTAGE V-II</b></p>	<p><b>2012</b> High efficiency and Compact design model 8 to 48HP / Heat Recovery</p>  <p><b>AIRSTAGE VR-II</b></p>	<p><b>2013</b> Tropical spec model Extensive lineup from 8HP to 42HP in 2HP increment / Heat pump</p>  <p><b>AIRSTAGE V-II TROPICAL</b></p>	<p><b>2015</b> High efficiency and large capacity model. Extensive lineup from 8HP to 54HP in 2HP increment / Heat pump</p>  <p><b>AIRSTAGE V-III</b></p>	<p><b>2016</b> Tropical spec model Extensive lineup from 8HP to 54HP in 2HP increment / Heat pump</p>  <p><b>AIRSTAGE V-III TROPICAL</b></p>
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## For Residential & Light Commercial Use

<p><b>2004</b> Small VRF Series is released. 6HP / Heat pump</p>  <p><b>AIRSTAGE J</b></p>	<p><b>2011</b> High efficiency and small capacity model 4HP to 6HP / Heat pump</p>  <p><b>AIRSTAGE J-II</b></p>	<p><b>2014</b> High efficiency and compact design model 4HP to 6HP / Heat pump</p>  <p><b>AIRSTAGE J-IIS</b></p>	<p><b>2016</b> High efficiency and small capacity model 4HP to 6HP / Heat pump</p>  <p><b>AIRSTAGE J-III</b></p>
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**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



### AIRSTAGE™ History

1936 Established as Yaou Shouten Ltd. - 2016

2017

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.

**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

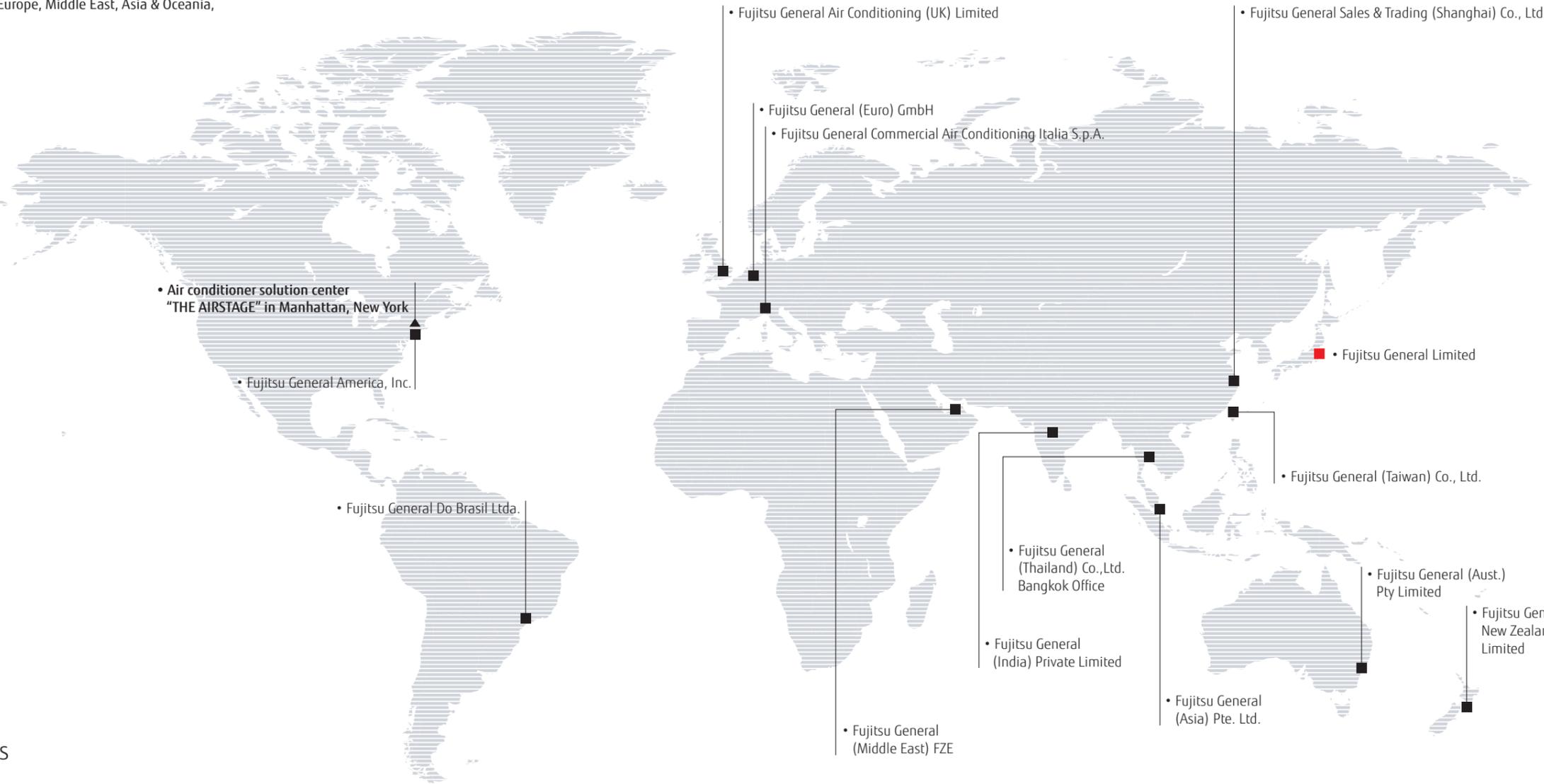
Promoting Globalization from a global perspective while emphasizing the actual local situation in the field under the aim of advancing our five-base system (Europe, Middle East, Asia & Oceania, America, and Japan)



JAPAN Head Office



Technology Research Building (Japan)



14 Overseas Sales Companies



Fujitsu General Sales & Trading (Shanghai) Co., Ltd.



Fujitsu General (EURO) GmbH (Germany)



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



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



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



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



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



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 (India) Private Limited



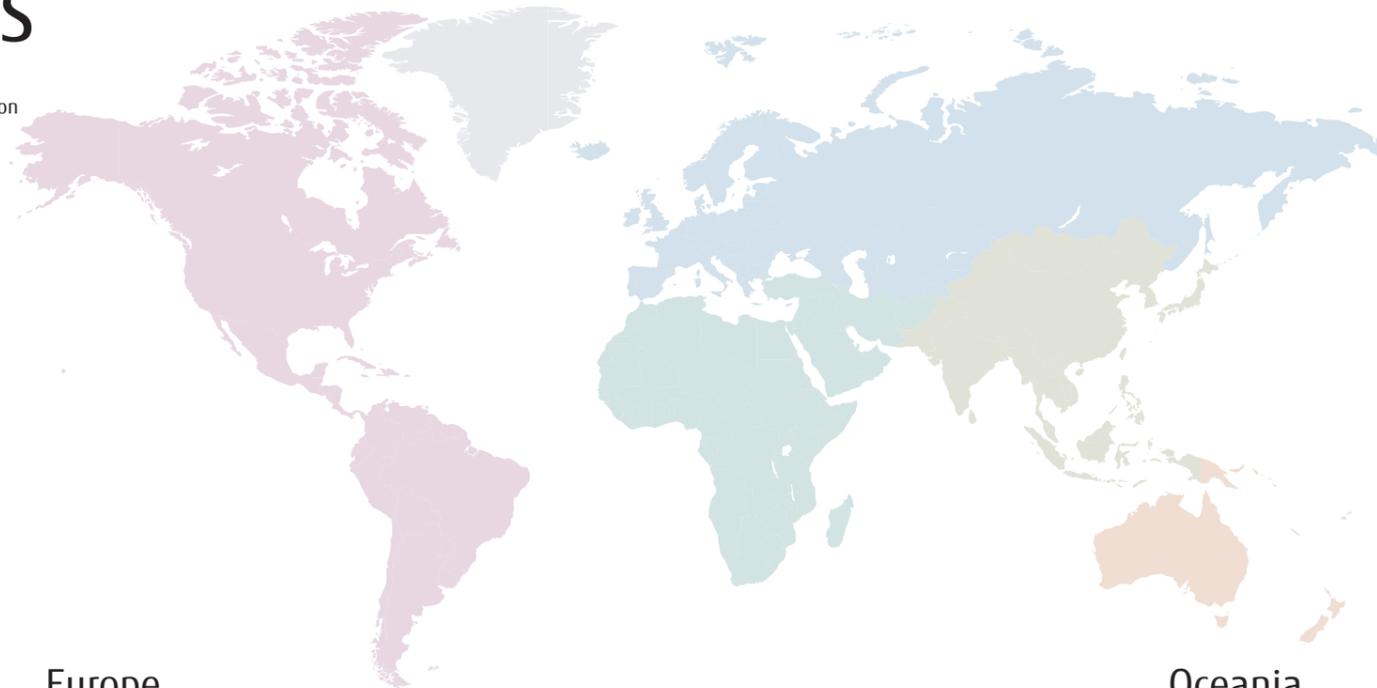
Fujitsu General America, Inc. (U.S.A.)



FUJITSU GENERAL SOLUTION CENTER "THE AIRSTAGE" (U.S.A.)

# 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



Exhibition



Dealer Convention in Kuwait



Technical seminar



Training for dealers

## Europe



HVAC trade show in Europe countries



Presentation & training



HVAC trade show in Europe countries



ACR Show



## Oceania



HVAC trade show in Australia



Charity (Christchurch)



Service & Maintenance

## Asia



New Product Presentation Meeting



Dealer Convention in Thailand



Training



Call center

## International authoritative design awards



"Dealer Design Awards" of "the NEWS"



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



TOP OF MIND 2016<sup>®</sup> First prize in "MARCA DE EQUIPAMENTODE AR-CONDICIONADO" category of "CLIMATIZACAO" division



Super brand is the world's largest independent arbiter of branding



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



reddot winner 2020

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"



Canstar Blue Most Satisfied Customers Award



China State Construction Engineering Luban Prize

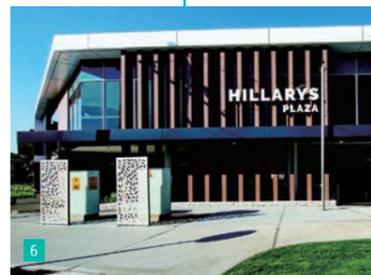


The Good Design Award is sponsored by the Japan Institute of Design Promotion and is awarded once a year for an item of excellent design.

# PROJECT REFERENCE

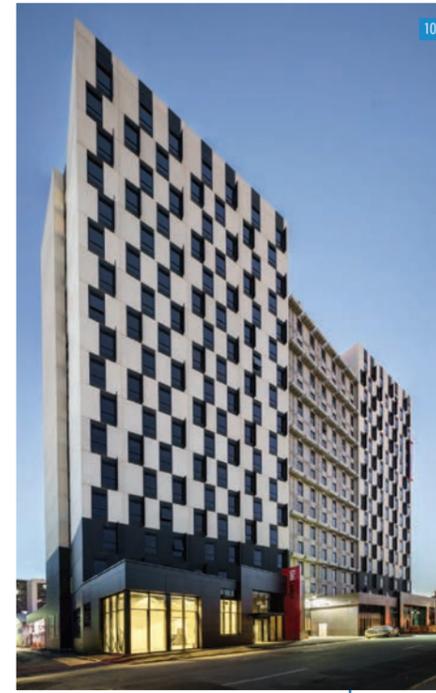
Fujitsu General's Products have been installed in over 50 countries worldwide.

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.



## For Light Commercial

- 1 Bank in Europe
- 2 Museum in Europe
- 3 School in Asia
- 4 Hospital in Asia
- 5 School in Middle East
- 6 Shop in Oceania
- 7 Public Facility in U.S.A.



## For Commercial

- 8 Hotel in Asia
- 9 Office in Asia
- 10 Apartment in Oceania
- 11 Apartment in Oceania
- 12 Public Facility in Asia
- 13 Hotel in Middle East



## For Residential

- 14 Residential in Oceania
- 15 Residential in U.S.A.
- 16 Villa 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.

- Head Office
- R&D Center
- Manufacturing Companies

## R&D Center & Technology Research Building



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



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



North America R&D Center (U.S.A.)



Fujitsu General Air Conditioning R&D (Thailand) Co., Ltd. (Thailand)



R&D Center in Fujitsu General (Shanghai)



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



• Fujitsu General (Euro) GmbH  
— R&D Center

• Fujitsu General America, Inc.  
— R&D Center

• North America R&D Center  
— R&D Center

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

• F.G.L.S Electric Co., Ltd.

• Fujitsu General Limited  
— R&D Center

• Fujitsu General (Shanghai) Co., Ltd.  
— R&D Center

- Fujitsu General Air Conditioning R&D (Thailand) Co., Ltd. — R&D Center
- Fujitsu General (Thailand) Co., Ltd.
- Fujitsu General (Thailand) Co., Ltd. Factory-2
- FGA (Thailand) Co., Ltd.
- TCFG Compressor (Thailand) Co., Ltd.

## Overseas Manufacturing Companies



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



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



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

**Construction of Manufacturing That Utilizes the IoT**  
 We will introduce a real-time IoT System to immediately visualize and analyze a variety of information (e.g., the facility operating situation, production progress on assembly lines, and the inventory and transportation situation of parts). This will enhance the accuracy of production and shipping forecasts in the Head Office and Factory Management Department. In addition, we will also utilize this in the improvement activities of employees in production sites with the aim of improving the productivity efficiency, parts distribution efficiency and facility operating ratio.

## Technology Research Building in Japan Head Office



Fujitsu General (Thailand) Co., Ltd. (Thailand) FACTORY-2



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



Fujitsu General Air Conditioning R&D (Thailand) Co., Ltd. (Thailand)



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



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

# HIGH QUALITY DEVELOPMENT & PRODUCTION

## Advanced Research Facility and Equipment

### Performance Testing



#### Air Volume Measurement Room

Measure air volumes of the air conditioners from compact room air conditioner 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.

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.

### 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

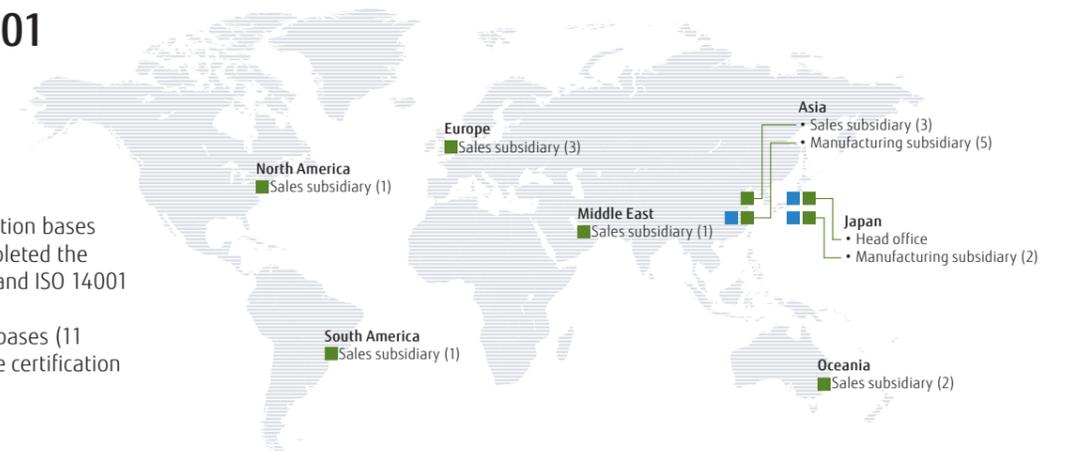
Objective is to confirm oil circulation of compressor for reliability



## FACILITIES

### Acquisition of ISO 9001 and ISO 14001

■ ISO 9001  
■ ISO 14001  
( ) Number of companies



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

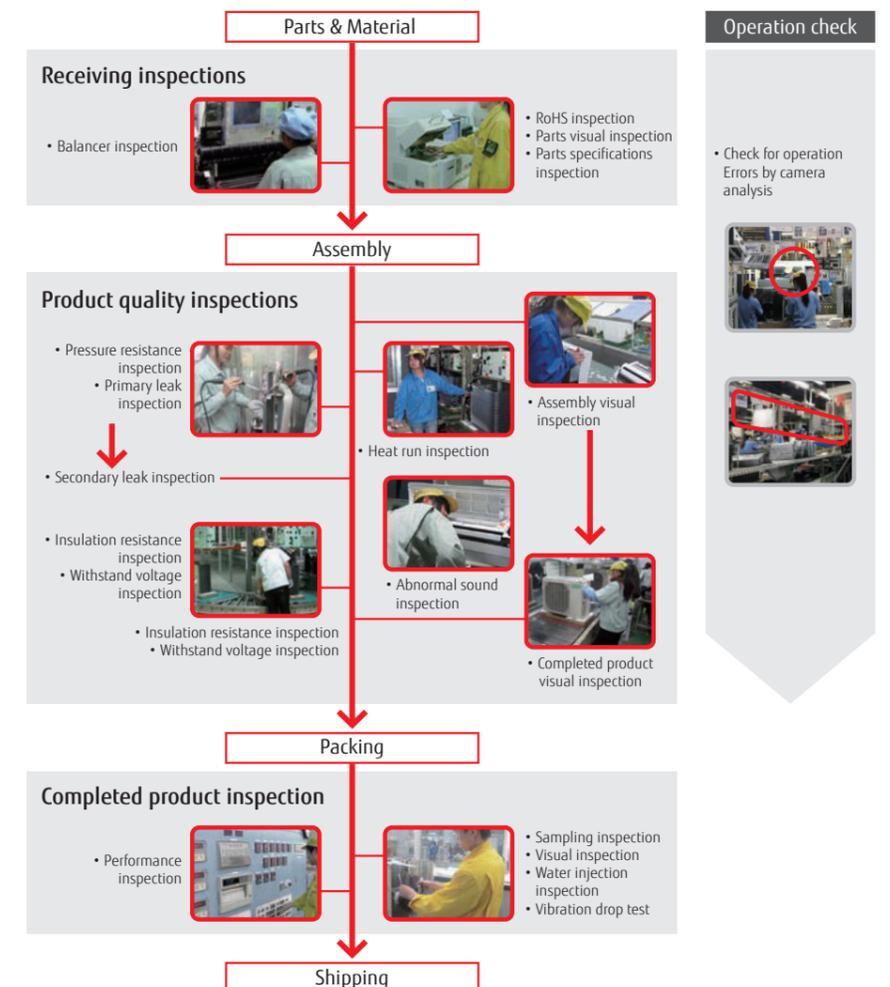
All Fujitsu General factories have acquired ISO 9001, and have built a quality control system common around the world. High quality products are offered to all over the world based on stringent quality inspections.

### 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 PROPERTIES

Fujitsu General provides the best solutions suitable for properties.

## Solution Point

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



## Target Property



### LIGHT COMMERCIAL

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

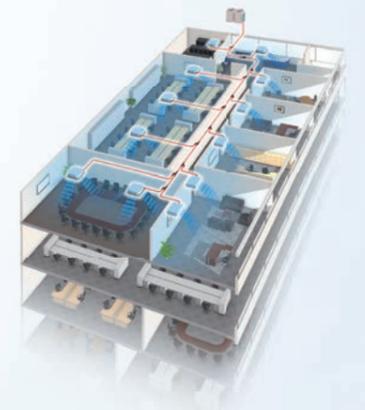
We offer comfortable and economical air conditioning systems focused on small to medium-sized buildings.



### 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.



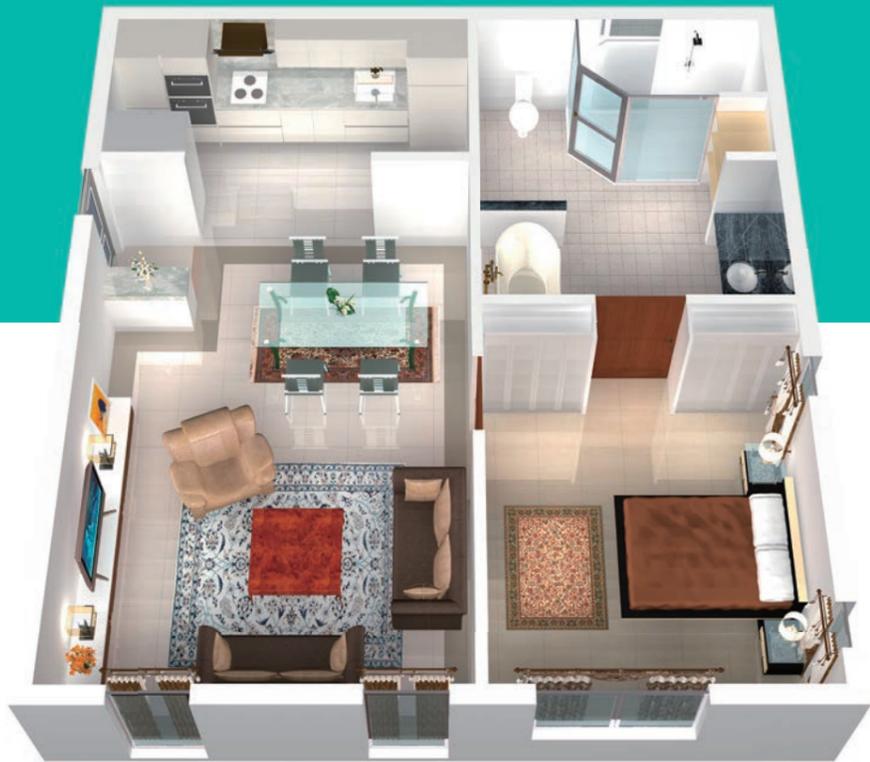
Light Commercial

# APARTMENT, VILLA

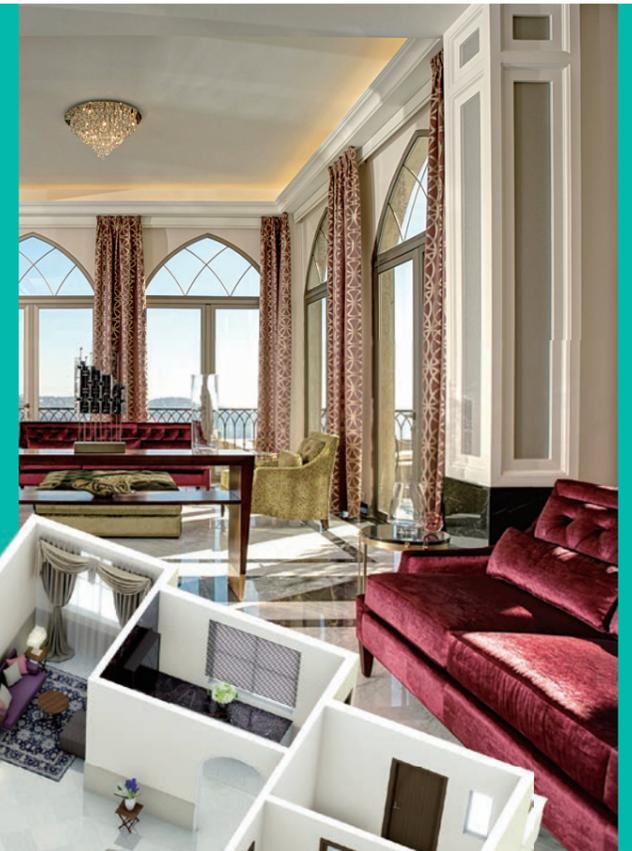
Fujitsu General offers the small VRF system to match from large living rooms to bedrooms for apartment and villa.



APARTMENT



VILLA



Large space air conditioning in a family room



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

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

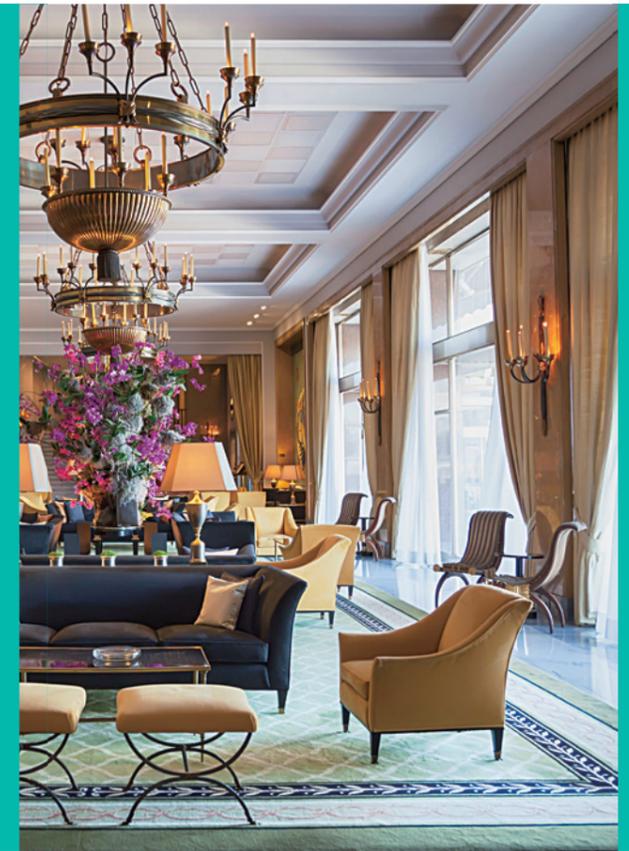
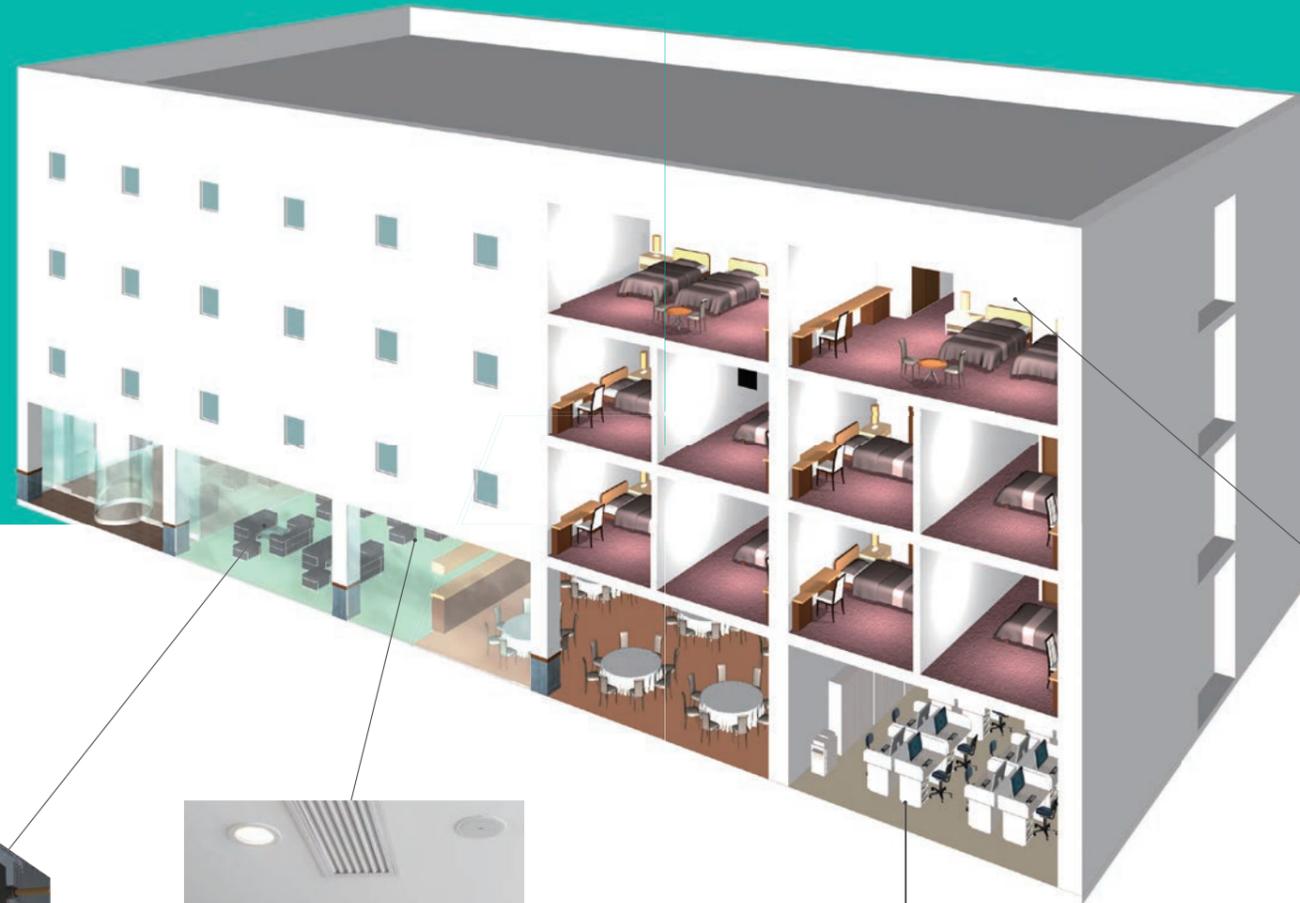


Large Wall Mounted

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.



## 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.



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

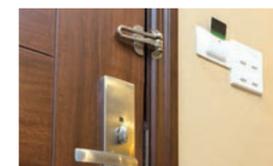
**Space saving**  
Mini duct type with 198 mm height and 450 mm depth. This can be installed in narrow ceiling space easily.



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

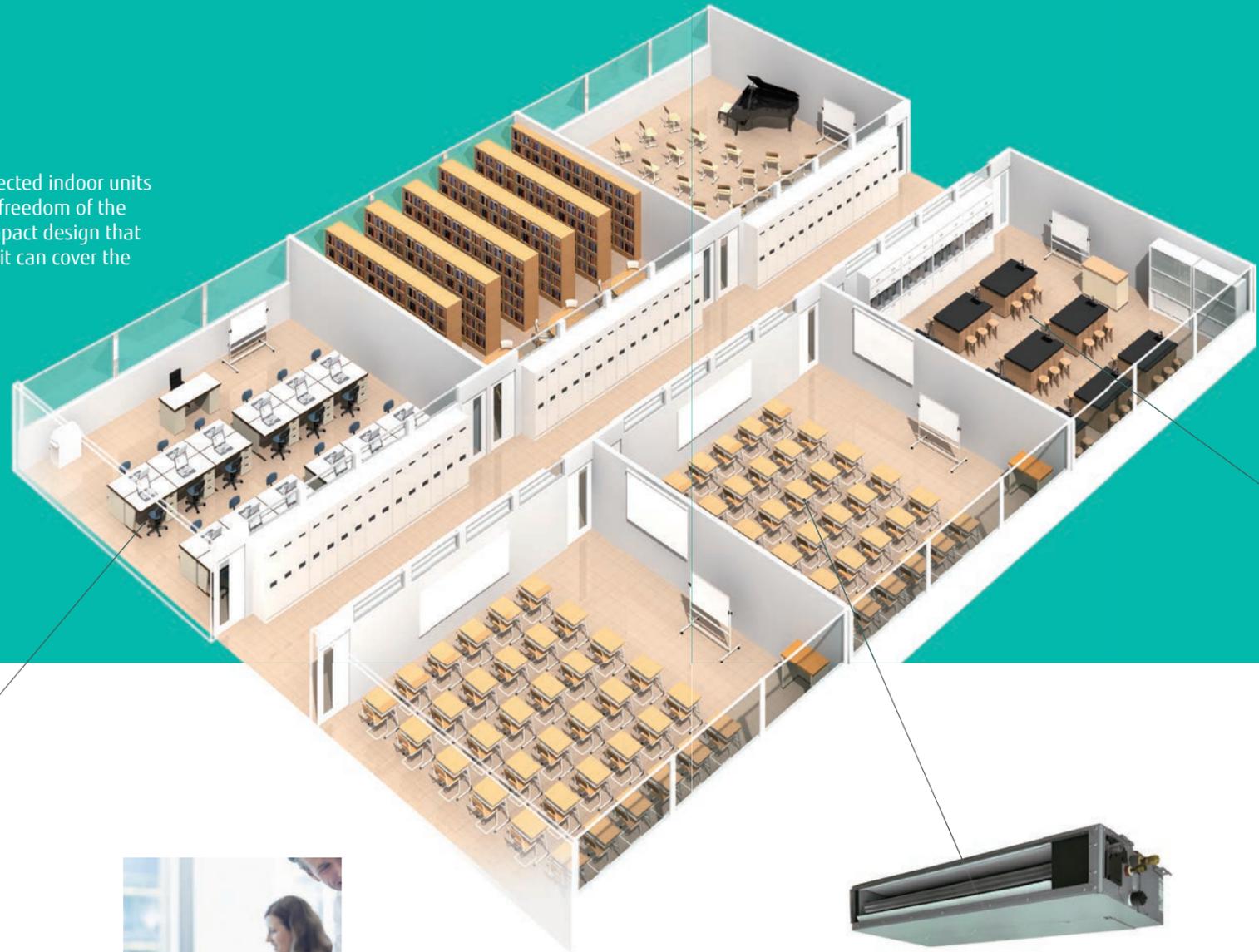
## Simple Remote Controller with sophisticated design

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.



# 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.



Cassette Circular Flow

## Comfortable room air conditioning without airflow feeling

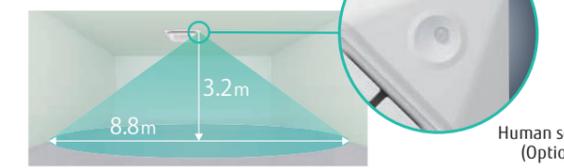
Circular Airflow Cassette blows out in all directions without temperature unevenness



## 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)



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.



Central Remote Controller UTU-DCGGZ1

## Centralized remote controller with improved operability

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



PC



Wireless LAN Router



## 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.



Tablet PC Smartphone



iOS, Android and/or Windows

Light Commercial

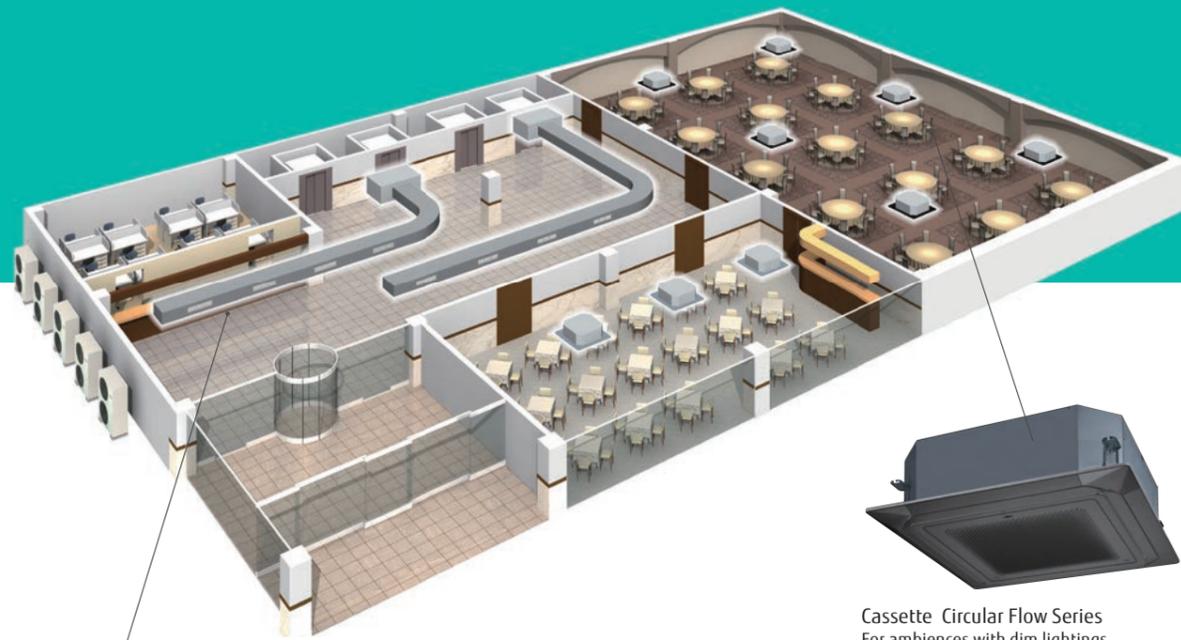
# RESTAURANT, SHOPS

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

SHOPS

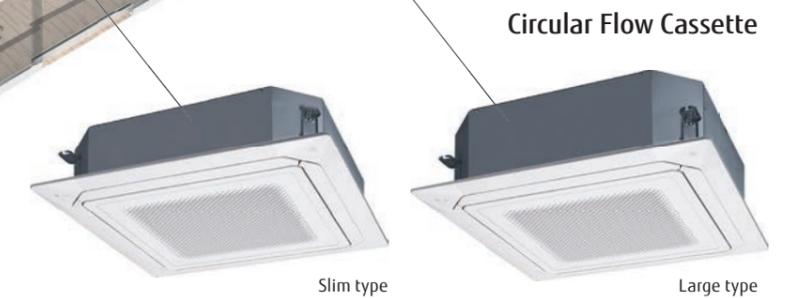


Cassette Circular Flow Series  
For ambiances with dim lightings



### 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)



Circular Flow Cassette

Slim type

Large type

### Appropriate air conditioning in the atrium space

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



High Static Pressure Duct



### 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.



## Individual air conditioning system for large buildings

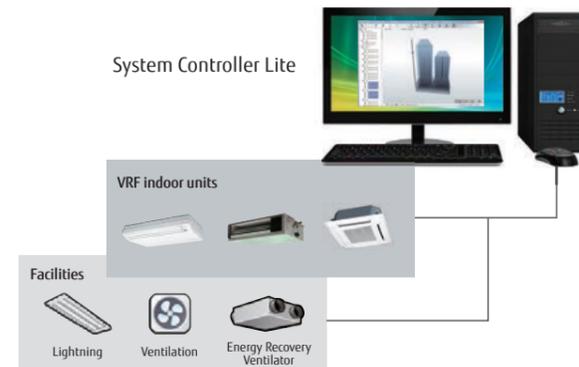
VRF Series lineup to meet various needs such as energy saving-orientated models and models compatible with a high outdoor air temperature of 52°C



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

## 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.



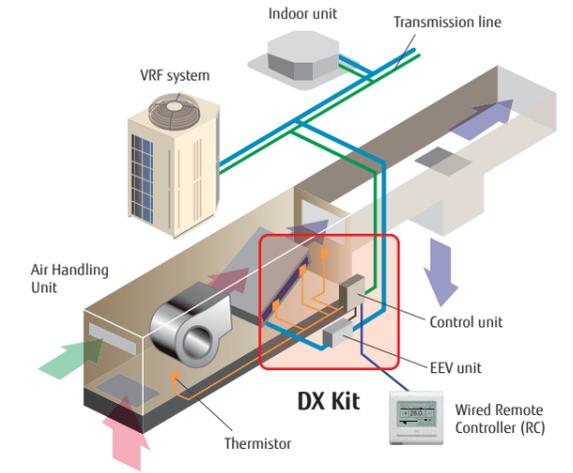
## Difference in height Up to 110 m

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.)



## 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.

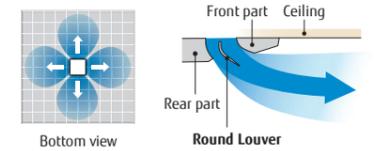


## 4-way Flow Cassette



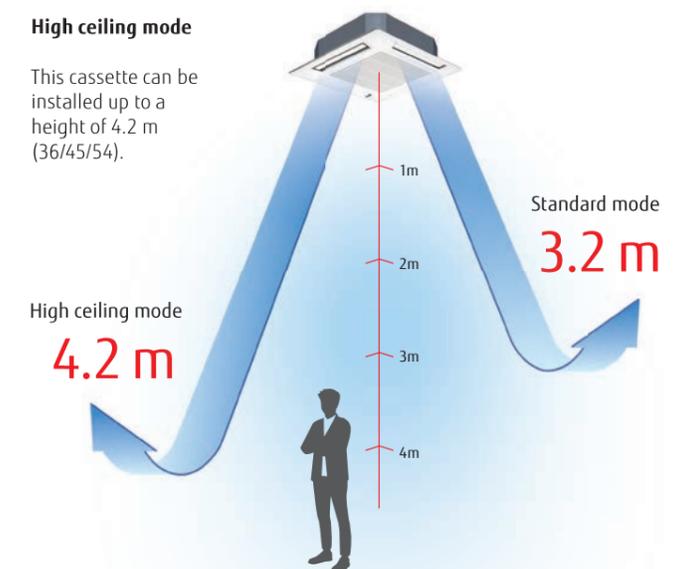
### Improvement of the airflow distribution

The Louver 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 4.2 m (36/45/54).





# AIRSTAGE™ CORE TECHNOLOGY

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



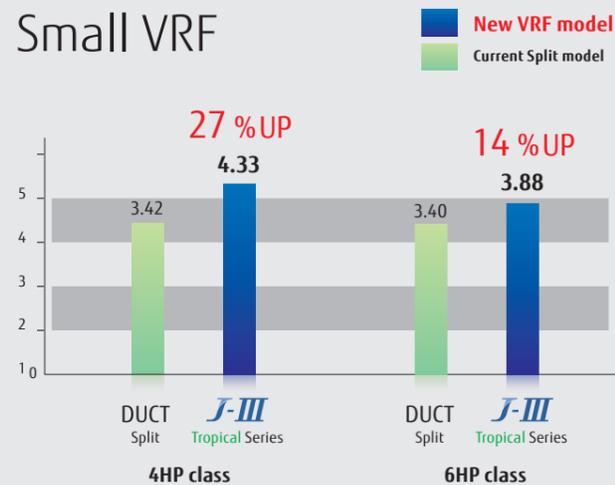
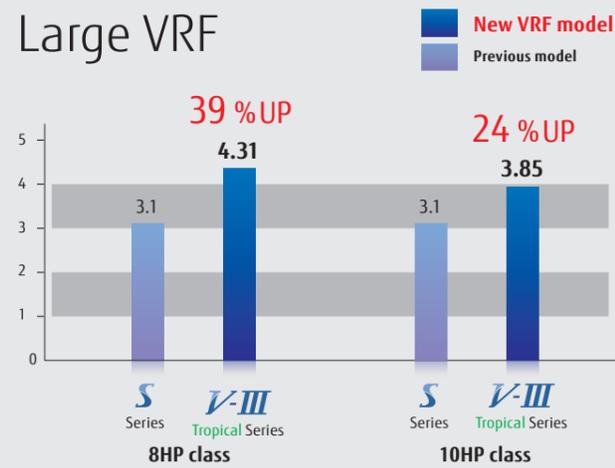
AIRSTAGE VRF Systems can be designed to effectively provide an air conditioning solution from a large domestic residence through to a large scale commercial building.

- HIGH ENERGY EFFICIENCY
- HIGH RELIABILITY
- DESIGN FLEXIBILITY
- MORE COMFORT
- EASY INSTALLATION
- EASY SERVICE & MAINTENANCE

# HIGH ENERGY EFFICIENCY

## Highly Energy Efficiency

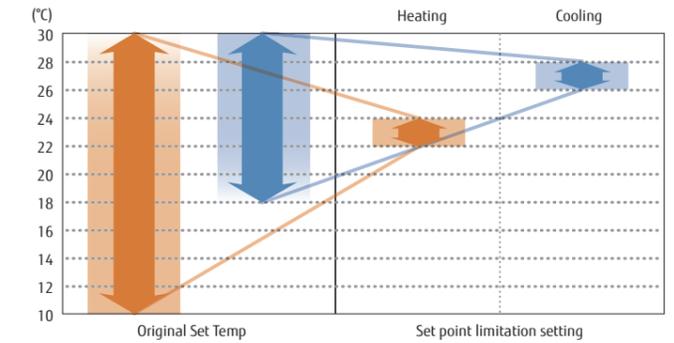
Significantly efficiency is improved by using DC twin rotary compressor, inverter technology, and large heat exchanger.



## Operation Performance is Efficiently Controlled.

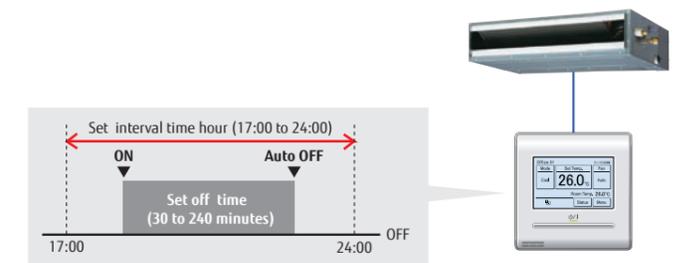
### Room temperature set point limitation

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



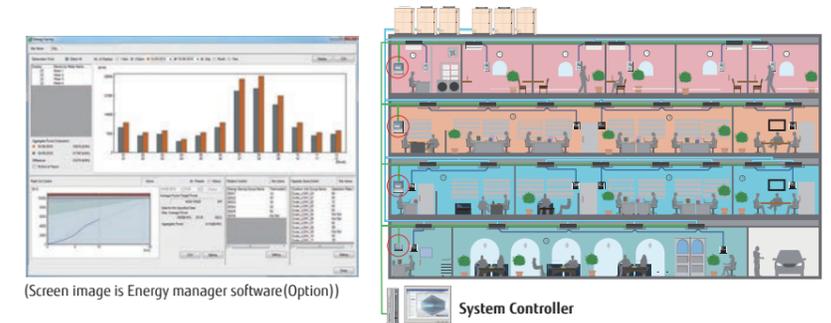
### Auto-off timer

New wired remote controller is equipped with an OFF timer function that automatically stops operation when a fixed time has elapsed from the start of operation. This prevents waste of energy. Furthermore a new wired remote controller can set up the interval of time in case operation stops.



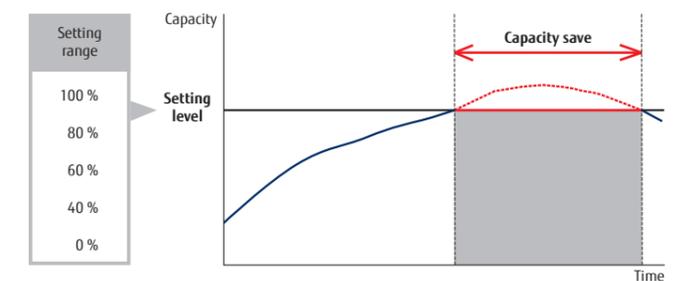
### Energy saving management

A variety energy saving operations can be set and managed depending on the season, weather, and time period. Excellent energy saving operation is performed by using System Controller.



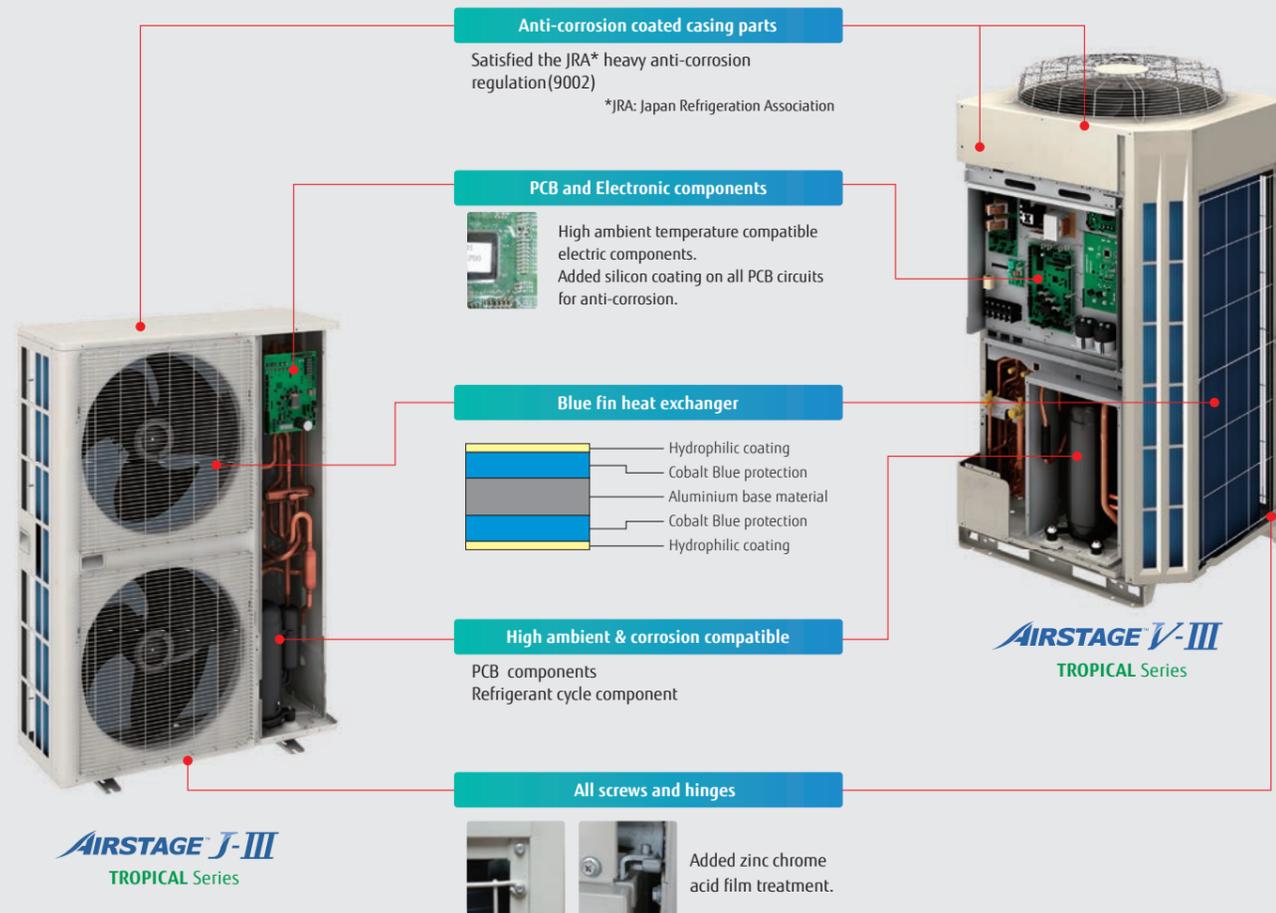
### Capacity save operation

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



# HIGH RELIABILITY

## Heavy anti-corrosion treatment design

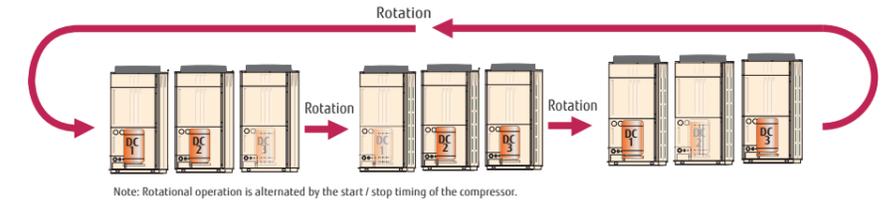


### Take special notice of the following in order to enhance the anti-corrosion effect.

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

## Life-extending operation

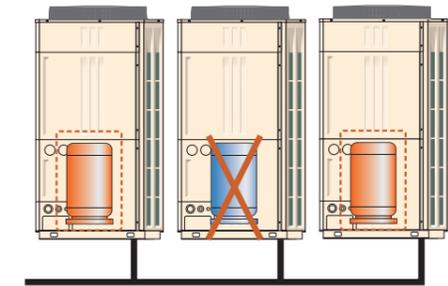
Outdoor unit rotational operation  
The compressor starting order is rotated so that the running time is shared.



## Backup operation

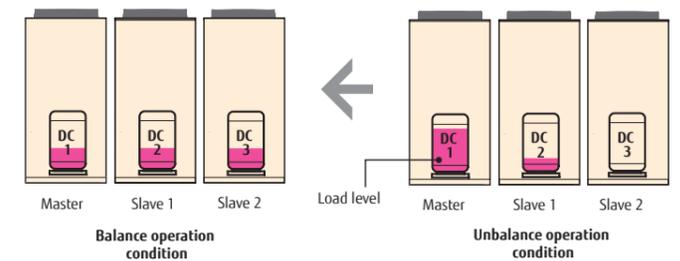
If one compressor fails, backup operation will be performed by the remaining compressors\*.

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



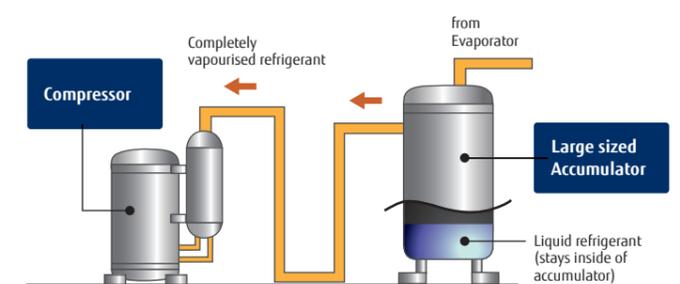
## Advanced refrigerant control

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.



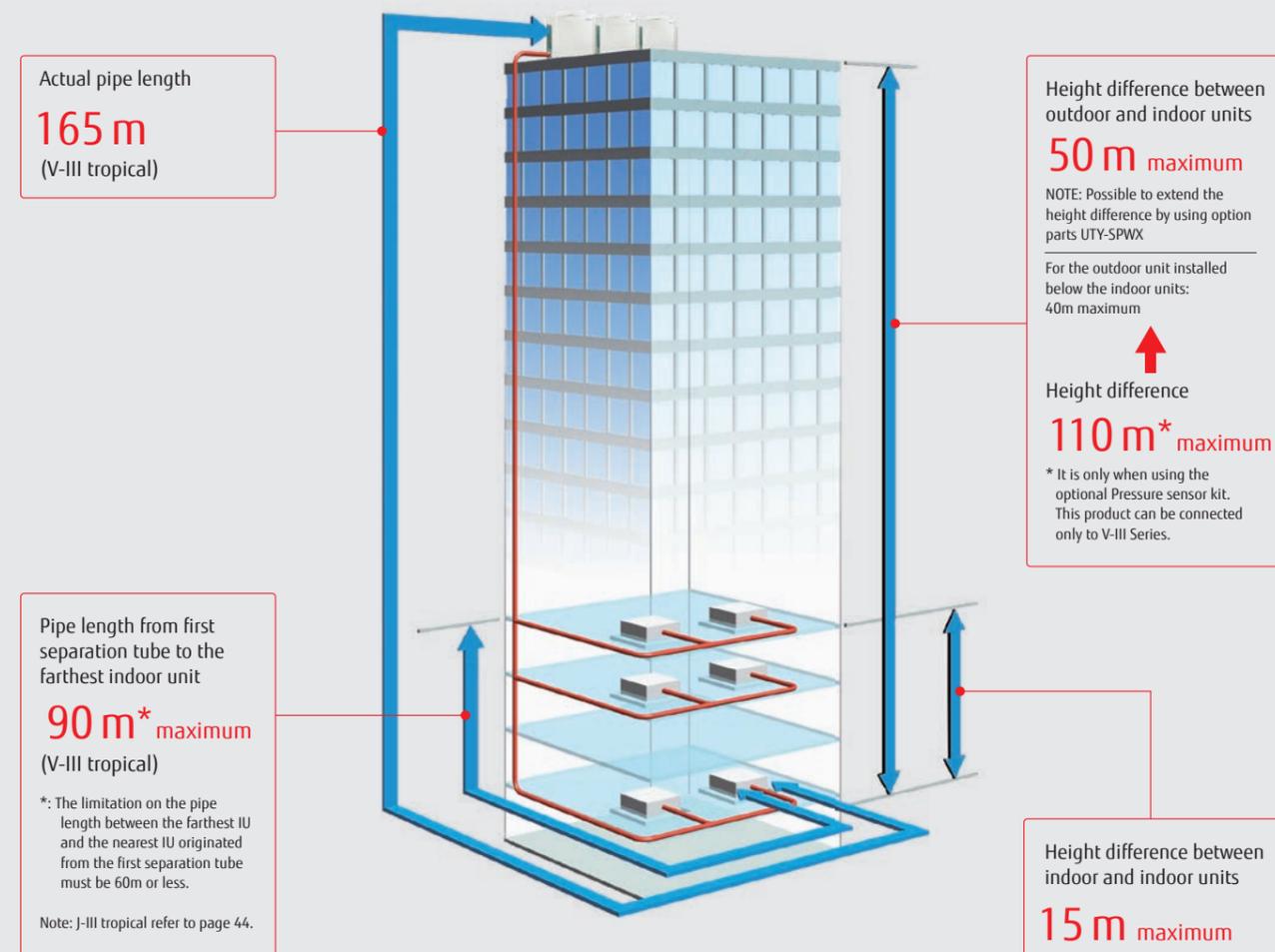
## Oil Recovery operation

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

# DESIGN FLEXIBILITY

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

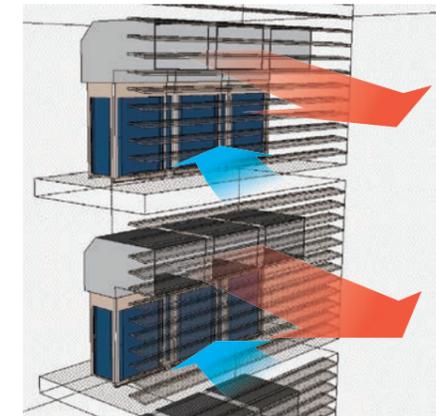
Total pipe length  
**1,000 m maximum**



## High static pressure

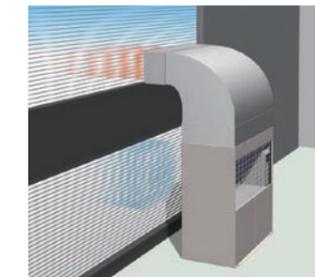
The outdoor unit can have a condenser hood easily connected with a static pressure of 82Pa. This allows outdoor units to be installed within plant rooms in high rise buildings.

Powerful discharge air prevents a short-circuit.

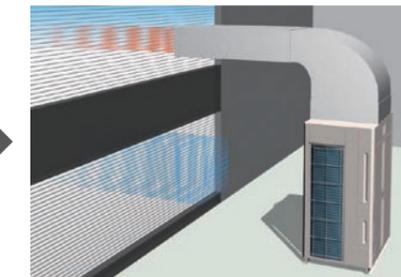


**82 Pa**  
(V-III tropical)

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.

## 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 %**

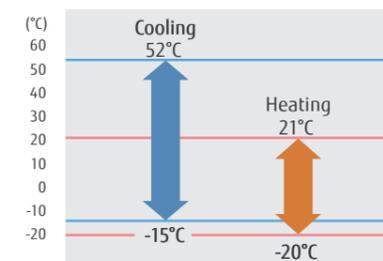
Connectable indoor unit number  
**up to 9**

## High ambient operation design

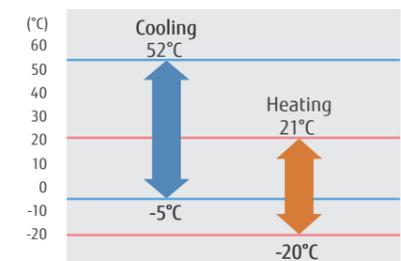


Installation in extreme temperature conditions is possible due to an increase in operational range.

### AIRSTAGE V-III TROPICAL Series



### AIRSTAGE J-III TROPICAL Series



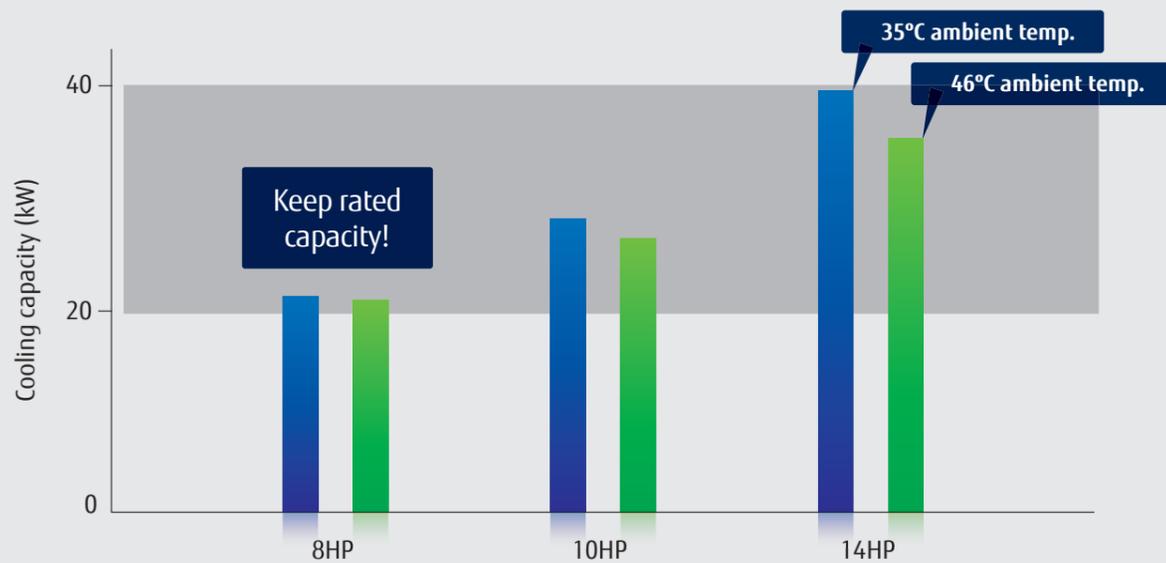
\*. Note : When a multiple outdoor unit connection is used, operating range is from -5°C to 52°C in cooling.

# 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.



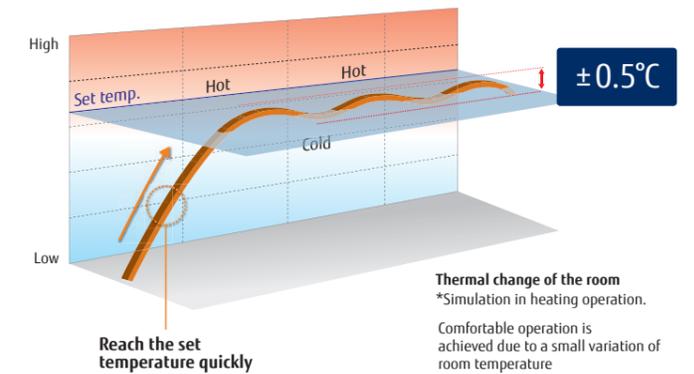
## Touch Panel Wired Remote Controller

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

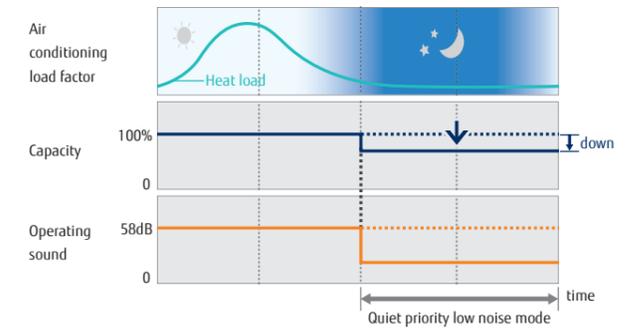


## Quiet operation

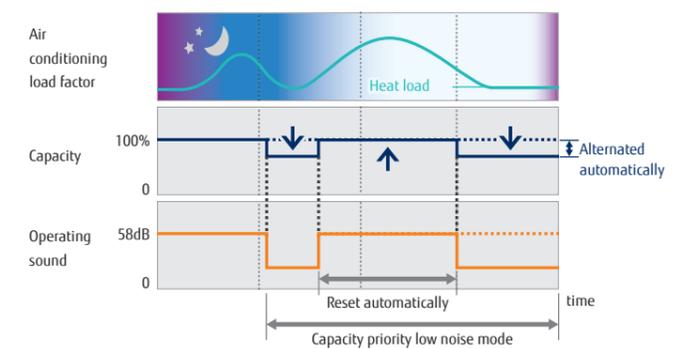
### Low noise mode

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



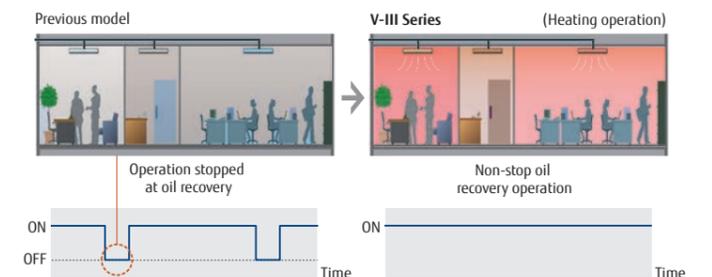
### Capacity priority setting



## 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

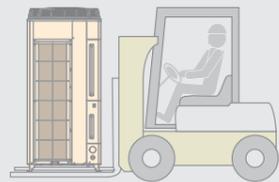


## Easily transported

**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.

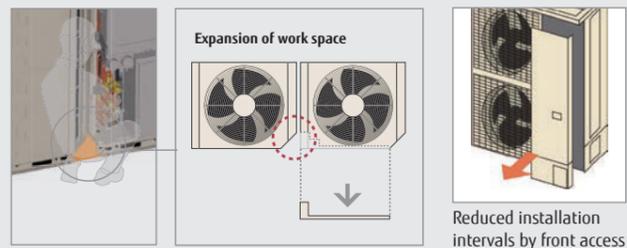


**Can be transported in a small elevator**



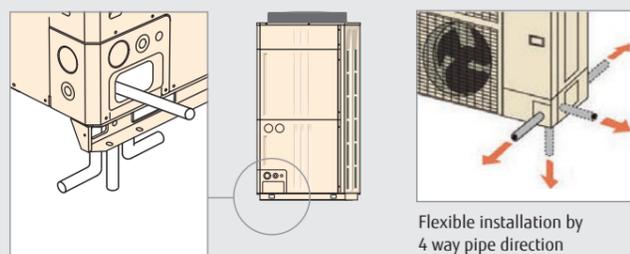
## Easy access

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.



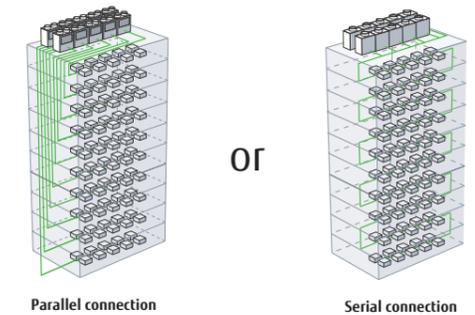
## Flexible piping connection

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



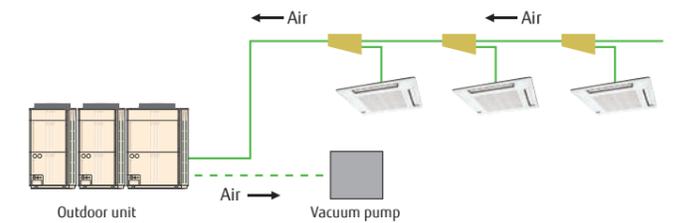
## Simple wiring work

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



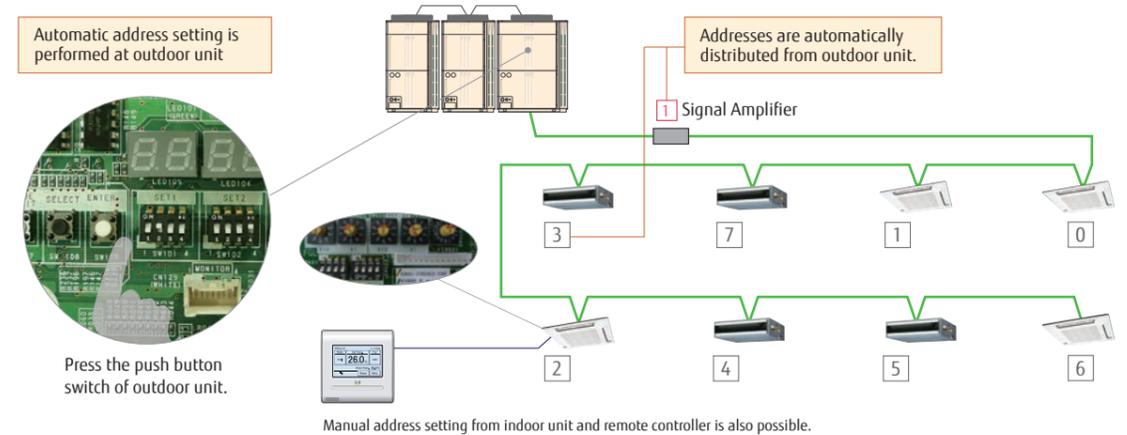
## Easy evacuation - using vacuum mode function

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



## Automatic address setting

The address of the indoor unit, 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**

**Simple Remote Controller**

**Wired Remote Controller (Touch panel)**

No.	Date	Time	Address	Code
1	2012/7/30	11:00AM	002-01	141
2	2012/7/30	2:30AM	002-02	143
3	2012/7/23	10:55AM	002-02	142
4	2012/7/23	11:00AM	002-01	141
5	2012/7/22	11:00AM	002-01	141
6	2012/7/21	11:00AM	002-01	141

Error status can be checked easily by outdoor unit display

**Error and quantity annunciation**

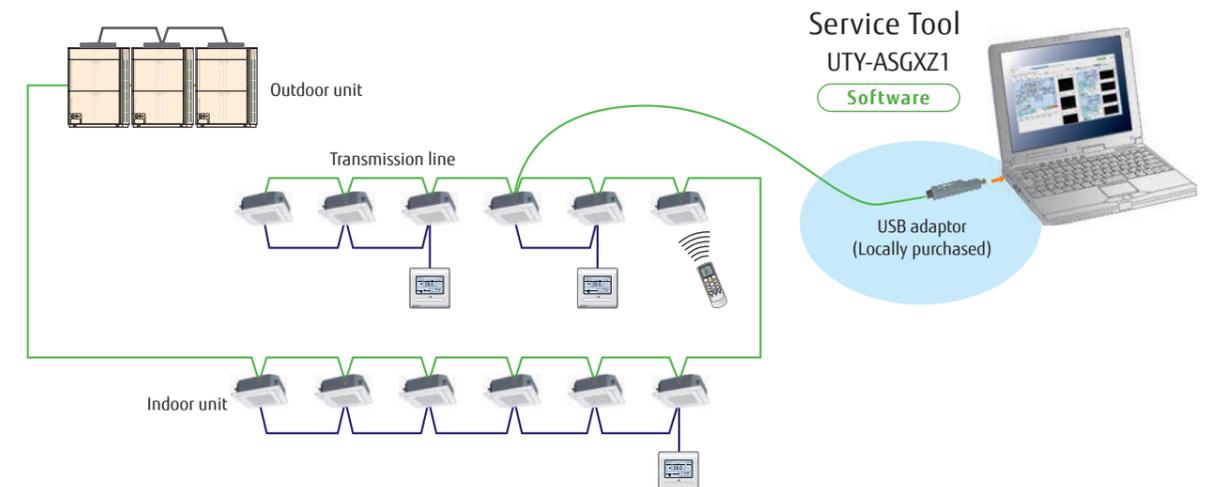
**Error code**

**Abnormal indoor unit address**

## Error diagnosis by Service Tool

### Connection to Service Tool

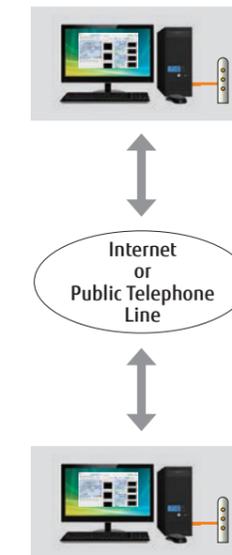
- Detail operation status and recent error history can be checked and analyzed by using the Service Tool.
- Last 5 min. operation memory can be also be recorded.



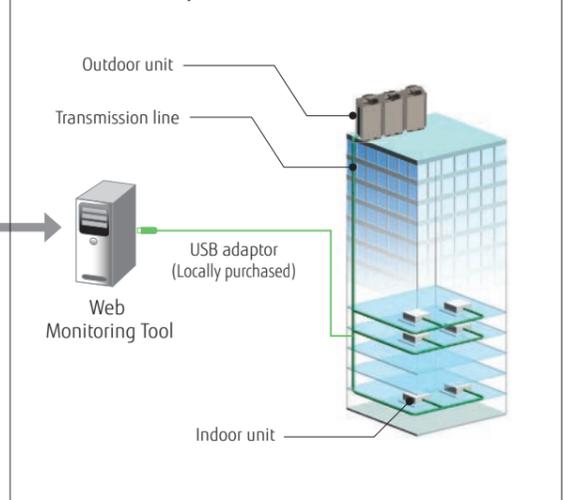
## Remote monitoring

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

### Monitoring Side



### VRF Network System Side



**AIRSTAGE**  
INVERTER

# AIRSTAGE™ SERIES

The AIRSTAGE 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™**

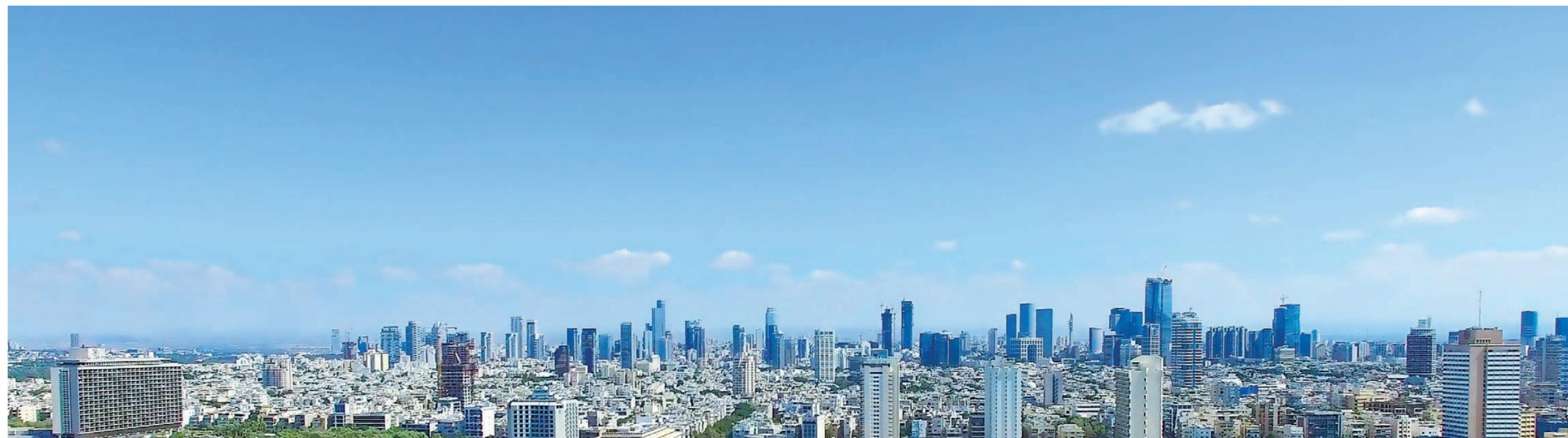
# AIRSTAGE™ LINE-UP

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	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54		
BTU/h	36,000	45,000	54,000	72,000	90,000	108,000	126,000	144,000	162,000	180,000	198,000	216,000	234,000	252,000	270,000	288,000	306,000	324,000	342,000	360,000	378,000	396,000	414,000	432,000	450,000	468,000	486,000		
Ton	3.0	3.8	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5		
<b>AIRSTAGE J-III</b> TROPICAL Series Heat Pump	High Efficiency (Single phase)  AJH040LBTBHN AJH045LBTBHN AJH054LBTBHN																												
	High Efficiency (3 phase)  AJH040LETBHN AJH045LETBHN AJH054LETBHN																												
<b>AIRSTAGE V-III</b> TROPICAL Series Heat Pump	Space saving  AJH072LN**H AJH090LN**H AJH108LN**H AJH126LN**H AJH144LN**H AJH162LN**H AJH180LN**H AJH198LN**H AJH216LN**H												AJH234LN**H AJH252LN**H AJH270LN**H AJH288LN**H AJH306LN**H AJH324LN**H AJH342LN**H AJH360LN**H AJH378LN**H AJH396LN**H AJH414LN**H AJH432LN**H AJH450LN**H AJH468LN**H AJH486LN**H																
	High Efficiency  AJH144LN**HH AJH162LN**HH AJH180LN**HH AJH216LN**HH													AJH234LN**HH AJH252LN**HH AJH270LN**HH AJH288LN**HH AJH306LN**HH AJH324LN**HH AJH342LN**HH AJH360LN**HH AJH378LN**HH AJH396LN**HH AJH414LN**HH															

AJH\_LN\*\*H(H) : AJH\_LNTDH(H), AJH\_LNLCH(H)



# HEAT PUMP TYPE



## TROPICAL Series

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

### System Outline

#### High Energy Efficiency

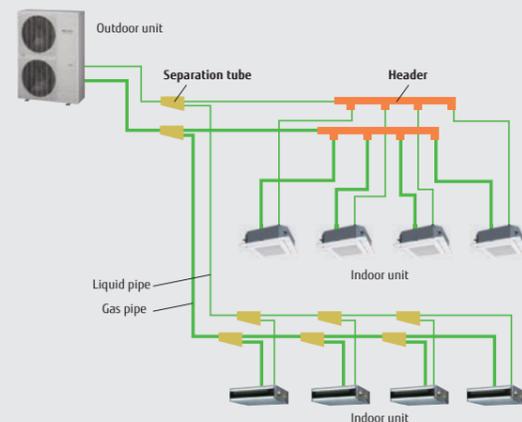
Heat pump inverter control is used to achieve an efficient cooling and heating operation in any indoor unit combination.

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

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

#### System configuration example

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

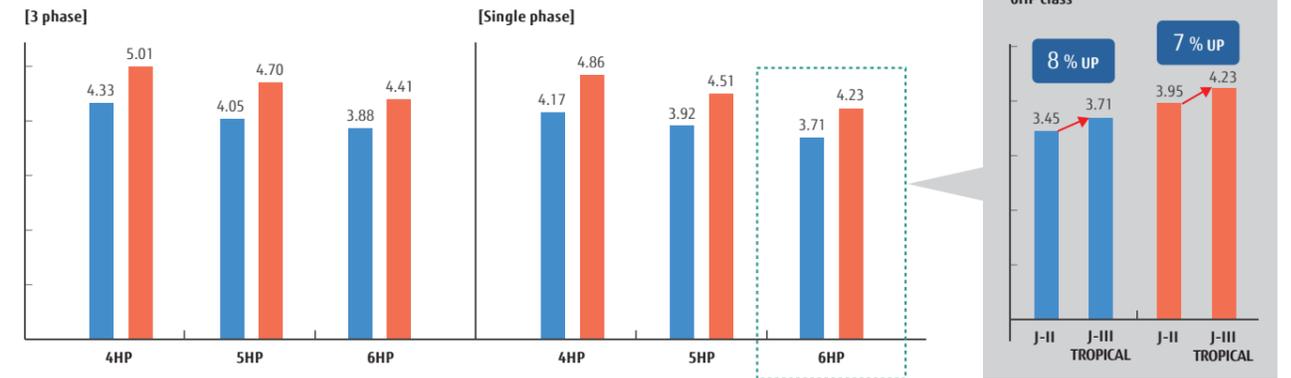


### Features

#### Energy efficiency

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

#### High EER / COP

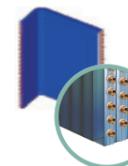


#### Advanced high efficiency technology



#### Large propeller fan

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



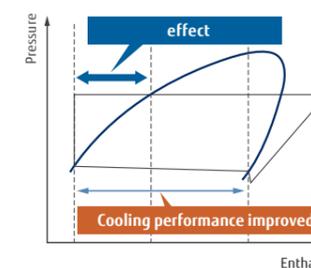
#### Large heat exchanger

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.



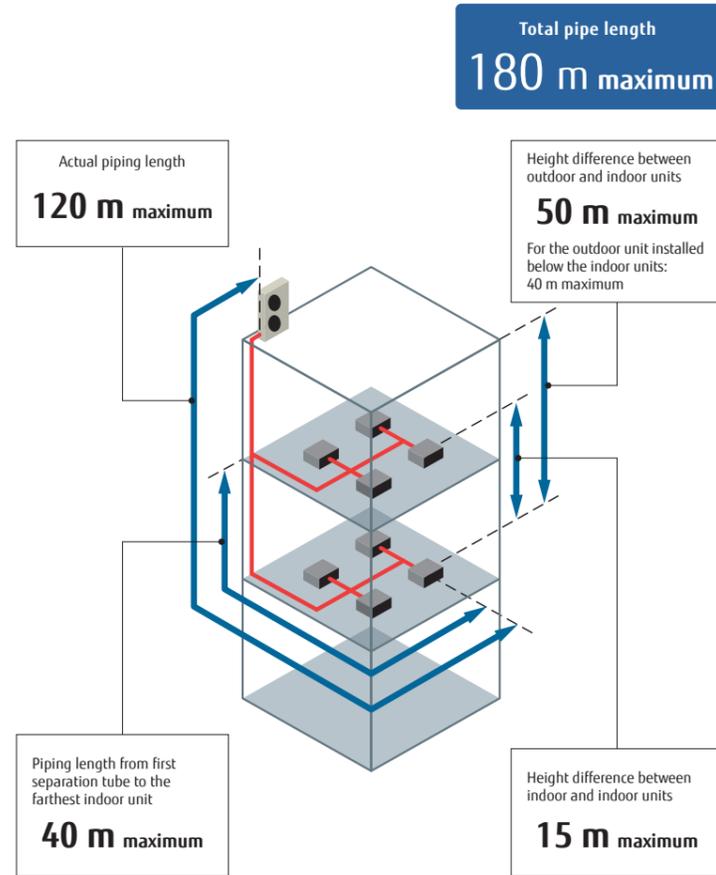
#### INVERTER Compressor

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 180 m. This opens up new possibilities in system design.



### Specifications

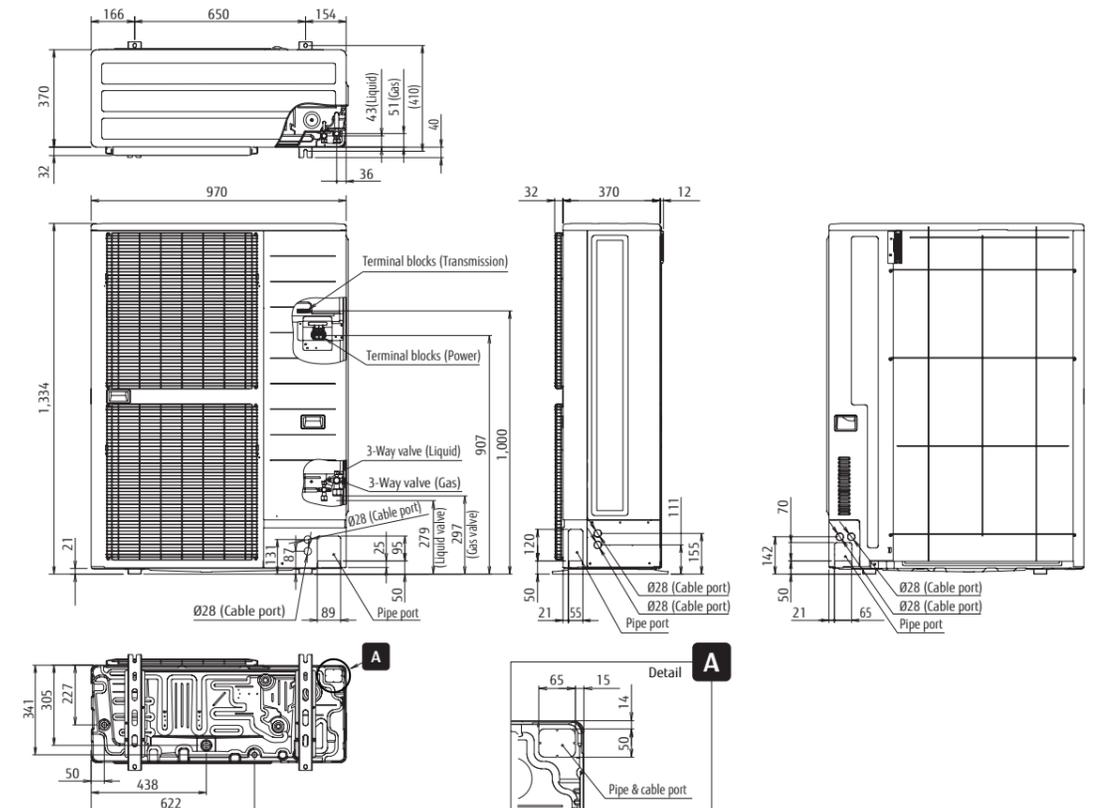
Rating Capacity range	HP	4	5	6	4	5	6	
	Btu/h	36,000	45,000	54,000	36,000	45,000	54,000	
		Ton	3.0	3.8	4.5	3.0	3.8	4.5
Model name			AJH040LBTBHN	AJH045LBTBHN	AJH054LBTBHN	AJH040LETBHN	AJH045LETBHN	AJH054LETBHN
Maximum Connectable Indoor Unit			1-7	1-8	1-9	1-7	1-8	1-9
Power source			Single phase, ~230V, 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
Input power	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
Current	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
EER	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
COP	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
	Heating		14.15/10.10	13.30/10.05	12.60/9.95	14.70/10.60	13.75/10.60	13.15/10.50
Air flow rate	High	m <sup>3</sup> /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)
	Cooling		50	51	53	50	51	53
Sound pressure level	Heating	dB (A)	52	53	55	52	53	55
	Height		1,334	1,334	1,334	1,334	1,334	1,334
Net Dimensions	Width	mm	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
Operating 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: 7.5 m. Height difference between outdoor and indoor unit: 0 m.

### Dimensions

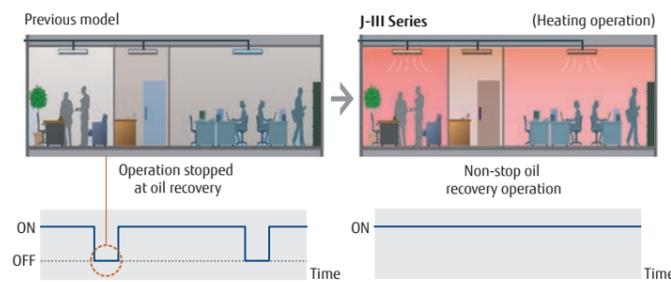
Models : AJH040LBTBHN / AJH045LBTBHN / AJH054LBTBHN / AJH040LETBHN / AJH045LETBHN / AJH054LETBHN

(Unit : mm)



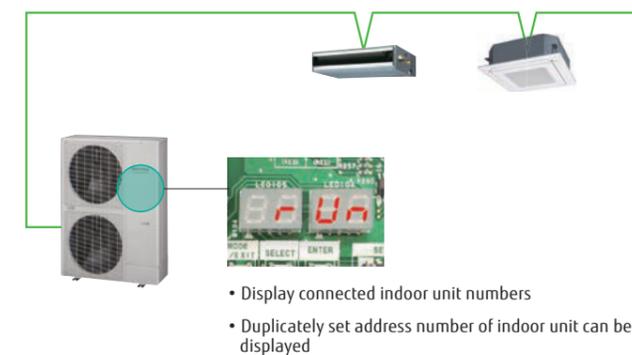
### Non-stop oil recovery operation

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.



# HEAT PUMP TYPE



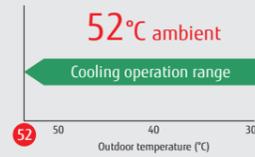
## TROPICAL Series

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

### System Outline

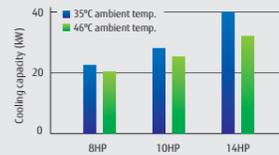
#### High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature



#### Powerful cooling capacity design

Keeping high cooling power at even high ambient temperature



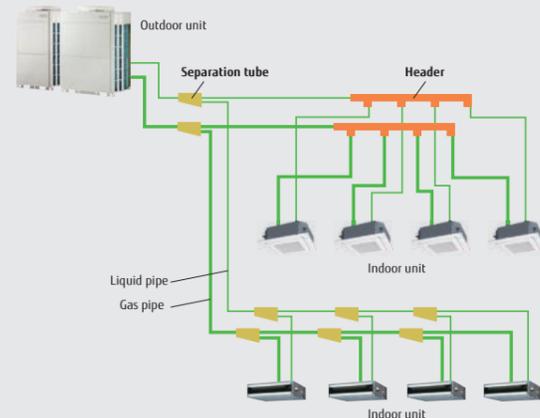
#### Anti-corrosion treatment design

All metallic and PCB components are protected against corrosion



#### System configuration example

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

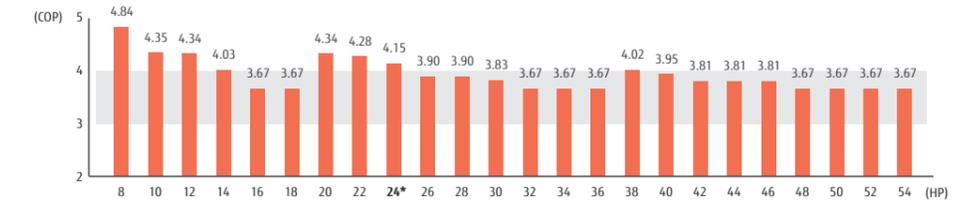


### Features

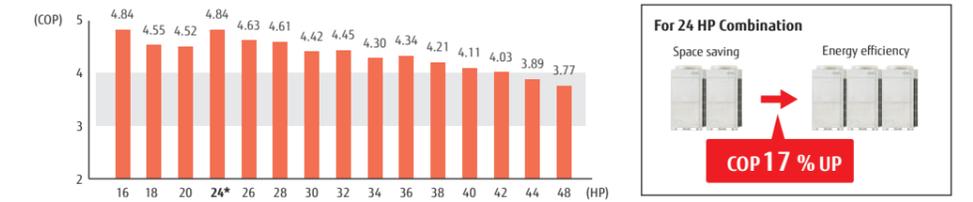
#### Energy efficiency

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

#### Space saving combination



#### Energy efficiency combination



#### Energy saving technology that boosted operation efficiency



#### Powerful large propeller fan

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



#### 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.



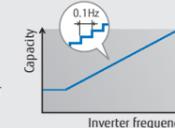
#### Sine-wave DC inverter control

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

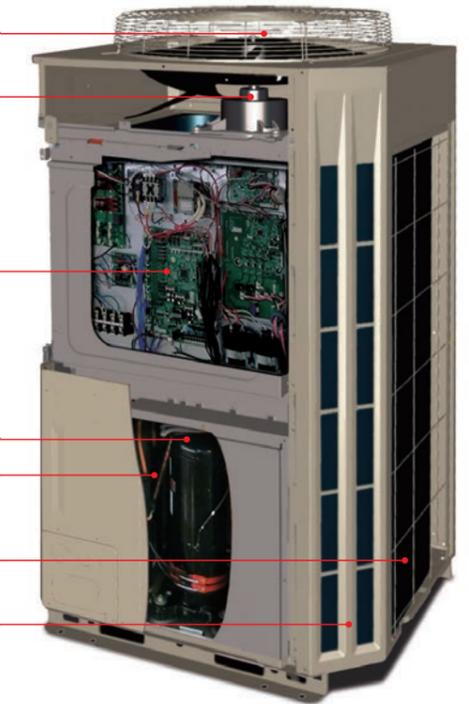
High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.



#### 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.

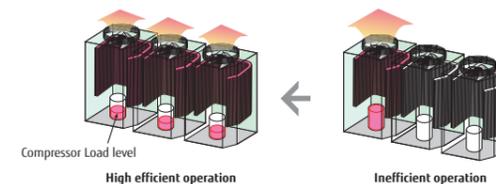
#### Front intake port (corner cut air inhaling structure)



#### Advanced energy saving control

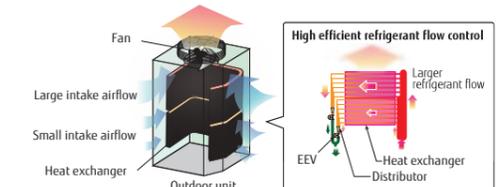
##### Multiple outdoor operation control

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.





Space Saving Combination

Rating Capacity range		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	
HP		8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	
Btu/h		72,000	90,000	108,000	126,000	144,000	162,000	180,000	198,000	216,000	234,000	252,000	270,000	288,000	306,000	324,000	342,000	360,000	378,000	396,000	414,000	432,000	450,000	468,000	486,000	
Ton		6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	
Model name		AJH072LN**H	AJH090LN**H	AJH108LN**H	AJH126LN**H	AJH144LN**H	AJH162LN**H	AJH180LN**H	AJH198LN**H	AJH216LN**H	AJH234LN**H	AJH252LN**H	AJH270LN**H	AJH288LN**H	AJH306LN**H	AJH324LN**H	AJH342LN**H	AJH360LN**H	AJH378LN**H	AJH396LN**H	AJH414LN**H	AJH432LN**H	AJH450LN**H	AJH468LN**H	AJH486LN**H	
Unit 1		AJH072LN**H	AJH090LN**H	AJH108LN**H	AJH126LN**H	AJH144LN**H	AJH162LN**H	AJH180LN**H	AJH198LN**H	AJH216LN**H	AJH234LN**H	AJH252LN**H	AJH270LN**H	AJH288LN**H	AJH306LN**H	AJH324LN**H	AJH342LN**H	AJH360LN**H	AJH378LN**H	AJH396LN**H	AJH414LN**H	AJH432LN**H	AJH450LN**H	AJH468LN**H	AJH486LN**H	
Unit 2		AJH072LN**H	AJH090LN**H	AJH108LN**H	AJH126LN**H	AJH144LN**H	AJH162LN**H	AJH180LN**H	AJH198LN**H	AJH216LN**H	AJH234LN**H	AJH252LN**H	AJH270LN**H	AJH288LN**H	AJH306LN**H	AJH324LN**H	AJH342LN**H	AJH360LN**H	AJH378LN**H	AJH396LN**H	AJH414LN**H	AJH432LN**H	AJH450LN**H	AJH468LN**H	AJH486LN**H	
Unit 3		AJH072LN**H	AJH090LN**H	AJH108LN**H	AJH126LN**H	AJH144LN**H	AJH162LN**H	AJH180LN**H	AJH198LN**H	AJH216LN**H	AJH234LN**H	AJH252LN**H	AJH270LN**H	AJH288LN**H	AJH306LN**H	AJH324LN**H	AJH342LN**H	AJH360LN**H	AJH378LN**H	AJH396LN**H	AJH414LN**H	AJH432LN**H	AJH450LN**H	AJH468LN**H	AJH486LN**H	
Maximum Connectable Indoor Unit		13	16	19	23	26	29	33	36	40	43	46	50	53	55	55	55	55	55	55	55	55	55	55	55	
Indoor unit connectable capacity		Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	
kW		11.2-29.1	14-36.4	16.8-43.5	20-52	22.5-58.5	25-65	28-72.8	31.2-81.1	34-88.4	36.5-94.9	39-101.4	42.5-110.5	45-117	47.5-123.5	50-130	53-137.8	56.5-146.9	59-153.4	61.5-159.9	64-166.4	67.5-175.5	70-182	72.5-188.5	75-195	
Power source		3 phase 4 wire, 400 V, 50Hz											3 phase 4 wire, 400 V, 50Hz													
T1 condition	Capacity	Cooling	kW																							
		Heating	kW																							
	Input power	Cooling	kW																							
		Heating	kW																							
	Current	Cooling	A																							
		Heating	A																							
	EER	Cooling	W/W																							
		Heating	W/W																							
	COP	Cooling	Btu/h/W																							
		Heating	Btu/h/W																							
T3 condition	Capacity	Cooling	kW																							
		Heating	kW																							
	Input power	Cooling	kW																							
		Heating	kW																							
	Current	Cooling	A																							
		Heating	A																							
	EER	Cooling	W/W																							
		Heating	W/W																							
	COP	Cooling	Btu/h/W																							
		Heating	Btu/h/W																							
Power factor		%																								
Air flow rate		m <sup>3</sup> /h																								
Sound pressure level		dB (A)																								
Maximum external static pressure		Pa																								
Compressor motor output		kW																								
Heat exchanger fin		Blue fin																								
Dimensions	Height	mm																								
	Width	mm																								
	Depth	mm																								
Weight		kg																								
Refrigerant		Type																								
Connection pipe diameter		mm																								
Operating range		°CDB																								

Energy Efficiency Combination

Rating Capacity range		16	18	20	24	26	28	30	32	34	36	38	40	42	44	46		
HP		16	18	20	24	26	28	30	32	34	36	38	40	42	44	46		
Btu/h		144,000	162,000	180,000	216,000	234,000	252,000	270,000	288,000	306,000	324,000	342,000	360,000	378,000	396,000	414,000		
Ton		12.0	13.5	15.0	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5		
Model name		AJH144LN**HH	AJH162LN**HH	AJH180LN**HH	AJH216LN**HH	AJH234LN**HH	AJH252LN**HH	AJH270LN**HH	AJH288LN**HH	AJH306LN**HH	AJH324LN**HH	AJH342LN**HH	AJH360LN**HH	AJH378LN**HH	AJH396LN**HH	AJH414LN**HH		
Unit 1		AJH144LN**HH	AJH162LN**HH	AJH180LN**HH	AJH216LN**HH	AJH234LN**HH	AJH252LN**HH	AJH270LN**HH	AJH288LN**HH	AJH306LN**HH	AJH324LN**HH	AJH342LN**HH	AJH360LN**HH	AJH378LN**HH	AJH396LN**HH	AJH414LN**HH		
Unit 2		AJH144LN**HH	AJH162LN**HH	AJH180LN**HH	AJH216LN**HH	AJH234LN**HH	AJH252LN**HH	AJH270LN**HH	AJH288LN**HH	AJH306LN**HH	AJH324LN**HH	AJH342LN**HH	AJH360LN**HH	AJH378LN**HH	AJH396LN**HH	AJH414LN**HH		
Unit 3		AJH144LN**HH	AJH162LN**HH	AJH180LN**HH	AJH216LN**HH	AJH234LN**HH	AJH252LN**HH	AJH270LN**HH	AJH288LN**HH	AJH306LN**HH	AJH324LN**HH	AJH342LN**HH	AJH360LN**HH	AJH378LN**HH	AJH396LN**HH	AJH414LN**HH		
Maximum Connectable Indoor Unit		26	29	33	39	43	46	50	52	55	55	55	55	55	55	55		
Indoor unit connectable capacity		Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling	Cooling		
kW		22.4-58.2	25.2-65.5	28-72.6	33.6-87.3	36.4-94.6	39.2-101.7	42.4-110.2	44.7-116.2	48-124.6	50.3-130.6	53.5-139.1	56.8-147.5	60-156	62.5-162.5	65-169		
Power source		3 phase 4 wire, 400 V, 50Hz									3 phase 4 wire, 400 V, 50Hz							
T1 condition	Capacity	Cooling	kW															
		Heating	kW															
	Input power	Cooling	kW															
		Heating	kW															
	Current	Cooling	A															
		Heating	A															
	EER	Cooling	W/W															
		Heating	W/W															
	COP	Cooling	Btu/h/W															
		Heating	Btu/h/W															
T3 condition	Capacity	Cooling	kW															
		Heating	kW															
	Input power	Cooling	kW															
		Heating	kW															
	Current	Cooling	A															
		Heating	A															
	EER	Cooling	W/W															
		Heating	W/W															
	COP	Cooling	Btu/h/W															
		Heating	Btu/h/W															
Power factor		%																
Air flow rate		m <sup>3</sup> /h																
Sound pressure level		dB (A)																
Maximum external static pressure		Pa																
Compressor motor output		kW																
Heat exchanger fin		Blue fin																
Dimensions	Height	mm																
	Width	mm																
	Depth	mm																
Weight		kg																
Refrigerant		Type																
Connection pipe diameter		mm																
Operating range		°CDB																

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

AJH\_LN\*\*H(H) : AJH\_LNTD(H), AJH\_LNLCH(H)

# 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)



# 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 96,000 Btu/h

## Indoor units range

Capacity range		Btu/h	7,000	9,000	12,000	14,000	18,000	24,000	30,000	34,000	36,000	45,000	54,000	60,000	72,000	90,000	96,000		
		kW	2.2	2.8	3.6	4.5	5.6	7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0	28.0		
Cassette	Compact Cassette		AUXB07GALH	AUXB09GALH AUXB09GATH	AUXB12GALH AUXB12GATH	AUXB14GALH AUXB14GATH	AUXB18GALH AUXB18GATH		AUXB24GALH AUXB24GATH										
	4-way Flow	(Slim type)																	
		(Large type)																	
	Circular Flow	(Slim type)																	
		(Large type)																	
	Duct	Mini Duct (With drain pump)		ARXX07GCLH	ARXX09GCLH	ARXX12GCLH	ARXX14GCLH	ARXX18GCLH											
Mini Duct (Without drain pump)			ARXX07GALH	ARXX09GALH	ARXX12GALH	ARXX14GALH	ARXX18GALH												
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																			
Floor	Floor (Same as Ceiling models)																		
	Slim Concealed Floor (Same as Slim Duct models)		ARXD07GALH ARXD07GATH	ARXD09GALH ARXD09GATH	ARXD12GALH ARXD12GATH	ARXD14GALH ARXD14GATH	ARXD18GALH ARXD18GATH												
Ceiling	Ceiling																		
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.												

\*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    AUXB09GATH
- AUXB09GALH    AUXB12GATH
- AUXB12GALH    AUXB14GATH
- AUXB14GALH    AUXB18GATH
- AUXB18GALH    AUXB24GATH
- AUXB24GALH

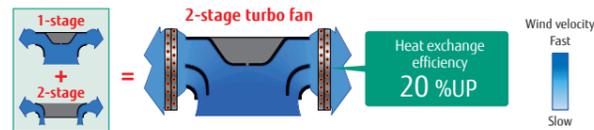


**Feature**

## 2-stage turbo fan

### High efficiency design by 2 stage structure

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

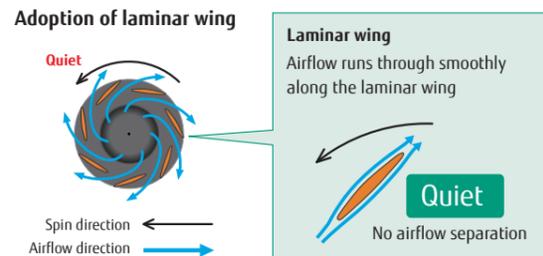


**Previous turbo fan**  
In the case of a previous fan, the air outlet range was narrow as the airflow moved to the motor side which meant the velocity of air passing through the heat exchanger was uneven.

## Quiet quality

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

Designed by CFD-analysis (fluid) simulations



## Improvement of the airflow distribution



### 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 3.0 m (12/14/18/24).

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

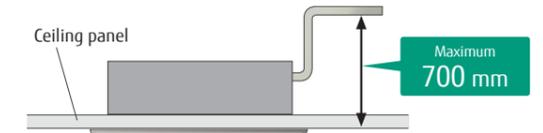


## Compact design

World's first 24,000 Btu 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	AUXB09GALH AUXB09GATH	AUXB12GALH AUXB12GATH	AUXB14GALH AUXB14GATH	AUXB18GALH AUXB18GATH	AUXB24GALH AUXB24GATH
Power source		Single phase, 220-240V, 50Hz					
Capacity	Cooling	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	2.8	3.2	4.1	5.0	6.3	8.0
Input power		25	25	29	35	36	84
Airflow rate	High	540 (150)	550 (153)	600 (167)	680 (189)	710 (197)	1,030 (286)
	Med	450 (125)	450 (125)	530 (147)	590 (164)	580 (161)	830 (231)
	Low	350 (97)	350 (97)	390 (108)	390 (108)	400 (111)	450 (125)
Sound pressure level	High	34	35	37	38	41	50
	Med	30	30	34	34	35	44
	Low	25	25	27	27	27	30
Dimensions (H x W x D)	mm	245 x 570 x 570	245 x 570 x 570	245 x 570 x 570	245 x 570 x 570	245 x 570 x 570	245 x 570 x 570
Weight		15 (33)	15 (33)	15 (33)	15 (33)	17 (37)	17 (37)
Connection pipe diameter	Liquid (Flare)	6.35	6.35	6.35	6.35	9.52	9.52
	Gas (Flare)	12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.D.)		25 / 32					
Cassette Grille	Model name	UTG-UFGC-W					
	Dimensions (HxWxD)	50 x 700 x 700					
	Weight	2.6 (6)					

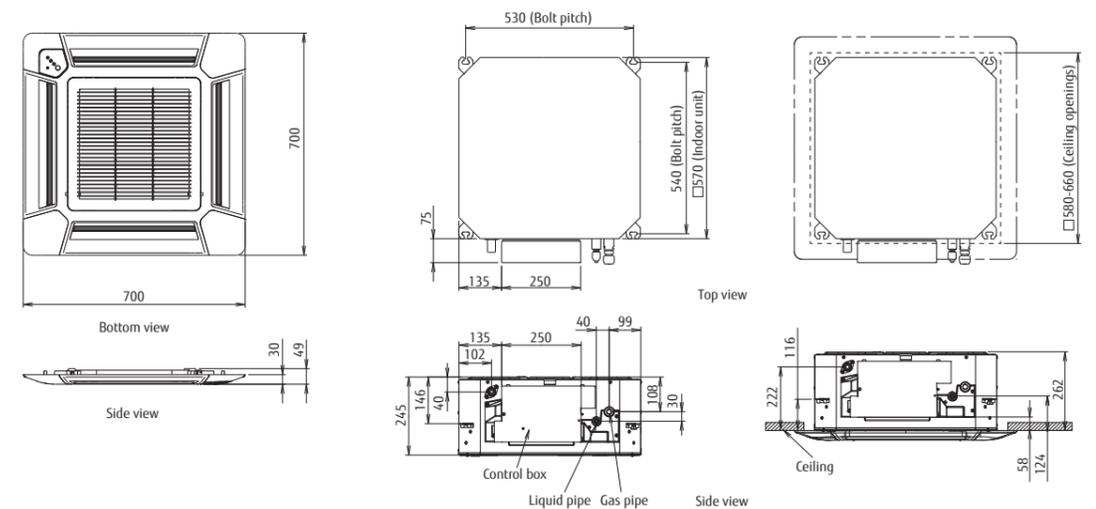
Note : Specifications are based on the following conditions.

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

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

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

## Dimensions (Unit: mm)



# 4-way Flow Cassette (Slim type)

**Models**

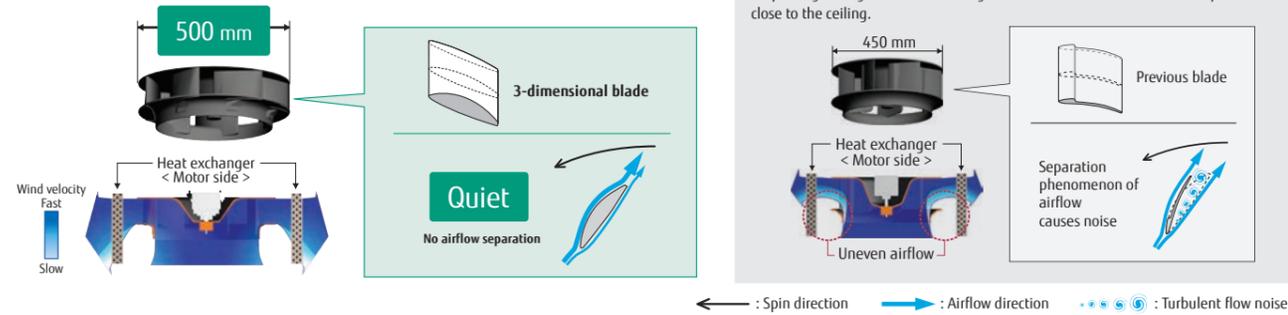
AUXD18GALH  
AUXD24GALH



**Feature**

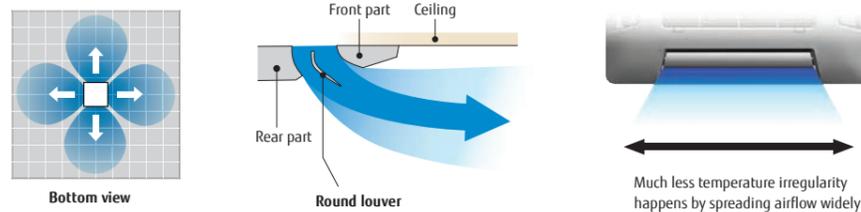
## High efficiency turbo fan with 3-dimensional blade

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

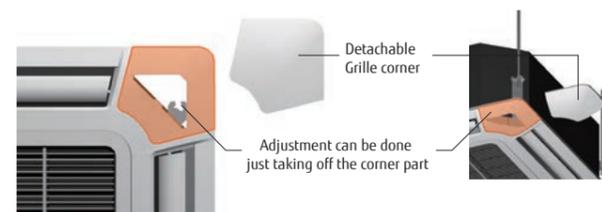


## Improvement of the airflow distribution

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

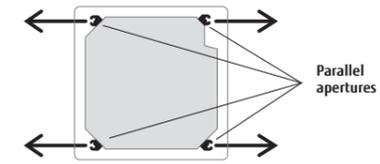


## High ceiling mode

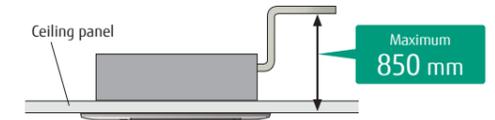
This cassette can be installed up to a height of 3.5 m.

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

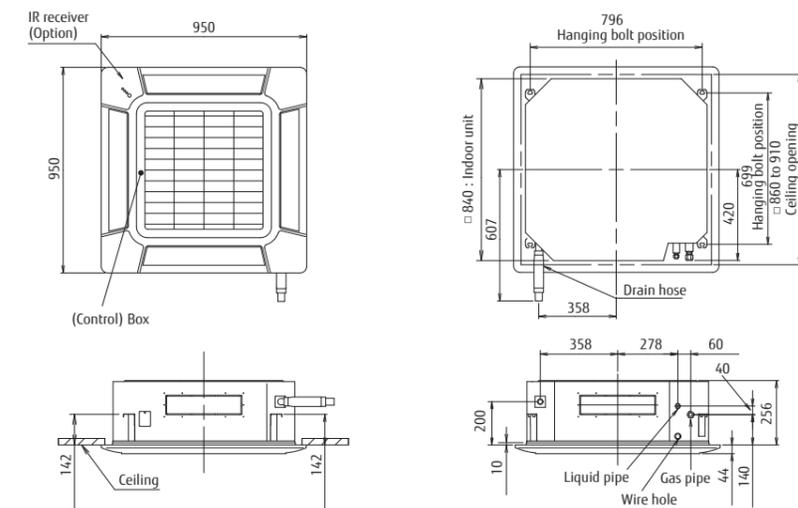
- IR Receiver Unit : UTY-LRHGB1
- Air Outlet Shutter Plate : UTR-YDZK
- Panel Spacer : UTG-BKXA-W
- Insulation Kit for High Humidity : UTZ-KXRA
- Wide Panel : UTG-AKXA-W

## Specifications

Model name		AUXD18GALH		AUXD24GALH	
Power source		Single phase, 220-240V, 50Hz			
Capacity	Cooling	5.6		7.1	
	Heating	6.3		8.0	
Input power		39		46	
Airflow rate	High	1,150 (319)		1,280 (356)	
	Med	940 (261)		1,040 (289)	
	Low	870 (242)		870 (242)	
Sound pressure level	High	36		38	
	Med	30		33	
	Low	29		29	
Dimensions (H × W × D)		246 × 840 × 840		246 × 840 × 840	
Weight		22 (48)		22 (48)	
Connection pipe diameter	Liquid (Flare)	9.52		9.52	
	Gas (Flare)	15.88		15.88	
Drain hose diameter (I.D./O.D.)		25 / 32		25 / 32	
Cassette Grille		UTG-UGGA-W			
Dimensions (H×W×D)		50 × 950 × 950			
Weight		5.5 (12)			

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

## Dimensions (Unit : mm)



# 4-way Flow Cassette (Large type)

**Models**

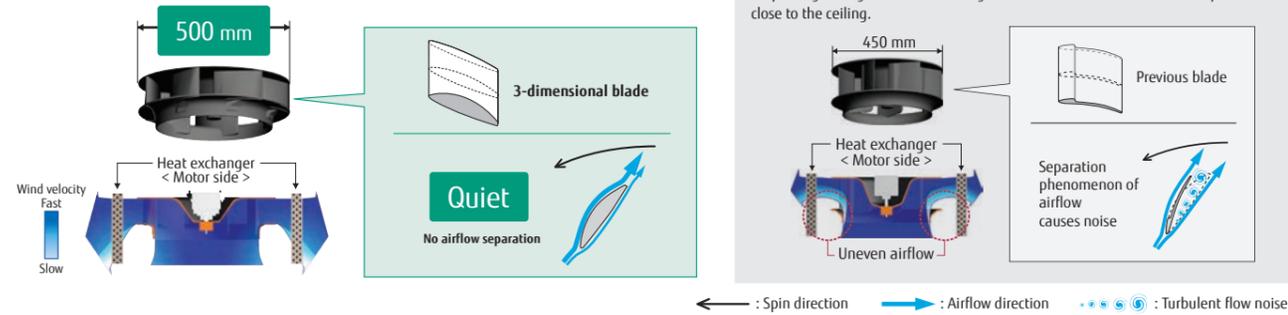
- AUXA18GALH
- AUXA24GALH
- AUXA30GALH
- AUXA34GALH
- AUXA36GALH
- AUXA45GALH
- AUXA54GALH



**Feature**

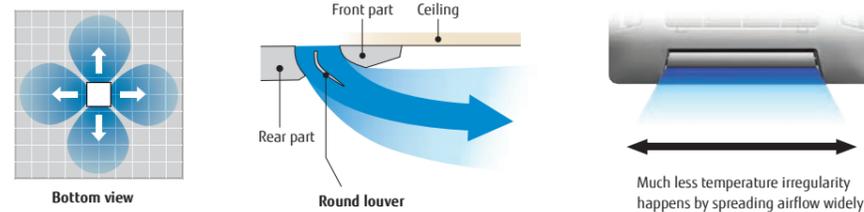
## High efficiency turbo fan with 3-dimensional blade

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

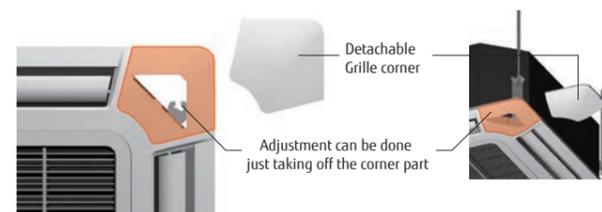


## Improvement of the airflow distribution

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

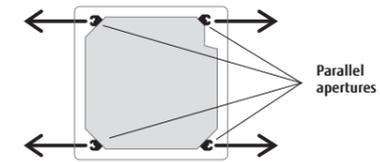


## High ceiling mode

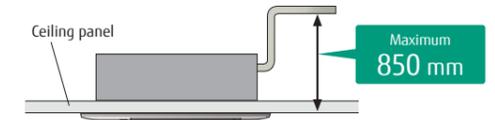
This cassette can be installed up to a height of 4.2 m (36/45/54).

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

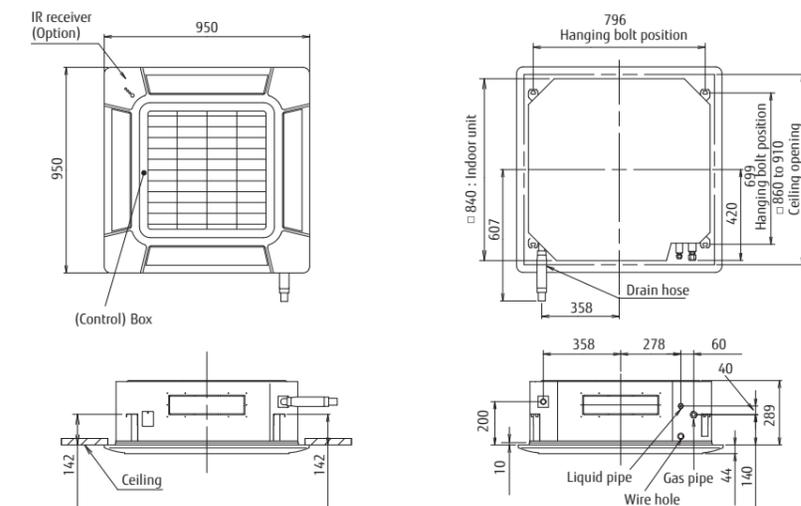
## Specifications

Model name	AUXA18GALH	AUXA24GALH	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH
Power source	Single phase, 220-240V, 50Hz						
Capacity	Cooling	5.6	7.1	9.0	10.0	11.2	14.0
	Heating	6.3	8.0	10.0	11.2	12.5	16.0
Input power	W	51	51	59	77	80	99
Airflow rate	High	1,420 (394)	1,420 (394)	1,600 (444)	1,750 (486)	1,800 (500)	1,900 (528)
	Med	1,230 (342)	1,230 (342)	1,300 (361)	1,300 (361)	1,300 (361)	1,370 (381)
	Low	1,100/1,000*1 (306/278)	1,100/1,000*1 (306/278)	1,100 (306)	1,100 (306)	1,100 (306)	1,100 (306)
Sound pressure level	High	40	40	40	43	44	46
	Med	36	36	38	38	38	39
	Low	33/31*1	33/31*1	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
Weight	kg(lbs)	27 (59)	27 (59)	27 (59)	27 (59)	27 (59)	27 (59)
Connection pipe diameter	Liquid (Flare)	9.52	9.52	9.52	9.52	9.52	9.52
	Gas (Flare)	15.88	15.88	15.88	15.88	19.05	19.05
Drain hose diameter (I.D./O.D.)		25 / 32					
Cassette Grille	Model name	UTG-UGGA-W					
	Dimensions (H×W×D)	50 × 950 × 950					
	Weight	5.5 (12)					

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

\*1: This value is under cooling operation.

## Dimensions (Unit : mm)



# Circular Flow Cassette

**Models (Slim type)**  
 AUXM018GTAH  
 AUXM024GTAH



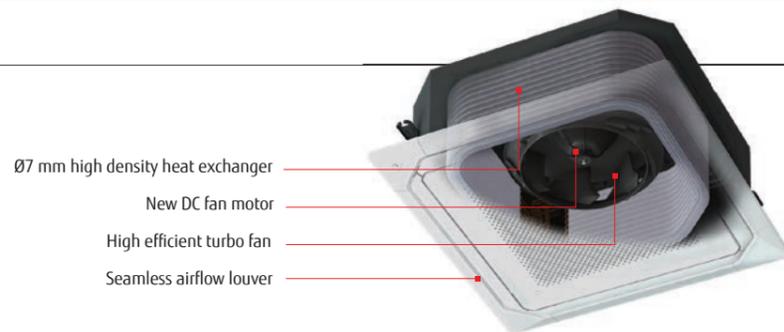
**Models (Large type)**  
 AUXK018GTAH  
 AUXK024GTAH  
 AUXK030GTAH  
 AUXK034GTAH  
 AUXK036GTAH  
 AUXK045GTAH  
 AUXK054GTAH



## Feature

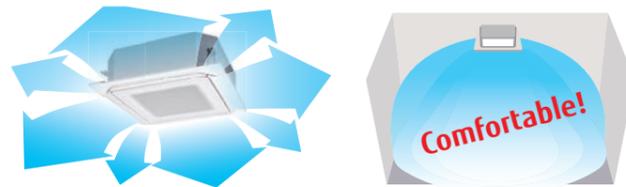
### Unique Circular Flow design

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



### Uniform temperature air conditioning

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



### Individual louver control

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

\* Touch Panel Wired RC (UTY-RNRGZ3) 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-RNRGZ3) 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: UTY-SHZXC
- Wide Panel: UTG-AKXA-W
- Panel Spacer: UTG-BKXA-W
- Air Outlet Shutter Plate: UTR-YDZK
- Insulation Kit for High Humidity: UTZ-KXRA
- Cassette Grille: UTG-UKGD-W, UTG-UKGA-B
- IR Receiver Unit: UTY-LBHxD



## 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	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	1,050	1,120	1,420	1,420	1,440	1,440	1,620	1,820	2,040		
	Med-High	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		
	Med-Low	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		
Sound pressure level	Quiet	780	780	1,150	1,150	1,150	1,150	1,150	1,150	1,150		
	High	33	35	38	38	39	39	41	44	47		
	Med-High	32	33	37	37	38	38	40	42	45		
	Med	31	32	36	36	37	37	38	40	42		
	Med-Low	30	31	35	35	36	36	37	38	39		
Cassette Grille	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		
	Weight	kg	24.0	24.5	26.5	26.5	29.5	29.5	29.5	29.5		
	Connection pipe diameter	mm	6.35	9.52	6.35	9.52	9.52	9.52	9.52	9.52		
Drain hose diameter (I.D./O.D.)		25 / 32										
Cassette Grille	Model name	UTG-UKGD-W/UTG-UKGA-B										
	Dimensions (H×W×D)	mm	53×950×950									
	Weight	kg	6.0									

Note : Specifications are based on the following conditions.

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

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

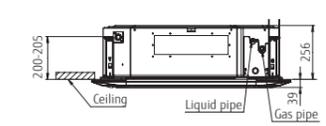
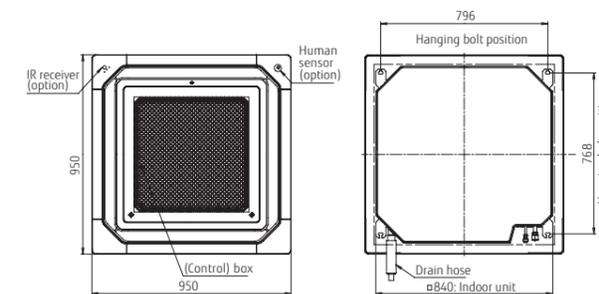
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

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

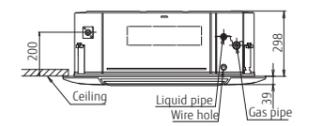
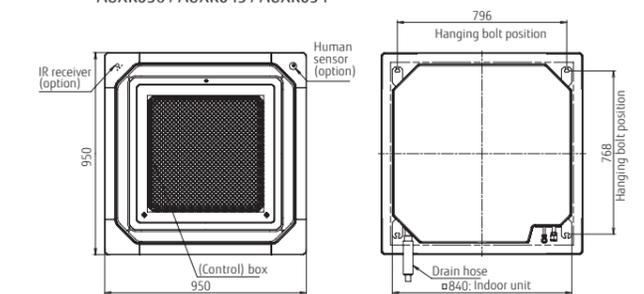
When AUXK036GTAH is connected to the outdoor unit other than J-III, gas pipe diameter should be Ø19.05.

## 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)**

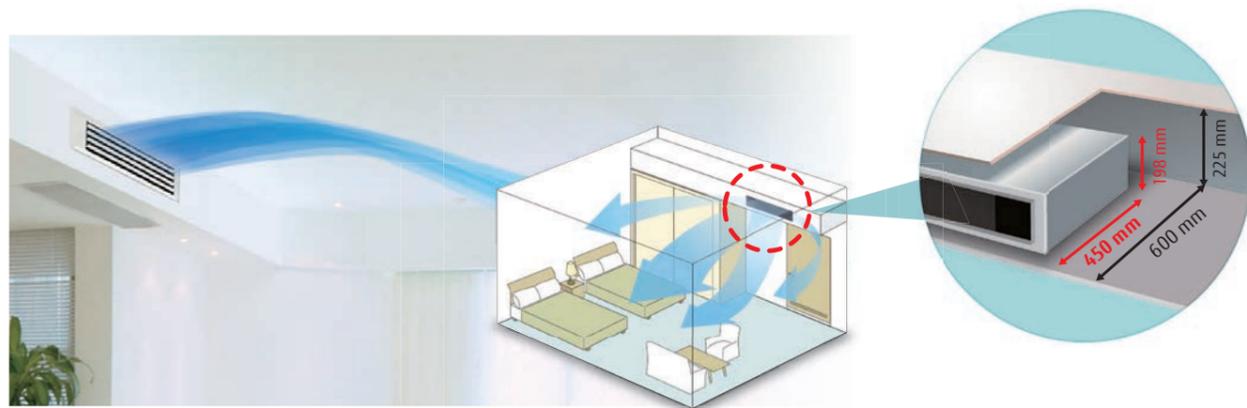
- ARXK07GALH
- ARXK09GALH
- ARXK12GALH
- ARXK14GALH
- ARXK18GALH
- ARXK24GALH



**Feature**

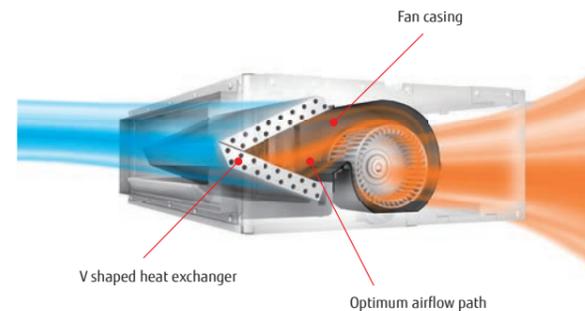
## Optimum design in harmony with interior decoration

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



## Advanced performance by new shaped heat exchanger and airflow

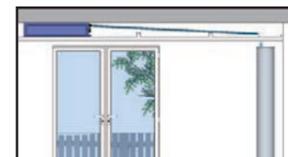
Air blower is improved so that velocity distribution is optimum in accordance with the heat exchanger shape. Wide range and uniform airflow can be received due to heat exchanger.



## Easy drain design even at narrow ceiling

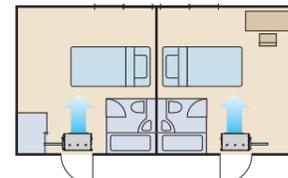
**Models with drain pump:** Drainage to the distant drain port is possible.  
**Models without drain pump:** Both sides drainage is possible.

**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

**6-Step Speed**

- High
- Med-High
- Med
- Med-Low
- Low
- Quiet



\* Compatible Remote Controller is as follows:  
 UTY-RNRGZ3 / UTY-RLRG / UTY-RSRG / UTY-RHRG / UTY-DCGGZ1 / UTY-ALGXZ1 / UTY-APGXZ1

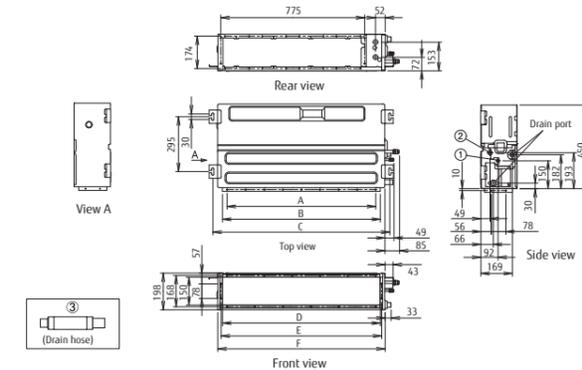
## Specifications

Model name		ARXK07GCLH ARXK07GALH	ARXK09GCLH ARXK09GALH	ARXK12GCLH ARXK12GALH	ARXK14GCLH ARXK14GALH	ARXK18GCLH ARXK18GALH	ARXK24GCLH ARXK24GALH
Power source		Single phase, 220-240V, 50Hz					
Capacity	Cooling	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	2.8	3.2	4.0	5.0	6.3	8.0
Input power	GCLH / GALH	28 / 21	28 / 21	35 / 28	66 / 59	73 / 66	80 / 73
	W						
Airflow rate	High	460 (128)	460 (128)	550 (153)	760 (211)	930 (258)	1,160 (322)
	Med-High	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-Low	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	High	10	10	10	15	15	15
	Med-High	26	26	29	34	33	32
Sound pressure level	Med	25	25	27	31	30	30
	Med-Low	24	24	26	28	28	28
	Low	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	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)
	kg(lbs)						
Connection pipe diameter	Liquid (Flare)	6.35	6.35	6.35	6.35	9.52	9.52
	Gas (Flare)	12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.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)

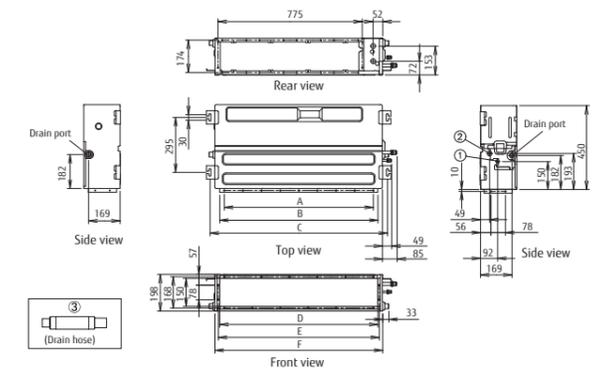
Models: ARXK07GCLH / ARXK09GCLH / ARXK12GCLH / ARXK14GCLH / ARXK18GCLH / ARXK24GCLH



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

	ARXK07-14GCLH	ARXK18GCLH	ARXK24GCLH
A	P100-6-600	P100-8-800	P100-10-1,000
B	650	850	1,050
C	752	952	1,152
D	650	850	1,050
E	665	864	1,064
F	700	900	1,100

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



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

	ARXK07-14GALH	ARXK18GALH	ARXK24GALH
A	P100-6-600	P100-8-800	P100-10-1,000
B	650	850	1,050
C	752	952	1,152
D	650	850	1,050
E	665	864	1,064
F	700	900	1,100

# Slim Duct / Slim Concealed Floor

Models (With drain pump)

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



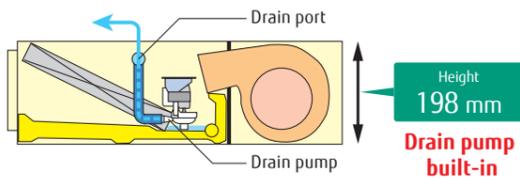
Slim Concealed Floor



## Feature

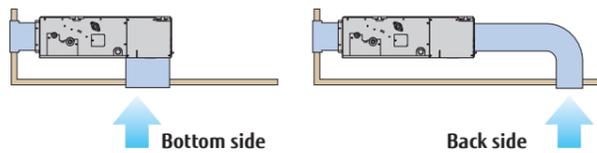
### Slim design

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



### Air-intake

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



### Selectable with a wide range of static pressure

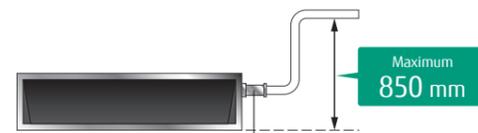
By using DC fan motor, it is possible to change of static pressure range 0 to 90 Pa. The change of static pressure range is possible by remote controller.



Static pressure range  
0 to 90 Pa

\*24 model is 0 to 50 Pa

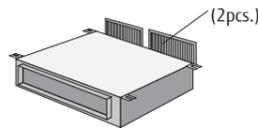
### High lift drain pump



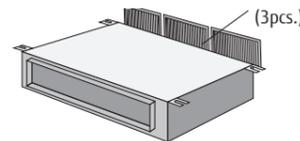
Drain hose is standard accessory

### Filter (Accessory)

ARXD07 / 09 / 12 / 14 / 18

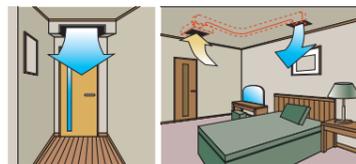


ARXD24

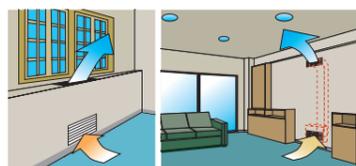


### Flexible installation

Ceiling concealed

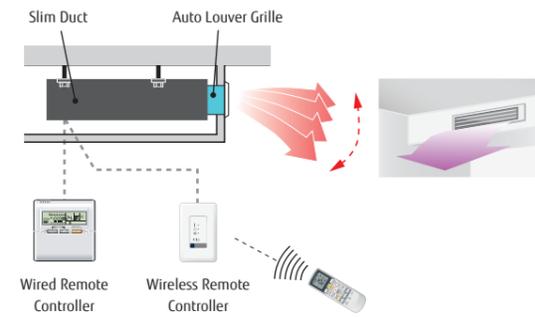


Floor concealed



### Auto Louver Grille Kit (Option)

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



### Optional parts

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

### Specifications

Model name	ARXD07GALH ARXD07GATH	ARXD09GALH ARXD09GATH	ARXD12GALH ARXD12GATH	ARXD14GALH ARXD14GATH	ARXD18GALH ARXD18GATH	ARXD24GALH ARXD24GATH		
Power source	Single phase, 220-240V, 50Hz							
Capacity	Cooling	2.2	2.8	3.6	4.5	5.6	7.1	
	Heating	2.8	3.2	4.0	5.0	6.3	8.0	
Input power	kW		44	50	54	92	83	122
Airflow rate	High	550 (153)	600 (167)	600 (167)	800 (222)	940 (261)	1,330 (369)	
	Med	490 (136)	550 (153)	510 (142)	710 (197)	840 (233)	1,240 (344)	
	Low	440 (122)	480 (133)	450 (125)	610 (169)	750 (208)	1,100 (306)	
Static pressure range	Pa		0 to 90	0 to 90	0 to 90	0 to 90	0 to 50	
Standard static pressure	High	25	25	25	25	25	25	
	Med	28	29	30	34	34	35	
	Low	22	24	24	28	28	29	
Sound pressure level	High	25	26	27	32	32	32	
	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)	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.

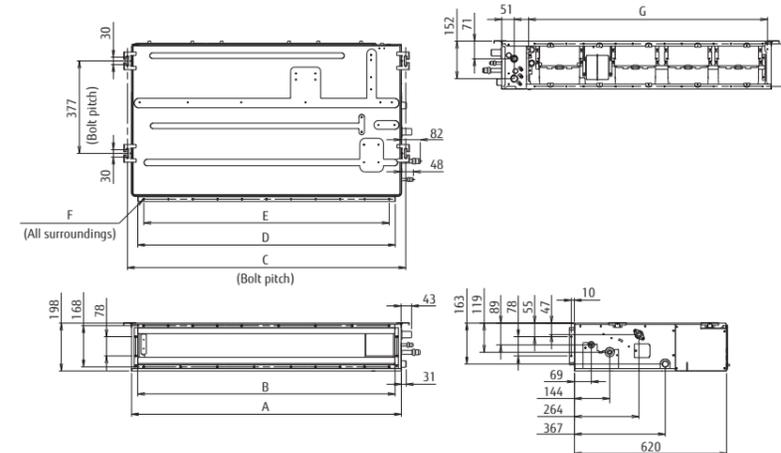
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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**

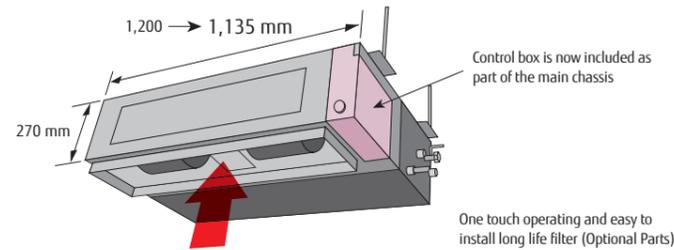
- ARXA24GBLH    ARXA24GBTH
- ARXA30GBLH    ARXA30GBTH
- ARXA36GBLH    ARXA36GBTH
- ARXA45GBLH    ARXA45GBTH



**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 150 Pa.

Static pressure range  
**0 to 150 Pa**

### Can be installed for various location

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



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



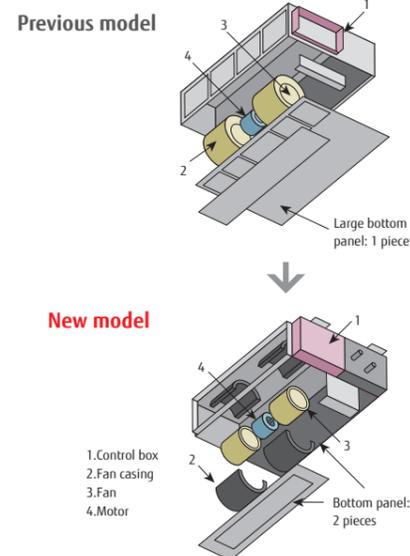
### Easy setting by using remote controller

The change of static pressure range is possible by remote controller



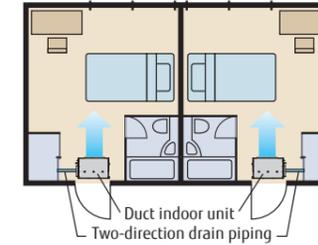
### Easy maintenance

See below for the case of rear suction type



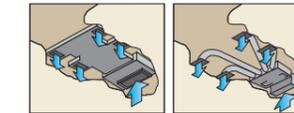
Structural improvement is attained by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing while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

### Two-direction drain piping



### Installation styles

**Embedded in Ceiling**



**Hanging from Ceiling**



**Optional parts**

- Remote Sensor Unit : UTY-XSZX
- Long Life Filter : UTD-LF25NA
- Flange (Square) : UTD-SF045T
- Flange (Round) : UTD-RF204
- IR Receiver Unit : UTB-YWC
- Drain Pump Unit : UTZ-PX1NBA

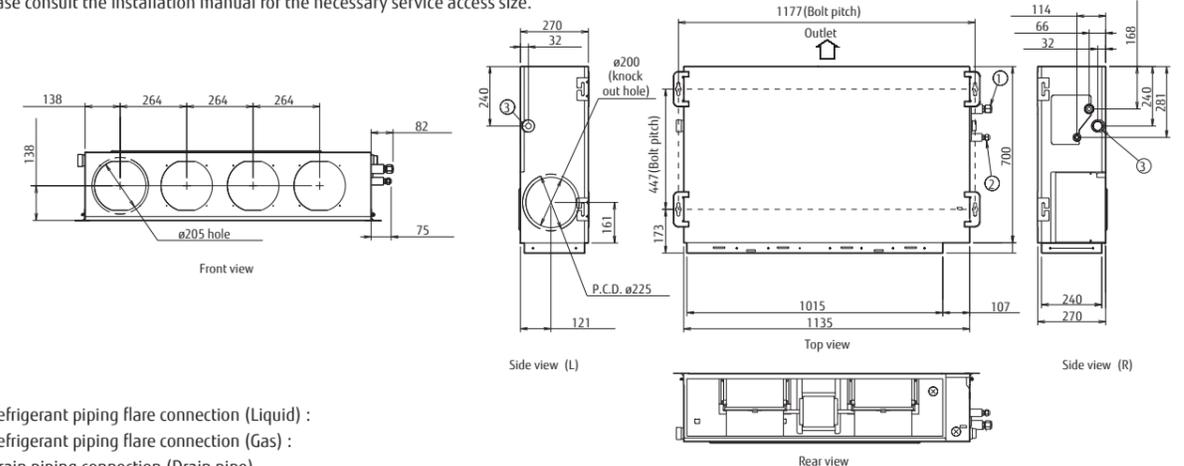
### Specifications

Model name	ARXA24GBLH ARXA24GBTH	ARXA30GBLH ARXA30GBTH	ARXA36GBLH ARXA36GBTH	ARXA45GBLH ARXA45GBTH
Power source	Single phase, 220-240V, 50Hz			
Capacity	Cooling	7.1	9.0	11.2
	Heating	8.0	10.0	12.5
Input power	94	108	194	240
Airflow rate	High	1,280 (356)	1,410 (392)	1,840 (511)
	Med	990 (275)	1,280 (356)	1,600 (444)
	Low	840 (233)	1,150 (319)	1,470 (408)
Static pressure range	0 to 150			
Standard static pressure	40	50	50	60
Sound pressure level	High	31	34	37
	Med	27	32	35
	Low	23	29	33
Dimensions (H × W × D)	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700
Weight	39 (86)	42 (93)	42 (93)	42 (93)
Connection pipe diameter	Liquid (Flare)	9.52	9.52	9.52
	Gas (Flare)	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)	25 / 32			

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



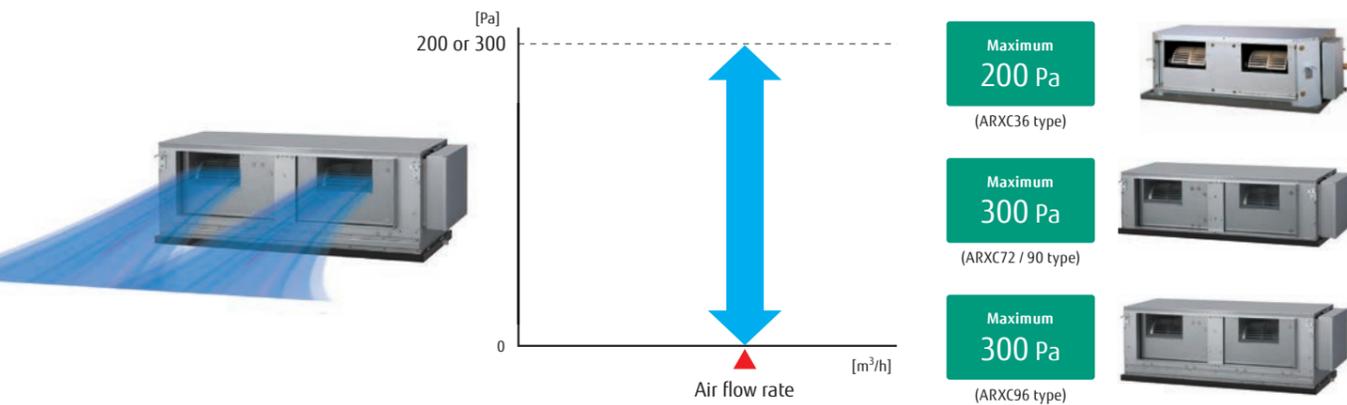
Models  
ARXC96GATH



## Feature

### Static pressure selection

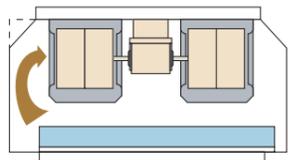
By using DC fan motor, it is possible to change static pressure range from 0 to 200 Pa (ARXC36) / 300 Pa (ARXC72 / 90 / 96).



### Low noise

Models : ARXC36

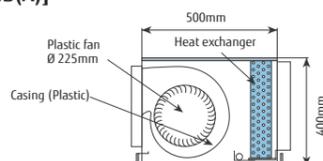
Cutting off the corners of the conventional indoor unit front panel and fan casing, has enabled less turbulent air flow. Low noise is realized by adopting a plastic case and a plastic fan.



New model  
(ARXC36GBTH)

ARXC36GBTH : Plastic fan [42dB(A)]

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



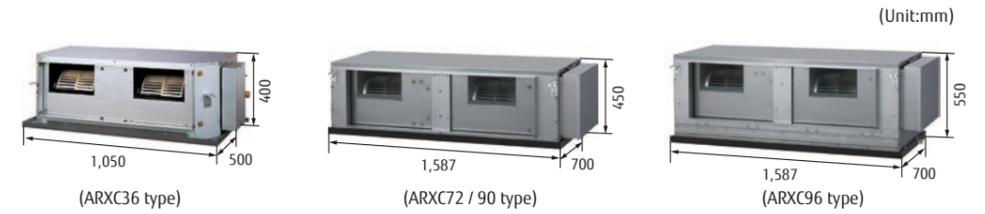
### Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.



### Easy installation (Compact size & Lightweight)

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



### Optional parts

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

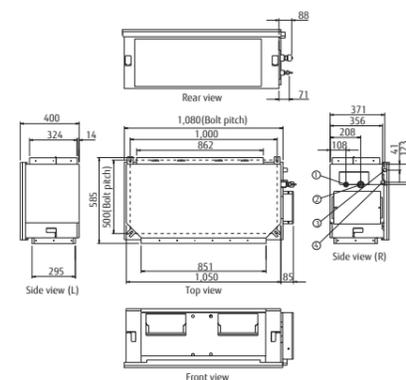
### Specifications

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

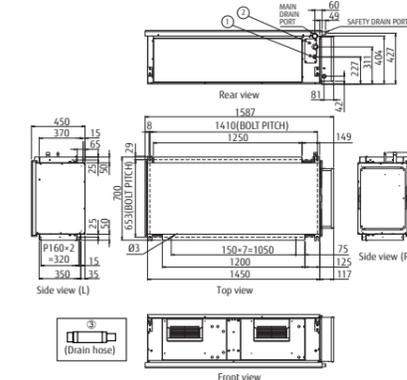
Note : Specifications are based on the following conditions.  
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.  
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.  
Pipe length : 7.5 m; Height difference between outdoor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

### Dimensions (Unit: mm)

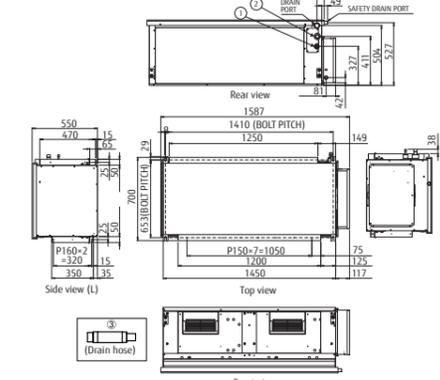
Models: ARXC36



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



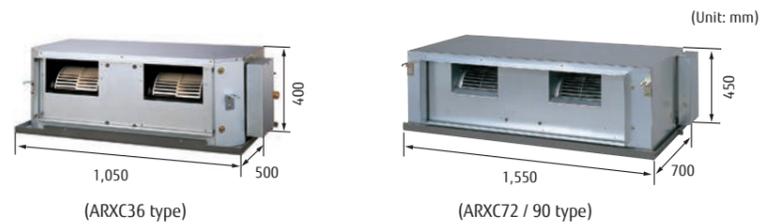
Models  
ARXC72GATH  
ARXC90GATH



## 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

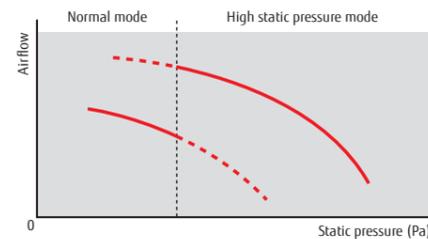
Models : ARXC72 / ARXC90

2 Types of static pressure mode are selectable.



### High Static Pressure Duct (ARXC72)

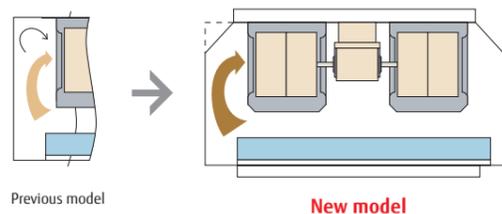
The adoption of a single phase fan motor allows 3 steps fan speed control



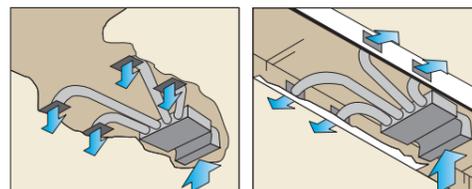
### Low noise

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



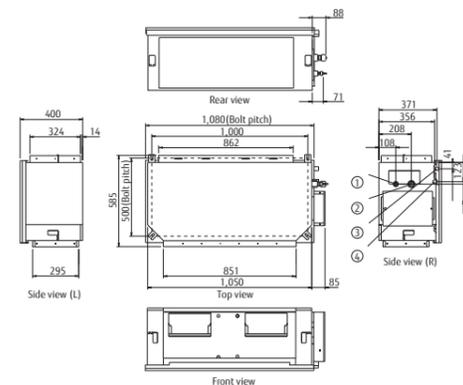
## Specifications

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

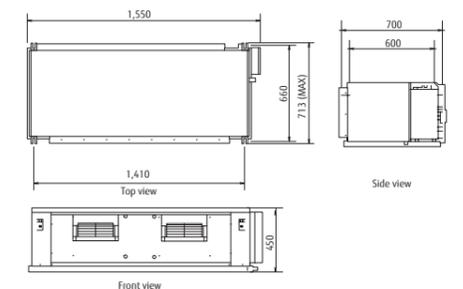
Note : Specifications are based on the following conditions.  
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.  
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.  
Pipe length : 7.5 m; Height difference between outdoor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



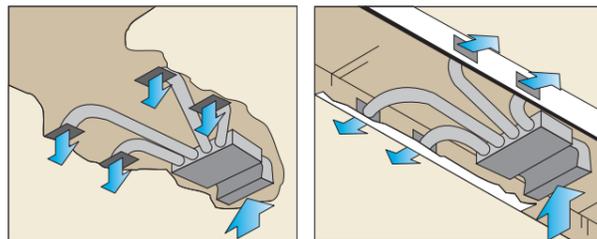
**Feature**

## 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



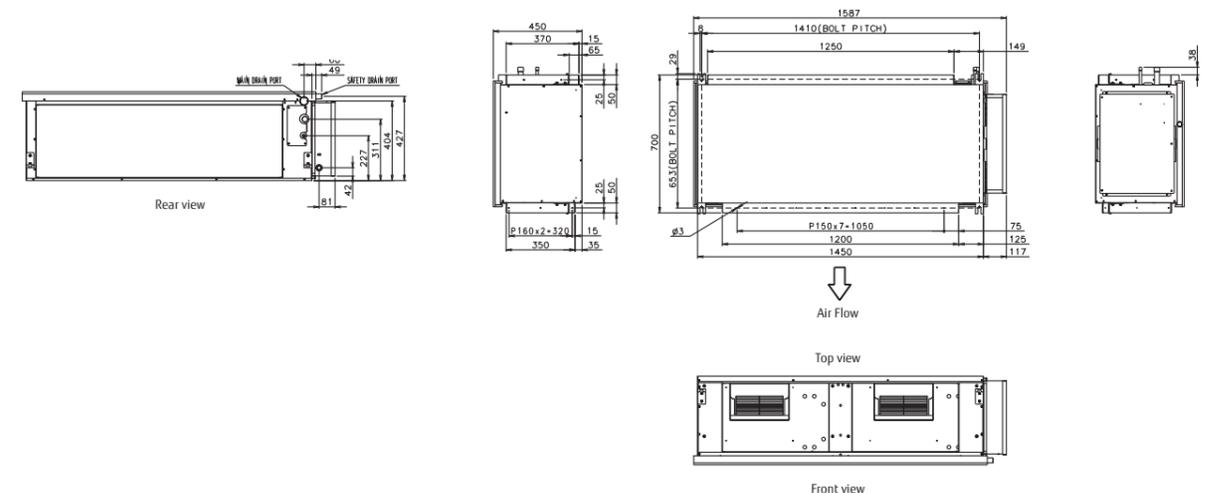
## Specifications

Model name	ARXN18GATH	ARXN24GATH	ARXN30GATH	ARXN34GATH	ARXN36GATH	ARXN45GATH	
Power source	Single phase, 220-240V, 50Hz						
Capacity	Cooling	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	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	Pa	50	50	50	50	60	60
Sound pressure level	High	35	37	40	43	45	45
	Med	-	-	-	-	-	-
	Low	-	-	-	-	-	-
Dimensions (H x W x D)	mm	450 x 1,587 x 700					
Weight	kg(lbs)	84 (185)	84 (185)	84 (185)	84 (185)	84 (185)	84 (185)
Connection pipe diameter	Liquid (Flare)	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

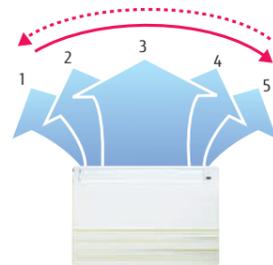
Under ceiling



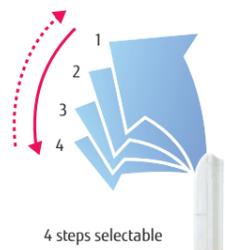
## Double auto swing

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

RIGHT and LEFT SWING



UP and DOWN SWING



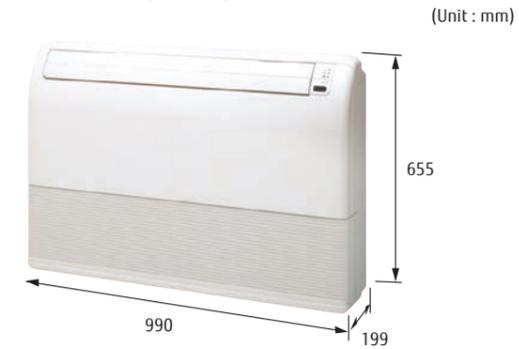
## High power DC fan motor

- High power
- Wide rotation range
- High efficiency



## Compact design

Symmetrical, slim and compact design.



## Auto-closing louver

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

## Super vane

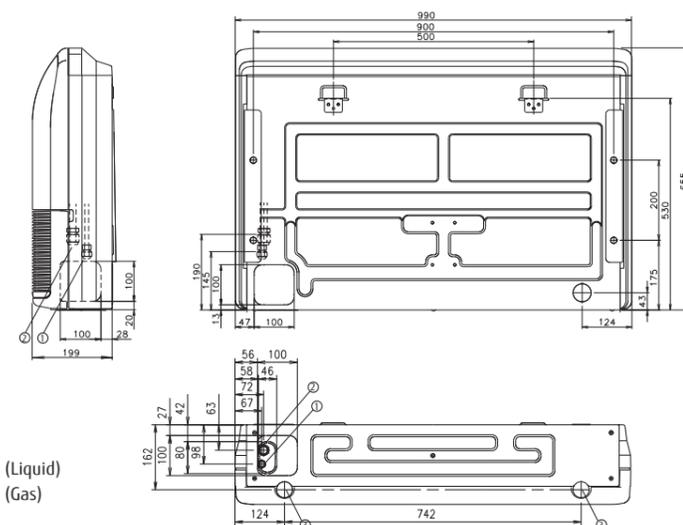
Double Louver Super vane with newly developed special configuration boosts airflow sending cool air quickly to every corner of the room.

## 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	m <sup>3</sup> /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.

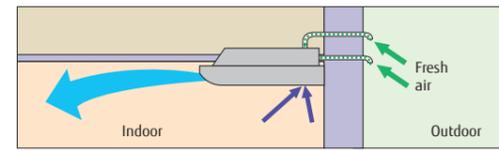
**Concealed**

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

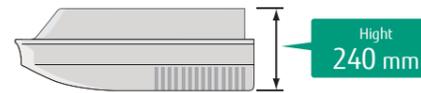
**Wall mounted**  
(Field Supplied)

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.

**Fresh air intake**

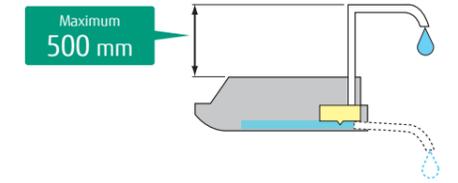


**Slim & Compact design**



**High lift drain pump**

Optional drain pump unit allows flexible installation design.



**Optional parts**

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

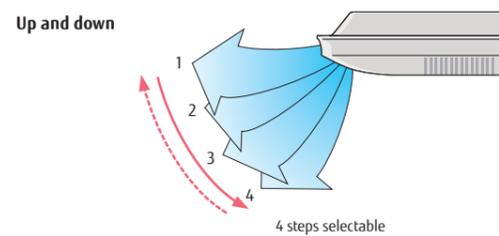
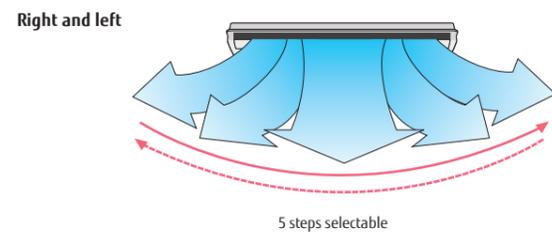
**Specifications**

Model name			ABHA30GATH	ABHA36GATH	ABHA45GATH	ABHA54GATH
Power source			Single phase, 220-240V, 50Hz			
Capacity	Cooling	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	m <sup>3</sup> /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].

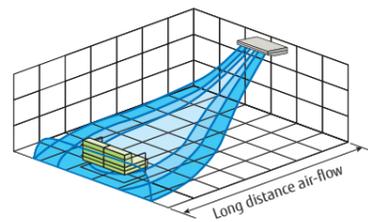
**Double auto swing and wide airflow**

Auto airflow direction and auto swing



**Long airflow**

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

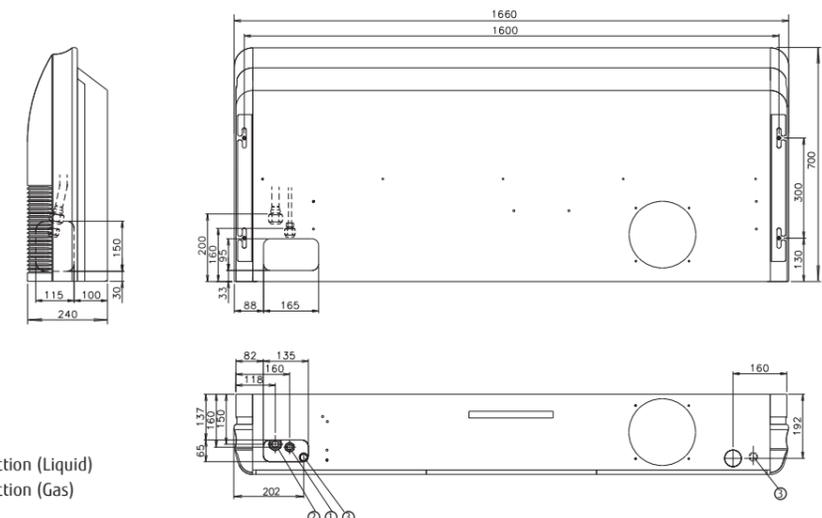


**High power DC fan motor**

- High power
- Wide rotation range
- High efficiency



**Dimensions** (Unit: mm)



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

# Wall Mounted

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



## 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.



Open panel

## Symmetrical design

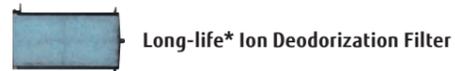
Symmetrical, clean design that suits all interiors.



## 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

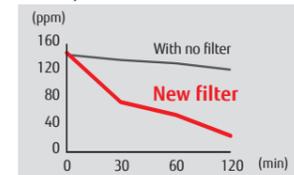
Fine dust, invisible mold spores, and harmful microorganisms are absorbed onto the filter by static electricity, and further growth is inhibited and deactivated by the polyphenol extracted from apples.

### Deodorizing effect (Odor reduction rate)

#### Ammonia



#### Trimethylamine



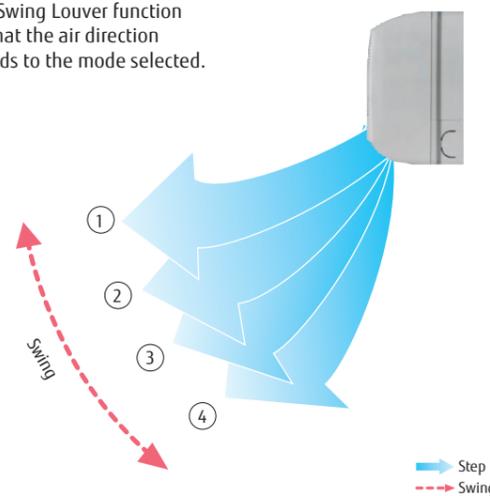
#### Hydrogen sulfate



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.

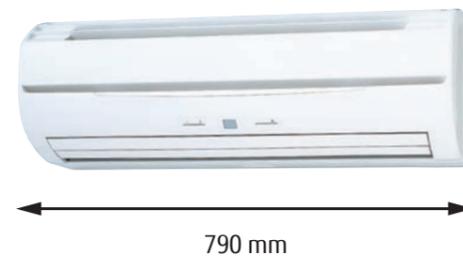


## Compact size

### Powerful output even compact design

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

Width  
790 mm



## Specifications

Model name	ASHA07GACH ASHA07GATH	ASHA09GACH ASHA09GATH	ASHA12GACH ASHA12GATH	ASHA14GACH ASHA14GATH	ASHE07GACH	ASHE09GACH	ASHE12GACH	ASHE14GACH	
Power source	Single phase, 220-240V, 50Hz				Single phase, 220-240V, 50Hz				
Capacity	Cooling	2.2	2.8	3.6	4.5	2.2	2.8	3.6	4.5
	Heating	2.8	3.2	4.1	5.0	2.8	3.2	4.1	5.0
Input power	17		18	22	34	15	16	21	34
Airflow rate	High	490 (136)	500 (139)	560 (156)	670 (186)	490 (136)	500 (139)	560 (156)	680 (189)
	Med	450 (125)	450 (125)	480 (133)	490 (136)	450 (125)	450 (125)	480 (133)	490 (136)
	Low	370/420*1 (103/117*1)	370/420*1 (103/117*1)	420 (117)	420 (117)	370/420*1 (103/117*1)	370/420*1 (103/117*1)	420 (117)	420 (117)
Sound pressure level	High	35	36	39	44	34	35	38	43
	Med	33	33	35	37	32	32	34	35
	Low	27 / 31*1	27 / 31*1	31	32	26 / 30*1	26 / 30*1	30	30
Dimensions (H × 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)
	Connection pipe diameter	Liquid (Flare)	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	
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.

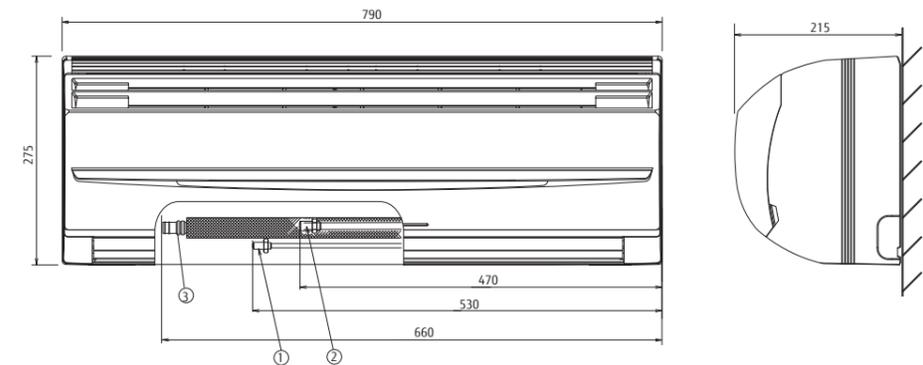
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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**

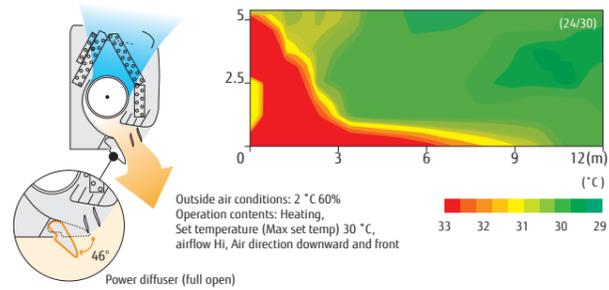
- ASHA18GACH ASHA18GATH
- ASHA24GACH ASHA24GATH
- ASHA30GACH ASHA30GATH



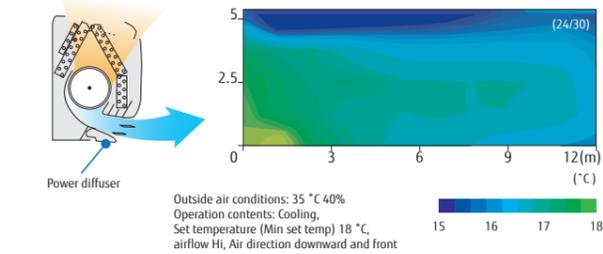
**Feature**

## More comfort airflow by adopting power diffuser

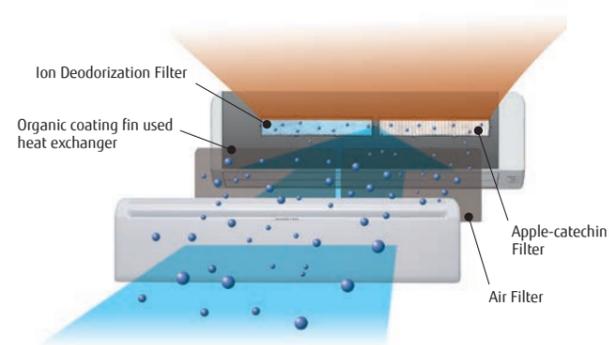
“Vertical airflow” provides powerful floor level heating



“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**

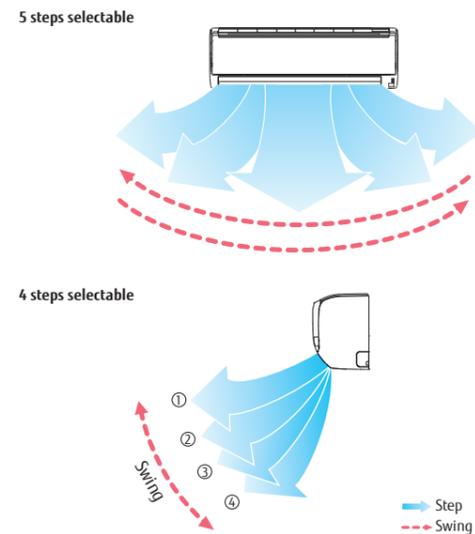
The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.

**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.



## Compact & Slim design

By using DC fan motor, compact design is realized.



## Easy maintenance

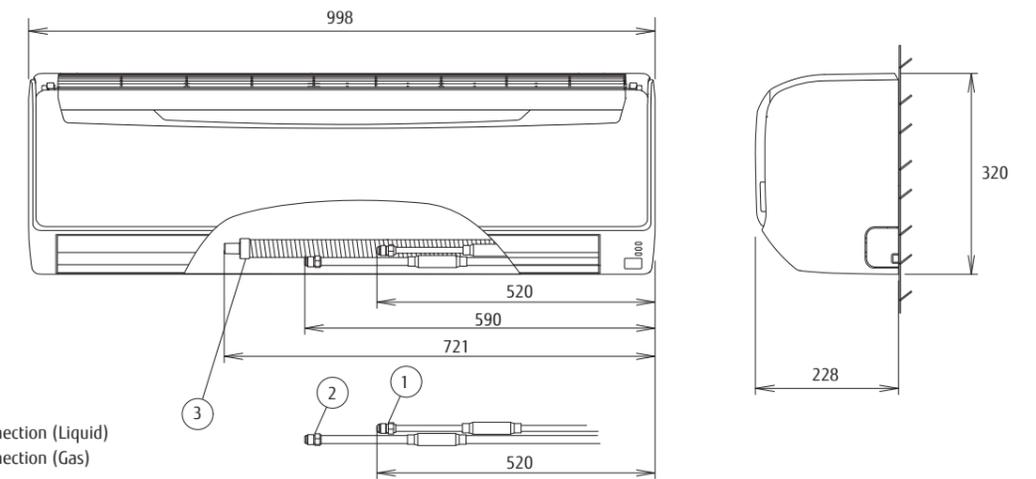
Simplification of drain pan cleaning improves maintenance-ability.

## Specifications

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



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

# 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

Centralized Controller

Convertor / Adaptor



# BEST CONTROL SOLUTION FOR EACH PROPERTY

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

## SHOP

Type	Individual Control			Centralized Control		Integrating Control (Interface)						
												
	Wired Remote Controller	Central Remote Controller	System Controller	Network Converter for LonWorks®	MODBUS® Convertor	KNX® Convertor						
UTY-RNRGZ3, UTY-RLRG, UTY-RCRGZ1, UTY-RCRGZ1K			UTY-DCGGZ1		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	Central Remote Controller	System Controller	BACnet® Gateway	Network Converter for LonWorks®	MODBUS® Convertor	KNX® Convertor	External Switch Controller										
UTY-RNRGZ3, UTY-RLRG, UTY-RCRGZ1, UTY-RCRGZ1K			UTY-RSRG, UTY-RHRG		UTY-LNHG		UTY-DCGGZ1		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

Type	Individual Control			Centralized Control		Integrating Control (Interface)														
																				
	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Central Remote Controller	System Controller	BACnet® Gateway	Network Converter for LonWorks®	MODBUS® Convertor	KNX® Convertor	External Switch Controller										
UTY-RNRGZ3, UTY-RLRG, UTY-RCRGZ1, UTY-RCRGZ1K			UTY-RSRG, UTY-RHRG		UTY-LNHG		UTY-DCGGZ1		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-RNRGZ3



**Wired Remote Controller**  
UTY-RNRG



**Compact Wired Remote Controller**  
UTY-RCRGZ1 **NEW**



**Compact Wired Remote Controller**  
UTY-RCRGZ1K **NEW**



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



**Wireless Remote Controller**  
UTY-LNHGU

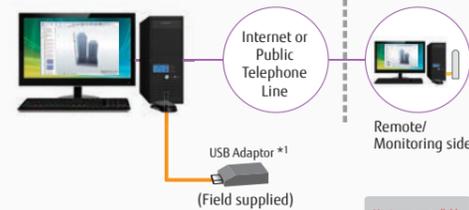


**IR Receiver Unit**  
UTB-YWC For Duct type



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

## Air Conditioning Centralized Control



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

Maximum controllable  
**1600\***  
Indoor units

\*: Lite edition is maximum controllable 400 indoor units



**Central Remote Controller**  
UTY-DCGGZ1 **NEW**

Maximum controllable  
**100**  
Indoor units

## Converter / Adaptor For external device

**BACnet® Gateway**  
UTY-ABGXZ1 (Software)



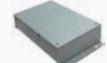
**BACnet® Gateway**  
UTY-VBGX (Hardware)



**Network Converter For LONWORKS®**  
UTY-VLGX



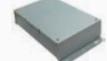
**MODBUS® Converter**  
UTY-VMGX



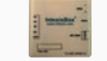
**MODBUS® Interface**  
FJ-RC-MBS-1



**KNX® Converter For VRF**  
UTY-VKGX



**KNX® Interface**  
FJ-RC-KNX-1i



**Wireless LAN Interface**  
FJ-RC-WIFI-1



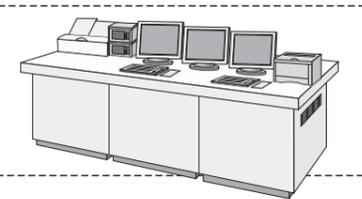
**External Switch Controller**  
UTY-TERX



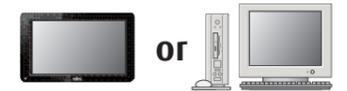
Card-key  
(Field supplied)

Internet device

BMS/BAS \*2



BMS, Home automation system



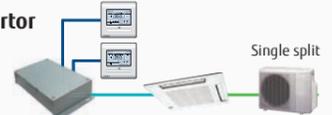
\*1. USB Adaptor: Echelon® U10 USB Network Interface  
\*2. BMS/BAS: Building Management System/Building Automation System

## Converter / Adaptor For system expansion

**Network Converter (DC power supply)**  
UTY-VTGX



**Network Converter (AC power supply)**  
UTY-VTGXV



**Signal Amplifier**  
UTY-VSGXZ1



**Thermostat Converter**  
UTY-TTRX



# COMPARISON TABLE OF CONTROLLERS

Item										
	Wired Remote Controller (Touch panel)	Wired Remote Controller	Compact Wired Remote Controller	Compact Wired Remote Controller	Simple Remote Controller	Simple Remote Controller*	Wireless Remote Controller	Central Remote Controller	System Controller Lite (Software)	System Controller (Software)
	UTY-RNRGZ3	UTY-RLRG	UTY-RCRGZ1	UTY-RCRGZ1	UTY-RSRG	UTY-RHRG	UTY-LNHGU	UTY-DCGGZ1	UTY-ALGXZ1	UTY-APGXZ1
Model name										
Max. controllable remote controller groups	1	1	1	1	1	1	1	100	400	1600
Max. controllable indoor units	16	16	1	1	16	16	16	100	400	1600
Max. controllable groups	-	-	-	-	-	-	-	16	400	1600
Air conditioning control function	On / Off	●	●	●	●	●	●	●	●	●
	Operation mode setting	●	●	●	●	●	●	●	●	●
	Fan speed setting	●	●	●	●	●	●	●	●	●
	Room temp. setting	●	●	●	●	●	●	●	●	●
	Room temp. set point limitation	●	●	-	-	●	●	-	●	●
	Test operation	●	●	●	●	●	●	-	-	-
	Up/down air direction flap setting	●	●	●	●	●	●	●	●	●
	Right/left air direction flap setting	●	●	●	●	-	-	●	●	●
	Individual louver control	●	-	●	●	-	-	-	-	-
	Group setting	-	-	-	-	-	-	-	●	●
	RC prohibition	-	-	-	-	-	-	-	●	●
	Anti freeze setting	●	-	●	●	-	-	-	●	●
	Set temp. auto return	●	●	-	-	-	-	-	-	-
	Economy mode setting	●	●	●	●	-	-	●	●	●
Human sensor control	●	-	-	-	-	-	-	-	●	
Display	Error	●	●	●	●	●	-	●	●	●
	Defrosting	●	●	●	●	●	-	●	●	●
	Current time	●	●	-	-	-	●	●	●	●
	Day of week	●	●	-	-	-	-	-	●	●
	R.C. prohibition	●	●	●	●	●	-	●	●	●
	Address display	●	●	●	●	●	-	-	●	●
	Room temp	●	-	●	●	●	-	●*3	●*3	●*3
	Multi language	●	-	-	-	-	-	●	●	●
	Summer time	●	-	-	-	-	-	●	●	●
	Name registration	●	-	-	-	-	-	●	●	●
	Backlight	●	-	●	●	●	●	-	-	-
	2D floor layout / 3D building display	-	-	-	-	-	-	-	-	-
	Refrigerant leakage detection function	-	-	-	-	-	-	-	-	●
	Timer	Schedule timer	Week	Week	-	-	-	-	Week	Year
		On/off, Temp, Mode, Times per day	8	4	-	-	-	20	144	144
On/off timer		●	●	● (OFF only)	● (OFF only)	-	-	-	-	-
Sleep timer		-	-	-	-	-	-	-	-	-
Program timer		-	-	-	-	-	-	-	-	-
Auto off timer		●	●	-	-	-	-	-	-	-
Control	Day off	●	●	-	-	-	-	●	●	●
	Min. unit of timer setting (Minutes)	10 + 30	30	-	-	-	5	10	10	10
	Status monitoring system	-	-	-	-	-	-	●	●	●
	Electricity charge apportionment	-	-	-	-	-	-	-	○	●
	Error history	●	●	-	-	-	-	-	●	●
	Emergency stop	-	-	-	-	-	-	●*2	-	-
	Remote management	-	-	-	-	-	-	-	○	●
	Energy saving management	-	-	-	-	-	-	-	○	○
	E-mail notification for malfunction	-	-	-	-	-	-	-	●	●
	Key lock	● Child lock	● Child lock	-	-	-	-	● Password setting	● Password setting	● Password setting
Low noise mode	-	-	-	-	-	-	-	●	●	

\*1 "Operation mode" setting is not available for this model. \*2 This function is available only through external input control. \*3 This function is available only when using wired remote controller.  
 ●: Supported ○: Optional function -: Not supported yet

# Wired Remote Controller (Touch Panel)

UTY-RNRGZ3

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

Maximum controllable  
**16**  
indoor units



## Functions

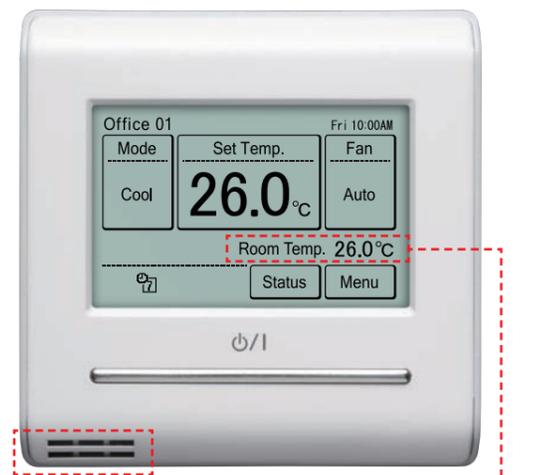
### High performance and compact size

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



### Accurate and comfortable control

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



Room temperature sensor

Room temperature display

### Backlight

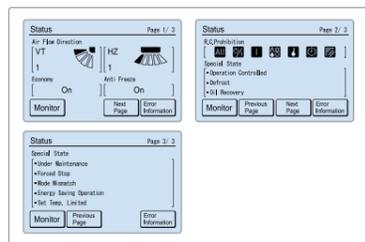
- Backlight enable easy operation in a darkened room.
- For the lighting time of Backlight, 30 or 60 seconds can be set.
- Backlight activates while the buttons are operated and goes off 30 or 60 seconds after the operation stops.



### Various convenient functions

#### Displays setting status and Limitations

- The remote controller settings can be easily checked



#### Summer Time display

- This function can be set easily from Menu screen



#### Child lock

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



#### Name Registration

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

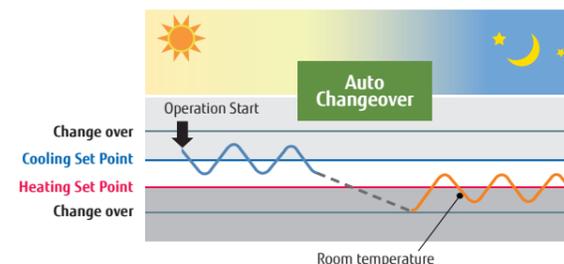


## Various energy saving control

### Custom Auto

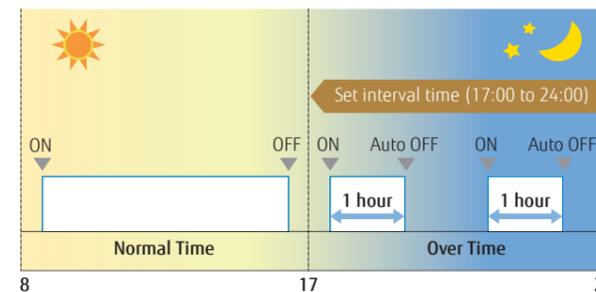
- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.
- \* This function is not available for some models.

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



### Auto OFF timer

- The indoor unit automatically is turned off when it reaches 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).

## Specifications

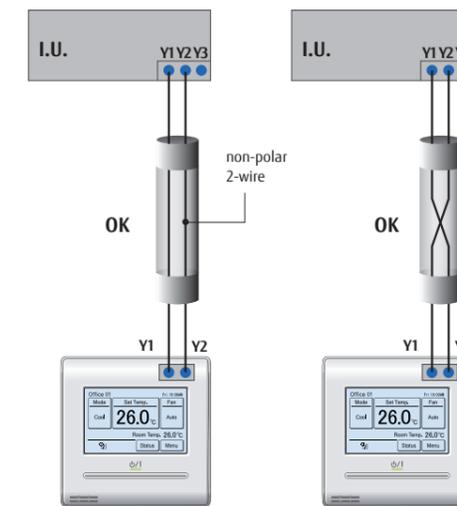
Model name	UTY-RNRGZ3	
Power Supply	DC 12V	
Dimensions (H x W x D)	mm	120 x 120 x 20.4
Weight	g	220

DC12V is supplied by indoor unit.

## Simplified installation

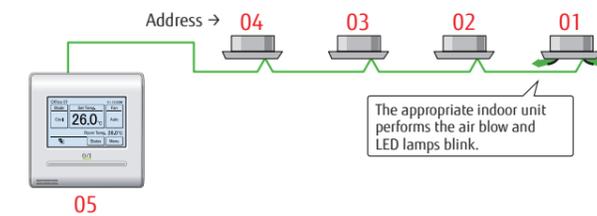
### Uses non-polar 2-wire type

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



### Auto Address Setting/Setting Position Notification

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



## Easy Maintenance

### Error History Display

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



# Wired Remote Controller

Maximum controllable  
**16**  
indoor units

## UTY-RLRG

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



### Functions

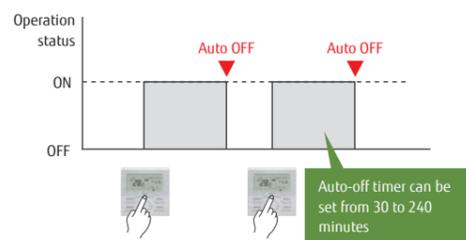
#### High performance and compact size

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



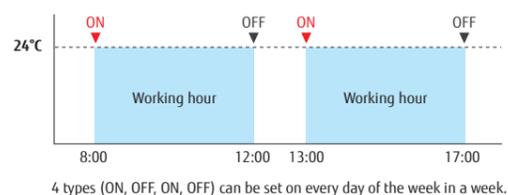
#### Auto-off timer

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



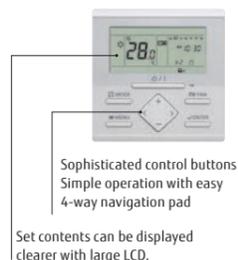
#### Weekly timer function

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



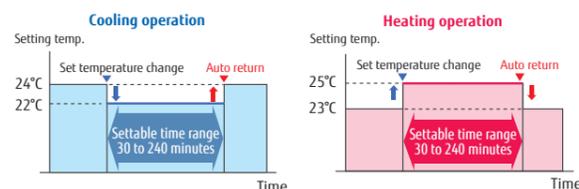
#### High visibility and easy operation

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



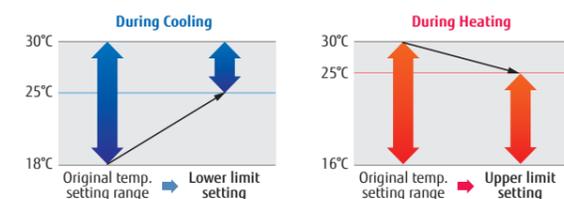
#### Set temperature auto return

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



#### Set temperature upper and lower limit setting

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



### Specifications

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

DC12V is supplied by indoor unit.

# Compact Wired Remote Controller

Maximum controllable  
**1**  
indoor units

## UTY-RCRGZ1 NEW

## UTY-RCRGZ1K NEW

- Simple design to match the stylish interior
- Easy to install : Body of controller is designed to fit in European standard junction box
- Can be operated both by wireless and wired remote controller.
- 2-wire type

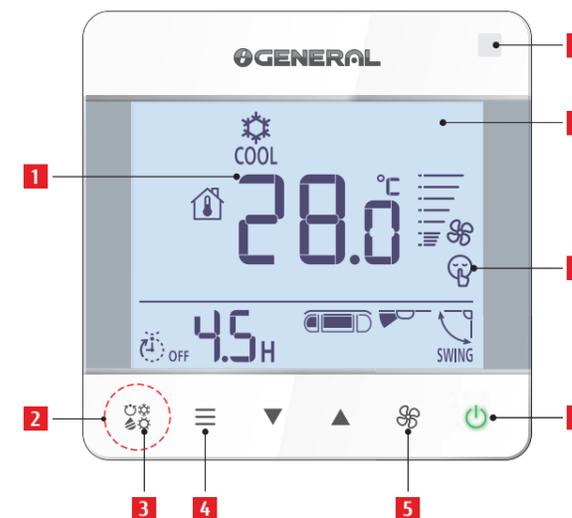


### Functions

#### Large screen and simple display

- Although the size is compact, the screen is large
- Large letters makes it easy to see
- Operation is simple and easy-to-understand

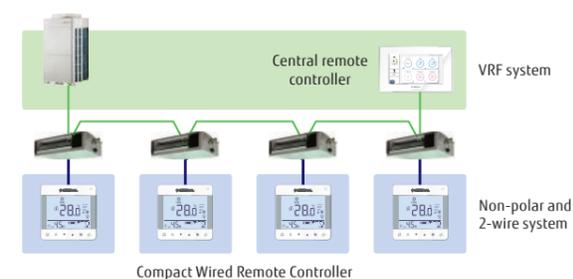
- 1 Visible large letter
- 2 Touch key (Frequently-used operation is placed on the direct button)
- 3 Operation mode
- 4 Menu
- 5 Air flow
- 6 Built in IR receiver
- 7 LCD with backlight is clearly visible in the dark
- 8 Easy-to-understand pictograph display
- 9 LED is mounted for the ON/OFF key (Green light on when R.C. is turned on)



### System overview

#### • VRF connection

One indoor unit and one remote controller are connected in one non-polar and 2-wire remote controller system.



#### • RAC (Room air conditioner) connection

One indoor unit and one remote controller are connected in one non-polar and 2-wire remote controller system.



### Specifications

Model name	UTY-RCRGZ1		UTY-RCRGZ1K
Power Supply	DC 12V		
Dimensions (H x W x D)	mm	86 x 86 x 44	
Weight	g	135	

DC12V is supplied by indoor unit.

# Simple Remote Controller

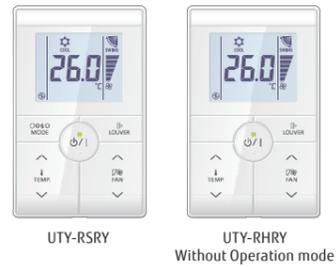
UTY-RSRG

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

Maximum controllable  
**16**  
indoor units



## Functions

### Corresponding to various applications

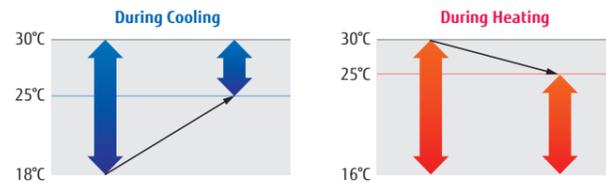
**Vertical louver control:**

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



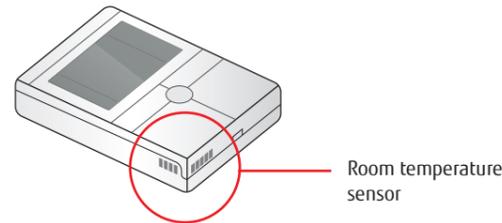
**Room temperature set point limitation:**

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



**Built in room temperature sensor:**

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



## Specifications

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

Maximum controllable  
**16**  
indoor units

Selectable  
**4**  
daily timers



## Functions

### Built-in daily timer

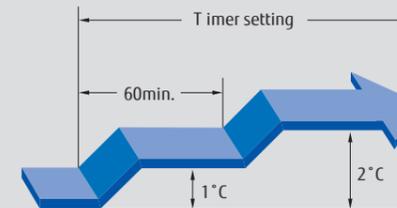
Select from 4 different timer programs : On / Off / Program / Sleep

**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.

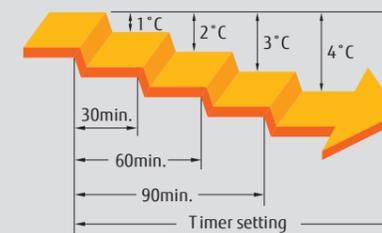
#### Cooling operation/dry operation

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.



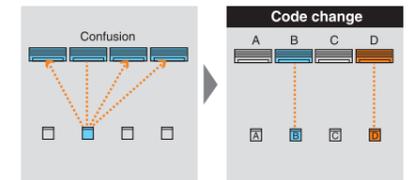
#### Heating operation

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.)

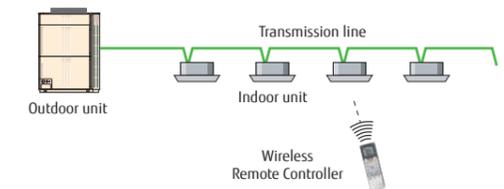


Wide and precise



### 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) x 2	
Dimensions (H x W x D)	mm	170 x 56 x 19
Weight	g	85

# IR Receiver Unit

UTB-YWC

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

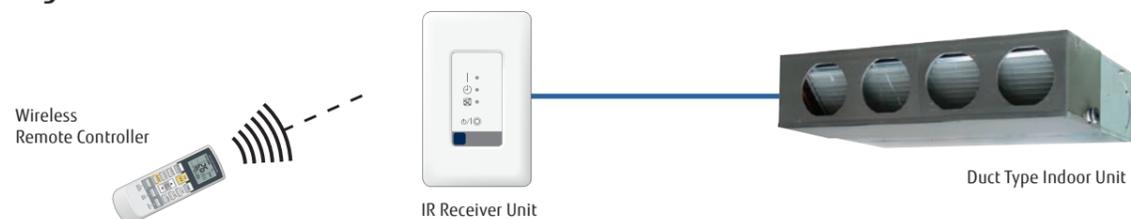
\*Only Large Airflow Duct cannot be connected to IR Receiver Unit.

- 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

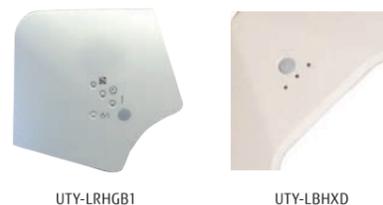
Model name	UTB-YWC	
Power Supply	DC 5V	
Dimensions (H x W x D)	mm	145 x 90 x 30
Weight	g	150

# IR Receiver Unit

UTY-LRHGB1 (For Cassette)

UTY-LBHXD (For Circular Flow Cassette)

Cassette type indoor unit can be controlled with Wireless Remote Controller



## 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

# Central Remote Controller

Maximum controllable  
**100**  
indoor units

Maximum controllable  
**50**  
groups

UTY-DCGGZ1 **NEW**

For small- and medium-sized buildings and tenants

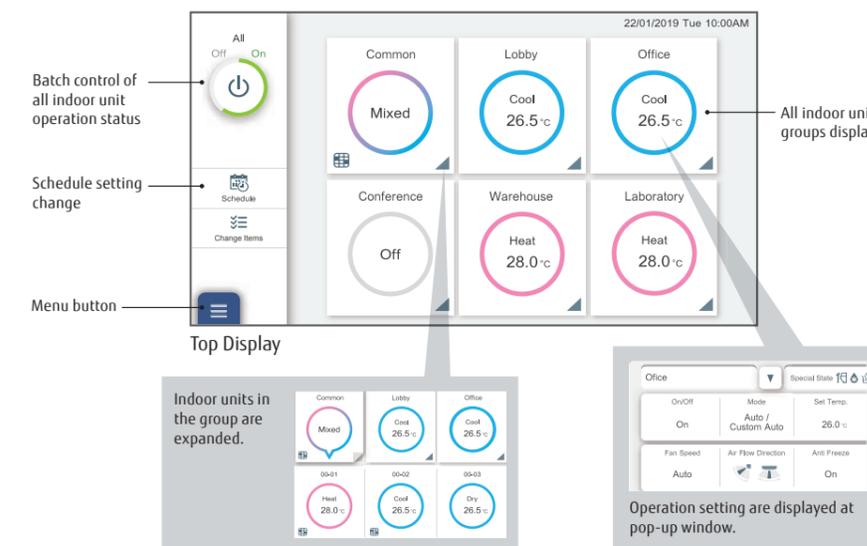
- Individual control and monitor of 100 indoor units
- 7.0inch TFT color screen
- High visibility and easy operation
- Supports 12 different languages (English, Spanish, German, French, Italian, Russian, Portuguese, Turkish, Polish, Greek, Dutch, Chinese)



## Functions

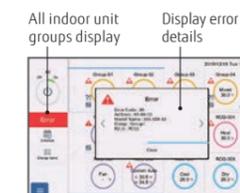
## Easy operation

- The new central remote controller realized an intuitive operation feeling by touch panel operation.
- All functions can be accessed from the top display and the following operations are displayed at pop-up window.



## Trouble support function

Display error details  
Display descriptive explanation when an error occurs



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

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

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

## Remote monitoring / Remote operation

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

- Example
- Control / Monitoring Fujitsu air conditioner
  - Error notification by E-mail



## Specifications

Model name	UTY-DCGGZ1	
Power Supply	100-240 V 50/60 Hz	
Dimensions (H x W x D)	mm	134,6 x 216,2 x 37,9
Weight	g	800

# 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.

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



Maximum controllable VRF network system	Maximum controllable indoor units	Maximum controllable outdoor units
1	400	100



# 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.

## Functions

### User friendly view and operation

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

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

Click & Operate any specified unit(s) !

The display is easily changed by pressing the button.

Batched control of freely defined groups

Batched control of freely selected units

Click & Operate the whole floor !

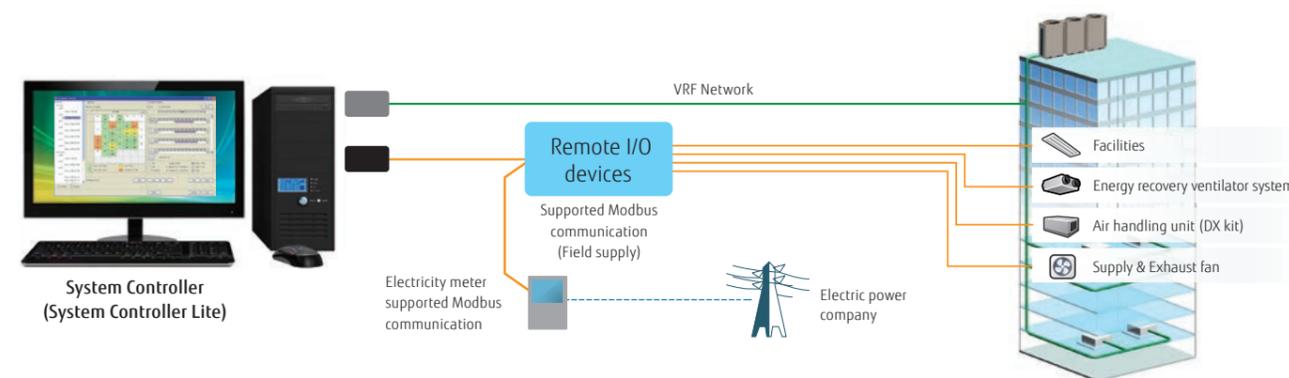
Click & Operate the unit !

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

### 3rd party devices connected by Modbus can be controlled.

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

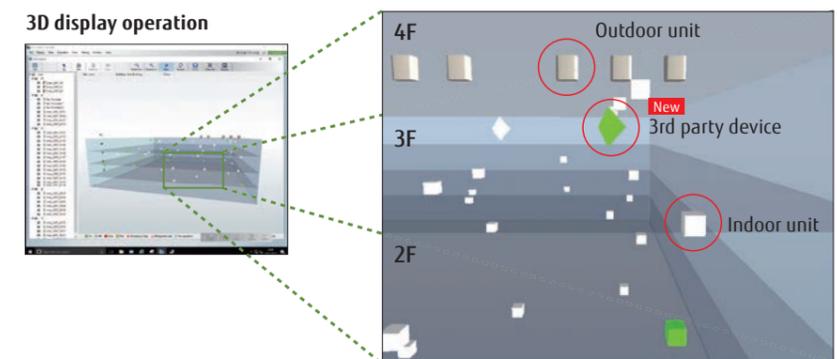
When Modbus Adaptor (locally purchased) is connected to PC, the electric facilities supported by Modbus can be controlled centrally. Wasteful electricity charge by forgetting to turn off and patrol activities can be reduced in the entire building.



### 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

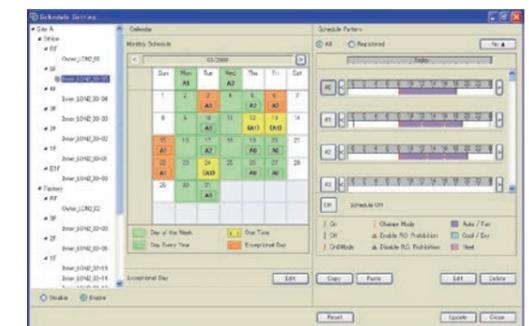


\*UTY-APGXZ1 only

### 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

#### Error display & E-mail notification

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

#### Remote controller prohibition

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

#### Data base import/export

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

#### Automatic clock adjustment

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

#### Operating & control record

Displays the history of operation status and control.

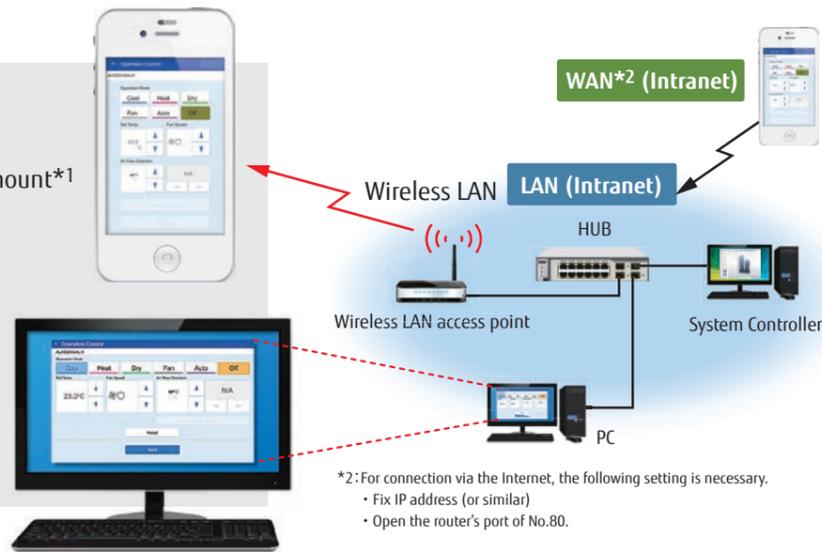
## Functions

### 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)

- ON/OFF
- Temperature setting
- Check remaining amount\*1
- Mode setting
- Fan speed
- Louver setting

\*1: prepaid AC function



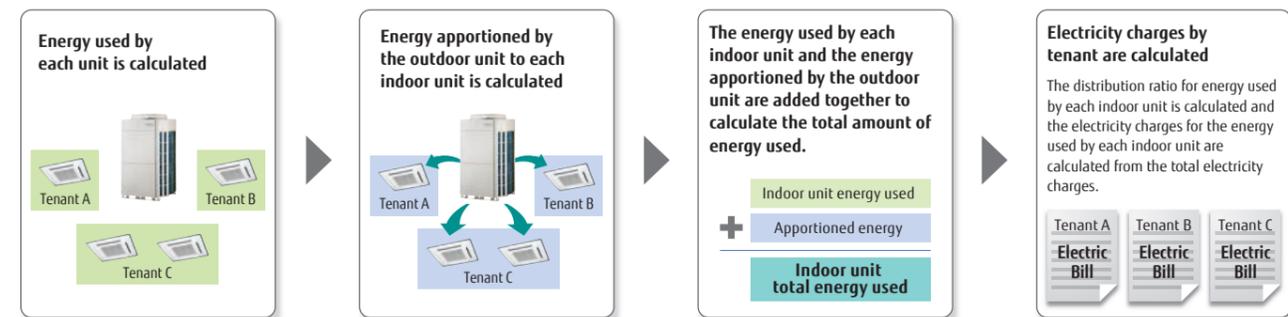
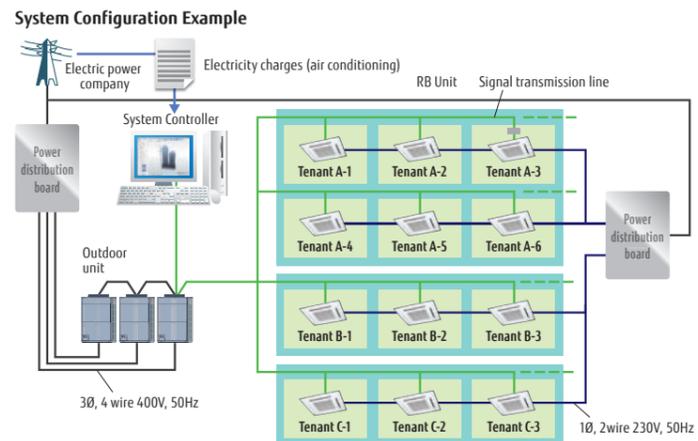
\*2: For connection via the Internet, the following setting is necessary.  
 • Fix IP address (or similar)  
 • Open the router's port of No.80.

### Electricity charge apportionment

#### Electricity charge apportionment calculation framework

Suppose you want to find the power consumed by the air conditioners of each tenant from the electricity charge for each month. With electricity charge apportionment function, used energy apportionment ratio will be provided, calculating in detail the energy consumed by the units used by each tenant. This information is then used to calculate the charges for the electricity consumed for air conditioning by each tenant from the total electricity charges in the bill from the electric power company. (See figure at right)  
 The detailed calculation takes into consideration such things as unused rooms and nighttime electricity charges and shows them in a charges calculation sheet.

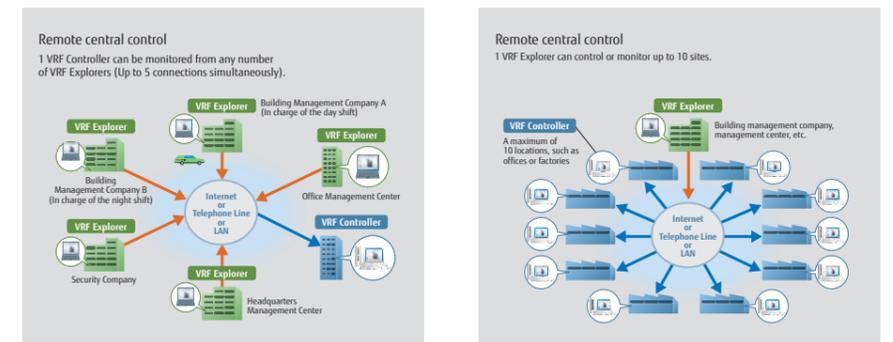
**Standard** for System Controller **Option** for System Controller Lite UTY-PLGXA2



### 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

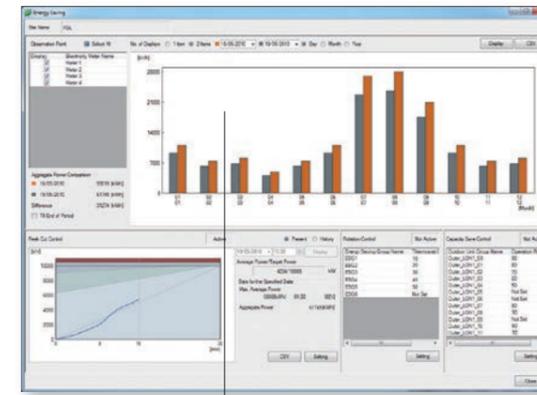


### Energy saving management

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.

**Option** for System Controller UTY-PEGXZ1 **Option** for System Controller Lite UTY-PLGXZ2

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.

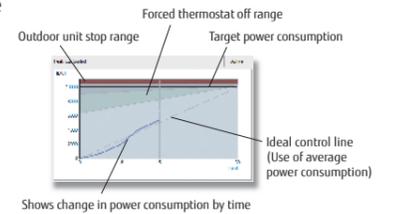
### Indoor unit rotation operation

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.



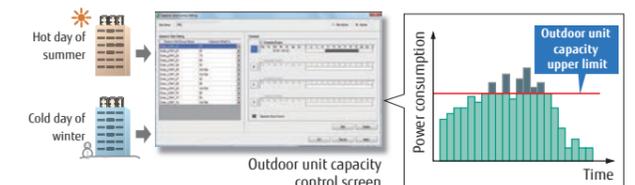
### Peak cut operation

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.

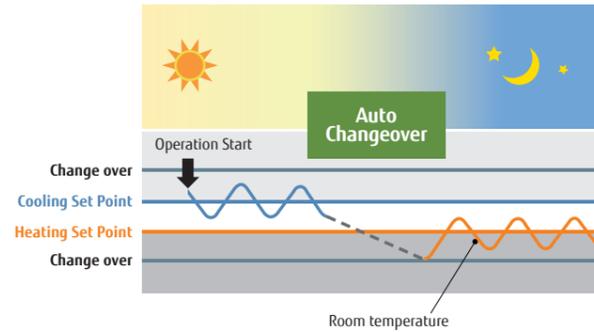


## Functions

### 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

Operation Mode	Custom Auto	Auto	Cool	Dry	Fan	Heat
Set Temp. (°C)	26.5					
Custom Auto	Cool	26.5				
	Heat	23.0				

\*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	—	—	—	—	
	Max. outdoor units per System controller	400	—	100	—	—	—	—	
Site supervision	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	●	—	—	—	—	—	—	
Error management	List display	●	—	●	—	—	—	—	
	Tree display	●	—	●	—	—	—	—	
	Group display	●	—	●	—	—	—	—	
	Error notification	●	—	●	—	—	—	—	
	Audible alarm	●	—	●	—	—	—	—	
History	Error e-mail notification	●	—	●	—	—	—	—	
	Error history	●	—	●	—	—	—	—	
Operation control	Operation history	●	—	●	—	—	—	—	
		●	—	●	—	—	—	—	
	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	●	—	●	—	—	—	—
		Remote control prohibition setting	●	—	●	—	—	—	—
	Individual management	Temperature upper and lower limit setting	●	—	●	—	—	—	—
		Filter sign reset	●	—	●	—	—	—	—
	Other	Memory operation	●	—	●	—	—	—	—
Pattern operation		●	—	●	—	—	—	—	
Schedule	Web operation	●	—	●	—	—	—	—	
	Annual Schedule	●	—	●	—	—	—	—	
	Special day setting	●	—	●	—	—	—	—	
	On / off per day	72	—	72	—	—	—	—	
	On / off per week	504	—	504	—	—	—	—	
	Day off	●	—	●	—	—	—	—	
Remote management	Min. unit of timer setting (Minutes)	10	—	10	—	—	—	—	
	Low noise mode Weekly schedule	●	—	●	—	—	—	—	
	Web Operation	●	—	●	—	—	—	—	
	Remote monitoring	●	—	●	—	—	—	—	
	Remote operation control	●	—	●	—	—	—	—	
	Remote function setting	●	—	●	—	—	—	—	
	Electricity charge apportionment	Apportionment charge/bill calculation	●	—	●	—	—	—	—
		Tenant (block) setting	●	—	●	—	—	—	—
		Common facilities apportionment setting	●	—	●	—	—	—	—
		Rated power consumption allotment setting	●	—	●	—	—	—	—
Individual calculation at cooling and heating		—	●*	—	●	—	—	—	
Energy saving management	Electricity meter supported	—	●	—	●	—	—	—	
	Indoor unit rotation	—	●	—	●	—	—	—	
	Peak cut control	—	●	—	●	—	—	—	
	Outdoor unit capacity save	—	●	—	●	—	—	—	
	Record of energy saving operation	—	●	—	●	—	—	—	
	Energy saving information	—	●	—	●	—	—	—	
External Device Control	Power consumption monitor	—	●	—	●	—	—	—	
	Electricity meter supported	—	●	—	●	—	—	—	
	Monitor	●	—	●	—	—	—	●	
	Control	●	—	●	—	—	—	●	
Others	Database import/export	●	—	●	—	—	—	—	
	Automatic clock adjustment	●	—	●	—	—	—	—	
	Multi language	7 languages	—	7 languages	—	—	—	—	

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

### Personal computer system requirements

The required PC specifications are shown in the following table.

	System Controller	System Controller Lite
Operating system	<ul style="list-style-type: none"> <li>Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1</li> <li>Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit)</li> <li>Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)</li> </ul> [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish	
CPU	Intel® Core™ i3 2 GHz or higher	
Memory	• 2 GB or more (for Windows® 7 [32-bit])	• 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)
HDD	40 GB or more of free space	
Display	1024 x 768 or higher resolution	
Interface	<ul style="list-style-type: none"> <li>Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line)</li> <li>USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller)</li> <li>Maximum of 2 USB ports are required for WHITE-USB-KEY/WibuKey connection</li> <li>Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface</li> <li>* Maximum number of required USB port depends on the applicable system configuration.</li> </ul>	<ul style="list-style-type: none"> <li>Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line)</li> <li>USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller)</li> <li>Maximum of 4 USB ports are required for WHITE-USB-KEY/WibuKey connection</li> <li>1 USB port is required for Echelon® U10 USB Network Interface</li> <li>* The maximum number of required USB port depends on the applicable system configuration.</li> </ul>
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

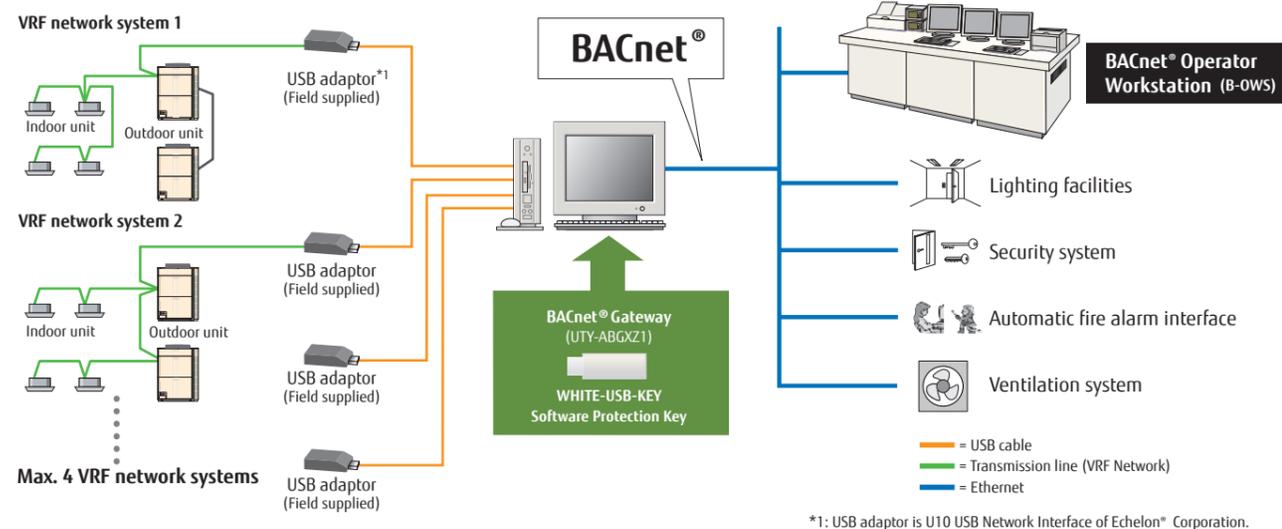
Maximum controllable VRF network systems	Maximum controllable indoor units	Maximum controllable outdoor units
4	1,600	400

## UTY-ABGXZ1

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

## Functions

### Installation example



## Personal computer system requirements

	UTY-ABGXZ1
Operating system	<ul style="list-style-type: none"> <li>Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1</li> <li>Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit)</li> <li>Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)</li> </ul> [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"> <li>2 GB or more (for Windows® 7 [32-bit])</li> <li>4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)</li> </ul>
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	<ul style="list-style-type: none"> <li>Ethernet port (for getting access to the Internet using LAN)</li> <li>USB ports (Maximum of 5 ports)</li> <li>- 1 USB port is required for WHITE-USB-KEY/WibuKey connection</li> <li>- Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface</li> <li>* Maximum number of required USB ports depends on the applicable system configurations.</li> </ul>
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)

Maximum controllable VRF network system	Maximum controllable refrigerant system	Maximum controllable indoor units
1	32	128

## 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.

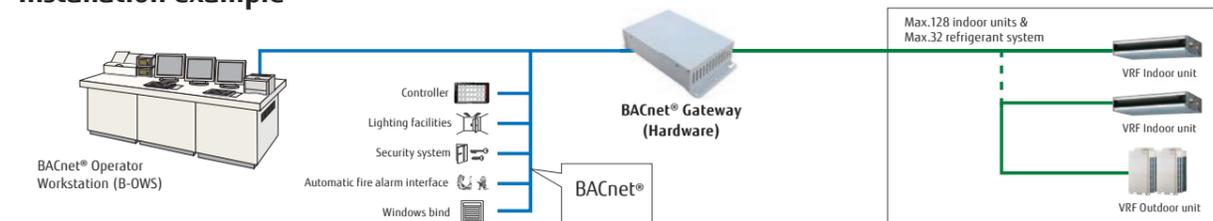


BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to the requirements of ASHRAE Standard 135 is the responsibility of BACnet International (BI). BTL is a registered trademark of BACnet International.



## 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 Convertor for LONWORKS®

Maximum controllable Units to BMS	Maximum controllable indoor units	Maximum controllable outdoor units
4	128	100

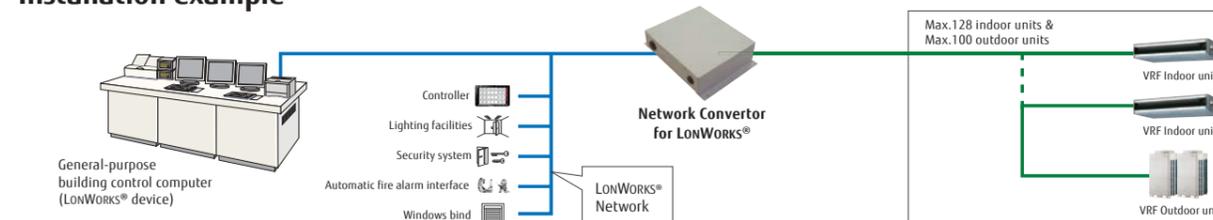
## UTY-VLGX

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



## Functions

### 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® Converter

Maximum connectable	Maximum controllable	Maximum controllable
9	128	100
units to one VRF	indoor units	outdoor units

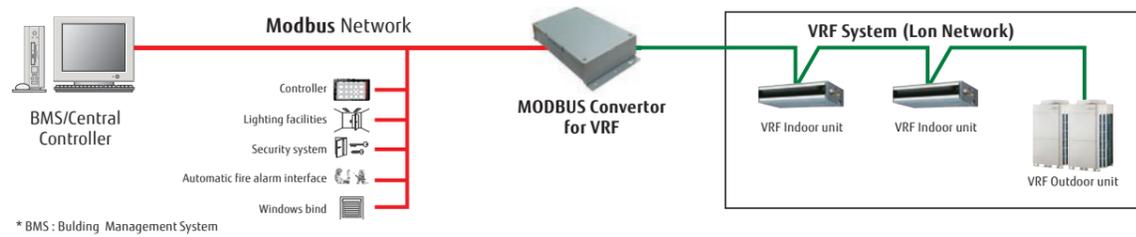
## UTY-VMGX

The MODBUS Converter 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 Converter
- The MODBUS Converter 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

Maximum controllable  
**1**  
Single indoor unit

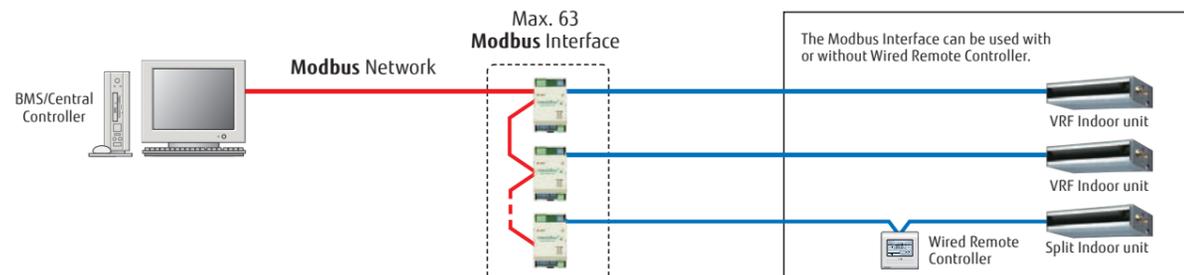
## FJ-RC-MBS-1

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® Converter (for VRF)

Maximum controllable  
**128**  
indoor units

Maximum controllable  
**100**  
outdoor units

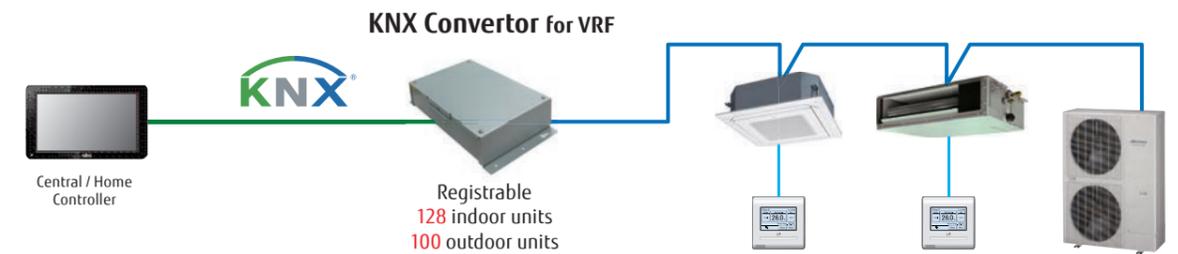
## UTY-VKGX

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

- New KNX Converter 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 Converter.



### 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

Maximum controllable  
**1**  
group

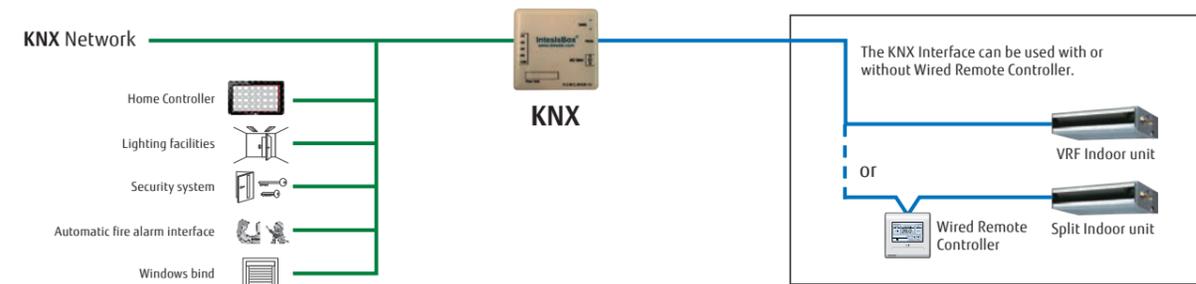
## FJ-RC-KNX-1i

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 **IntesisHome**®

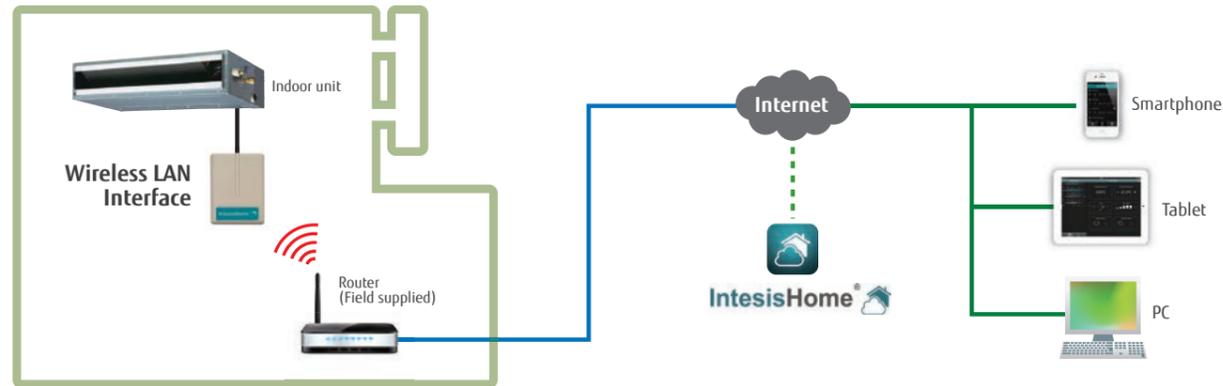
Maximum controllable  
**1**  
Single indoor unit

## 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 × 70 × 28
Weight	g	80

# Network Convertor

Maximum controllable  
**16**  
single indoor units

Maximum controllable  
**100**  
Network Convertors

## UTY-VTGX (DC power supply type)

## UTY-VTGXV (AC power supply type)

Compact remote controller provides access to basic functions

- The network 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

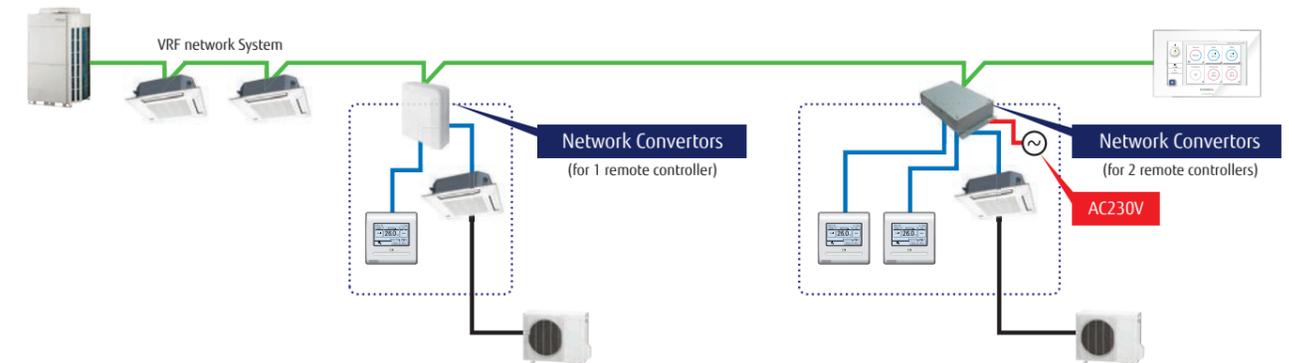


UTY-VTGXV  
AC power supply type

## Functions

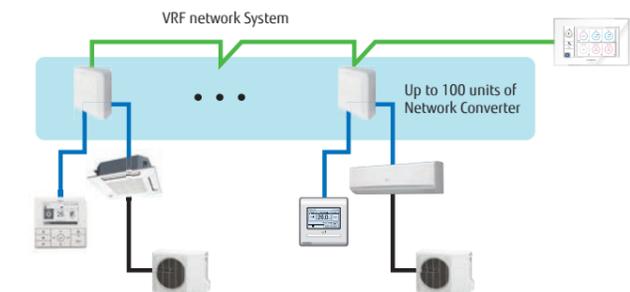
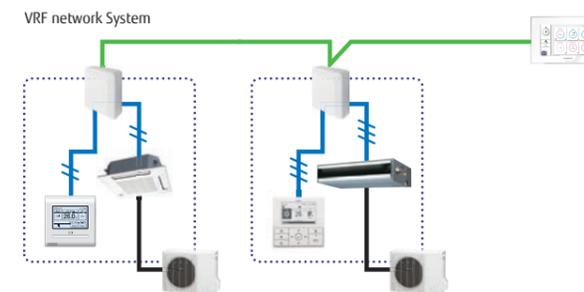
## Installation example

- 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 Convertor is connectable in one VRF network system)



## Specifications

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

# External Switch Controller

Maximum controllable  
**1**  
group

## UTY-TERX

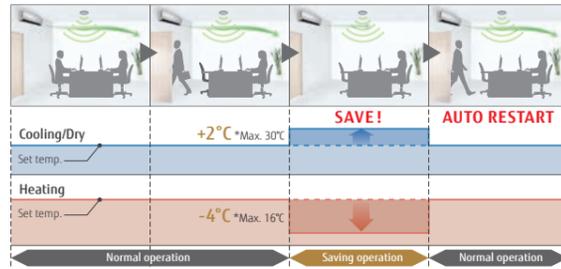
- In combination with a field supply Card-Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are 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 x 117 x 43
Weight	g	250

DC12V is supplied by indoor unit.

# Signal Amplifier

## UTY-VSGXZ1

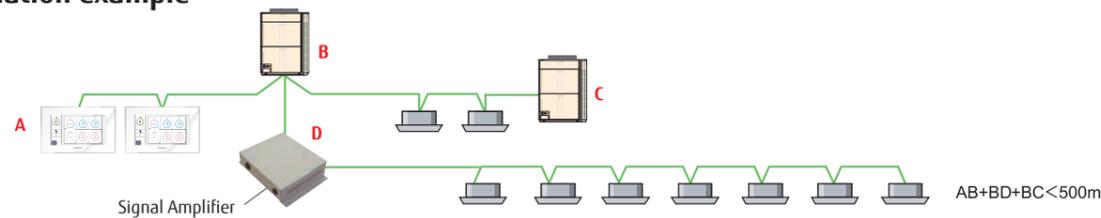
- Transmission Line length can be extended up to 3,600m with multiple Signal Amplifiers.
- Up to 40 signal amplifiers can be installed in a VRF network system.
- A signal amplifier is required,

- (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 x 288 x 211
Weight	g	1,500

# Thermostat Convertor

Maximum controllable  
**16**  
Indoor units

## UTY-TTRX

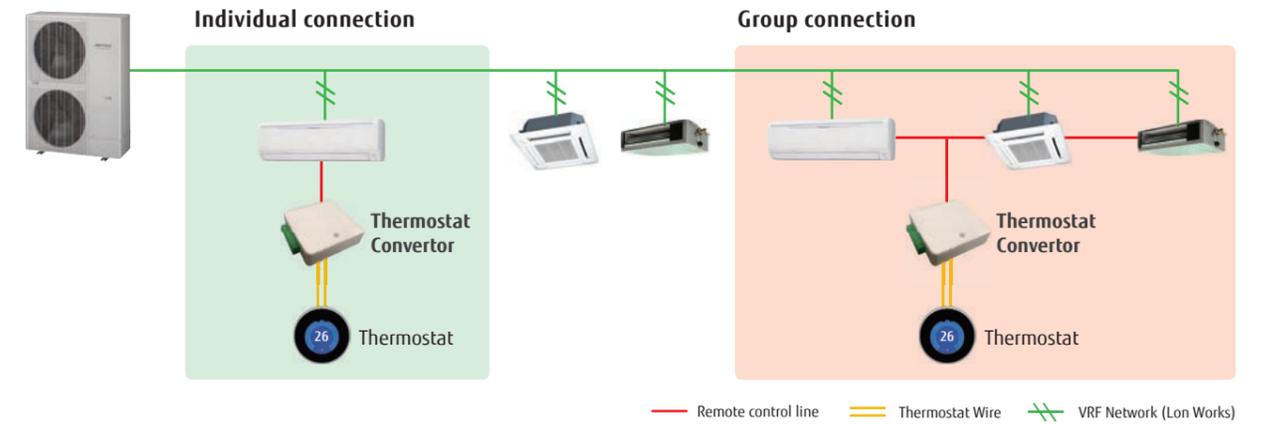
Control air conditioner using third party thermostat

- 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	Indoor unit Error notification*
	Operation mode	
	Room Temperature	
	Fan Speed	
Air Conditioning Control	Delay OFF	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 x 86.7 x 86.7
Weight	g	220



## 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.

# VENTILATION

### Outdoor Air Unit

DX Kit for Air Handling Unit or Fresh Air Handling Unit application

#### Outdoor Air Unit range

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

# Outdoor Air Unit

**Models**

ARXH054GTAH  
ARXH072GTAH  
ARXH096GTAH

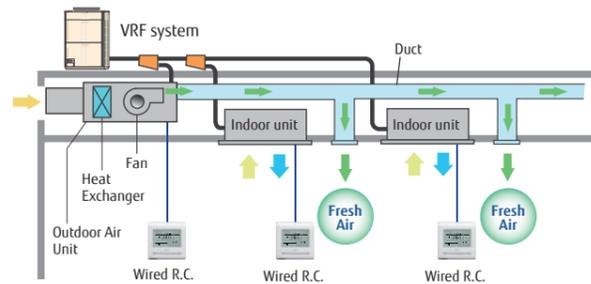
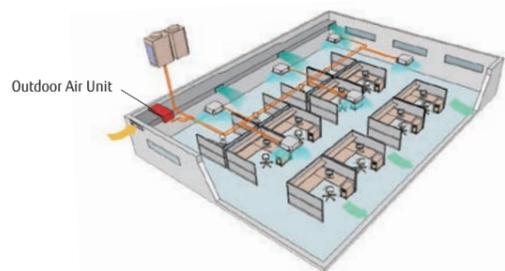


**Feature**

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

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

\*1. Connectable VRF Series: J-IIS



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

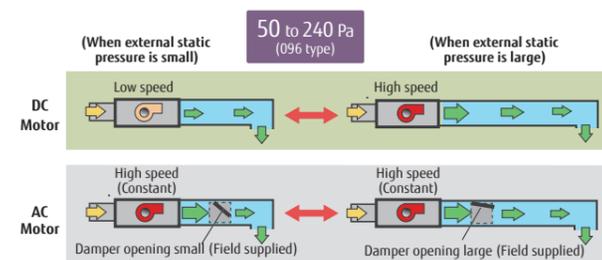
## High energy savings and flexible duct design by using DC motor

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



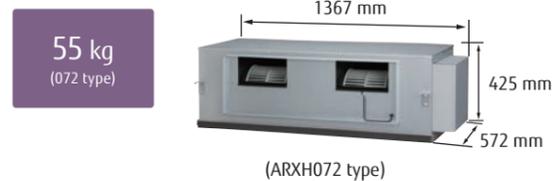
Compared with AC motor, changing the speed makes it possible to respond flexibly to the external static pressure from 50 Pa to 240 Pa. Even if damper equipment is not used, static pressure can be adjusted and duct design is easy.

Static pressure can be set easily using wired remote controller.



## Top class compact design

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



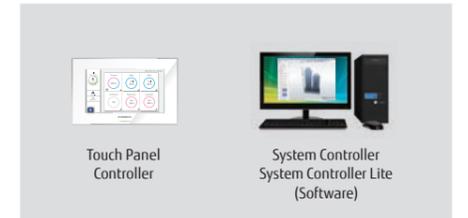
## Various Controller

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

### Individual Controller



### Central Controller



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

## Specifications

Rated flow rate	1000 m <sup>3</sup> /h		1500 m <sup>3</sup> /h		2000 m <sup>3</sup> /h	
Model name	ARXH054GTAH		ARXH072GTAH		ARXH096GTAH	
Power source	V/Ø/Hz		220-240V, 50Hz			
Capacity	Cooling	kW	14.0	22.4	28.0	
	Heating	kW	8.9	13.9	17.4	
Input power	Cooling	W	179	292	370	
	Heating	W	179	292	370	
Airflow rate	m <sup>3</sup> /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	
	Small	mm	9.52	12.70	12.70	
Connection pipe diameter	mm		19.05	22.22	22.22	
Operating range	Cooling	°CDB	5 to 43	5 to 43	5 to 43	
	Heating	°CDB	-7 to 21	-7 to 21	-7 to 21	
Refrigerant			R410A	R410A	R410A	

Note : Specifications are based on the following conditions.

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

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

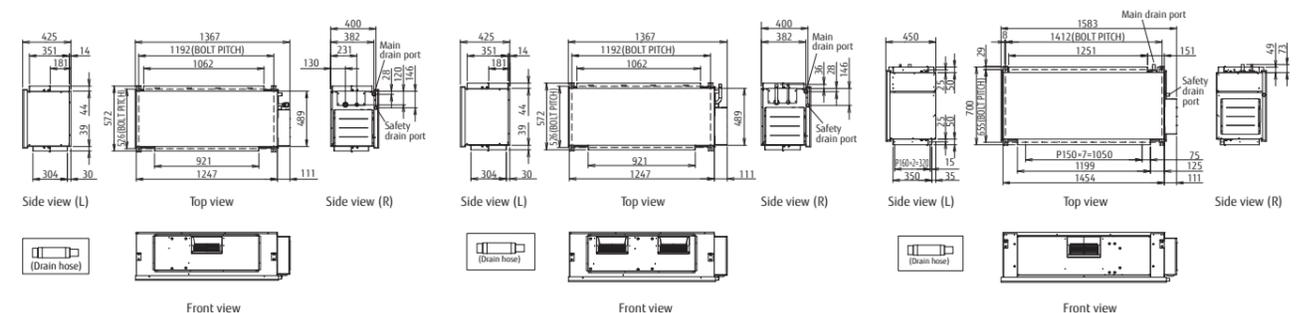
Pipe length : 7.5 m Voltage : 230 [V].

## Dimensions (Unit: mm)

Model: ARXH054

Model: ARXH072

Model: ARXH096



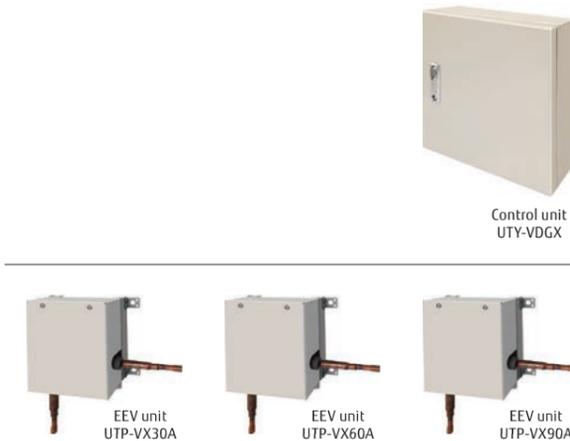
# DX Kit for Air Handling Unit or Fresh Air Handling Unit application

## Models

**Control unit**  
UTY-VDGX

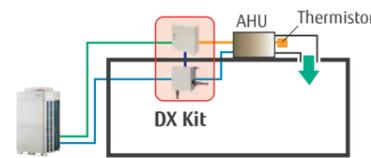
**EEV unit**  
UTP-VX30A  
UTP-VX60A  
UTP-VX90A

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

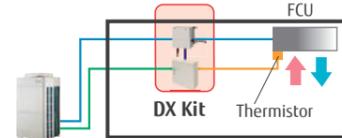


## Feature

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

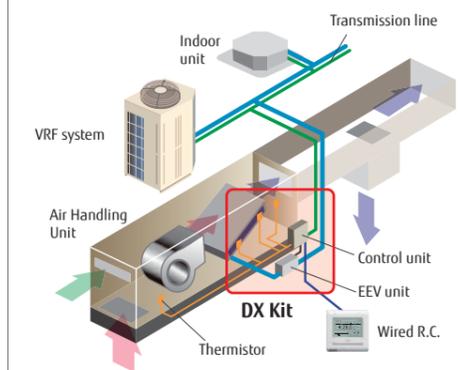


When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.



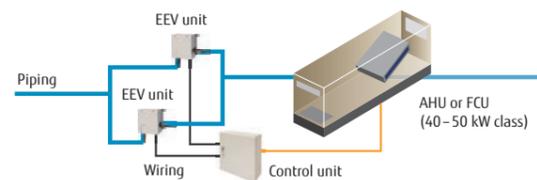
When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

### Arrangement as part of a VRF system



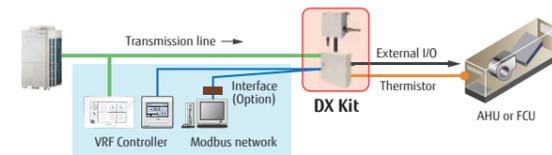
### Supports a wide range of capacity classes

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

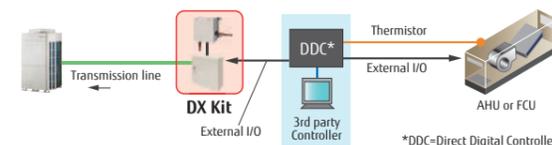


### A variety of controls to match the application

- Central control using our VRF controllers or central management controllers



- Central control from external controllers



\*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

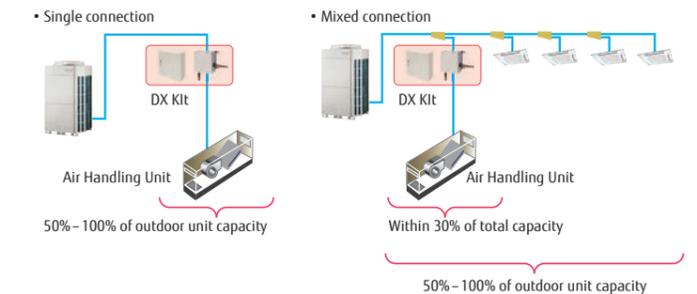
- Connectable VRF Series : All VRF
- Connectable DX Kit system capacity range : 50 to 100% of the outdoor unit capacity
- Connectable DX Kit system capacity range with AHU or FCU : 30% or less of the outdoor unit capacity (Mixed connection)
- Max. wiring length from control unit : 10 m
- Max. piping 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)]

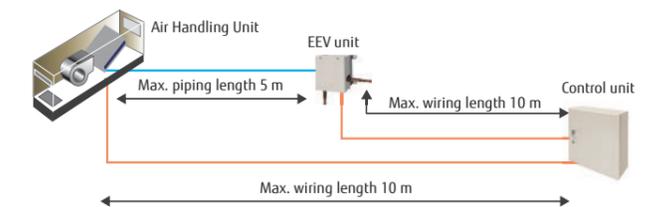
- Separation Tube : UTP-LX180A



### Connectable capacity



### 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	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)	m <sup>3</sup> /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 Louver Grille Kit
- CONTROL SYSTEM LIST
- OPTIONAL PARTS LIST
- OPTIONAL PARTS
- FUNCTION LIST
- SEPARATION TUBE etc.

# Pressure Sensor Kit

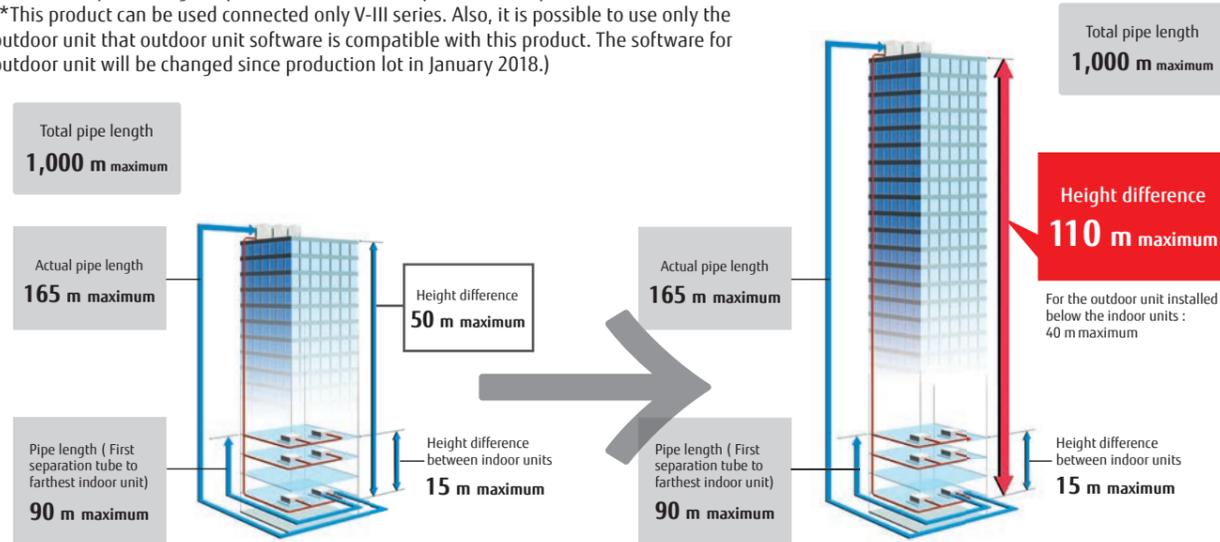
Models  
UTY-SPWX



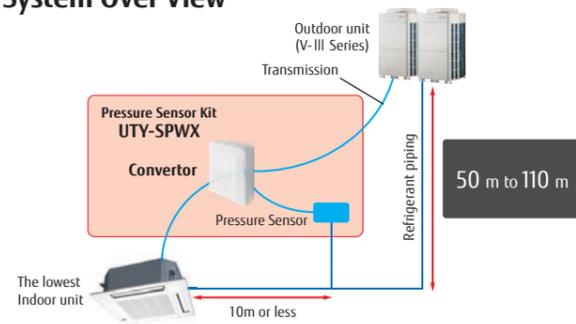
## Features

### 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.)



## System Over View



## Pressure Sensor Kit

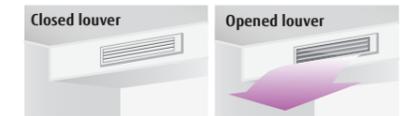
Pressure sensor kit (Converter)	
Refrigerant pressure sensor	
Joint pipe	

## 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

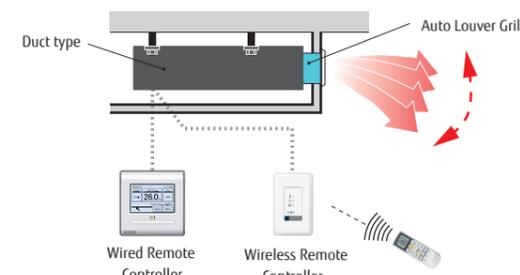
Models  
UTD-GXTA-W  
UTD-GXTB-W  
UTD-GXTC-W



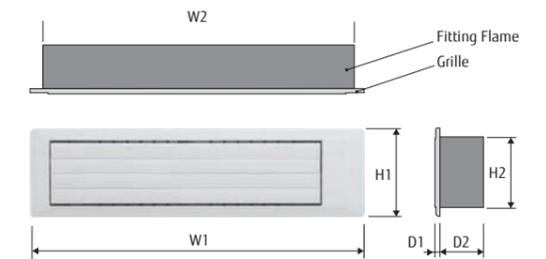
## Feature

### 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



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				

Unit: mm

## Specifications

Model name	UTD-GXTA-W	UTD-GXTB-W	UTD-GXTC-W
Applicable Indoor Unit	ARXD07/09/12/14GALH ARXD07/09/12/14GATH ARXX07/09/12/14GCLH ARXX07/09/12/14GALH	ARXD18GALH ARXD18GATH ARXX18GCLH ARXX18GALH	ARXD24GALH ARXD24GATH ARXX24GCLH ARXX24GALH
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 x W x D)	mm	180 x 683 x (84+9)	180 x 883 x (84+9)
Weight	Net	kg	2.0
	Gross	kg	3.0
Color	White		
Louver Motor	Stepping Motor		
Accessories	Fitting Flame, etc.		
Operating range	Cooling	°C	18 to 32
		% RH	80% or less
Heating	°C	16 to 30	

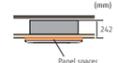
\*: The Auto Louver Grille Kit can also be installed to ARXD07/09/12/14/18/24LATH revision code B models. Please refer to the Design & Technical manual for "revision code" details.

# CONTROL SYSTEM LIST

## Controllers / Interface

Type	Indoor unit												Indoor unit			
	Cassette				Duct				Duct				Ceiling / Floor	Ceiling	Wall Mounted	
	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				-	EEV external	-
	AUXB 07/09/12/14/18/24 GALH, AUXB 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 45/60/72/90 GATH	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
Controllers	Wired Remote Controller	● UTY-RNRGZ3										● UTY-RNRGZ3				
		● UTY-RLRG										● UTY-RLRG				
	NEW Compact Wired Remote Controller	● UTY-RCRGZ1, UTY-RCRGZ1K										● UTY-RCRGZ1, UTY-RCRGZ1K				
	Simple Remote Controller	● UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG										● UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG				
	Wireless Remote Controller	● UTY-LNHG										● UTY-LNHG				
	NEW Central Remote Controller	● UTY-DCGGZ1										● UTY-DCGGZ1				
	System Controller, System Controller Lite	● UTY-APGXZ1, UTY-ALGXZ1										● UTY-APGXZ1, UTY-ALGXZ1				
Interface	IR Receiver Unit	● UTY-LRHGB1	● UTY-LBHXD	● UTB-YWC		● UTB-YWC		● UTB-YWC		● UTB-YWC						
	BACnet Gateway	● UTY-ABGXZ1, UTY-VBGX										● UTY-ABGXZ1, UTY-VBGX				
	Network Convertor for LonWorks	● UTY-VLGX										● UTY-VLGX				
	MODBUS Convertor	● UTY-VMGX										● UTY-VMGX				
	MODBUS Interface	● FJ-RC-MBS-1				● FJ-RC-MBS-1			● FJ-RC-MBS-1	● FJ-RC-MBS-1 (ARXC45/60/72/90/96GATH only)			● FJ-RC-MBS-1			
	KNX Convertor	● UTY-VKGX										● UTY-VKGX				
	KNX Interface	● FJ-RC-KNX-1i				● FJ-RC-KNX-1i			● FJ-RC-KNX-1i	● FJ-RC-KNX-1i (ARXC45/60/72/90/96GATH only)			● FJ-RC-KNX-1i			
	Wireless LAN Interface	● FJ-RC-WIFI-1				● FJ-RC-WIFI-1			● FJ-RC-WIFI-1	● FJ-RC-WIFI-1 (ARXC45/60/72/90/96GATH only)			● FJ-RC-WIFI-1			
	External Switch Controller	● UTY-TERX										● UTY-TERX				
	Network Convertor for single split	● UTY-VTGX, UTY-VTGXV										● UTY-VTGX, UTY-VTGXV				
	Thermostat convertor	● UTY-TTRX										● UTY-TTRX				

# OPTIONAL PARTS LIST

Others		Indoor unit														Outdoor unit		
		Cassette				Duct				Duct				Indoor unit		Wall Mounted		V-III Tropical
		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		Ceiling / Floor	Ceiling	-	EEV external	-	
Type	AUXB 07/09/12/14/18/24 GALH, AUXB 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	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 LN**H	
Human Sensor Kit						● UTY-SHZXC												
Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.						● UTY-XSZX			● 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)		● UTD-GXTA-W UTD-GXTB-W(18) UTD-GXTC-W(24)									
Long Life Filter									● UTD-LF25NA	● UTD-LF60KA(36/45/60)								
Flange									● UTD-SF045T UTD-RF204				● UTD-RF204					
Drain Pump Unit									● UTZ-PX1NBA				● UTZ-DPB24T					
Wide Panel	 Indoor unit 950 Panel 600 (mm)		● UTG-AKXA-W UTG-AGYA-W		● UTG-AKXA-W													
Panel Spacer	 (mm) 1262 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*																		● UTY-SPWX

AJH\_LN\*\*H : AJH\_LNTDH, AJH\_LNLCH

# OPTIONAL PARTS

## Controllers

For Individual Control

<p><b>Wired Remote Controller (Touch Panel)</b> UTY-RNRGZ3</p> 	<p><b>Wired Remote Controller</b> UTY-RLRG</p> 	<p><b>Compact Wired Remote Controller</b> <b>NEW</b> UTY-RCRGZ1</p> 
<p><b>Compact Wired Remote Controller</b> <b>NEW</b> UTY-RCRGZ1K</p> 	<p><b>Simple Remote Controller</b> UTY-RSRG With operation mode</p> 	<p><b>Simple Remote Controller</b> UTY-RHRG Without operation mode</p> 
<p><b>Wireless Remote Controller</b> UTY-LNHG</p> 	<p><b>IR Receiver Unit</b> UTB-YWC For All Duct types except Large Airflow Duct</p> 	<p><b>IR Receiver Unit</b> UTY-LRHGB1 For Cassette type</p> 
<p><b>IR Receiver Unit</b> UTY-LBHXD For Circular Flow Cassette type</p> 	<p><b>Human Sensor Kit</b> UTY-SHZXC For Circular Flow Cassette type</p> 	

For Centralized Control

<p><b>Central Remote Controller</b> <b>NEW</b> UTY-DCGGZ1</p> 	<p><b>System Controller Lite</b> <span>Software</span> UTY-ALGXZ1 WHITE-USB-KEY (Software Protection Key) <b>Option</b> UTY-PLGXR2 UTY-PLGXA2 UTY-PLGXE2 UTY-PLGXX2</p> 	<p><b>System Controller</b> <span>Software</span> UTY-APGXZ1 WHITE-USB-KEY (Software Protection Key) <b>Option</b> UTY-PEGXZ1</p> 
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## Convertors / Adaptors

For External device / System expansion

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

# OPTIONAL PARTS

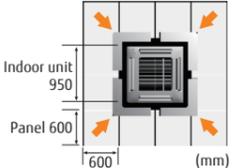
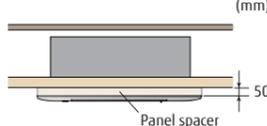
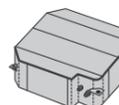
## Panels

For Cassette type

<p><b>Cassette Grille</b> UTG-UFGC-W For Compact Cassette type</p> 	<p><b>Cassette Grille</b> UTG-UGGA-W For Cassette type</p> 	<p><b>Cassette Grille</b> UTG-UKGD-W For Circular Flow Cassette type</p> 
<p><b>Cassette Grille</b> UTG-UKGA-B For Circular Flow Cassette type</p> 		

## Others

For Cassette type

<p><b>Wide Panel</b> UTG-AKXA-W For Cassette type</p> 	<p><b>Panel Spacer</b> UTG-BGYA-W For Cassette type</p> 	<p><b>Insulation Kit for High Humidity</b> UTZ-KXRA For Cassette type UTZ-KXGC For Compact Cassette type</p> 
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## Air Outlet Shutter Plate

<p>UTR-YDZB For Compact Cassette type Shuts the air outlet when only using as 3 blow out.</p> 
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## Air Outlet Shutter Plate

<p>UTR-YDZK For Cassette type Shuts the air outlet when only using as 3 blow out.</p> 
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For Ceiling type

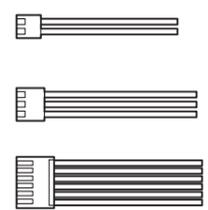
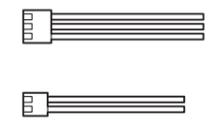
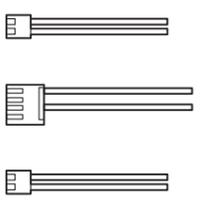
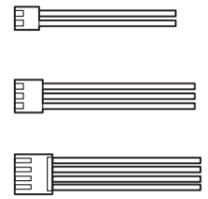
<p><b>Drain Pump Unit</b> UTR-DPB24T For Ceiling type</p> 
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## Others

For Duct type

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

Communication system: External Connect Kit

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

# FUNCTION LIST

Type	Indoor unit										Indoor unit					Outdoor unit		Controller
	Cassette			Duct			Duct				Ceiling / Floor	Ceiling	Wall Mounted			J-III Tropical	V-III Tropical	Central Remote Controller
	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			High Static Pressure	-	EEV external			
AUXB 07/09/12/14/18/24 GALH, AUXB 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 45/60/72/90 GATH	ARXC 36/72/90 GBTH, ARXC 45/60/72/90 GATH	ABHA 12/14/18/24 GATH	ABHA 30/36/45/54 GATH	ASHA 07/09/12/14 GACH, 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 LBTBHN, AJH 040/045/054 LETBHN	AJH 072/090/108/ 126/144/162 LNTDH	UTY-DCGZ1
Input	●UTY-XWZXZD ○UTY-XWZXZB										●UTY-XWZXZD ○UTY-XWZXZB							
																		●UTY-XWZXZ7 ○UTY-XWZXZ8
																		●UTY-XWZXZ6
	●UTY-XWZXZD ○UTY-XWZXZB										●UTY-XWZXZD ○UTY-XWZXZB							
	●UTY-XWZXZD ○UTY-XWZXZB										●UTY-XWZXZD ○UTY-XWZXZB							●UTY-XWZXZ6 ●UTY-XWZXZ7 ○UTY-XWZXZ8
	●UTY-XWZXZE ○UTY-XWZXZ7										●UTY-XWZXZE ○UTY-XWZXZ7							
																		●UTY-XWZXZ6
																		●UTY-XWZXZ6
																		●UTY-XWZXZF
Output	●UTY-XWZXZC										●UTY-XWZXZC						○UTY-XWZXZ6	○UTY-XWZXZA
	●UTY-XWZXZC										●UTY-XWZXZC						○UTY-XWZXZ6	○UTY-XWZXZA
	●UTY-XWZXZC										●UTY-XWZXZC							
	●UTY-XWZXZC										●UTY-XWZXZC							
																		●UTY-XWZXZ9

●: 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>	
---	---	--

### Outdoor Unit Branch Kit

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

### EV Kit

<p>Model code ≤ 09 : UTR-EV09XB</p> <p>Model code ≥ 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 (Room air conditioner, Packaged air conditioner, 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

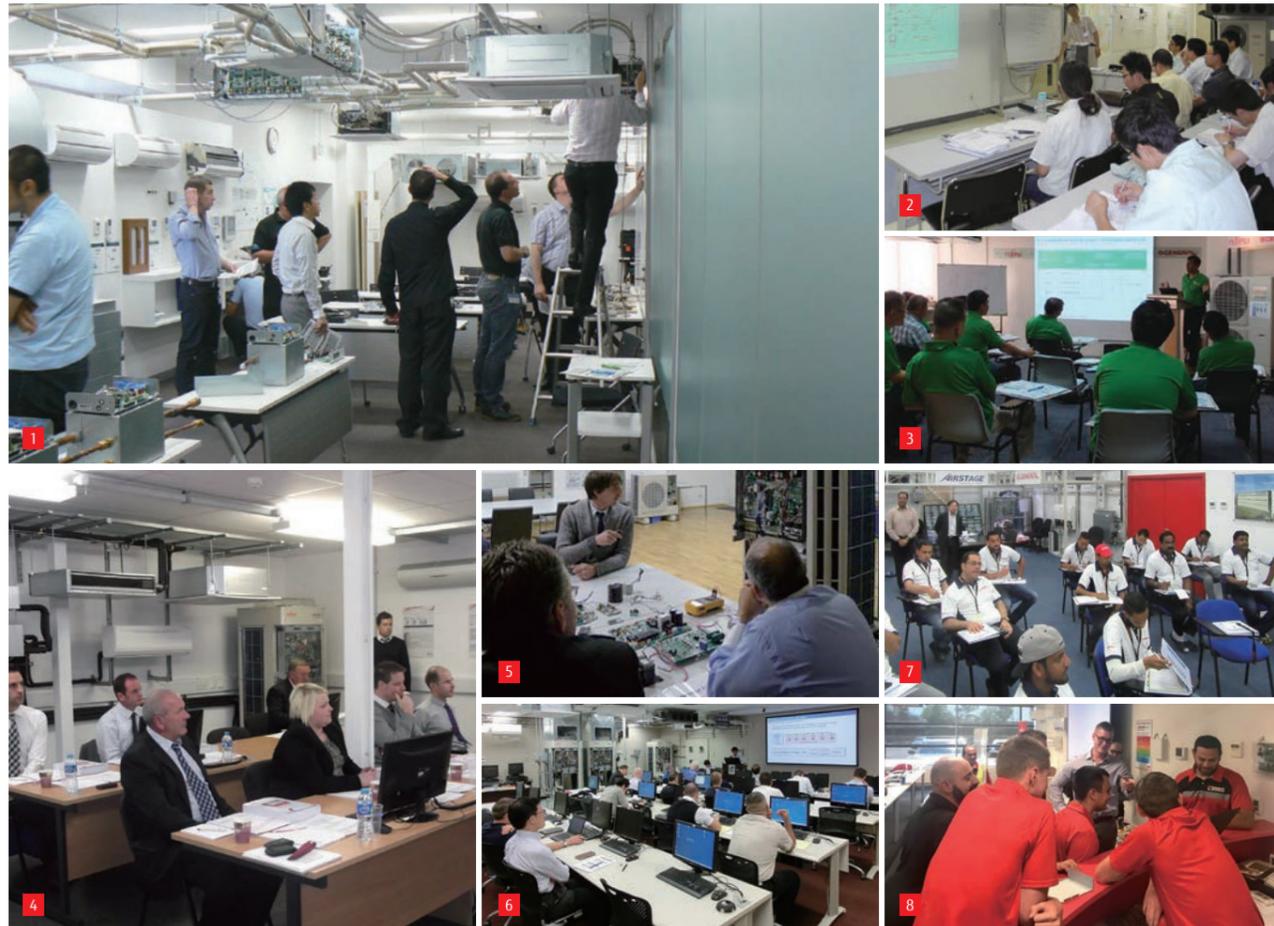
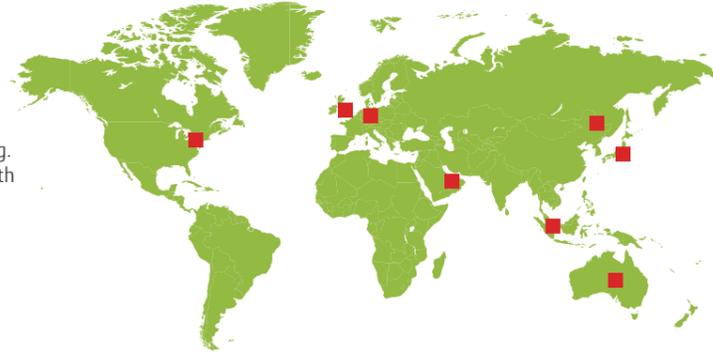
Fujitsu General provides a variety of product and technical information to engineers and consultants, and also conducts new product research and design support activities. We provide a wide range of support to maintain high quality from design to installation.

## 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



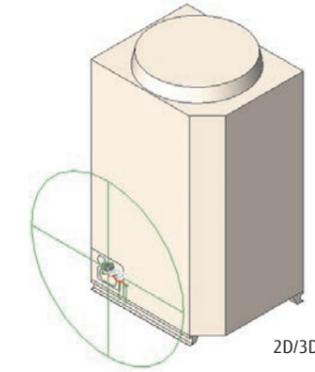
- 1 Head Office Training Center: Japan
- 2 China Training Center: China
- 3 Asia Training Center: Singapore
- 4 Europe Training Center: U.K.
- 5 Europe Training Center: Germany
- 6 America Training Center: U.S.A.
- 7 Middle East Training Center: UAE
- 8 Oceania Training Center: Australia

## 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



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



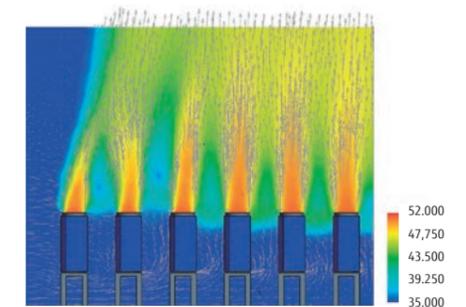
[www.fujitsu-general.com/uk/support/downloads/vrf/](http://www.fujitsu-general.com/uk/support/downloads/vrf/)

## 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

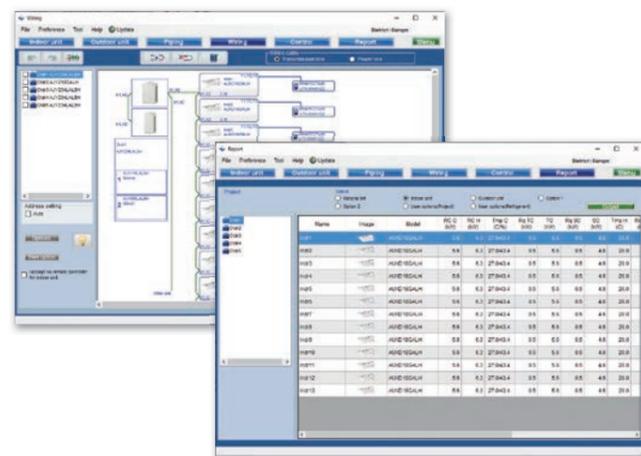
Put the charts and pens away and design your projects on your computer with ease using the Design Simulator. Everything from selecting indoor and outdoor units, allocating controls and optional parts to designing the piping and wiring systems is made easier using the program's built-in features.

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

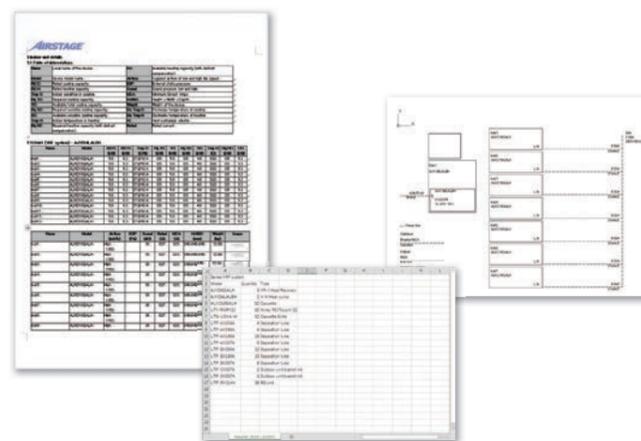
- Each unit can be automatically set by entering the required performance, type, and temperature conditions for each indoor unit and then dragging and dropping into the outdoor unit.
- Piping and wiring diagrams can be created automatically and it is easy to set branches, grouping, and options.
- The 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

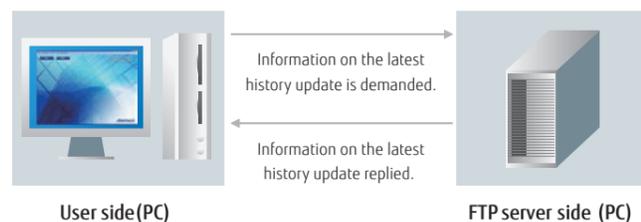
The information specific to your project can be exported in a number of industry standard file formats.

- Word format (rtf)(doc)
- Excel format (csv)
- Acrobat format (pdf)
- 2D CAD data (DXF)



### Update your Design Simulator

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



## NEW BIM (Building Information Modeling)

### BIM files of Fujitsu General's products available on BIMobject®

We are pleased to inform that Fujitsu General has released BIM files of products on BIMobject®'s website (BIMobject.com).

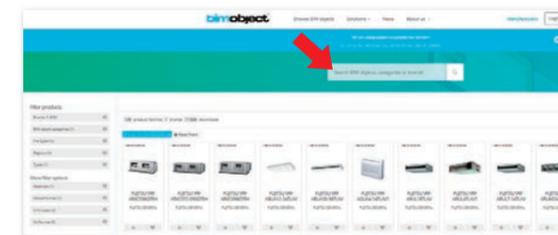
Outline of BIMobject  
BIMobject® is a game changer for the construction industry, offering development, maintenance, and syndication of objects on the world's biggest BIM platform.

#### About the BIM file

- BIM files are Autodesk Revit 2018 version.
- Each of the BIM files has different refrigerant and drain piping connector location.
- Each of the BIM file includes several family types.
- Revit file type catalog (Specification) is available for every product.



Go to search bar and key in the brand name FUJITSU GENERAL to search the products



#### RFA (Revit data)

Data format available for BIM-designed projects.

#### Data content

- Shape (Size)
- Drain direction
- Piping direction
- Power source location
- Specifications etc.



Type catalog (specifications of product)



#### DWG

Standard data available for Autodesk's products.



#### DXF

Intermediate data generally available for CAD products.

- Data content
- Shape (Size)



\*How to use the BIM files please refer to Instruction video on each product page.

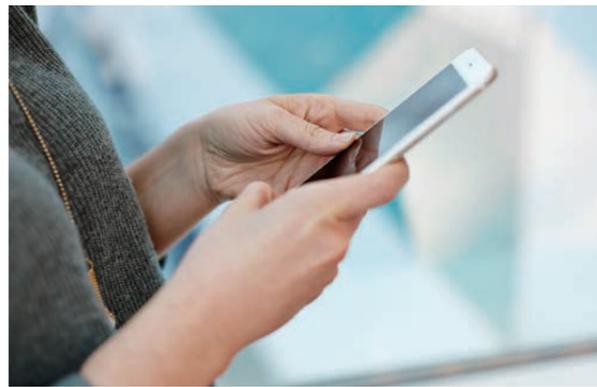
[youtu.be/wfL-hwFQ7dM](https://youtu.be/wfL-hwFQ7dM)

# 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

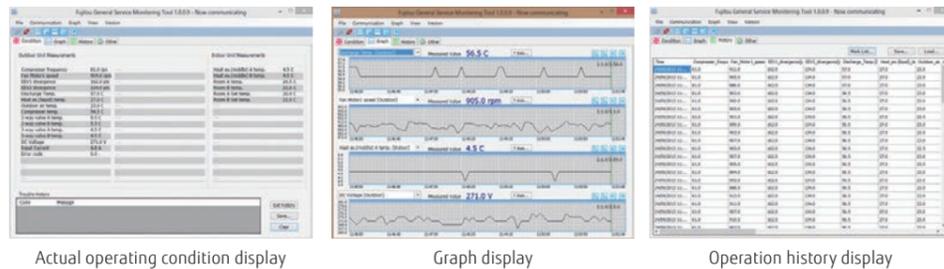
We will release an App of troubleshooting tool for iPhone, iPod touch and other Apple products and Android products. This application is a troubleshooting tool for Fujitsu General air conditioner (Room air conditioner / Packaged air conditioner, VRF, ATW, "FGLair", R32 calculation of allowable refrigerant capacity) It helps you to check air conditioner condition. Error code check, Troubleshooting, and Sensor check are available.



## Service Monitoring Tool for Single Split, Multi-split & Air to Water



- Quick overview about temperature sensor readings and controlled parts like EEV, Fan, Compressor and so on.
- It is not easy to judge the point. So it would be better to delete it.
- Visualization of protection operation
- Helpful for intermittent troubleshooting
- Proof of normal operation for the customer during periodical maintenance.



	<b>UTY-ASSX</b>
Dimensions (H×W×D) (mm)	60 x 160 x 160
Weight (g)	500

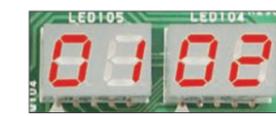
## Easy maintenance & monitoring

### 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



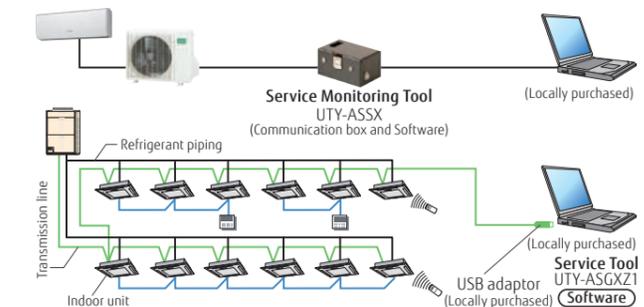
Wired Remote Controller



### Error diagnosis by Service Tool

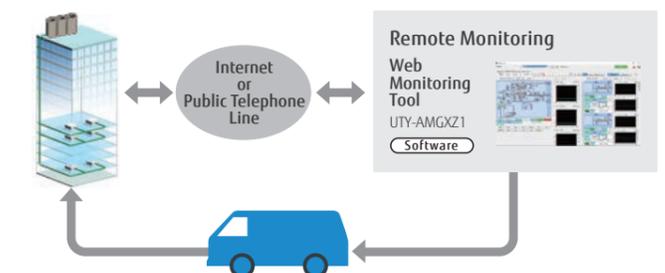
Error diagnosis by Service Tool  
The unit status details for VRF system can be checked on PC screen by connecting Service Tool.  
Quick countermeasures can be taken

- 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

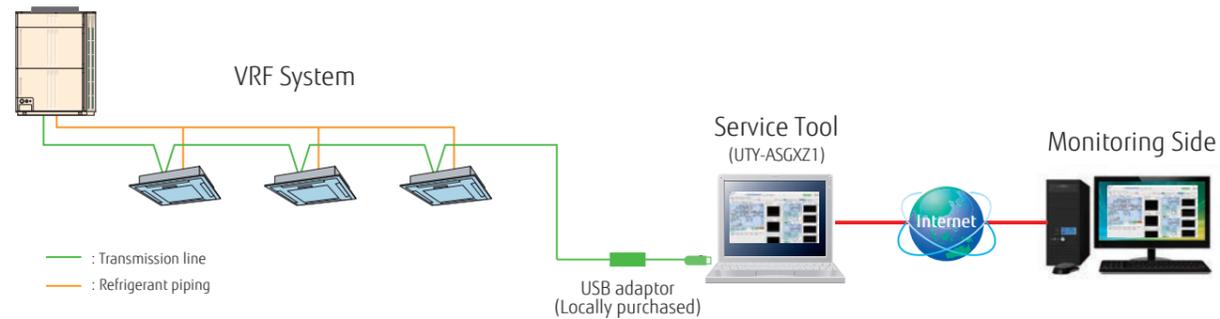
- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
- 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.

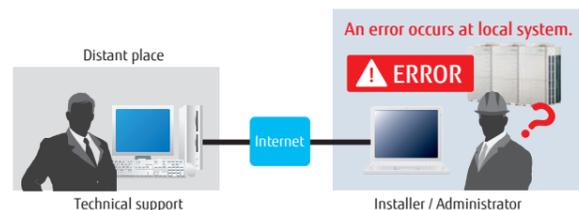
**Whether each sensor value is normal is judged automatically.**

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

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

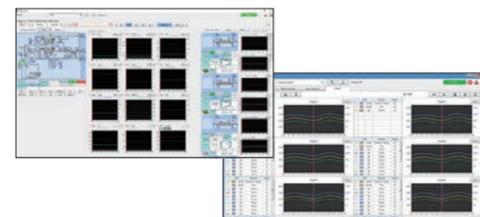
### Remote technical support & maintenance

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



### Various trend graph display

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



### NEW Custom Auto Function

The 'Custom Auto operation display' shows a table with the following data:

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

The 'Custom Auto setting' interface shows controls for Cool (24 °C) and Heat (20 °C) modes, with a Deadband of 1.5 °C.

### 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	• Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	• 1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Display	1366 x 768 or higher resolution
Interface	• 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

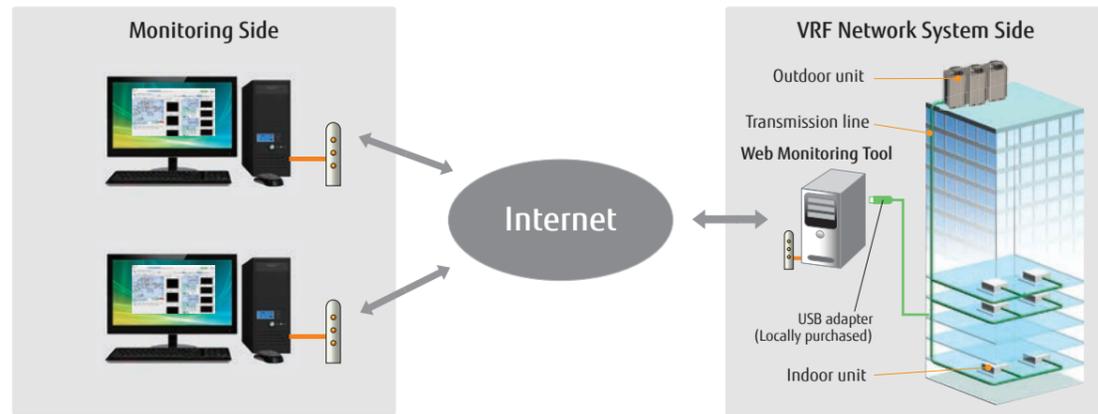
### Product features

- 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.

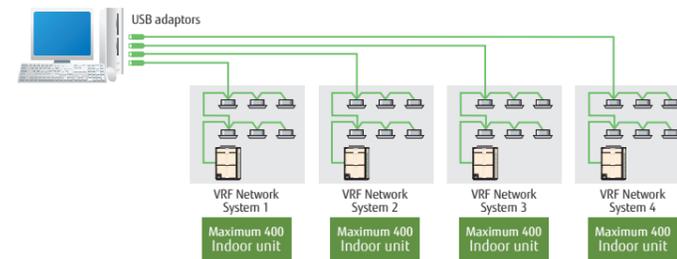
### Functions

## Web Monitoring System

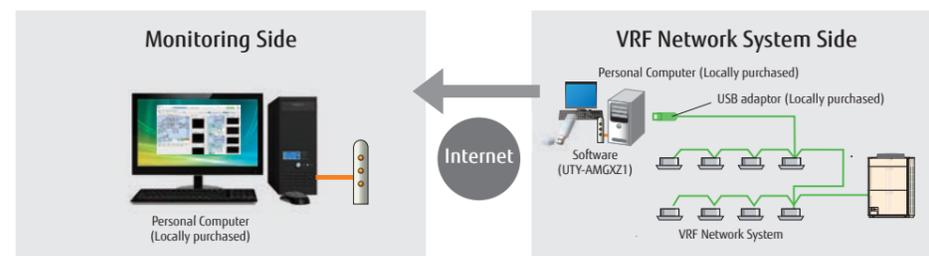


## Support 4 VRF network systems

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



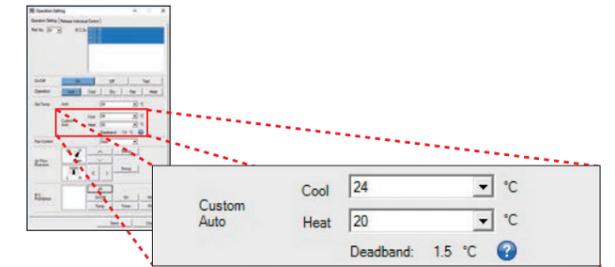
## System components



## NEW Custom Auto Function

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

Custom Auto operation display



Custom Auto 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"> <li>• Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1</li> <li>• Microsoft® Windows® 8.1 Pro (32-bit or 64-bit)</li> <li>• Microsoft® Windows® 10 Pro (32-bit or 64-bit)</li> </ul>
CPU	1 GHz or higher
Memory	<ul style="list-style-type: none"> <li>• 1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit])</li> <li>• 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])</li> </ul>
HDD	40 GB or more of free space
Display	1366 x 768 or higher resolution
Interface	<ul style="list-style-type: none"> <li>• USB port (for 10 USB Network Interface maximum 4, Software protection key)</li> <li>• Either of the following interface is required for remote connection:                             <ul style="list-style-type: none"> <li>- Public Telephone Line: Modem is required</li> <li>- Internet using LAN: Ethernet port is required</li> </ul> </li> </ul>
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