

FUJITSU



AIRSTAGETM

VRF

Light Commercial &
Commercial,
Residential

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.

004 OUR MESSAGE

Innovation and Technology

- 006 Clean
- 008 Future
- 010 Comfort
- 012 Control
- 014 Design

- 016 History
- 018 World Wide Locations
- 020 Global Business Activities
- 022 Project References
- 024 Global Development & Production Bases
- 026 High Quality Development & Production Facilities
- 028 2021 New Products

032 SOLUTIONS

- 034 For Light Commercial
- 042 For Commercial
- 044 For Residential

PRODUCT LINEUP

VRF
VENTILATION
CONTROL SYSTEM & OPTIONAL PARTS

SUPPORT

- Sp-002 AIRSTAGE™ Support
- Sp-004 AIRSTAGE™/RAC Support Tool
- Sp-006 WATERSTAGE™ Support Tool
- Sp-008 Quick Service & Maintenance
- Sp-010 Service Tool
- Web Monitoring Tool

OUR MESSAGE





for Clean



for Future



for Comfort



for Control



for Design

We create the comfort for the people all over the world by made-in-Japan quality and innovative manufacturing.



History



World Wide Locations



Global Business Activities



Project Reference



Global Development & Production Bases



High Quality Development & Production Facilities



Clean

Think About Air Quality

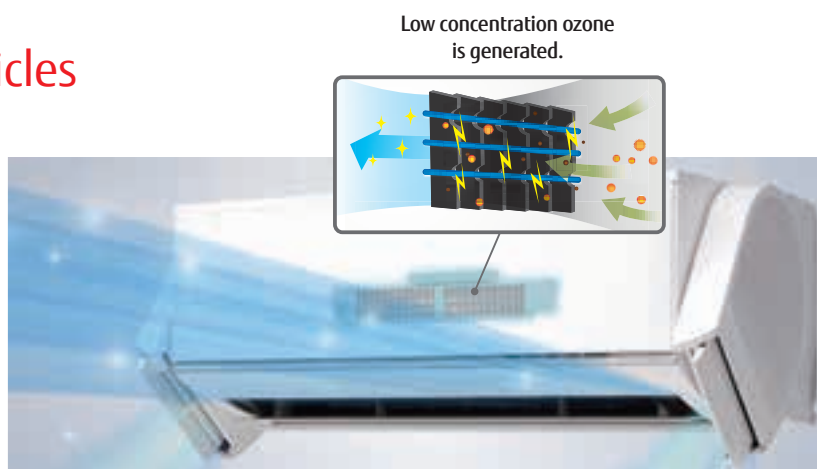
Fresh air is essential for comfortable air conditioning. Fujitsu General's air conditioning offers a wide range of products with air cleaning functions such as highly advanced filters and ventilation systems using heat exchangers.

Clean air by collecting dust particles



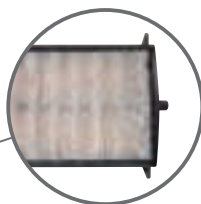
Plasma Air Clean

Air is cleaned with an electric dust collecting technology. Pollen, house dust and other tiny pollutants are collected and removed with static electricity.



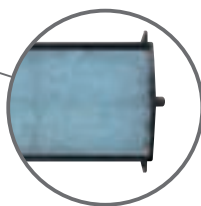
Using different filters at both sides

Air Filter



Apple-catechin Filter

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



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.

Ventilation with adequate airflow maintaining a subdued change in temperature

Heat Exchange Ventilation

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



Adopts a highly efficient counter-flow heat exchange element

Air Handling Unit

The Air handling applications for AIRSTAGE™ system is the Fujitsu general offer to the most demanding installations, where energy efficiency meets with the highest comfort.





Future

Green Aspect for Refrigerant

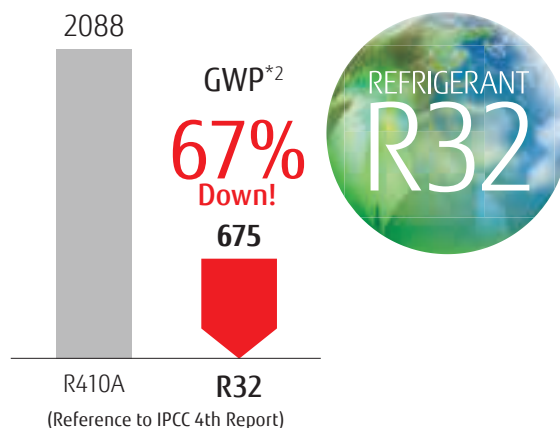
We provide reliable technologies approved and cultivated in the European market where environmentally friendly regulations are very strict. We are working on making environmentally friendly products we can be proud of in the future in our research, development and manufacturing processes.

New refrigerant R32 for the reduction of the global warming potential.

- The ozone-depleting potential (ODP*) is **0!**
- Environmental properties
- Performance
- Economic efficiency

*1 ODP (Ozone-Depleting Potential): This is the relative value indicating the impact of ozone-depleting substances per unit weight if they are emitted into the atmosphere when CFC-11 (trichlorofluoromethane, CCl3F) is considered to be 1.0.

*2 GWP (Global-Warming Potential): This is the number that indicates the global warming capability of other greenhouse gases with reference to carbon dioxide as the standard. This is the estimated integration value, which is indicated as a ratio to CO₂ of the radiant energy given to the earth (i.e., impact on global warming).



Our Pioneering Efforts Make Green Future

Approach to new energy efficiency standard Fujitsu General following the EU climate action plan 20/20/20 by 2020.

20% Less Primary Energy Use

Fujitsu General products with high efficiency and therefore low electricity

20% Less CO₂ Emissions

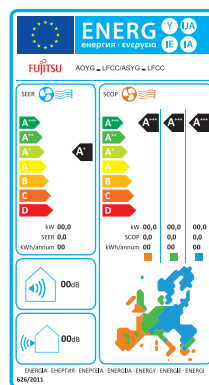
Fujitsu General products sharply following the F-gas regulation 517/2014

20% Share of Renewable Energy

Fujitsu General promoting air sourced heat pumps as renewable energy source heating systems

New Energy Labelling Requirement 626/2011/EU

Our Air Conditioners have reached the "Class A" ranking, the highest energy efficiency level that is now shown on energy labels in Europe.



SEER (Cooling mode)	SCOP (Heating mode)
A+++ SEER ≥ 8.50	SCOP ≥ 5.10
A++ 6.10 ≤ SEER < 8.50	4.60 ≤ SCOP < 5.10
A+ 5.60 ≤ SEER < 6.10	4.00 ≤ SCOP < 4.60
A 5.10 ≤ SEER < 5.60	3.40 ≤ SCOP < 4.00
B 4.60 ≤ SEER < 5.10	3.10 ≤ SCOP < 3.40
C 4.10 ≤ SEER < 4.60	2.80 ≤ SCOP < 3.10
D 3.60 ≤ SEER < 4.10	2.50 ≤ SCOP < 2.80
E 3.10 ≤ SEER < 3.60	2.20 ≤ SCOP < 2.50
F 2.60 ≤ SEER < 3.10	1.90 ≤ SCOP < 2.20
G SEER < 2.60	SCOP < 1.90



Less Space

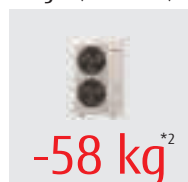
Installation Flexibility

The top class compact dimensions of outdoor units from 8 to 18 HP capacity, keeping the building appearance as it is by improvement on the installation flexibility.

Installation Space



Weight (18HP model)

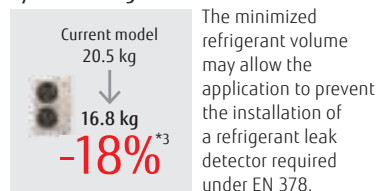


Less Refrigerant

Design with Small Refrigerant

Significantly reduce the system refrigerant volume by new small indoor unit, piping design and optimized heat exchanger volume design.

System Refrigerant Volume

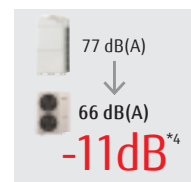


Less Noise

Top Class Low Operating Sound

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

Sound Power Level (8HP model)



VRF System outdoor units **AIRSTAGE J-IVL**

*1: J-IV models is compared with V Series outdoor unit 14/16/18 HP models. *2: J-IV 18 HP model is compared with V-IV 18 HP models. *3: Ex) In the case of 30 indoor units connection in 1 system (Outdoor unit: 12 HP, Indoor unit: 1 kW × 30, Total piping length: 277.5 m) • J-IV model is compared with current models. *4: J-IVL 8 HP model is compared with V Series outdoor unit 8 HP model.



Comfort

Comfortable Airflow Design

Fujitsu General has developed and commercialized numerous world-first technologies with a commitment to real comfort. This concept also applies to our designs. We will continue to pursue the possibilities of air conditioners and provide new comfort in the future.



NEW

Cassette One-way Flow type

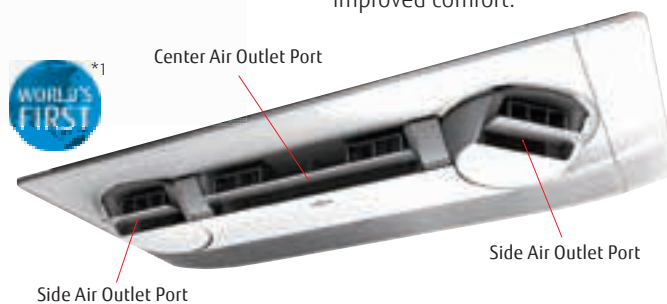
Wide airflow range by new triangle design & large flap

The large flap with triangularly arrayed louvers has a wider movable range and directs an airflow to the furthest corners of the room.

3D Flow Cassette

3 Air Outlet Ports can be controlled individually

Using the "Comfortable airflow setting" function allows the left and right air outlet ports and the wide center air outlet ports to automatically create a comfortable space for improved comfort.



Cassette Circular Flow

Unique Circular Flow design

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



Wall Mounted

Comfortable airflow control to prevent the body from being exposed to airflow

The comfortable space can be created with Hybrid Airflow, which combines different temperatures of air current and velocities.



Comfort by Design with Advanced Technology



Lambda Heat Exchanger³



Power Diffuser⁴



Filter Auto Clean⁵



The Dual Side Fans²



3 Air Outlet Ports¹

The Dual Side Fans equipped to our flagship "nocria X" model optimally control the airflow. Their distinctive form delivers comfortable airflow to the corners of room. The Power Diffuser opens the lower flap of the main unit to blow warm air downward. This heats up rooms from the floor to increase heating efficiency. Lambda Heat Exchanger improves the operating efficiency and

expands the possibilities of design, such as compactness of indoor units. Moreover, we have developed the automatic cleaning of filters for the first time to ensure maintenance and operating efficiency. The airflow control system of "nocria X" is also applied to cassette type. 3 airflows create comfortable space. Fujitsu General is developing unique technologies to provide pleasant spaces.

*1: Announced 2018. In room air conditioner for the home (our company's investigation) *2: Announced 2012. In room air conditioner for the home (our company's investigation) *3: Announced 1994. In room air conditioner for the home (our company's investigation) *4: Announced 1991. In room air conditioner for the home (our company's investigation) *5: Announced 2002. In room air conditioner for the home (our company's investigation)



Control

User friendly screen display facilitates easy operation.

By using our Wireless LAN Interface and "FGLair" app, you can control your home's cooling and heating anytime and anywhere.

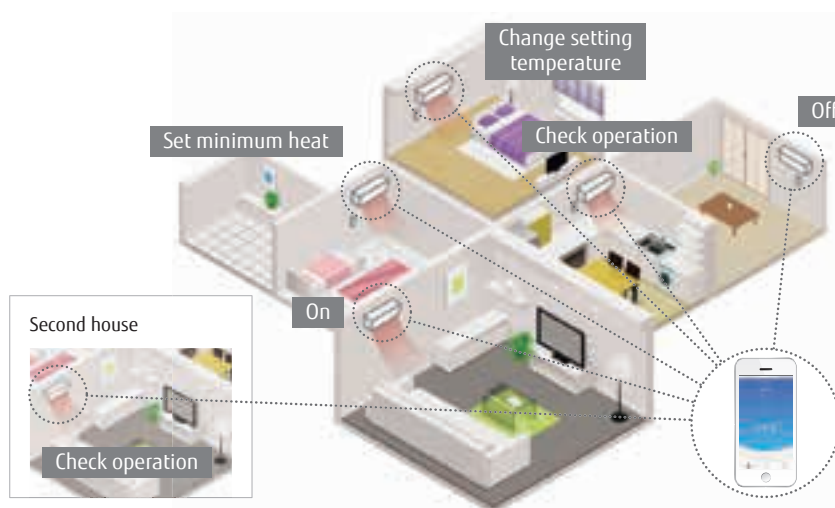
Operation from Anywhere

Using the Internet of Things (IoT), Fujitsu General actively provides services that allow users to control air conditioners from their smartphones. We will expand open co-creation efforts with external partners and deepen our use of IoT and artificial intelligence (AI) to develop new functions and services in efforts to develop secure, convenient air conditioners.



If you forget to turn off your system before you left your home - no problem!

"FGLair" is an application software that enables you to operate the Fujitsu General's air conditioner(s) with a mobile device from anywhere out of your home or when you are on travelling.



Wireless LAN Interface

The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.



+

FGLair™

Download Free



Compact Wired Remote Controller

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



Central Remote Controller for VRF

Central Remote Controller allows many menus to display on the top screen by adopting touch panel screen. Necessary window pops up only by touching the menu you want to operate. More intuitive operation can be performed.

Remote monitoring/
Remote operation

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





Design

Beautiful Space Design

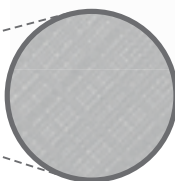
Fujitsu General provides the well-designed model with special texture for Europe, the design-award-winning product suitable for the room interiors, and the various designed Cassette type matched to office space. We also have the lineup with elegant design models such as the Ceiling model with beautiful curved surface.

KE Series

Wall Mounted

KE Designer Series

What we aim is a well-designed air conditioner especially for Europe. It is different from Japanese one harmonized with its surroundings and it appeals comfortable elegant feeling in the room. Light-elegant and three-dimensional expression composed of curved surface is beautiful from anywhere.



CMF: Color Material Finish

The texture of the front panel expresses craftsmanship existing in Europe. The texture changes the expression by the changing light of the day.

Design Award winning products

Wall Mounted, Design models



Light Elegant Design

New Design Ceiling

Light-elegant and three-dimensional expression composed of curved surface gives comfort and wellbeing.



reddot winner 2020



Various Cassette Design



This fits grid ceiling system. Compact Cassette Grid type



Beautiful designs from all angles. Cassette Circular Flow White color panel



For ambiances with dim lightings. Cassette Circular Flow Black color panel



History

1936 Established as Yaou Shouten Ltd.

Overseas Air Conditioning Business since 1971

1960: Air conditioning business starts. Japan-domestic business starts.

1971 Air conditioner exports to Middle East.

1977 "Super Power, Super Quiet" Series

1982 Window type
3 Super Series

AL/AX Series



1985 Large wall mounted and multi air conditioner introduced.



***1,*2 1991** Air conditioner with the world's first lambda heat exchanger

1994 Air conditioner with the world's first power diffuser

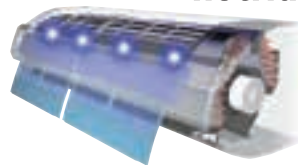
2001 AIRSTAGE™ Series is released. VRF air conditioners for large-sized buildings.

AIRSTAGE™



***3 2002** Air conditioner with the world's first automatic self-cleaning filter system

nocria™



2004 Standalone type small VRF AIRSTAGE™ J Series is released.



2006 VRF Heat Pump type Maximum 42 HP AIRSTAGE™ V Series is released.

AIRSTAGE V™



2009 Heat Pump Modular type Maximum 48 HP AIRSTAGE™ V-II Series is released.

2009 Air to Water system is released.

WATERSTAGE™



1950 ~

1970 ~

2000 ~

Manufacturing Company Establishment

1955 Headquarters in Kawasaki

1964 Electronic components factory in Ichinoseki



1977 Air conditioner manufacturing company in Hamamatsu (now Hamamatsu business office.)

1991 Air conditioner manufacturing company in Thailand.

1994 Air conditioner manufacturing company in Shanghai, China.

1998 Air conditioner motor manufacturing company in Thailand.

2006 VRF air conditioner manufacturer, sale, and service company in China.

2007 Air conditioner technology building completed on Main Office group. Air conditioner R&D Center in Kawasaki

2009 Operation of compressor factory begins in Thailand.



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



Fujitsu General (EURO) GmbH

Sales & Service Maintenance Company Establishment

1976 North America sales company

1977 Europe sales company (UK)

1978 Australia sales company / Europe sales company (Germany)

1980 Brazil sales company

1997 Asia sales company (Singapore)

1998 Middle East sales company (UAE) / New Zealand sales company

2000 Air conditioner manufacturing and sale technical partnership in India

2002 Taiwan sales company

2006 China sales company

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For Light Commercial

2011 High energy saving type AIRSTAGE™ J-II Series is released.

2014 Small & lightweight outdoor unit AIRSTAGE™ J-IIS that has improved easy installation with a single fan

2016 Small VRF AIRSTAGE™ J-III that has advanced energy saving and easy installation is released.

2017-19 Small VRF AIRSTAGE™ J-IIIL suitable for diverse light commercial properties is released.

2020 Small & lightweight outdoor unit AIRSTAGE™ J-IVL, J-IV, J-IVS outdoor units released.



2019

New cassette style released.
3D Flow Cassette

For Commercial

2012 Heat Recovery Modular type AIRSTAGE™ VR-II Maximum 48 HP is released.

2014-15 Heat Pump Modular type AIRSTAGE™ V-III Maximum 54 HP ideal for large properties is released

2020 Heat Recovery type AIRSTAGE™ VR-IV Maximum 48 HP is released.



2020

AIRSTAGE™ Air Handling unit released.

For Residential

2011 Hi-spec Design models LT Series & LU Series is released.

2017 Flagship Wall Mounted models nocria™ X is released.

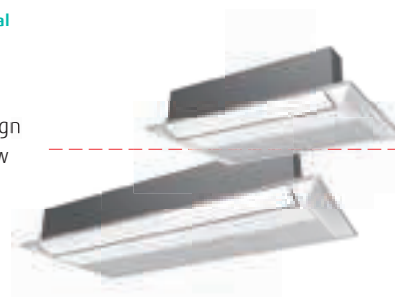
2017-19 Environment-friendly new refrigerant R32 models are added. (Split & Multi-split type)



nocria™ X

For Light Commercial

AIRSTAGE™
The new triangle design cassette One-way Flow type released.



For Commercial

For Residential

Multi-split and Air to Water Comfort Series 10 kW class released.



3-unit, 4-unit, 5-unit Multi-split

Air to Water Comfort series 10 kW class



Compact designed Heat pump. Air to Water Monobloc type released.

WATERSTAGE™



5 kW/6 kW

8 kW

2010 ~

2012 Joint venture in Thailand to manufacture compressors



2016 Commercial use air conditioner R&D Center in Thailand



2016 THE AIRSTAGE on Broadway in New York



2019 Construction of new building to strengthen development capabilities at Kawasaki head office:

Base to create new value by combining internal and external knowledge



2020 Construction of Manufacturing That Utilizes the IoT:

We will introduce a real-time IoT System to immediately visualize and analyze a variety of information.



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

*4: Announced 2018. In room air conditioner for the home (Our company's investigation) *5: Announced 2012. In room air conditioner for the home (Our company's investigation)



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)



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

• Fujitsu General America, Inc.

• Fujitsu General Do Brasil Ltda.

14 Overseas Sales Companies



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



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



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



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



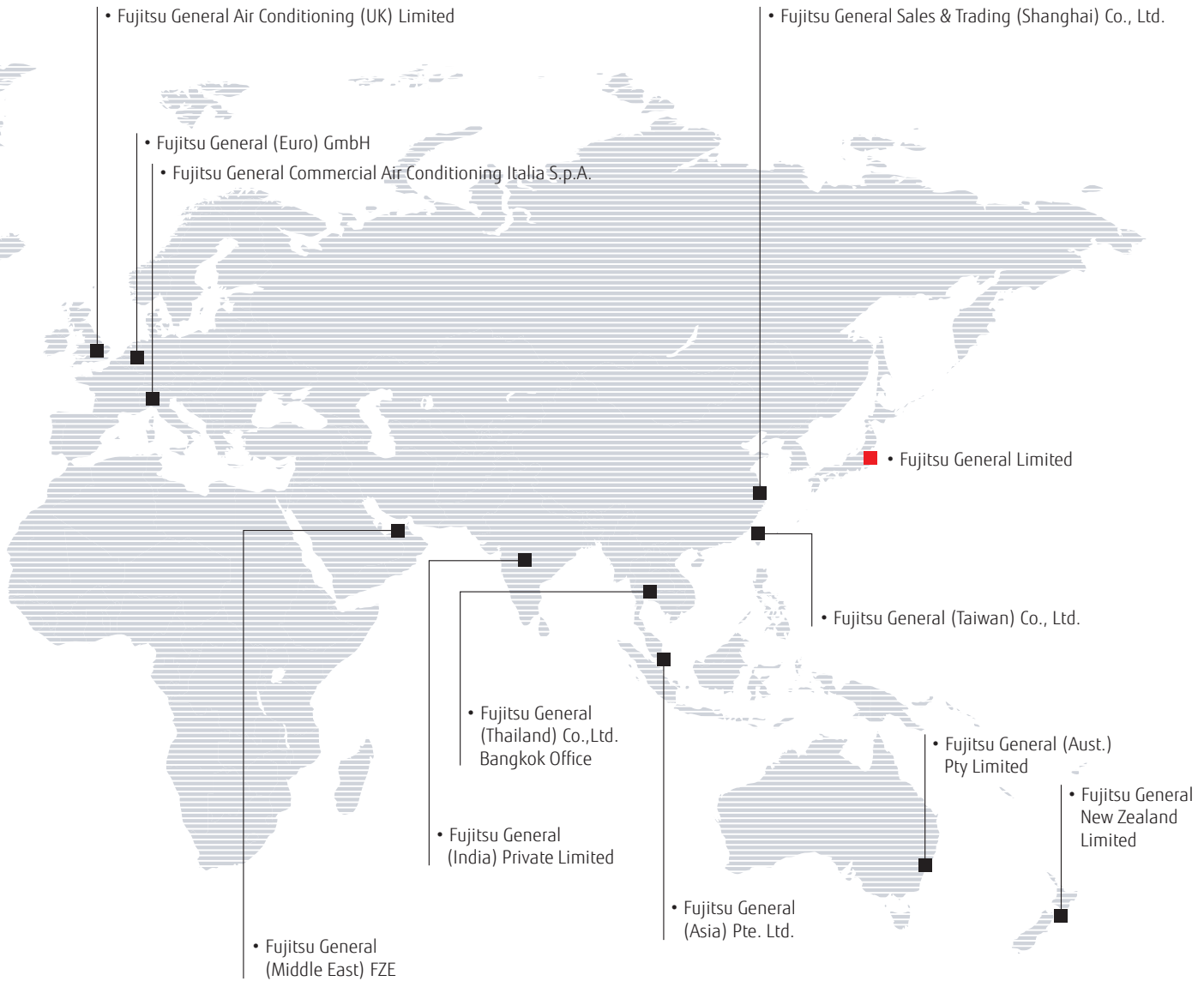
Fujitsu General (EURO) GmbH (Germany)



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



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



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



Fujitsu General New Zealand Ltd. (New Zealand)



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



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



Fujitsu General Do Brasil Ltda.(Brasil)



Fujitsu General (India) Private Limited



Fujitsu General America, Inc. (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

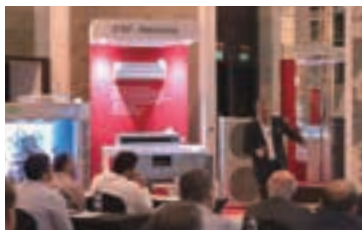


Distributor meeting



Call center

Middle East



Exhibition



Dealer Convention in Kuwait



Technical seminar



Training for dealers

Europe



HVAC trade show in Europe countries



Presentation & training

International authoritative design awards



"Dealer Design Awards" of "the NEWS"



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



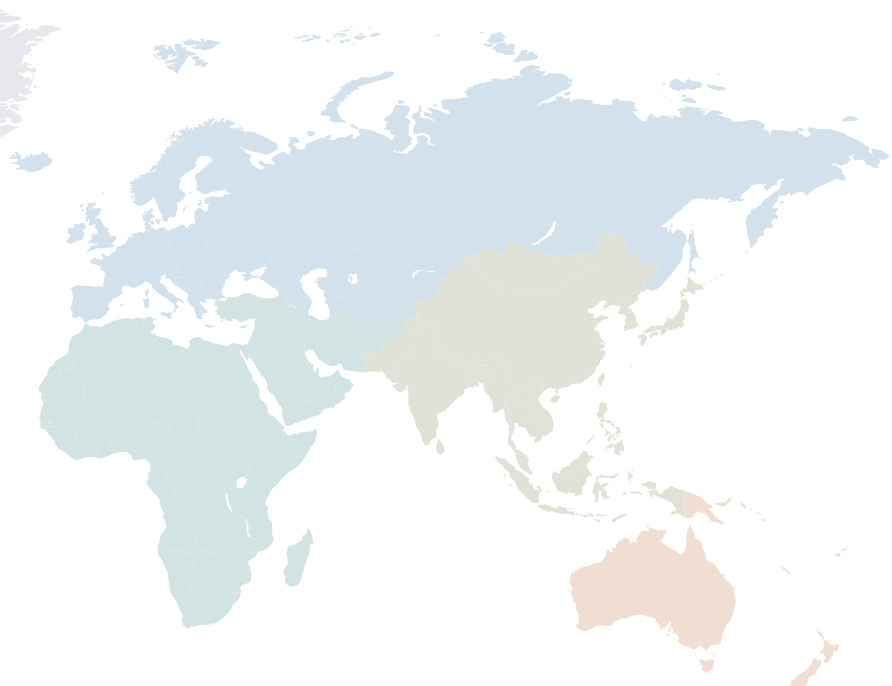
TOP OF MIND 2016" First prize in "MARCA DE EQUIPAMENTODE AR-CONDICIONADO" category of "CLIMATIZACAO" division



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.



Asia



New Product Presentation Meeting



Dealer Convention in Thailand



Training



Call center

Oceania



HVAC trade show in Europe countries



HVAC trade show in Australia



ACR Show



Charity (Christchurch)



Service & Maintenance



reddot winner 2020

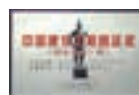
The product design competition has existed since 1955. Its award, the "red dot", is an internationally recognized quality seal.



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.

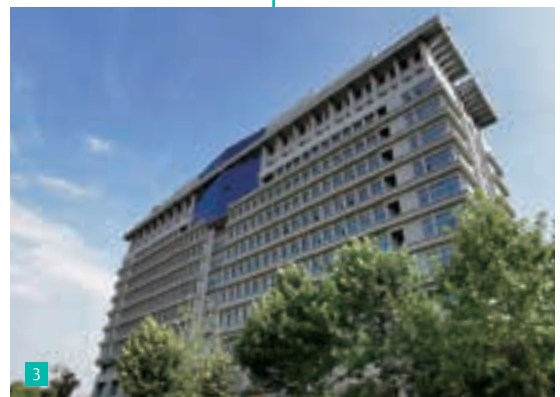
Our product is popular because of its high quality, energy saving, and easy installation, and so has been installed in a wide range of building types including high-rise office buildings, stores, hotels, public facilities, schools, hospitals and residential.



1



2



3



4



6



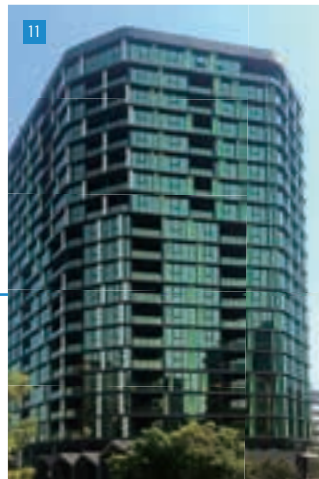
5



7

For Light Commercial

- 1 Bank in Europe
- 2 Museum in Asia
- 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)



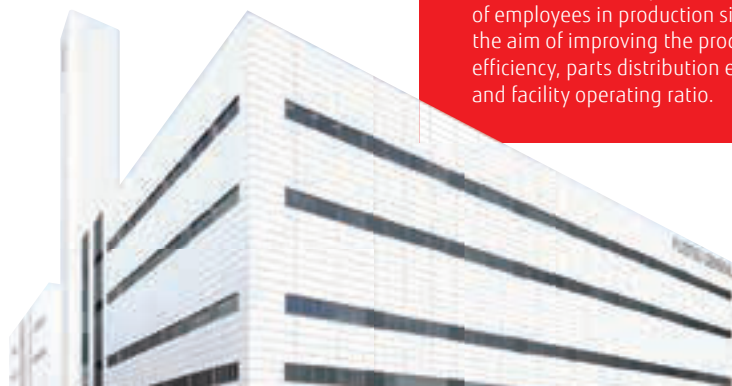
JAPAN Head Office, R&D Center and 60 m Height Difference Testing Tower (Japan)

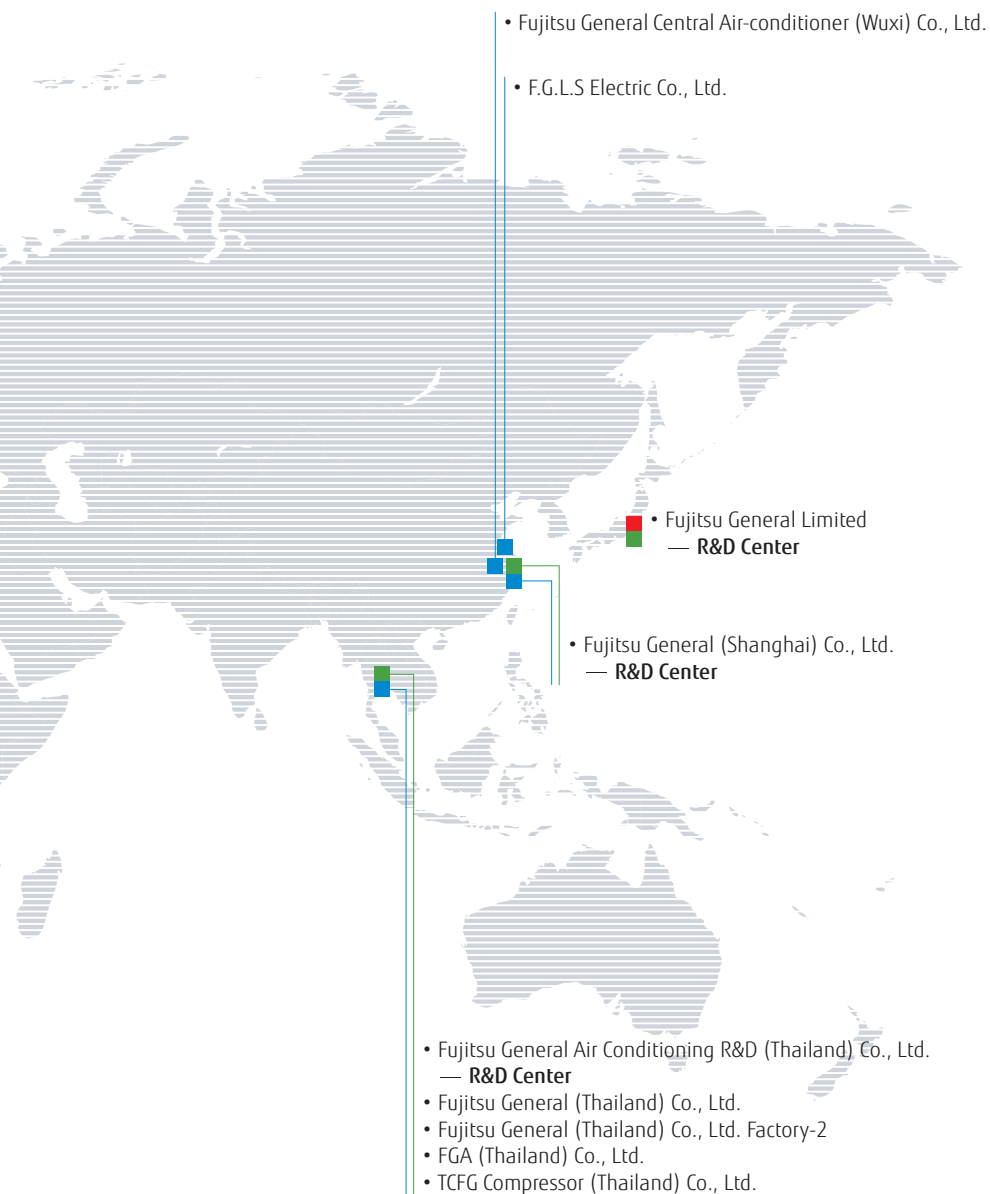


Construction of Manufacturing That Utilizes the IoT

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





Overseas Manufacturing Companies



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



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



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



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

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



Technology Research Building
in Japan Head Office

Testing Laboratory

Fujitsu General EMC Laboratory Limited



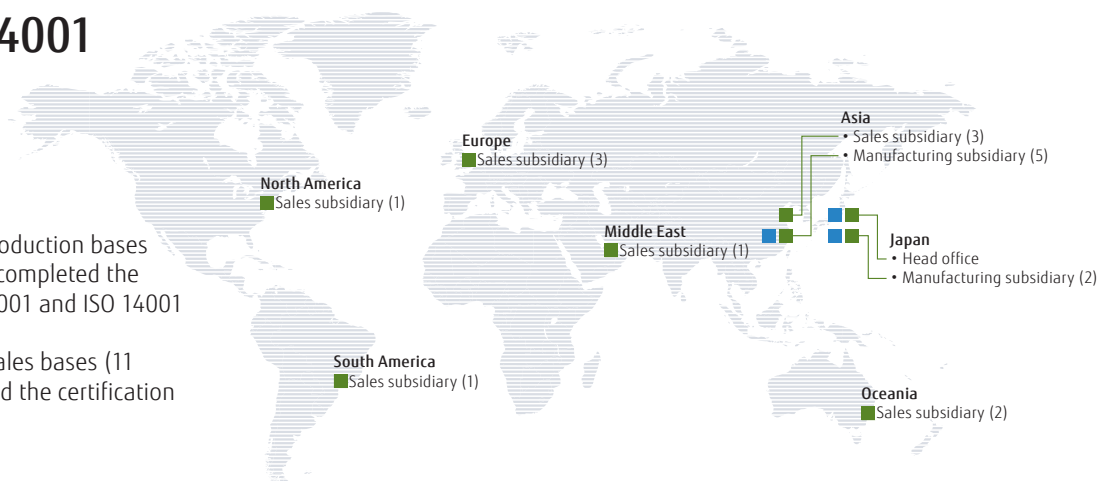
60 m Height Difference Testing Tower

Objective is to confirm oil circulation of compressor for reliability



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

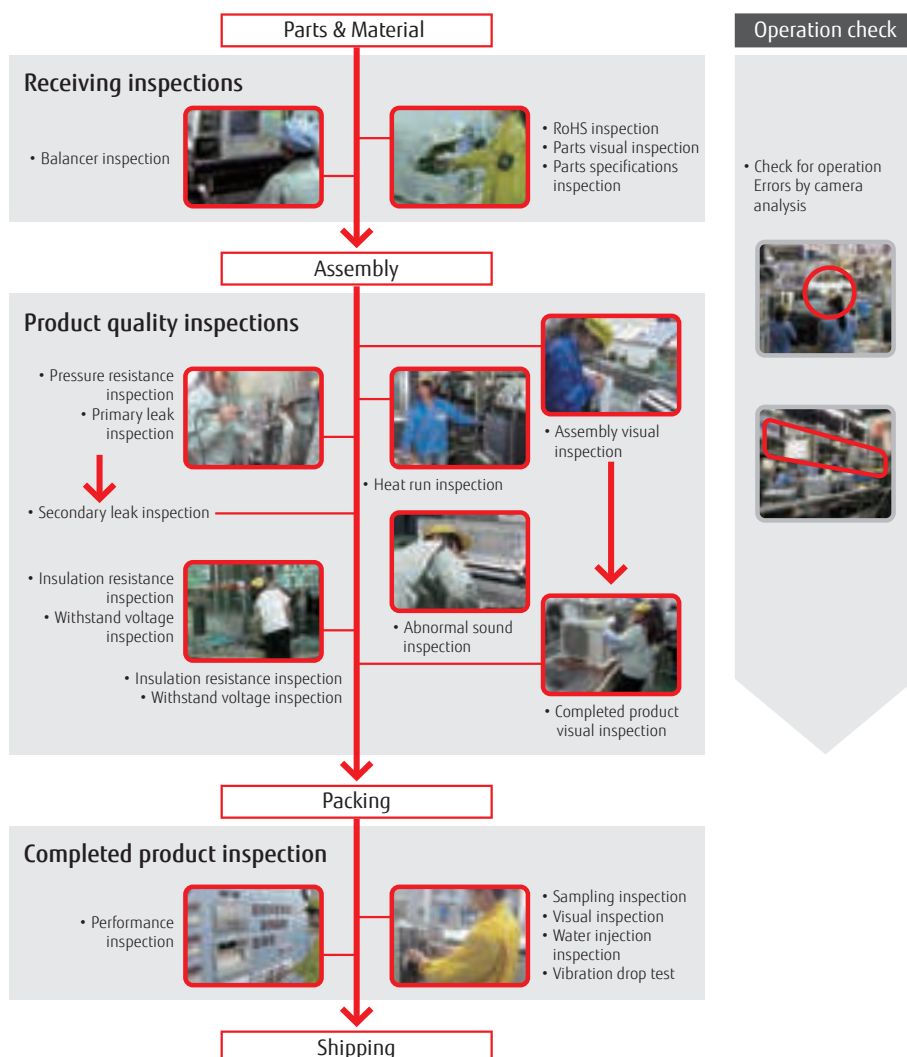
All Fujitsu General factories have acquired ISO 9001, and have built a quality control system common around the world. High quality products are offered to all over the world based on stringent quality inspections.

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.





Multi-split indoor unit
Wall mounted Standard series
High efficiency & Large room
24kBTU

2021 New Products



SPLIT

Floor

Compact & Comfort

- 9/12/14 class 3 models
- High energy efficiency
- New type Wireless LAN adaptor (option)
- R32 refrigerant & low refrigerant volume



MULTI-SPLIT

2-unit to 5-unit Multi-split type Indoor units

Wall mounted Standard Series

- 3 models
- Capacity range from 18kBTU to 24kBTU

Floor

- 3 models
- Capacity range from 9kBTU to 14kBTU

Ceiling

- 2 models
- Capacity range from 18kBTU to 22kBTU

Medium static pressure duct

- Capacity range is 22kBTU



Wall mounted Standard series
18/22/24kBTU



Floor
09/12/14kBTU



Ceiling
18/22kBTU



Medium static pressure duct
22kBTU

Multi-split type 3-unit, 4-unit, 5-unit

- 18-36 class, 4 models
- High energy saving
- R32 refrigerant model & less refrigerant charge
- Slim & Compact design outdoor unit
- Flexible installation



3-unit 18/24 class



4-unit 30 class
5-unit 36 class

  VRF

AIRSTAGE Indoor unit
Cassette One-way Flow type

- 7 models
- Capacity range from 1.1 kW to 7.1 kW class
- Compact chassis size
- Wide airflow range
- Low noise operation



 CONTROL SYSTEM

MODBUS® Interface

- Can be installed on DIN rail easily 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.



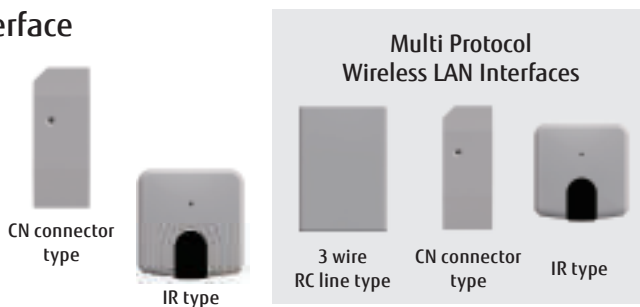
KNX® Interface

- Simple installation due to small and compact size.
- No separate external power supply required (just KNX bus power).



Wireless LAN Interface

- It is the most advanced solution to remotely manage an Air Conditioning system using all kind of mobile devices such as Smartphones, Tablets and PC

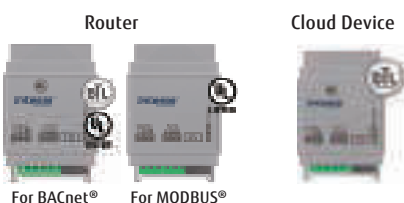


BACnet® Gateway

- BACnet® Gateway enables to connect a BMS and Fujitsu General split/multi-split/VRF system.



BACnet® / MODBUS® Router & Cloud Device



Multi Protocol LAN Interfaces

MODBUS® & KNX® Convertor for VRF



Pressure Sensor Kit



External Power Supply Unit



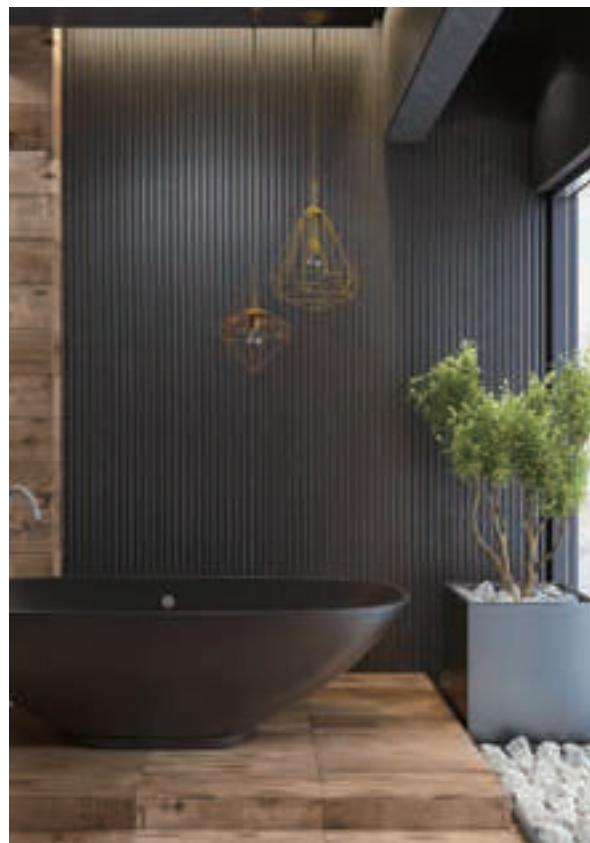


AIR TO WATER

WATERSTAGE™

Split type & Split DHW Integrated type Comfort Series 10 kW class

- 10 kW class 1 model outdoor unit
- Advanced heating capability at low outside temperature
- Enhanced anti-freezing functions in cold areas
- Compact & Quiet design against the noise when being operated at night



WATERSTAGE™

Monobloc type 5, 6 kW & 8 kW class

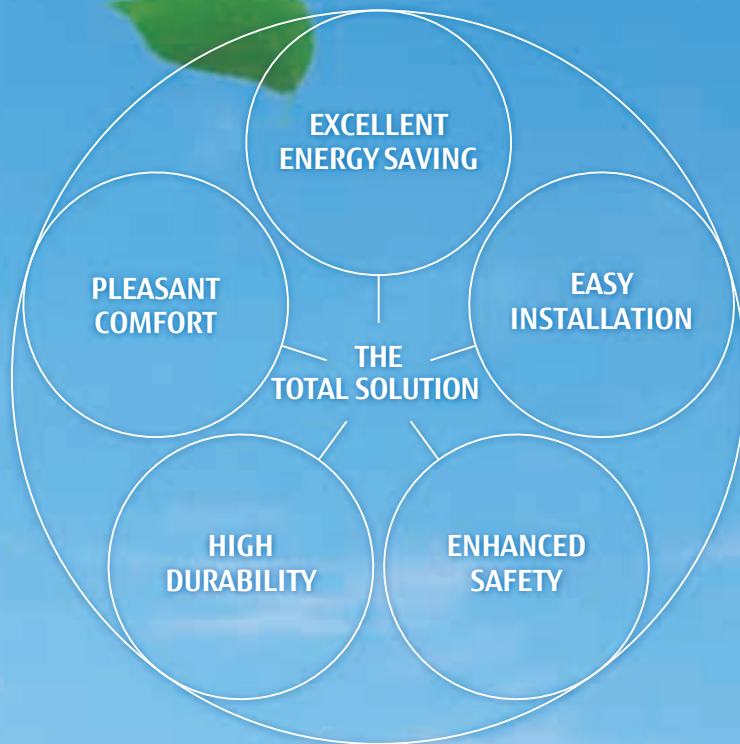
- Single phase 5/6/8 kW class 3 models
- All DC inverter technology
- High energy saving
- Low ambient operation
- Compact chassis size



5 kW/6 kW

8 kW

From Business to Private Spaces
SOLUTIONS



Solution Point

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

Fujitsu General provides the best solutions suitable for properties.



Target Properties

A casual conversation with a colleague at work

A presentation in a large meeting room

A restaurant you dropped by when going out
Your regular living room

We have a lineup of air conditioners ideal for all these situations – from business to private spaces.

The air conditioners of Fujitsu General can be found in various settings of life.



For Light Commercial

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

034 Shops, Restaurant

036 Small Office

038 Hotels

040 School



For Commercial

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

042 Large Building



For Residential

We provide smart air conditioning systems with a wide range of control options for comfortable control and convenient use.

044 Residence



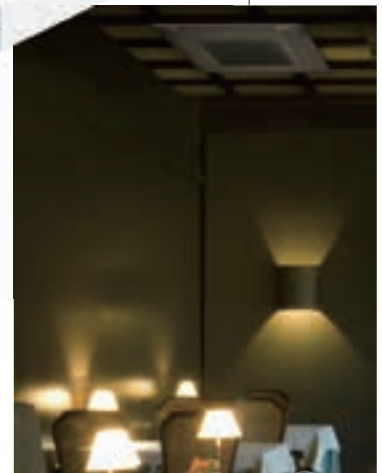
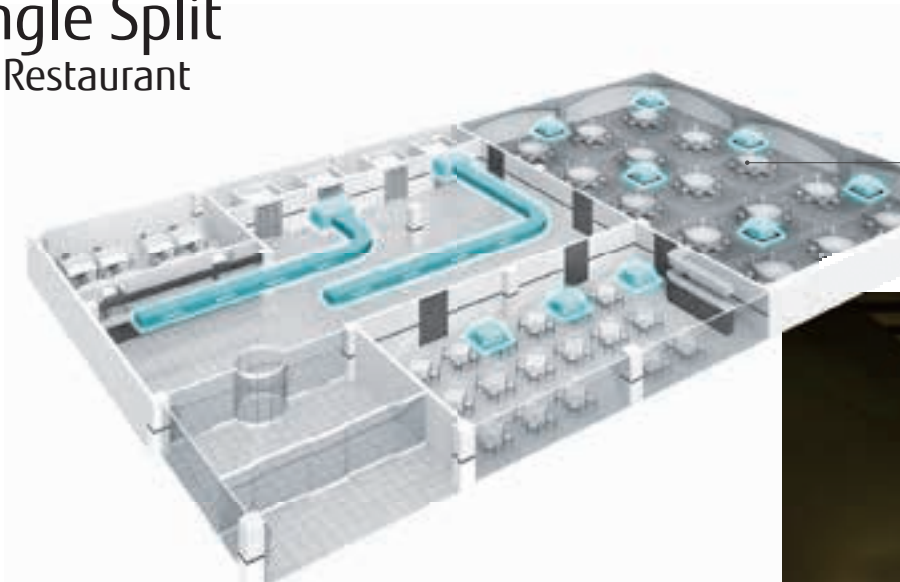
Restaurant, Shops

For Light Commercial

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.



Single Split For Restaurant



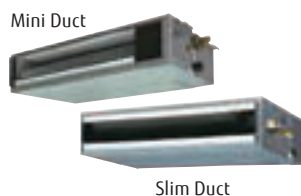
Circular Flow Cassette Series
For ambiances with dim lightings



For bright interior rooms etc.

R32 large models lineup expanded

The lineup of new ceiling type, cassette type and duct type suitable for large spaces has been expanded by adding models that use the environmentally-friendly new refrigerant R32.



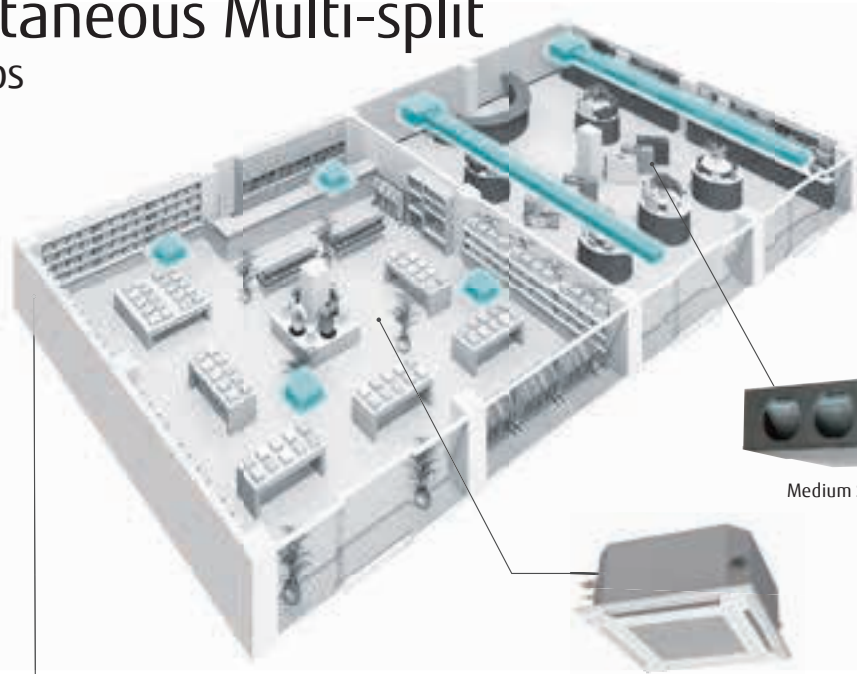
High Static Pressure Duct

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)



Simultaneous Multi-split For Shops



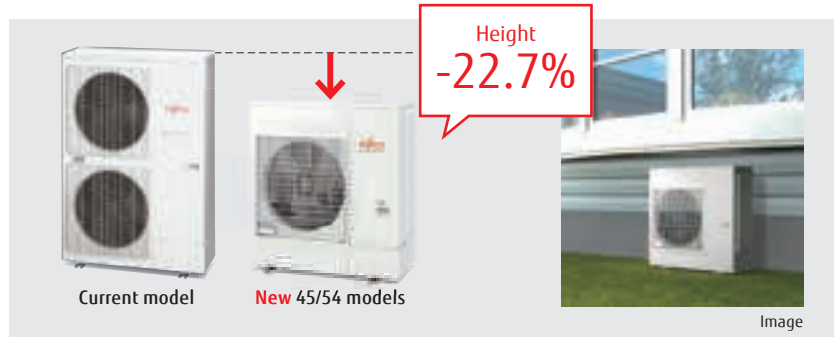
Various indoor unit lineup

We provide 3 types of indoor units. You can select them to suit the atmosphere and layout of your shop.



Small and light weight outdoor unit

Models using new refrigerant R32. Compared to the current models the outdoor unit is more compact and easier to install. (45/54 models)
A compact cassette grid type for grid ceiling systems was added for indoor unit lineup and ease of installation was improved.

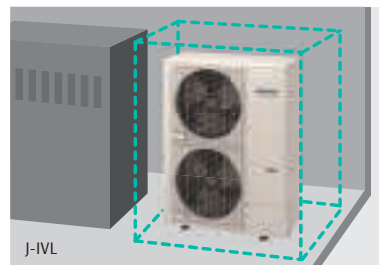
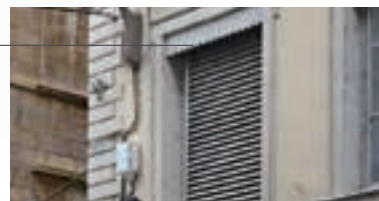
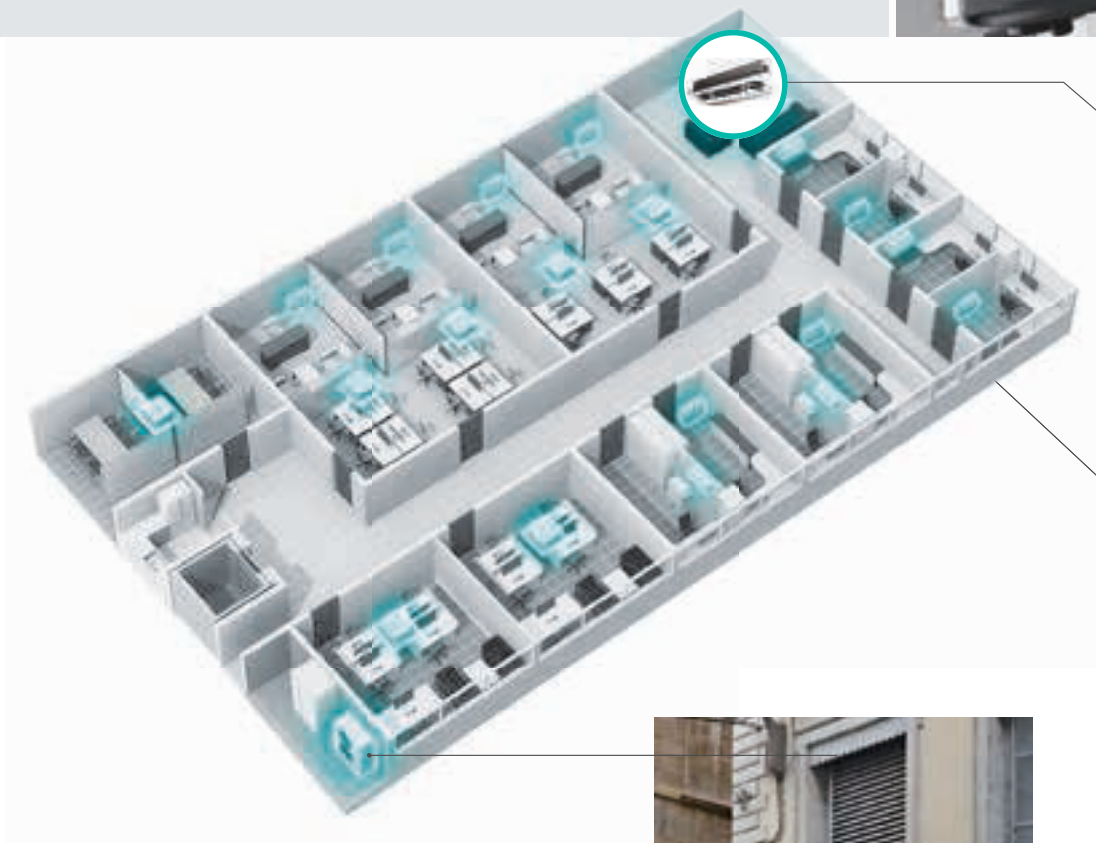




Small Offices

For Light Commercial

Fujitsu General provides perfect total air conditioning systems that take into account energy saving, low noise, comfortable airflow, small room application and centralized control for small-sized office buildings with many small rooms.



J-IV

J-IVL

J-IVL
High capacity model

AIRSTAGE™ J Series Up to 18 HP by compact outdoor unit

Small VRF system is suitable for the buildings with many small rooms. Maximum 42* indoor units can be connected.

*Only J-IVL 18 HP model

Compact and low noise design outdoor unit

This compact outdoor unit does not take up much space even if installed in a machine room or on the rooftop. This unit secures enough static pressure even if there are louvers. Low noise operation is possible at nighttime by a low noise mode.



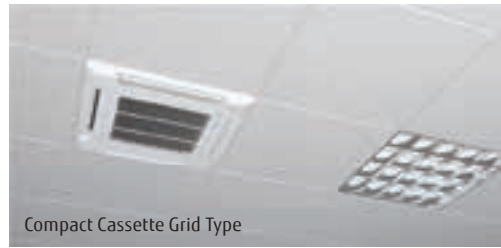
New style 3D flow cassette provides more comfort

The left and right air outlet ports with maximum 100° rotation angle and the wide center air outlet port can minimize uneven temperature to create a comfortable space.



Various indoor units lineup for low capacity class

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



Central Remote Controller UTY-DCGYZ1



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.

LAN



PC

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.



Wireless LAN

Router

Fixed IP, IP forwarding and open Port required



Tablet PC

Smartphone

*Wireless LAN support : Future release



New Compact wired remote controller

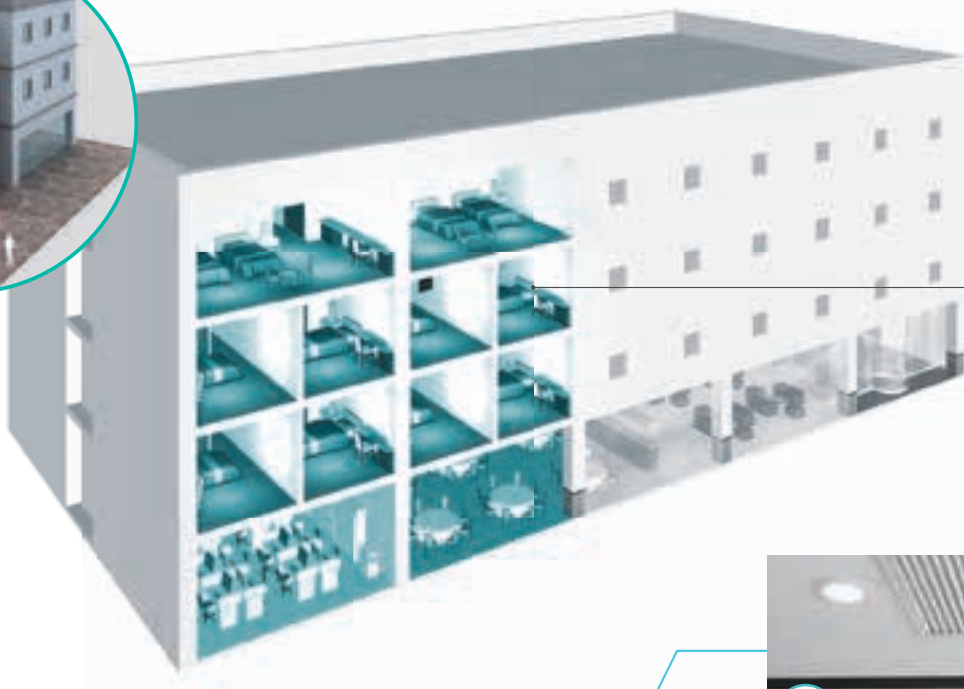
The size is compact but the screen is large and easy to operate. Stylish design that fits the interior.



Hotels

For Light Commercial

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.



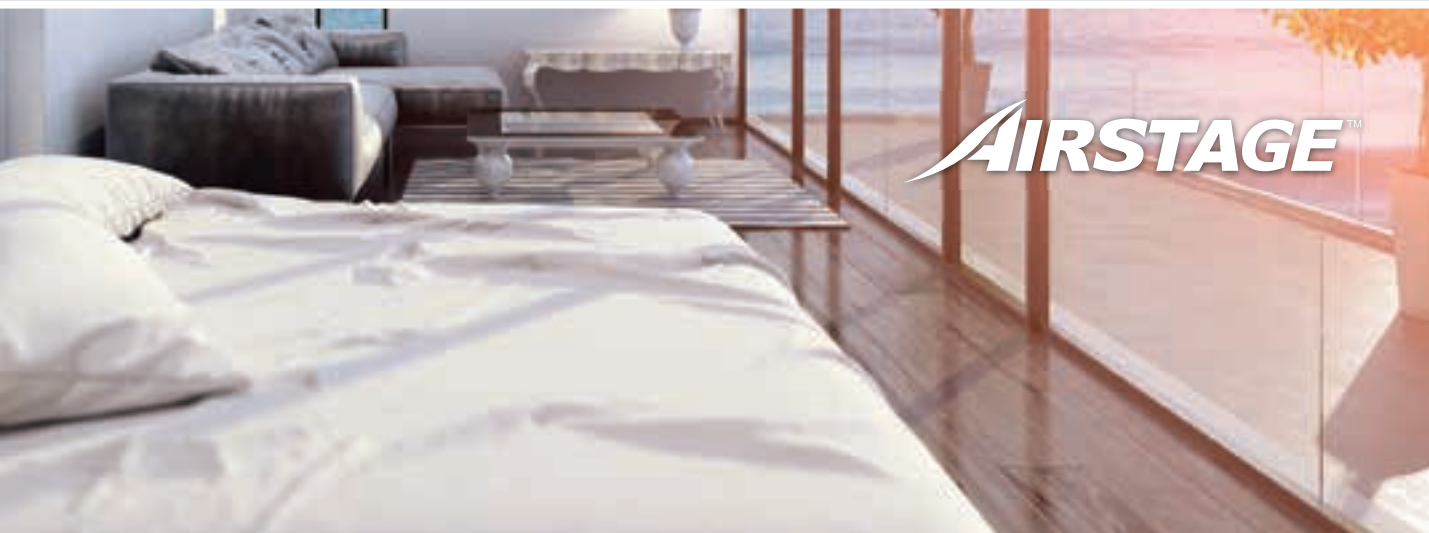
Ventilation of the whole hotel supported

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.



AIRSTAGE™ J Series appearance-oriented compact outdoor unit

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



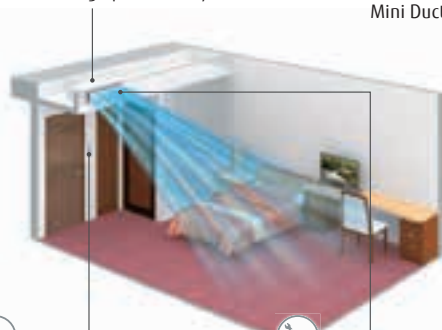
Guest room air conditioning with excellent comfort, energy saving and easy installation

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

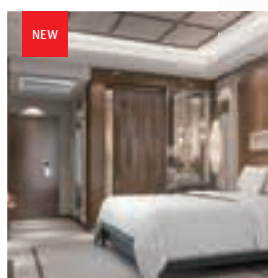


Comfortable airflow that switches up and down air directions

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



Auto Louver Grille Kit



Cassette One-way Flow type

Compact chassis size & Low noise operation

They produce little noise during operation, which makes them an ideal choice for use in hotel rooms.



Centralized control of air conditioning in shared spaces

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



System Controller



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.



Large space air conditioning in the reception and lobby

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

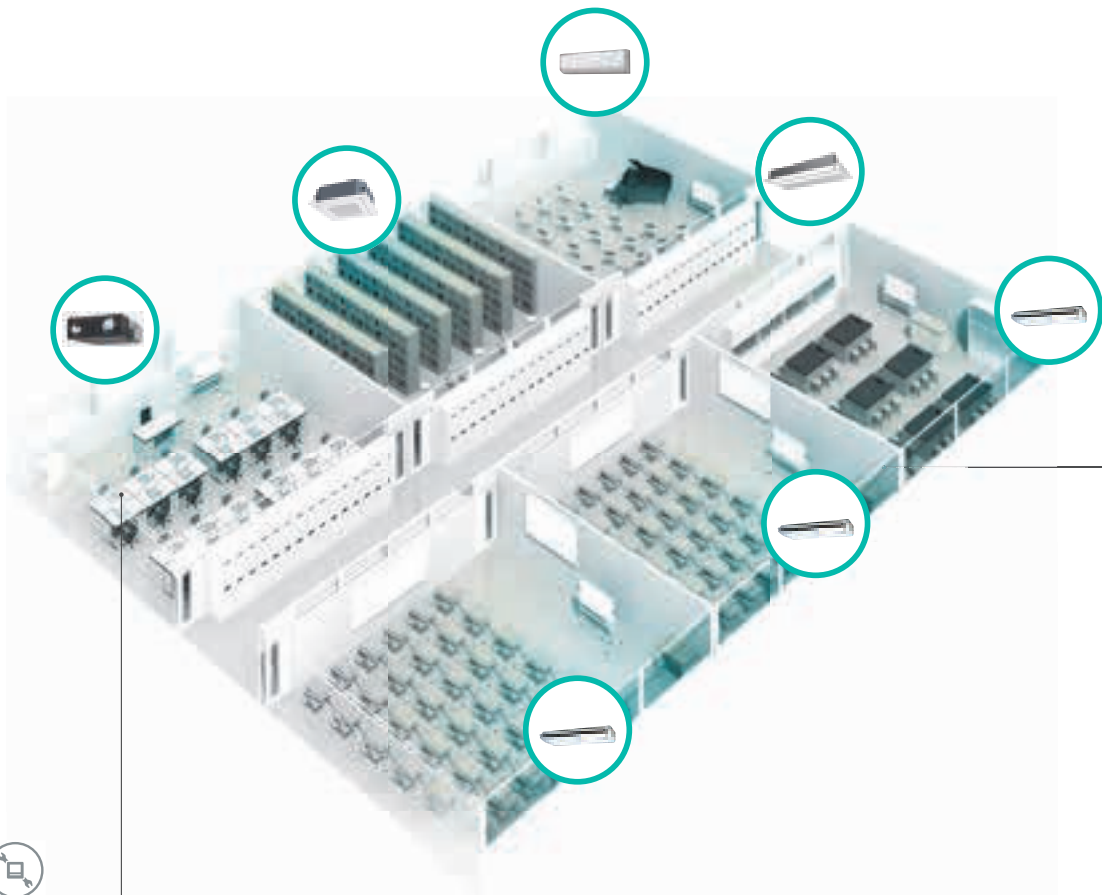




School

For Light Commercial

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.



Centralized control of both air conditioning and ventilation equipment

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

VRF indoor units



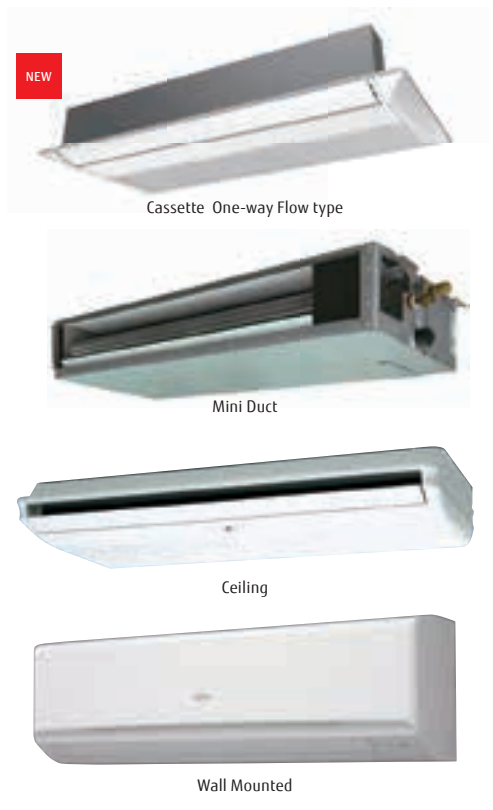
Facilities



System Controller Lite



AIRSTAGE™



NEW

Cassette One-way Flow type

Mini Duct

Ceiling

Wall Mounted

Various indoor units

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



Comfortable room air conditioning without airflow feeling

Circular Flow 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)



Large Building

For Commercial

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



Abundant lineup suitable to match the operating environment

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

*: V-III Tropical model only



AIRSTAGE™ VR-IV

Smart and cutting-edge design. Extensive lineup from 8 HP to 48 HP in 2 HP increment. Connectable indoor unit capacity ratio up to 150%

8 HP - 48 HP 34 Models

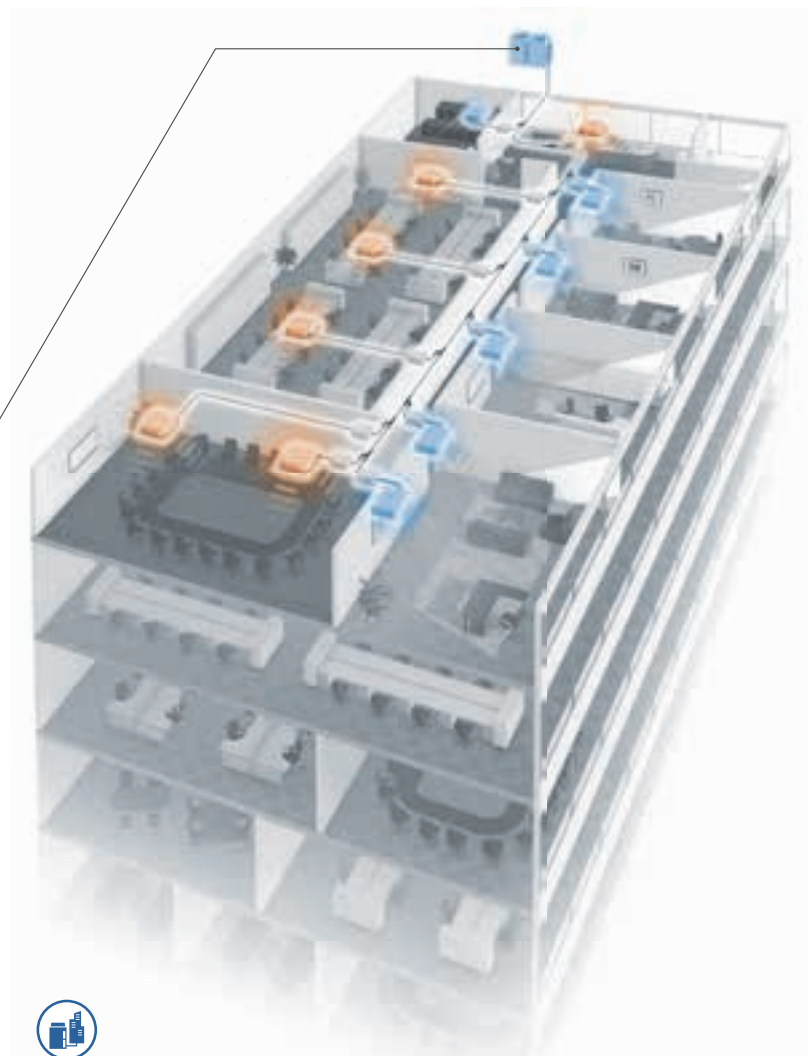
- Space saving combination: 8 HP to 48 HP/21 models
- Energy efficiency combination: 16 HP to 44 HP/13 models

AIRSTAGE™ V-III



8 HP - 54 HP 39 Models

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



Difference in height Up to 110 m

NEW

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

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



Pressure Sensor Kit

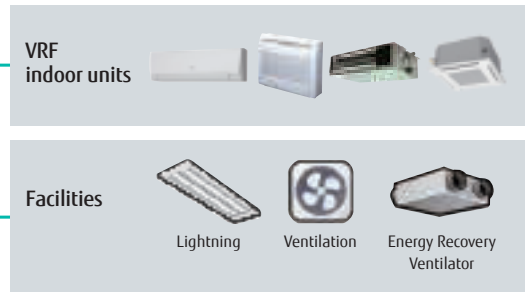


Centralized control

Not only indoor units in the building but also facilities such as ventilation can be controlled easily by anyone.

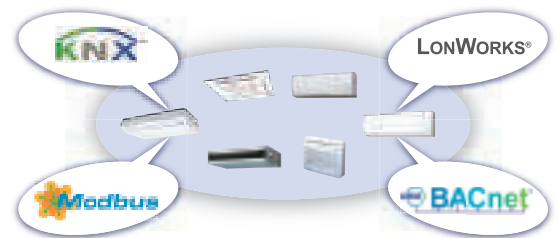


System Controller
(UTY-APGXZ1)
System Controller Lite
(UTY-ALGXZ1 & UTY-PLGXX2)



Link up with a variety of BMS

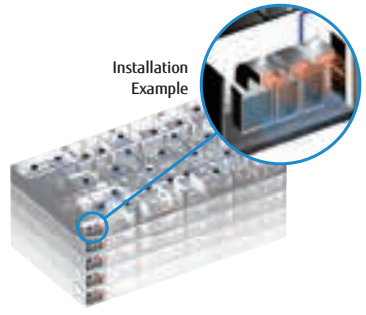
Centralized control including facilities and equipment in addition to air conditioning is possible by linking up with MODBUS, BACnet, KNX and other various interfaces.



High system flexibility

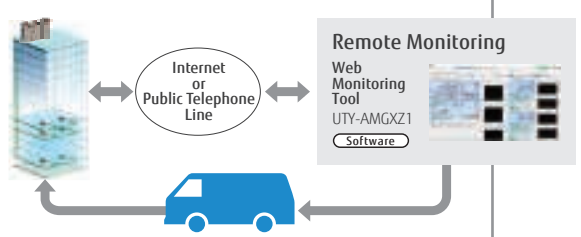
Flexible installation on each floor and installation of diverse indoor units are possible through the industry's top class high static pressure, long piping design and connection capacity.

82* Pa
*: V-III, 80Pa for VR-IV



Rapid service support

The air conditioning of the entire building can be monitored remotely with Web Monitoring Tool and System Controller. Rapid response for emergency is possible by a self-diagnosis in advance in cooperation with a management company.

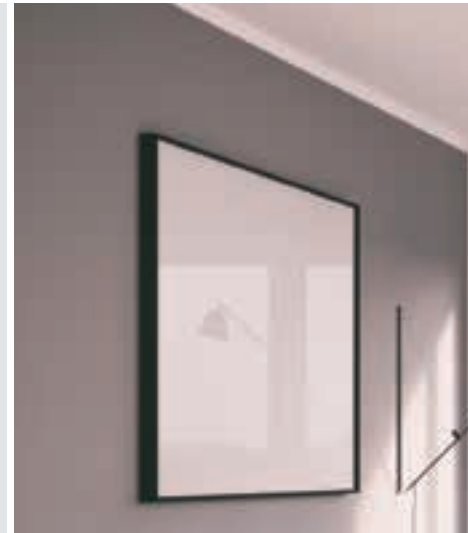




Residence

For Apartment & House

Fujitsu General provides the products that match spaces and the rhythm of life from living rooms where the whole family relaxes to small rooms such as bedrooms and children's rooms.



Various indoor units suitable for the characteristics of each room



For Living Room & Dining Room



Cool Beauty Design Models

What we aim is a well-designed air conditioner especially for Europe. Light-elegant and three-dimensional expression composed of curved surface is beautiful from anywhere



For Large Room

Standard & Comfort

Optimum for large spaces by basic functions and powerful & comfortable airflow control



For Master Bed Room or Living Room

Good Design & Silent Model

High performance and low noise model with an emphasis on its design



For Bed Room or Home Office

Standard & ECO Range Series

High performance and compact design model for compact spaces such as bed room or home office.



REFRIGERANT
R32



Outdoor units suitable for residential environments



R32 Multi-split type released

Models using the environmentally-friendly new refrigerant R32 were released. Many new Indoor units with improved visual design were added to the indoor unit lineup.



NEW

NEW

18/24 class

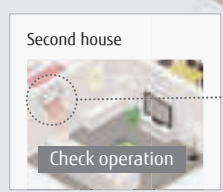
3-unit, 4-unit, 5-unit Multi-split

30/36 class



Operation from anywhere

With a single smartphone, you can check the operating status of not only your home air conditioner, but also the air conditioners in your second house and your parental home (up to 24 air conditioners).



+



By using our Wireless LAN Interface and FGLair app, you can control your home's cooling and heating anytime and anywhere.

Light Commercial & Commercial, Residential

VRF

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.

- V-002 AIRSTAGE™ J Series Overview
- V-004 AIRSTAGE™ V Series Overview
- V-006 VRF Outdoor Units Lineup
- V-008 Feature

VRF Outdoor Units



AIRSTAGE™ J Series Heat Pump for Small Capacity Type

- V-022 AIRSTAGE™ J-IVL
- V-028 AIRSTAGE™ J-IV
- V-032 AIRSTAGE™ J-IVS



AIRSTAGE™ V Series

Heat Pump Modular Type

- V-036 AIRSTAGE™ V-III Tropical

VRF INDOOR UNITS

- V-042 VRF Indoor Units Lineup
- V-044 VRF Indoor Units



AIRSTAGE™

VRF

Light Commercial &
Commercial,
Residential



FUJITSU GENERAL (Euro) GmbH participates
in the ECP program for VRF.
Check ongoing validity of certificate:
www.eurovent-certification.com

FUJITSU GENERAL LIMITED

VRF

AIRSTAGE™ J Series Overview

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





Maximum 18 HP Heat Pump

AIRSTAGE™ J-IVL

J-IVL is an outdoor unit with a slim design offering a high degree of freedom of installation that is recommended for mid-size office buildings and hotels. Furthermore, you can connect up to 42* indoor units with newly added 14/16/18 HP models. 14/16/18 HP models are also ideal for hospitals and educational facilities with many rooms.

*: 18 HP model

Slim Outdoor Unit

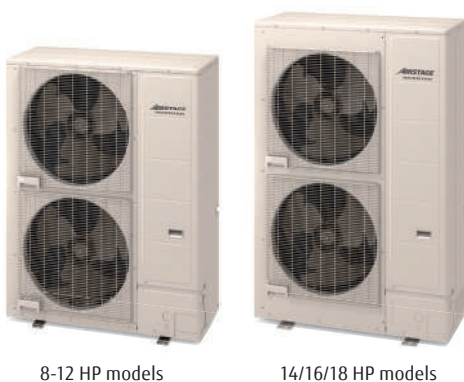
Although the new 14/16/18 HP models that can handle slightly larger capacity requirements, they have a slim depth of 480 mm. These models can be introduced and installed even in limited spaces.

Small room application

Up to 30-42 indoor units can be connected by the optimum heat exchanger structure. Available to various small rooms.

Top Class Low Operating Sound

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



8-12 HP models

14/16/18 HP models

Maximum 6 HP Heat Pump

AIRSTAGE™ J-IV

J-IV allows the condenser to connect up to 13 indoor units. This model is suitable for small buildings that bring together small stores.

High Energy Efficiency

Heat pump inverter control is used to achieve an efficient cooling or 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 flexible installations on the roofs or balconies of small and medium-size buildings. Multiple indoor units of various capacities and types can be connected.



Maximum 6 HP Heat Pump, Compact Design

AIRSTAGE™ J-IVS

J-IVS has a compact design with a height of 998 mm that does not obstruct visibility even when installed near waist-level windows. This model is also ideal for large houses, retail stores and other properties.

Space saving and low sound level design

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

Flexible systems for homes, shops, small-size buildings air conditioning

Due to compact size design and flexible piping design, J-IVS Series can be installed easily at a place where the installation space is limited such as homes, shops, and small offices. Multiple indoor units of various capacities and types can be connected.



AIRSTAGE™ V Series Overview

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





Maximum **54 HP** Heat Pump
AIRSTAGE™ V-III

outdoor
 temperature
 Up to **52°C**
 at Cooling

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

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



VRF Outdoor Units Lineup

Capacity (kW)		12.1	14.0	15.1-15.5	22.4	28.0	33.5	40.0	44.8-45	50.4-50	55.9-56	62.4	67.2-68	72.8-73
HP		4	5	6	8	10	12	14	16	18	20	22	24	26
J-IVL Series					 AJY072 LELBH	 AJY090 LELBH	 AJY108 LELBH	 AJY126 LELBH	 AJY144 LELBH	 AJY162 LELBH				
J-IV Series		 AJY040 LBLBH, AJY040 LELBH	 AJY045 LBLBH, AJY045 LELBH	 AJY054 LBLBH, AJY054 LELBH										
J-IVS Series		 AJY040 LCLBH	 AJY045 LCLBH	 AJY054 LCLBH										
V-III Tropical Series Heat Pump	Space Saving													
	Set Model				AJY072 LNTCH	AJY090 LNTCH	AJY108 LNTCH	AJY126 LNTCH	AJY144 LNTCH	AJY162 LNTCH	AJY180 LNTCH	AJY198 LNTCH	AJY216 LNTCH	AJY234 LNTCH
	Energy Efficiency													
	Set Model								AJY144 LNTCHH	AJY162 LNTCHH	AJY180 LNTCHH		AJY216 LNTCHH	AJY234 LNTCHH

78.3-78 28	84.8-85 30	89.4-90 32	95.9-95 34	100.5-100 36	107-106 38	113.5-113 40	120-118 42	125-123 44	130-128 46	135.0 48	140.0 50	145.0 52	150.0 54
 AJY252 LNTCH	 AJY270 LNTCH	 AJY288 LNTCH	 AJY306 LNTCH	 AJY324 LNTCH	 AJY342 LNTCH	 AJY360 LNTCH	 AJY378 LNTCH	 AJY396 LNTCH	 AJY414 LNTCH	 AJY432 LNTCH	 AJY450 LNTCH	 AJY468 LNTCH	 AJY486 LNTCH
 AJY252 LNTCHH	 AJY270 LNTCHH	 AJY288 LNTCHH	 AJY306 LNTCHH	 AJY324 LNTCHH	 AJY342 LNTCHH	 AJY360 LNTCHH	 AJY378 LNTCHH	 AJY396 LNTCHH	 AJY414 LNTCHH				

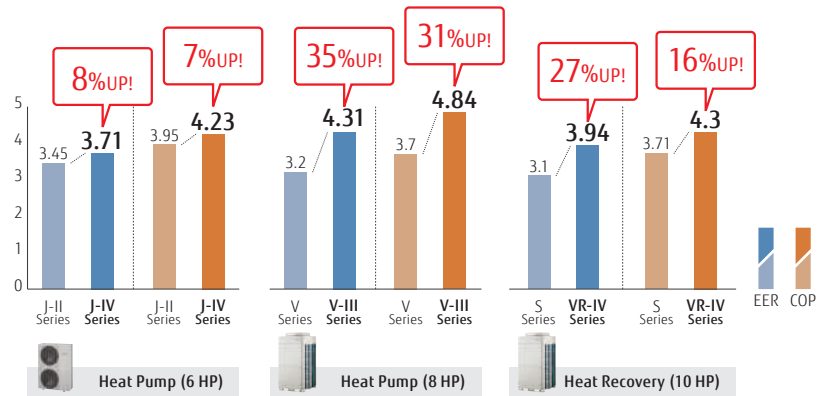
Feature

High Efficiency

Efficiency is improved significantly by using DC twin rotary compressor, inverter technology, and large heat exchanger



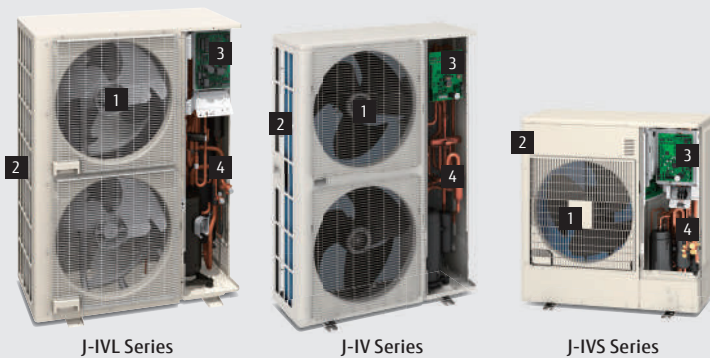
DC twin rotary compressor



* These specifications are determined by ducted combination.

ALL DC High efficiency design with top class SEER/SCOP

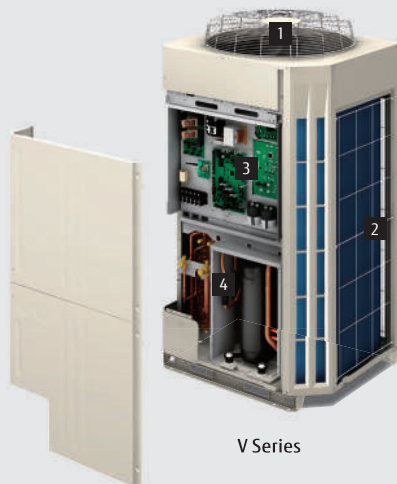
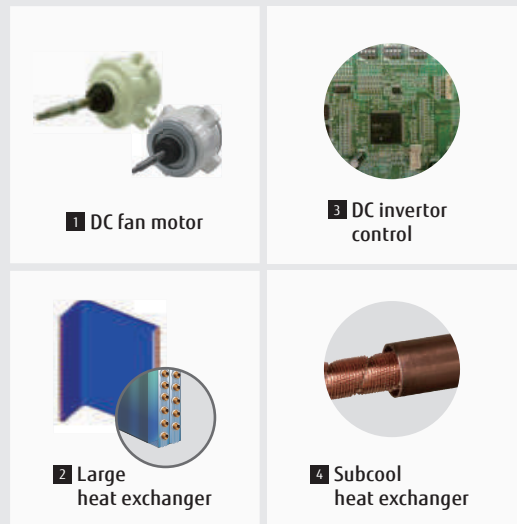
All VRF Series including J-IVL Series have DC technology to achieve high efficiency operation. This enhances the durability and reliability of VRF Series.



J-IVL Series

J-IV Series

J-IVS Series



V Series

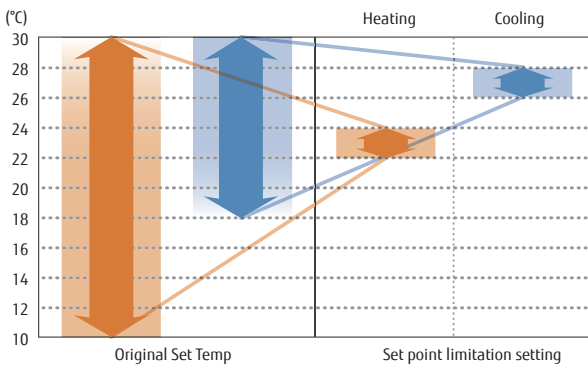


Operation Performance is Efficiently Controlled.



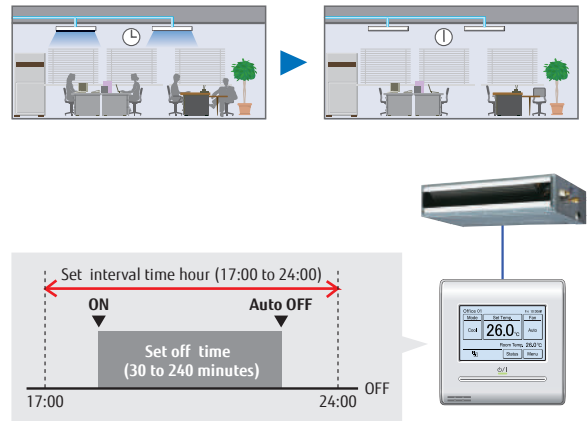
Room temperature set point limitation

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



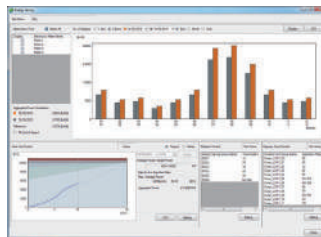
Auto-off timer

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

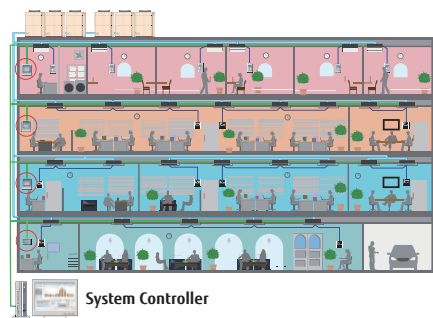


Energy saving management

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

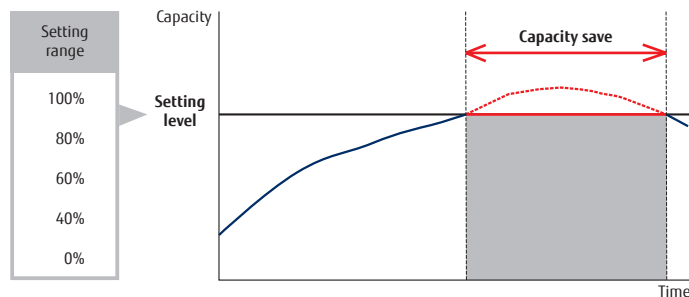


Screen image is Energy manager software (Option)



Capacity save operation

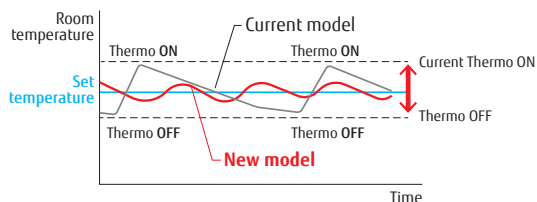
Operation capacity can be set in 5 steps for rated capability. The power consumption at peak is cut down and the maximum load is suppressed.





New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control. New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.

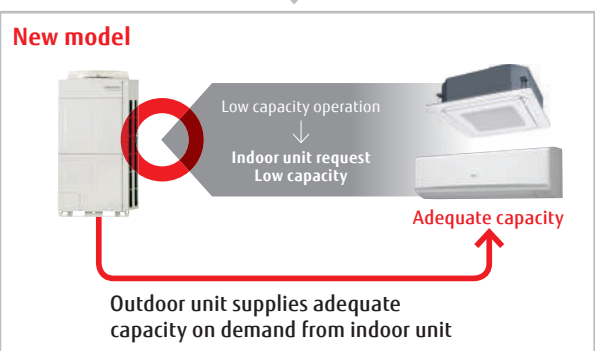
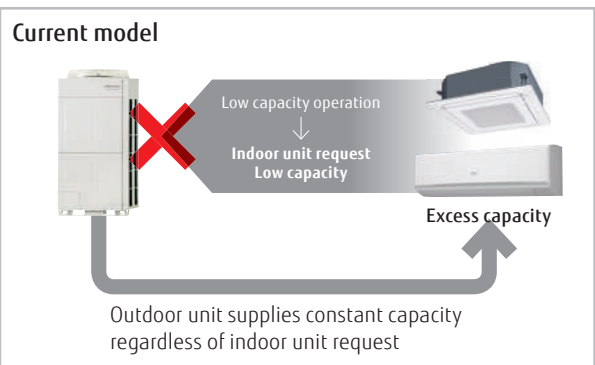


Current refrigerant control

Thermostat-ON/OFF occurs frequently.
 → The comfort is not good since room temperature often changes. Energy saving is not good since compressor is repeated starting and stopping frequently.

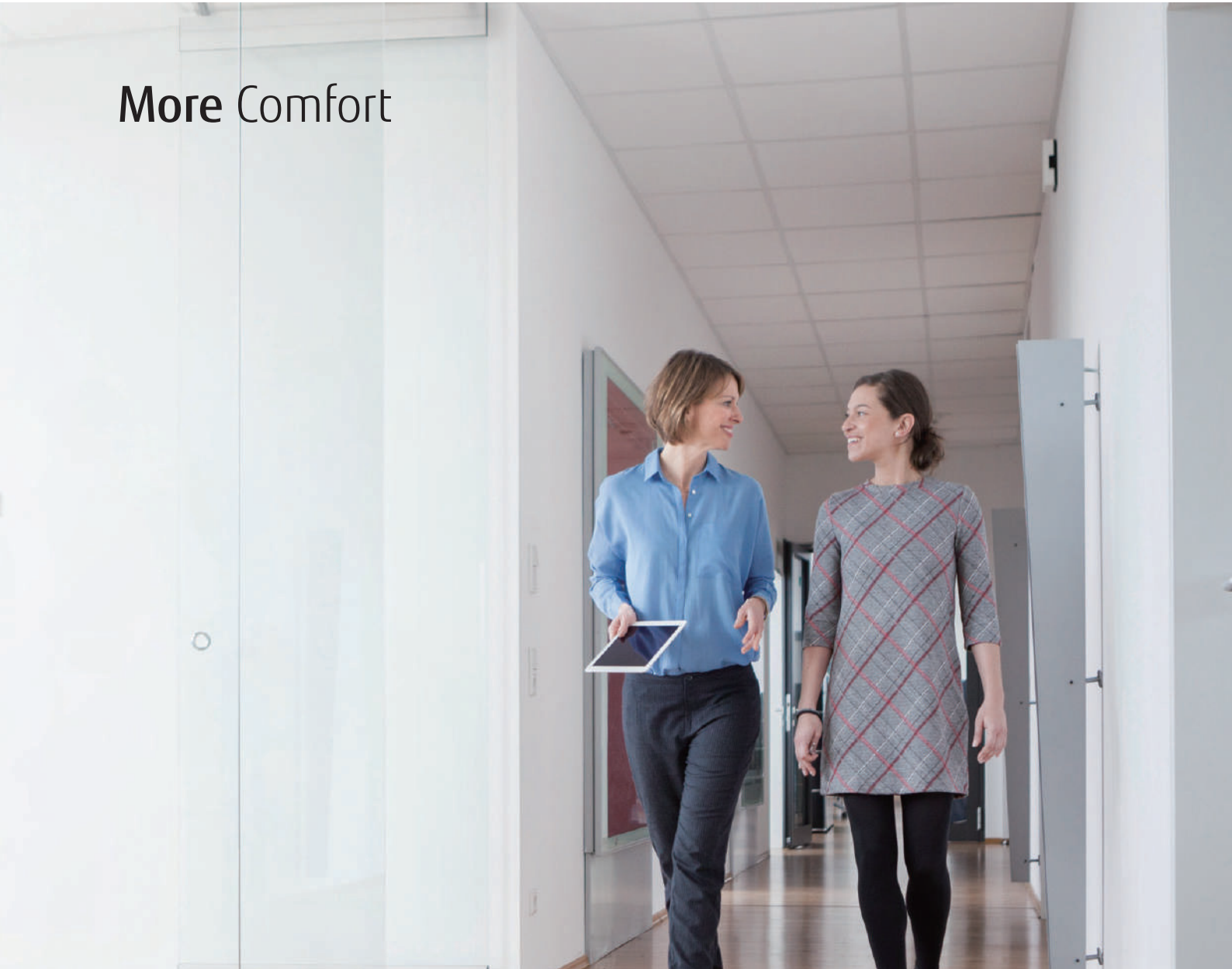
New refrigerant control

Room temperature keep target temperature since thermostat-ON/OFF occurs less than Current control. Energy saving is good since compressor continues operation for a longer time than Current control.



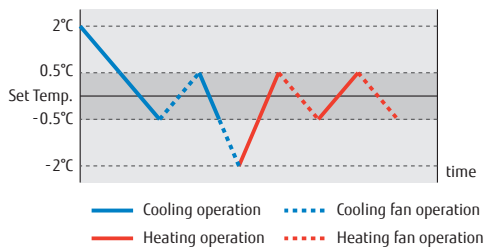
* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

More Comfort

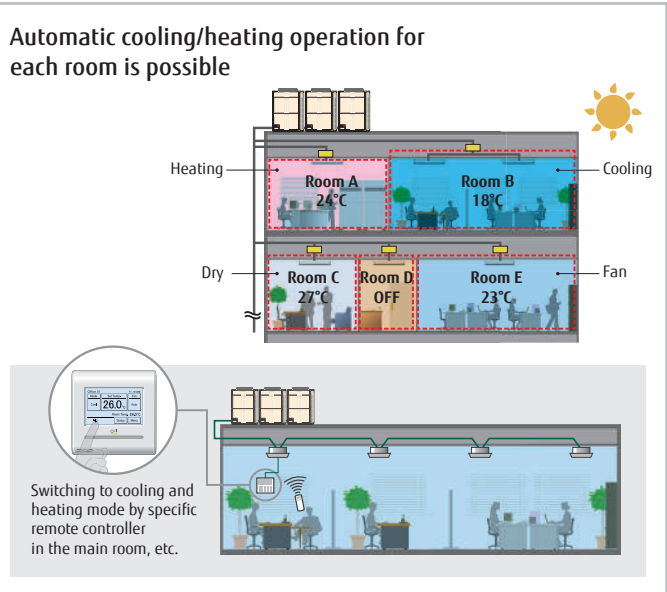


Auto changeover function

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

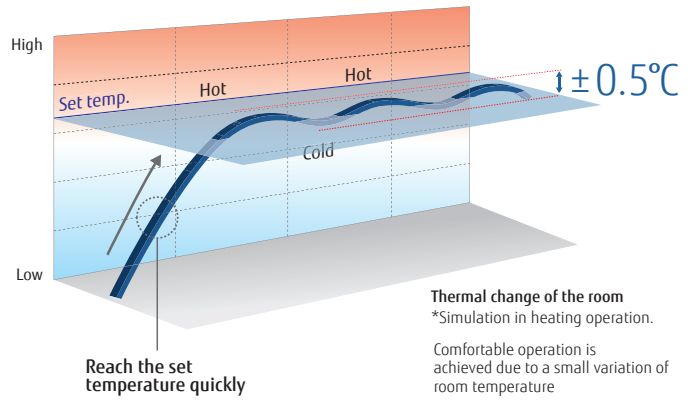


Auto changeover setting allows for the indoor unit to easily switch between cooling and heating regardless of the operation mode of other indoor units. This can be done via specific indoor unit with wired remote controller. This ensures comfortable operation all year round.



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

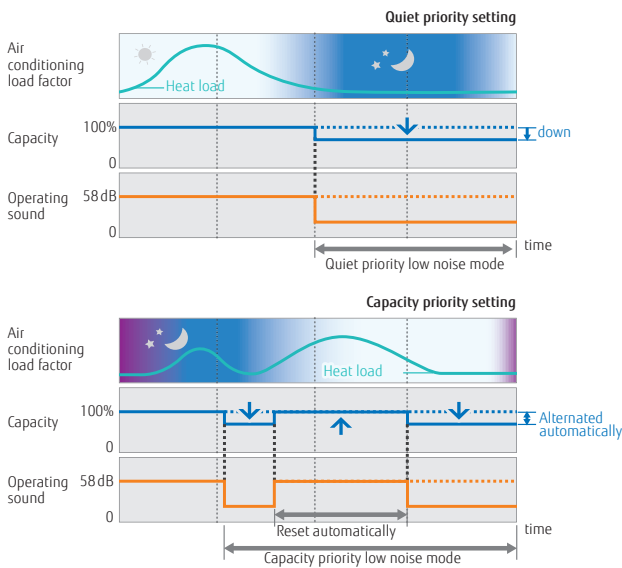


Quiet operation



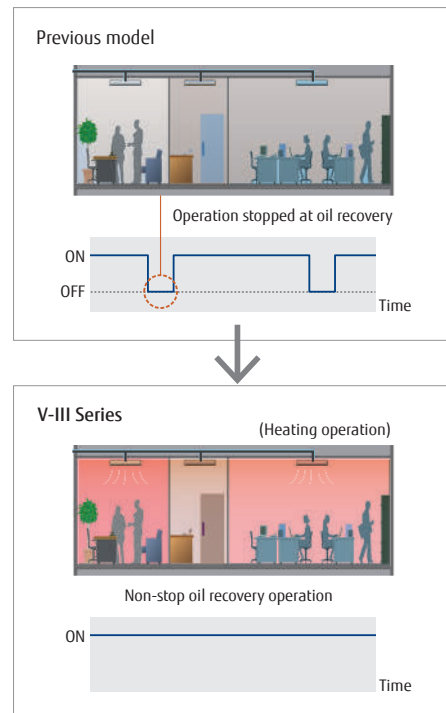
Quiet operation

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



Non-stop oil recovery operation

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



Low sound level design

Small capacity indoor units respond to the demands of several applications.

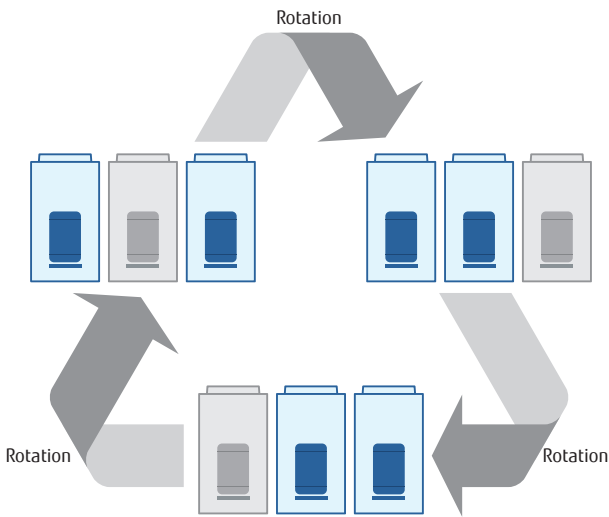
These models will be able to offer greater audibility comfort by operating at super low sound levels. Especially, Wall mounted (EEV external) type is 19dB(A) when low mode heating operation.



High Reliability

Outdoor unit rotational operation

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

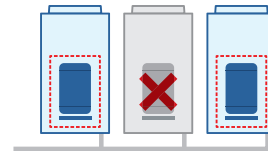


Note: Rotational operation is alternated by the start / stop timing of the compressor.

Backup operation

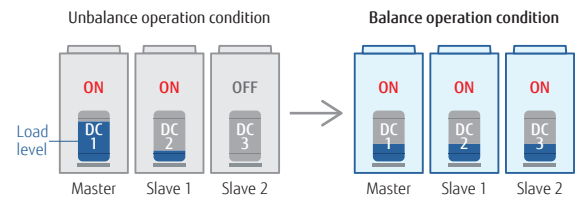
If one compressor fails, backup operation will be performed by the remaining compressors*.

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



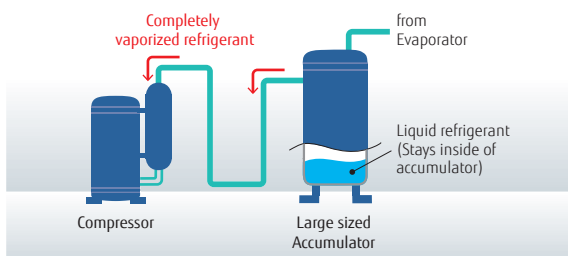
Advanced refrigerant control

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



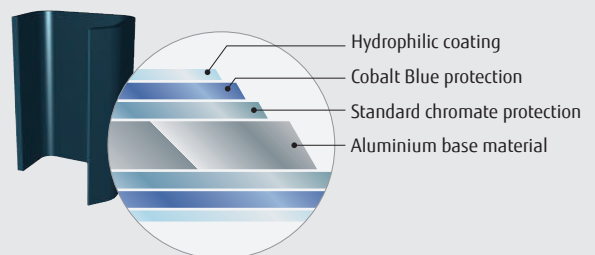
Liquid flow back protection

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



Adoption of blue fin heat exchanger

Corrosion resistant of the heat exchanger has been improved by the introduction of blue fin treatment to the outdoor unit's heat exchanger.





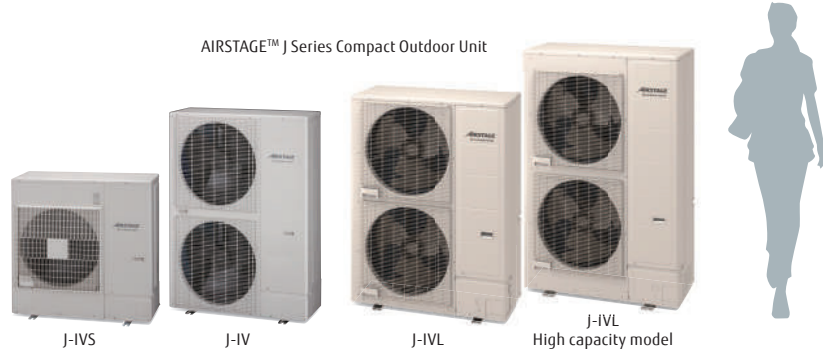
Design Flexibility



Top class Compact design



Compact outdoor unit can be achieved at the top class in the industry by optimal airflow structure design. (Up to 18 HP)

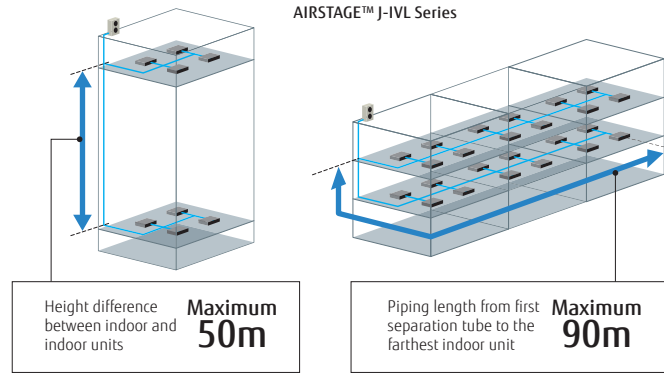


Long piping design



Piping design suitable for long, narrow office buildings with a difference in height and low-rise shops with high distance

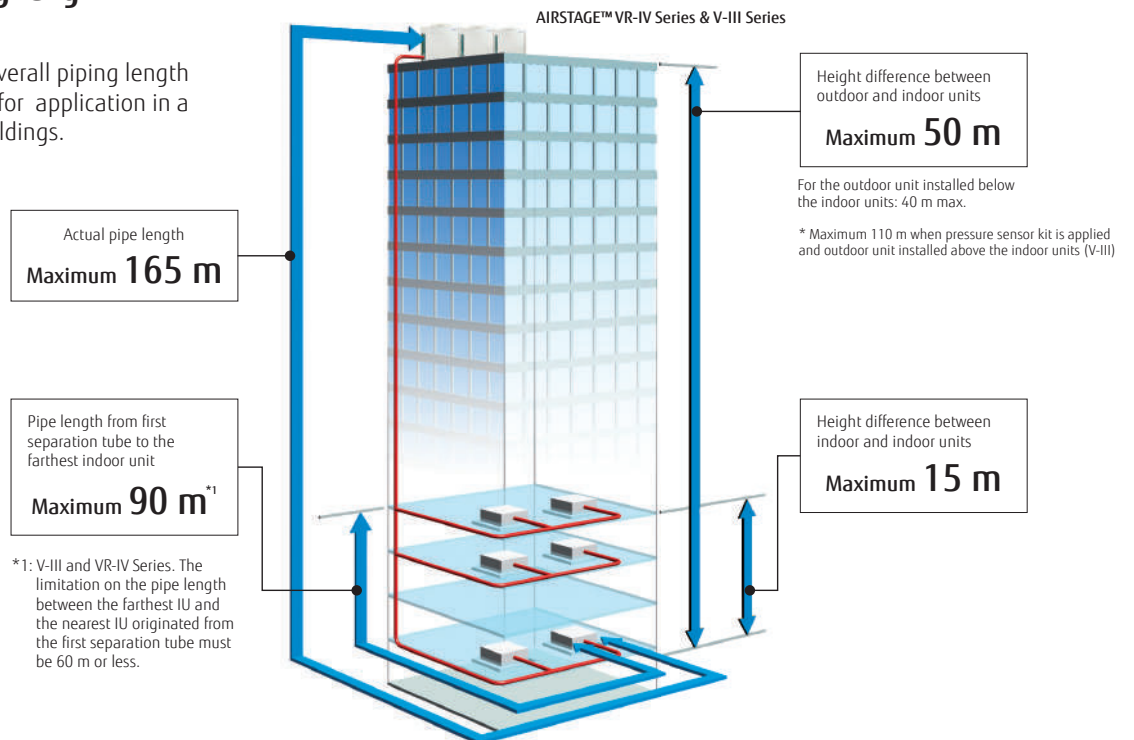
(AIRSTAGE™ J-IVL Series)



Overall piping length Max. 1,000 m



World's top class overall piping length of 1,000 m allows for application in a wide variety of buildings.



High capacity connection

Series		Connectable indoor unit capacity range	Connectable indoor unit number
	AIRSTAGE™ J-IVL Series 14/16/18 HP Heat Pump type	50% to 150%* ²	up to 42* ⁴
	AIRSTAGE™ J-IVL Series 8/10/12 HP Heat Pump type	50% to 150%* ²	up to 30* ⁵
	AIRSTAGE™ J-IV Series Heat Pump type	50% to 150%* ²	up to 14* ⁶
	AIRSTAGE™ J-IVS Series Heat Pump type	50% to 130%* ²	up to 13
	AIRSTAGE™ VR-IV Series Heat Recovery Modular type	25%* ⁷ to 150%* ²	up to 64
	AIRSTAGE™ V-III Series Heat Pump Modular type	50% to 150%* ³	up to 64
	AIRSTAGE™ V-III Tropical Series Heat Pump Modular type	50% to 130%* ²	up to 55

*2: Conditions of maximum connectable indoor unit capacity ratio is as the chart.
 *3: Max. capacities in the combinations including the 18 HP outdoor unit fall below 150%.
 *4: J-IVL Series 18 HP model only.
 *5: J-IVL Series 12 HP model only.
 *6: J-IV Series 6 HP model only.
 *7: For modular type, 25% to 49.9% operation in the entire system is available. (by one unit operation)



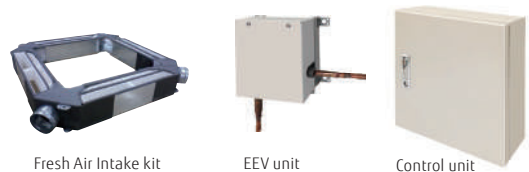
Designed for low refrigerant charge

Optimal design of indoor unit and outdoor unit reduces the refrigerant volume and special support is not required even when installing in a small room of about 15 m².



Various optional parts

- Intake fresh air with our Fresh Air Intake kit
- Comfortable temperature control with a remote sensor
- Operation by linking up to ventilation equipment and air handling unit with the DX-Kit



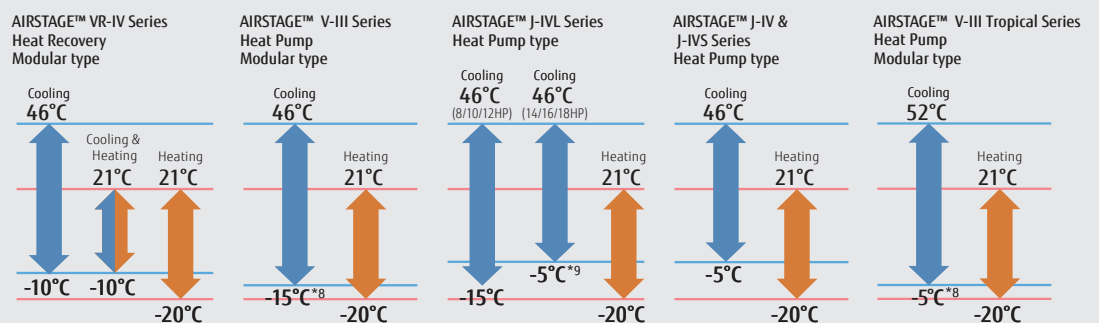
Low ambient operation

Refrigeration cycle technology allows cooling operation even at -15°C.



Wide operating range

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

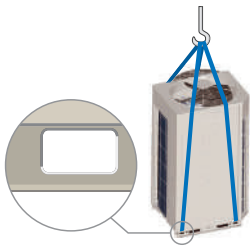


*8: Note: When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.

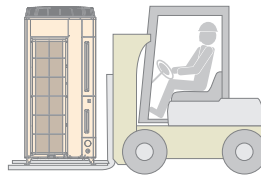
*9: Only when all indoor units are 5.6 kW or more in the system, the operating range is -15°C to 46°C.

Easy Installation

Easily transported



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



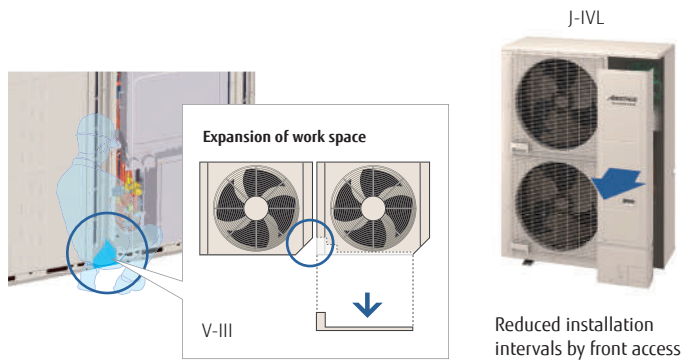
Transporting by forklift
Transport with forklift is possible.



Can be transported in a small lift

Easy access

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



Reduced installation intervals by front access

Flexible piping connection

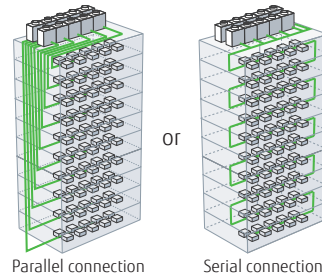
Piping and wiring are available to the front, left right and bottom.





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.

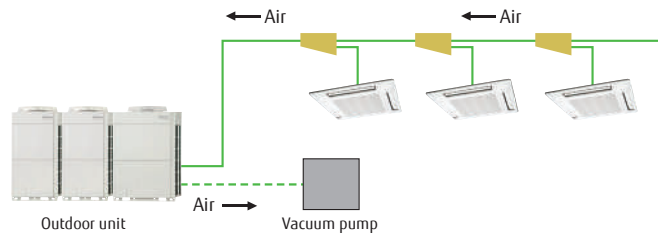


Up to maximum length
3,600 m

Note: Serial connection can't use the automatic address setting in a multiple refrigerant system.

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.

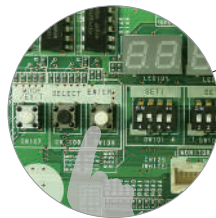


Automatic address setting

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

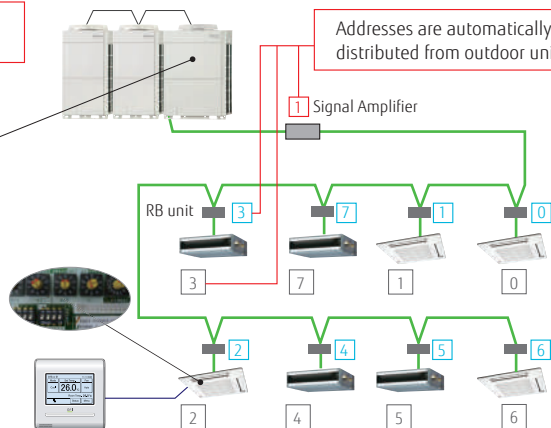
Automatic address setting is performed at outdoor unit

Addresses are automatically distributed from outdoor unit.



Press the push button of outdoor unit.

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



Easy commissioning by Service Tool

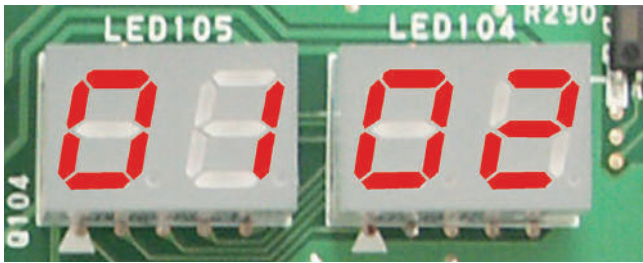
Service tools can be used to check the refrigerant temperature, pressure, and the operating status of the electronic expansion valve, making it easy to determine whether the units are connected properly.



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.

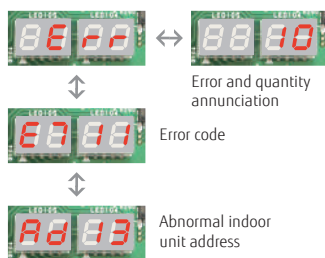


Easy to read 7-segment LED :

Confirm detailed operational and error status without using any specific equipment.

Error status can be checked easily by outdoor unit display

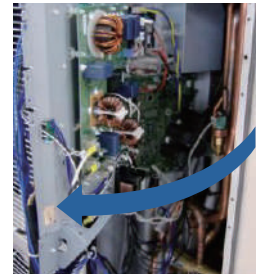
- Operation mode status
- Discharge temperature/Pressure status
- Compressor operation indication
- Address/type/number of outdoor unit



- Error status can be checked easily by outdoor unit display

Movable PCB panel

Easier for maintenance work behind the PCB





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

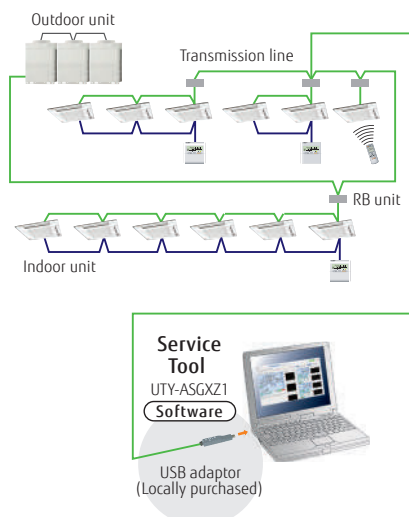
An error code is displayed on a liquid crystal screen.

Wired Remote Controller	Simple Remote Controller	Wired Remote Controller (Touch panel)																																													
<p>System number</p> <p>001: Controller 002: Indoor unit</p> <p>Error code</p> <p>Unit number</p>	<p>Remote controller address</p> <p>Error code</p>	<p>Error status / Error history</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Time</th> <th>Address</th> <th>Code</th> </tr> </thead> <tbody> <tr><td>1</td><td>2012/11</td><td>11:00:00</td><td>002-02</td><td>040</td></tr> <tr><td>2</td><td>2012/7/30</td><td>2:03:00</td><td>002-02</td><td>040</td></tr> <tr><td>3</td><td>2012/2/28</td><td>18:52:00</td><td>002-02</td><td>040</td></tr> <tr><td>4</td><td>2012/7/20</td><td>11:00:00</td><td>002-02</td><td>040</td></tr> <tr><td>5</td><td>2012/7/20</td><td>11:00:00</td><td>002-02</td><td>040</td></tr> <tr><td>6</td><td>2012/7/20</td><td>11:00:00</td><td>002-02</td><td>040</td></tr> <tr><td>7</td><td>2012/7/20</td><td>11:00:00</td><td>002-02</td><td>040</td></tr> <tr><td>8</td><td>2012/7/20</td><td>11:00:00</td><td>002-02</td><td>040</td></tr> </tbody> </table> <p>Back Next Page Erase All</p>	No.	Date	Time	Address	Code	1	2012/11	11:00:00	002-02	040	2	2012/7/30	2:03:00	002-02	040	3	2012/2/28	18:52:00	002-02	040	4	2012/7/20	11:00:00	002-02	040	5	2012/7/20	11:00:00	002-02	040	6	2012/7/20	11:00:00	002-02	040	7	2012/7/20	11:00:00	002-02	040	8	2012/7/20	11:00:00	002-02	040
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8	2012/7/20	11:00:00	002-02	040																																											

Error diagnosis by Service Tool

Connection to Service Tool

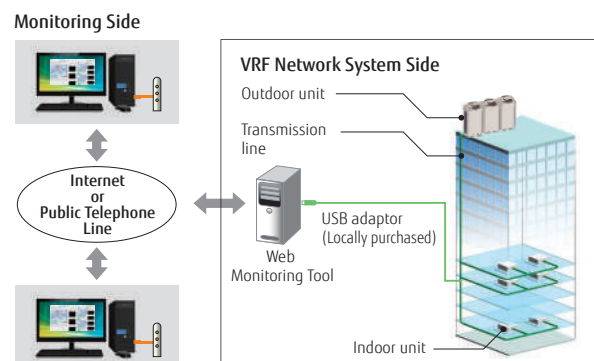
- Detail operation status and recent error history can be checked and analyzed by using the Service Tool.
- Last 5 min. operation memory can also be recorded.



Remote monitoring

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

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



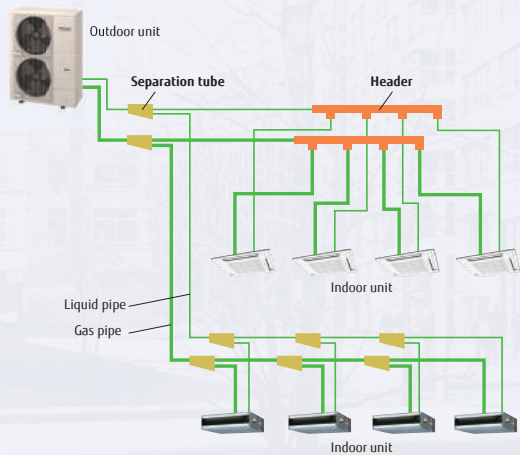
Heat Pump

for Small Capacity Type

AIRSTAGE™ J-IVL

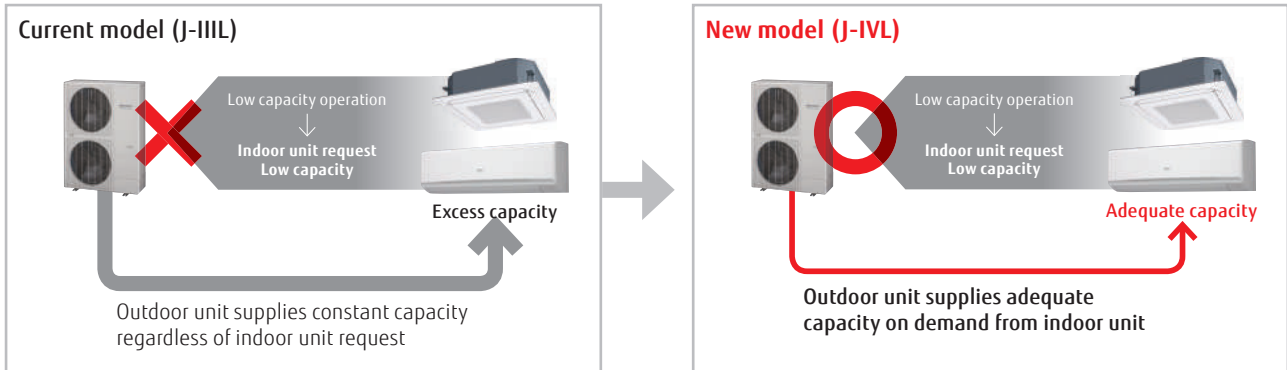
System configuration example

- 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.



New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control. New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.



* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

External static pressure

External static pressure is available up to 60Pa for 14/16/18HP. (30Pa for 8/10HP, 40Pa for 12HP)

* Capacities are slightly decreased for rated values during high static pressure operation.



Advanced high efficiency technology

Ø570 mm Large propeller fan
The high efficiency and the low sound operation are mutually realized by reduction of a draft loss which are enabled by the Fujitsu General's original blade design and a large diameter propeller fan.

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

Large heat exchanger
Heat exchange performance is substantially improved by mounting of 2.6-row large heat exchanger.

DC inverter control
Efficiency is improved by mounting of new active filter module.

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

Scroll compressor
The equipment of scroll compressor with a wide range of rotational frequency from 15 to 130 rps together with Fujitsu General's unique sensorless sine wave control method which smoothly control the input power run into the motor realized a mutual improvement on the energy efficient operation and the low sound operation.

15-130 rps

Pressure
effect
Cooling performance improved
Enthalpy



Fujitsu General provides perfect total air conditioning systems that take into account energy saving, low noise, comfortable airflow, small room application and centralized control for small-sized office buildings with many small rooms.

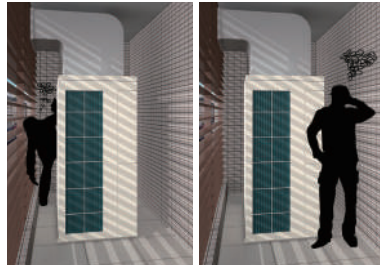
AIRSTAGE™ J-IVL

Image: 8/10/12 HP models

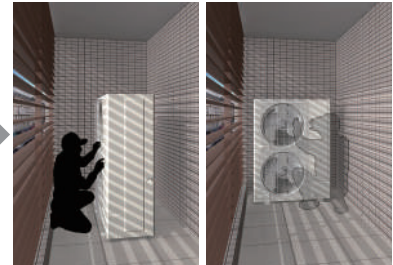
Slim & Compact Design



Various Installation



AIRSTAGE™ V Series outdoor unit



AIRSTAGE™ J Series outdoor unit

In house installation

Low noise in consideration for the nearby residents

This model is front air discharge type and about 1000 mm wide, so flexible installation is possible even at narrow in house space.



AIRSTAGE™ V Series outdoor unit



AIRSTAGE™ J Series outdoor unit

Narrow space behind building

Space saving

Due to compact and thin model, direct ground installation or wall mounted installation is possible even at narrow off-street.



AIRSTAGE™ V Series outdoor unit



AIRSTAGE™ J Series outdoor unit

Installation at back street of building

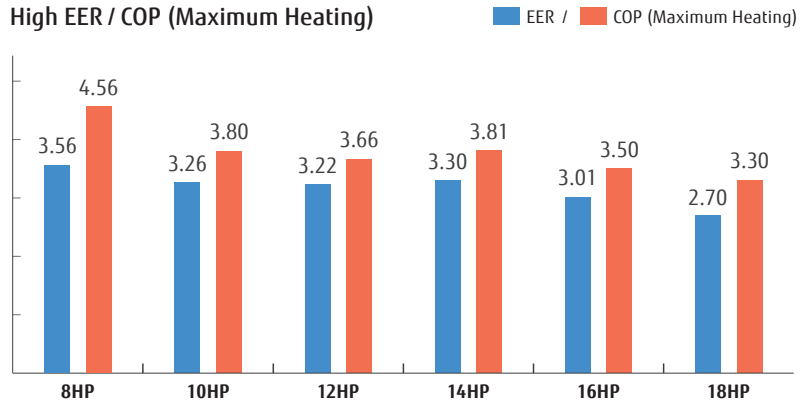
Flexible installation

This model is front air discharge type and slim & low body, so installation space is compact. Building windows are not blocked and space saving multiple units installation is possible.

Efficiency in actual operation

Top class high EER/COP(Max. Heating) is achieved for all models by large heat exchanger, high efficient Scroll compressor, and our own technologies.

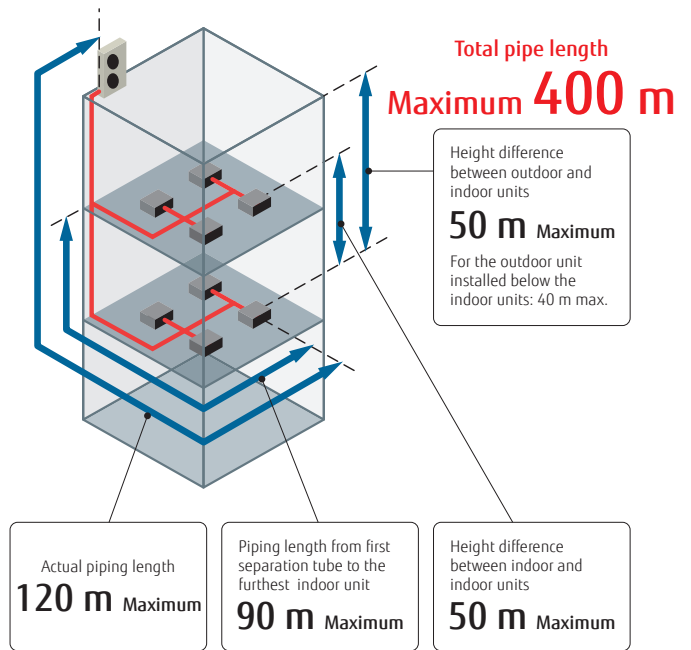
High EER / COP (Maximum Heating)



* These specifications are determined by cassette combination.

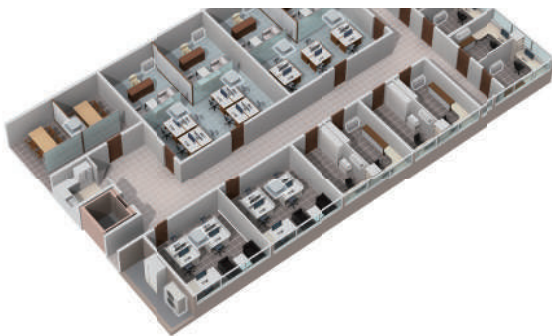
Long piping length

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



Up to 42 indoor units* can be connected

The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 42 units. *: 18 HP model



Top Class Low Operating Sound

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

Sound Power Level

66 dB(A)



J-IVL (8HP)

77 dB(A)

-11 dB(A)



Current model (8HP)

8,10,12 HP: AJY072LELBH / AJY090LELBH / AJY108LELBH
 14,16,18 HP: AJY126LELBH / AJY144LELBH / AJY162LELBH



Specifications

Rating Capacity range		HP	8	10	12	14	16	18
Model name			AJY072LELBH	AJY090LELBH	AJY108LELBH	AJY126LELBH	AJY144LELBH	AJY162LELBH
Maximum Connectable Indoor Unit			1-20	1-25	1-30	1-36	1-40	1-42
Power source			3 phase, ~400V, 50Hz					
Capacity	Cooling	BTU/h	76,400	95,500	114,000	136,000	154,000	171,000
	Nominal Heating		76,400	95,500	114,000	136,000	154,000	171,000
	Max. Heating		85,300	107,000	127,000	153,000	170,600	187,000
Input power	Cooling	kW	6.30	8.59	10.42	12.12	14.96	18.52
	Nominal Heating		4.65	6.61	8.18	9.71	11.81	13.66
	Max. Heating		5.45	8.29	10.25	11.80	14.29	16.66
EER	Cooling		3.56	3.26	3.22	3.30	3.01	2.70
COP	Nominal Heating	W/W	4.82	4.24	4.10	4.12	3.81	3.66
	Max. Heating		4.56	3.80	3.66	3.81	3.50	3.30
Airflow rate		m ³ /h	8,400	9,000	11,000	13,000	14,000	14,800/15,300
Sound pressure level / Power level	Cooling	dB(A)	52/66	54/69	59/73	62/75	64/77	65/79
	Heating		54/—	57/—	61/—	63/—	65/—	65/68
Net Dimensions	Height	mm	1,428	1,428	1,428	1,638	1,638	1,638
	Width		1,080	1,080	1,080	1,080	1,080	1,080
	Depth		480	480	480	480	480	480
Weight		kg	170	177	178	213	213	217
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO ₂ eq-T)	7.0 (14.6)	7.5 (15.7)	7.5 (15.7)	11.0 (22.9)	11.0 (22.9)	11.8 (24.6)
Connection pipe diameter	Liquid	mm	9.52	9.52	12.70	12.70	12.70	12.70
	Gas		19.05	22.20	28.58	28.58	28.58	28.58
Total pipe length		m	400	400	400	400	400	400
Max. height difference			50/40 (Outdoor unit: Upper/Lower)					
Operating Range	Cooling	°C	-15 to 46	-15 to 46	-15 to 46	-5 to 46*	-5 to 46*	-5 to 46*
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note: Specifications are based on the following conditions.

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

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

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

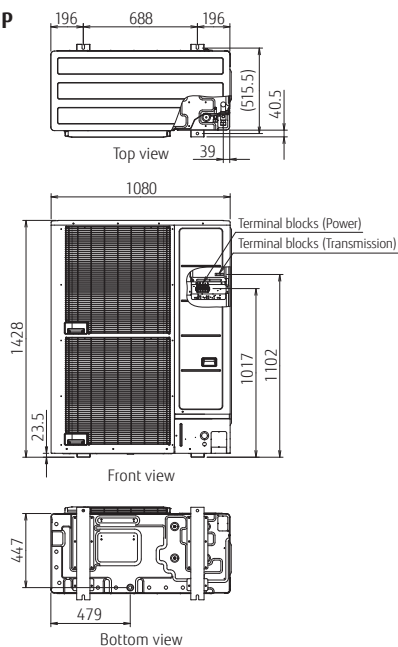
* The cooling operating range of -15 to 46°C is allowed only when all of the indoor units connected to the system are higher than capacity of 5.6kW.

* These specifications are determined by cassette combination.

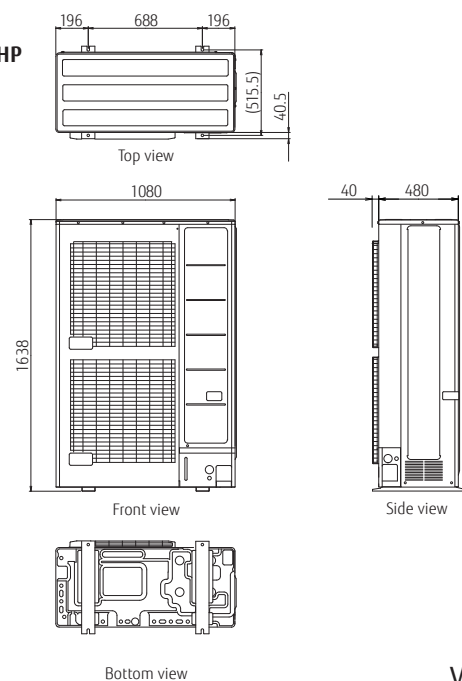
Dimensions

(Unit : mm)

8, 10, 12 HP



14, 16, 18 HP



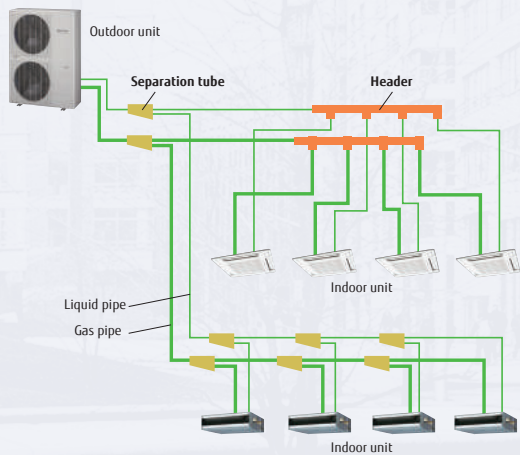
Heat Pump

for Small Capacity Type

AIRSTAGE™ J-IV

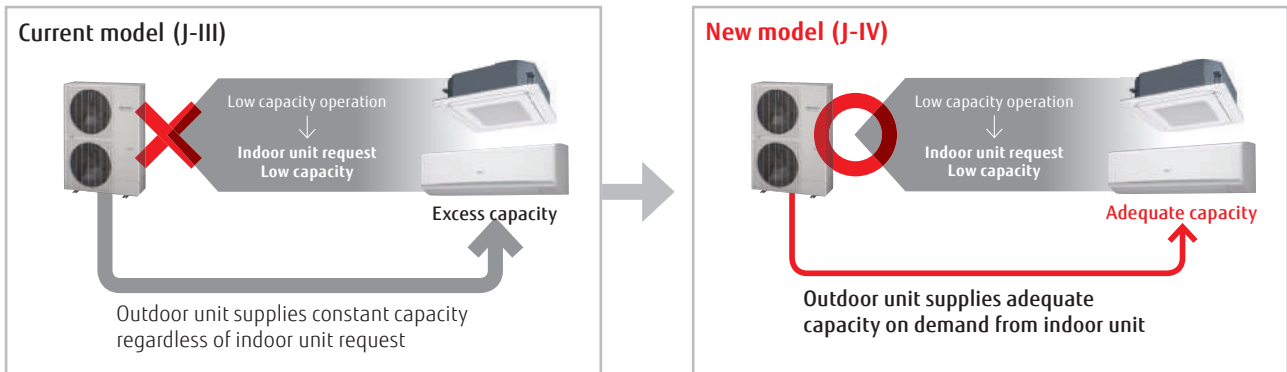
System configuration example

- 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.



New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control. New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.



* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

External static pressure

External static pressure is available up to 30Pa for 4/5/6HP.



Advanced high efficiency technology

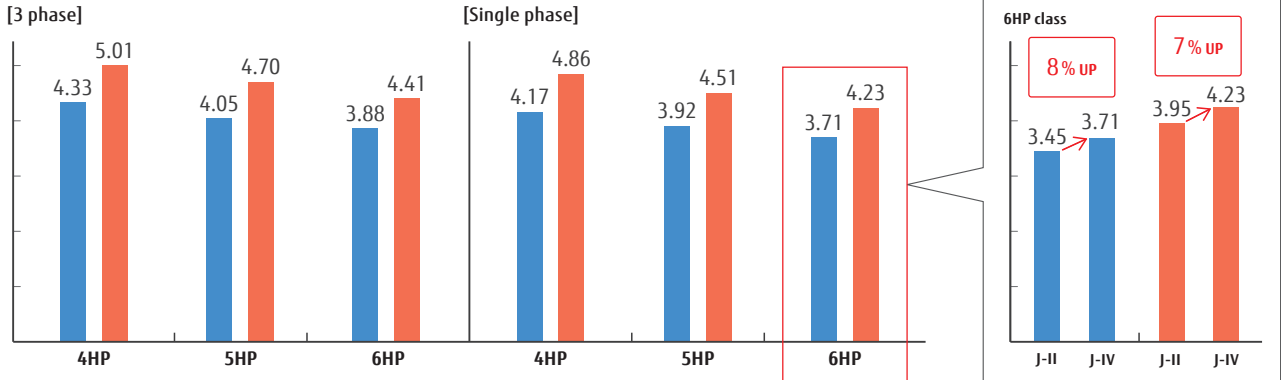
- Large propeller fan**
High performance and low noise realized by large propeller and optimization of angle.
- DC fan motor**
Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.
- Large heat exchanger**
Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.
- DC inverter control**
Efficiency is improved by mounting of new active filter module.
- Subcool heat exchanger**
Cooling performance is improved by mounting of dual tube heat exchanger.
- DC twin rotary compressor**
Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.
- High efficiency compressor motor**
- Optimized refrigerant flow design**
- Highly accurate parts**

Pressure-Enthalpy Graphs:
 - The Subcool heat exchanger graph shows that the refrigerant subcools more, leading to improved cooling performance.
 - The DC Twin Rotary compressor graph shows high compressor efficiency across a wide range of compressor capacities.

Efficiency in actual operation

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

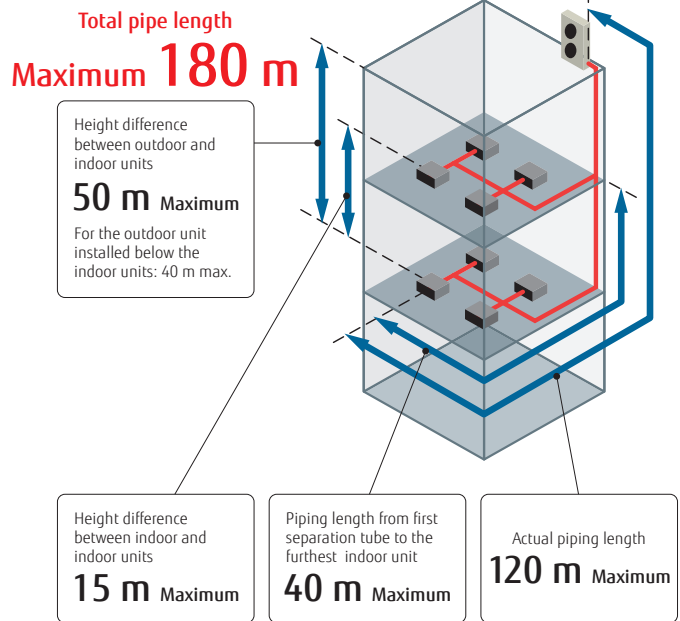
High EER / COP (Maximum Heating)



* These specifications are determined by cassette combination.

Long piping length

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.



Up to 14 units* can be connected

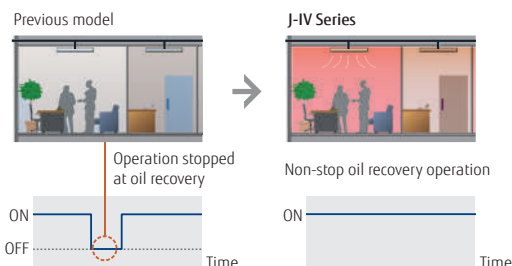
Up to 14 units* can be connected. The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 14 units.

*: 6 HP model

Model	Current model (J-III)			New model (J-IV)		
	4	5	6	4	5	6
Rating Capacity range (HP)	4	5	6	4	5	6
Max. Connectable indoor unit	1-9	1-10	1-13	1-11	1-12	1-14

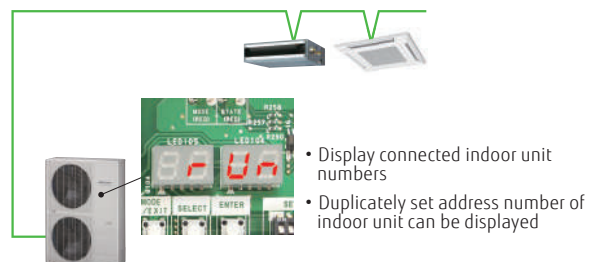
Non-stop oil recovery operation

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.



**4,5,6HP : AJY040LBLEBH / AJY045LBLEBH / AJY054LBLEBH
AJY040LELBH [3 phase] / AJY045LELBH [3 phase] / AJY054LELBH [3 phase]**



Specifications

Rating Capacity range		HP	4	5	6	4	5	6
Model name			AJY040LBLEBH	AJY045LBLEBH	AJY054LBLEBH	AJY040LELBH	AJY045LELBH	AJY054LELBH
Maximum Connectable Indoor Unit			1-11	1-12	1-14	1-11	1-12	1-14
Power source			Single phase, ~230V, 50Hz			3 phase, ~400V, 50Hz		
Capacity	Cooling	BTU/h	41,200	47,800	52,000	41,200	47,800	52,000
	Heating		46,400	54,500	61,400	46,400	54,500	61,400
Input power	Cooling	kW	2.90	3.57	4.18	2.79	3.46	3.99
	Nominal Heating		2.39	2.97	3.50	2.32	2.86	3.36
	Max. Heating		2.80	3.55	4.26	2.71	3.40	4.08
EER	Cooling		4.17	3.92	3.71	4.33	4.05	3.88
COP	Nominal Heating	W/W	5.06	4.71	4.43	5.21	4.90	4.61
	Max. Heating		4.86	4.51	4.23	5.01	4.70	4.41
Airflow rate		m ³ /h	6,200	6,400	6,900	6,200	6,400	6,900
Sound pressure level / Power level	Cooling	dB(A)	50 / 65	51 / 65	53 / 66	50 / 65	51 / 65	53 / 66
	Heating		52 / 68	53 / 69	55 / 71	52 / 68	53 / 69	55 / 71
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,334	1,334	1,334	1,334	1,334	1,334
	Width		970	970	970	970	970	970
	Depth		370	370	370	370	370	370
Weight		kg	117	117	119	118	119	119
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO ₂ eq-T)	4.8 (10.0)	5.3 (11.1)	5.3 (11.1)	4.8 (10.0)	5.3 (11.1)	5.3 (11.1)
Connection 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
Total pipe length		m	180	180	180	180	180	180
Max. height difference			50/40 (Outdoor unit: Upper/Lower)			50/40 (Outdoor unit: Upper/Lower)		
Operating Range	Cooling	°C	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

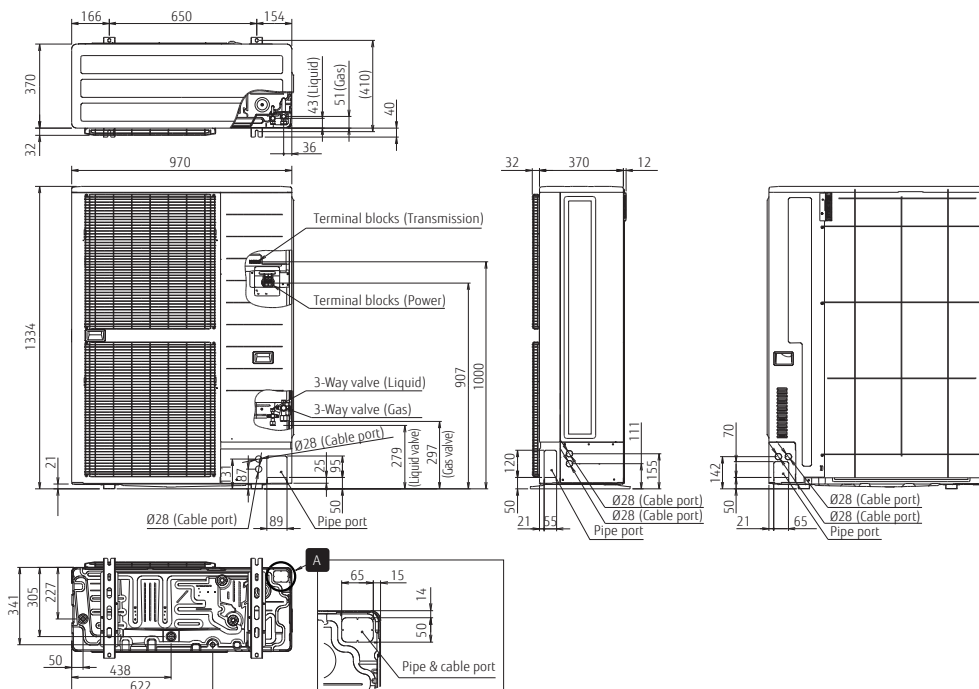
Note: Specifications are based on the following conditions.

Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
Heating: Indoor temperature of 20°CDB/(15°CWB), and outdoor temperature of 7°CDB/6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.
The protective function may work when using it outside the operating range.

* These specifications are determined by cassette combination.

Dimensions

(Unit : mm)



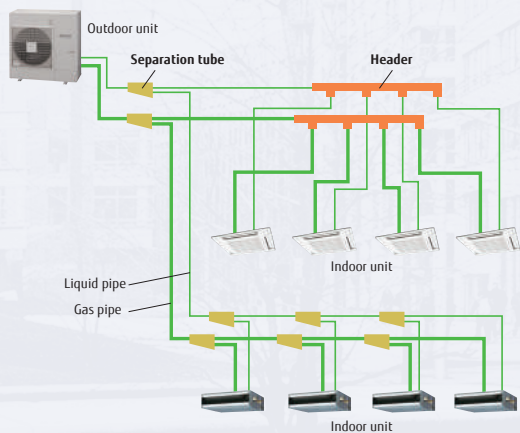
Heat Pump

for Small Capacity Type

AIRSTAGE™ J-IVS

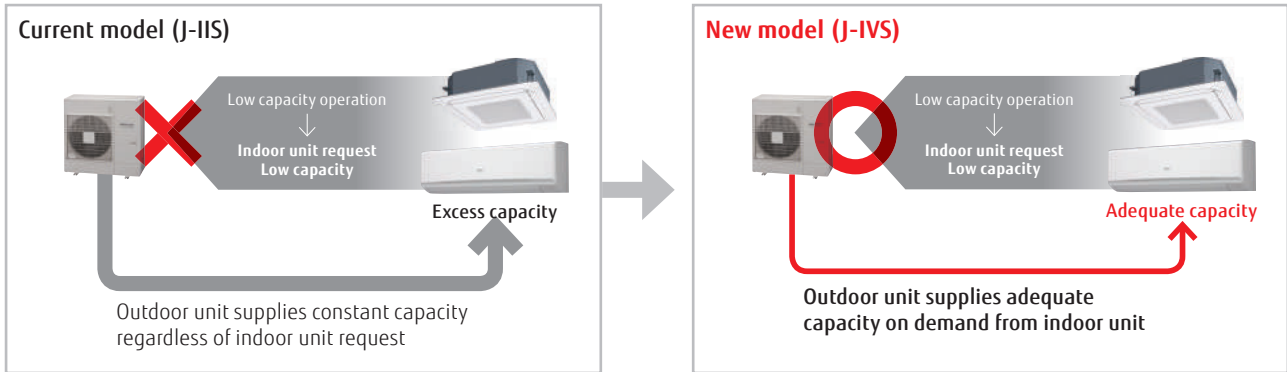
System configuration example

- 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.



New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control. New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.



* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

External static pressure

External static pressure is available up to 25Pa for 4/5/6HP.



Advanced high efficiency technology

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

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

DC inverter control
Efficiency is improved by mounting of new active filter module.

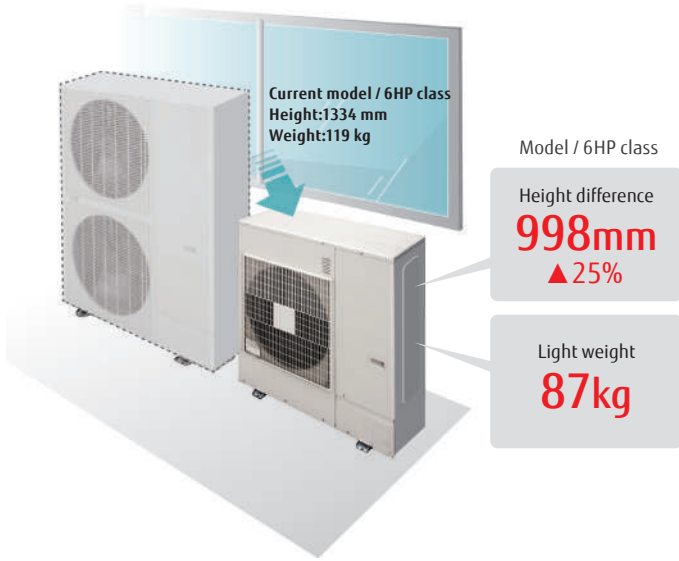
Large heat exchanger
Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.

Smooth airflow grille
This grille was aerodynamically designed for good efficiency with little blow loss.

Compact and high performance DC twin rotary compressor
Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.

High heat transfer copper tube (Improved lead angle)

It Can be Easily Carried and Installed



Small and light weight outdoor unit

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

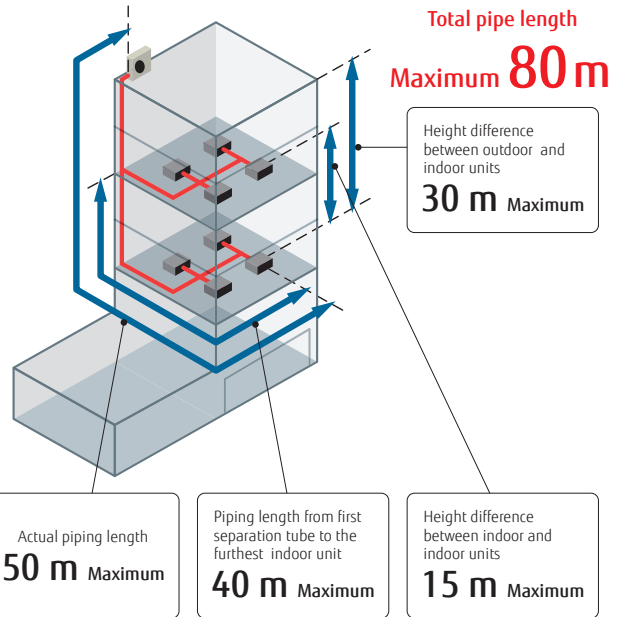


Low sound level design

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

Long piping length

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



Up to 13 units* can be connected

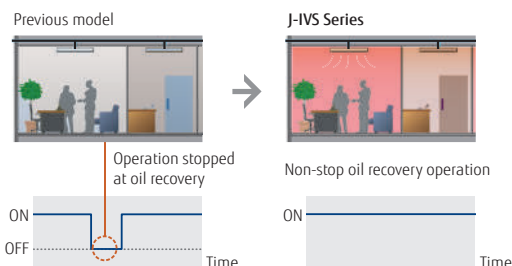
The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 13 units.

*: 6 HP model

Model	Current model (J-IIS)			New model (J-IVS)		
	4	5	6	4	5	6
Rating Capacity range (HP)	4	5	6	4	5	6
Max. Connectable indoor unit	1-7	1-8	1-8	1-11	1-12	1-13

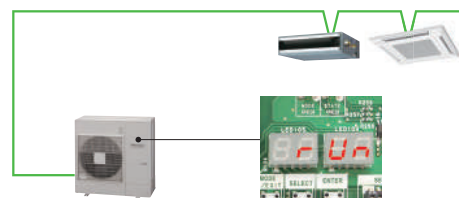
Non-stop oil recovery operation

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



Easier Installation

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



- Display connected indoor unit numbers
- Duplicately set address number of indoor unit can be displayed



Specifications

Rating Capacity range		HP	4	5	6
Model name			AJY040LCLBH	AJY045LCLBH	AJY054LCLBH
Maximum Connectable Indoor Unit			7	8	8
Power source			Single phase, ~230V, 50Hz		
Capacity	Cooling	BTU/h	41,200	47,800	51,500
	Heating		46,400	54,500	56,200
Input power	Cooling	kW	3.44	4.43	5.03
	Nominal Heating		2.55	3.11	3.52
	Max. Heating		3.09	3.93	4.11
EER	Cooling	W/W	3.52	3.16	3.00
COP	Nominal Heating		4.74	4.51	4.30
	Max. Heating		4.40	4.07	4.01
Airflow rate		m ³ /h	4,040	4,200	4,200
Sound pressure level / Power level	Cooling	dB(A)	51 / 67	53 / 69	54 / 70
	Heating		54 / 68	55 / 69	56 / 70
Heat exchanger fin			Blue fin		
Net Dimensions	Height	mm	998	998	998
	Width		970	970	970
	Depth		370	370	370
Weight		kg	86	86	87
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO ₂ eq-T)	4.0 (8.4)	4.0 (8.4)	4.0 (8.4)
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52
	Gas		15.88	15.88	15.88
Total pipe length		m	80	80	80
Max. height difference			30	30	30
Operating Range	Cooling	°C	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21

Note : Specifications are based on the following conditions.

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

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

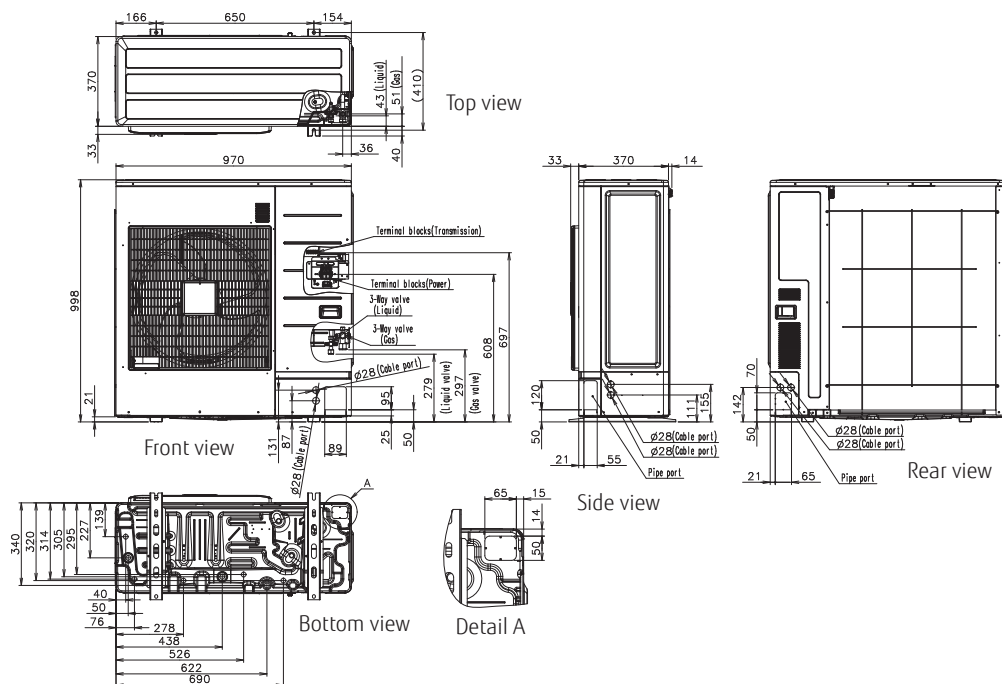
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

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

* These specifications are determined by cassette combination.

Dimensions

(Unit : mm)



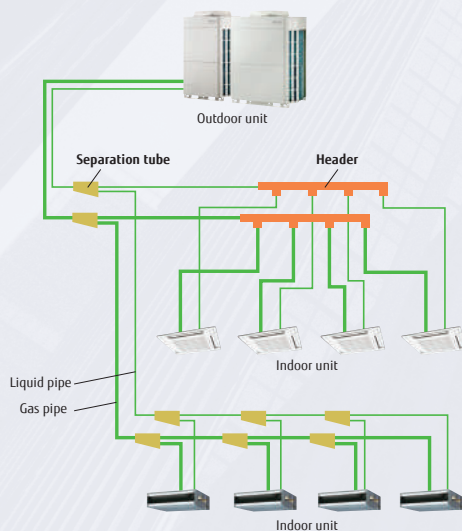
Heat Pump

Modular Type

AIRSTAGE™ V-III **TROPICAL SPEC**

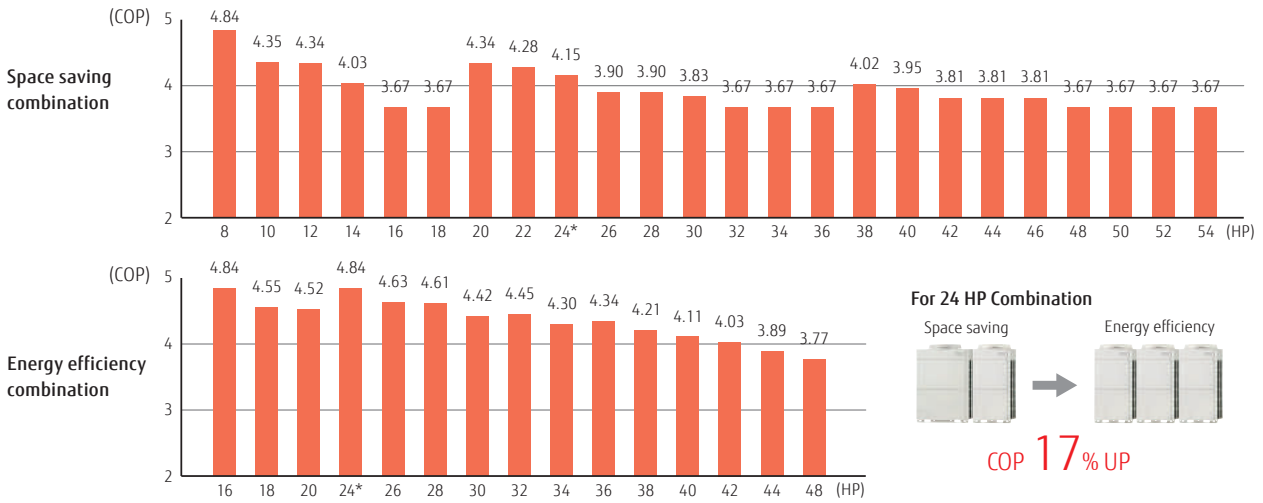
System configuration example

- 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.



Efficiency in actual operation

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



* These specifications are determined by ducted combination.

Heavy anti-corrosion treatment design

Anti-corrosion coated casing parts

Satisfied the JRA* heavy anti-corrosion regulation(4002)

*JRA: Japan Refrigeration Association

PCB and Electronic components

High ambient temperature compatible electric components. Added silicon coating on all PCB circuits for anti-corrosion.

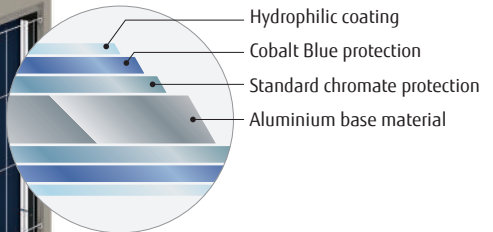


High ambient & corrosion compatible

PCB components
Refrigerant cycle component



Blue fin heat exchanger



All screws and hinges

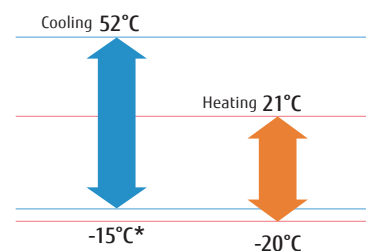
Added zinc chrome acid film treatment.



High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature by adopting DC fan motor, large propeller fan and large heat exchanger.

Cooling operation
up to 52°C
ambient


















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

Outdoor units lineup • Combinations other than the followings are not recommended.

Space saving Combinations





<p>22.4kW (8HP)</p>  <p>AJY072LNTCH UNIT : AJY072LNTCH</p>	<p>28.0kW (10HP)</p>  <p>AJY090LNTCH UNIT : AJY090LNTCH</p>	<p>33.5kW (12HP)</p>  <p>AJY108LNTCH UNIT : AJY108LNTCH</p>	<p>40.0kW (14HP)</p>  <p>AJY126LNTCH UNIT : AJY126LNTCH</p>	<p>45.0kW (16HP)</p>  <p>AJY144LNTCH UNIT : AJY144LNTCH</p>
<p>50.0kW (18HP)</p>  <p>AJY162LNTCH UNIT : AJY162LNTCH</p>	<p>56.0kW (20HP)</p>  <p>AJY180LNTCH UNIT : AJY090/090LNTCH</p>	<p>62.4kW (22HP)</p>  <p>AJY198LNTCH UNIT : AJY126/072LNTCH</p>	<p>68.0kW (24HP)</p>  <p>AJY216LNTCH UNIT : AJY126/090LNTCH</p>	<p>73.0kW (26HP)</p>  <p>AJY234LNTCH UNIT : AJY144/090LNTCH</p>
<p>78.0kW (28HP)</p>  <p>AJY252LNTCH UNIT : AJY162/090LNTCH</p>	<p>85.0kW (30HP)</p>  <p>AJY270LNTCH UNIT : AJY144/126LNTCH</p>	<p>90.0kW (32HP)</p>  <p>AJY288LNTCH UNIT : AJY144/144LNTCH</p>	<p>95.0kW (34HP)</p>  <p>AJY306LNTCH UNIT : AJY162/144LNTCH</p>	<p>100.0kW (36HP)</p>  <p>AJY324LNTCH UNIT : AJY162/162LNTCH</p>
<p>106.0kW (38HP)</p>  <p>AJY342LNTCH UNIT : AJY162/090/090LNTCH</p>	<p>113.0kW (40HP)</p>  <p>AJY360LNTCH UNIT : AJY144/126/090LNTCH</p>	<p>118.0kW (42HP)</p>  <p>AJY378LNTCH UNIT : AJY144/144/090LNTCH</p>	<p>123.0kW (44HP)</p>  <p>AJY396LNTCH UNIT : AJY162/144/090LNTCH</p>	<p>128.0kW (46HP)</p>  <p>AJY414LNTCH UNIT : AJY162/162/090LNTCH</p>
<p>135.0kW (48HP)</p>  <p>AJY432LNTCH UNIT : AJY144/144/144LNTCH</p>	<p>140.0kW (50HP)</p>  <p>AJY450LNTCH UNIT : AJY162/144/144LNTCH</p>	<p>145.0kW (52HP)</p>  <p>AJY468LNTCH UNIT : AJY162/162/144LNTCH</p>	<p>150.0kW (54HP)</p>  <p>AJY486LNTCH UNIT : AJY162/162/162LNTCH</p>	

Energy efficiency Combinations





<p>44.8kW (16HP)</p>  <p>AJY144LNTCHH UNIT : AJY072/072LNTCH</p>	<p>50.4kW (18HP)</p>  <p>AJY162LNTCHH UNIT : AJY090/072LNTCH</p>	<p>55.9kW (20HP)</p>  <p>AJY180LNTCHH UNIT : AJY108/072LNTCH</p>	<p>67.2kW (24HP)</p>  <p>AJY216LNTCHH UNIT : AJY072/072/072LNTCH</p>	<p>72.8kW (26HP)</p>  <p>AJY234LNTCHH UNIT : AJY090/072/072LNTCH</p>
<p>78.3kW (28HP)</p>  <p>AJY252LNTCHH UNIT : AJY108/072/072LNTCH</p>	<p>84.8kW (30HP)</p>  <p>AJY270LNTCHH UNIT : AJY126/072/072LNTCH</p>	<p>89.4kW (32HP)</p>  <p>AJY288LNTCHH UNIT : AJY108/108/072LNTCH</p>	<p>95.9kW (34HP)</p>  <p>AJY306LNTCHH UNIT : AJY126/108/072LNTCH</p>	<p>100.5kW (36HP)</p>  <p>AJY324LNTCHH UNIT : AJY108/108/108LNTCH</p>
<p>107.0kW (38HP)</p>  <p>AJY342LNTCHH UNIT : AJY126/108/108LNTCH</p>	<p>113.5kW (40HP)</p>  <p>AJY360LNTCHH UNIT : AJY126/126/108LNTCH</p>	<p>120.0kW (42HP)</p>  <p>AJY378LNTCHH UNIT : AJY126/126/126LNTCH</p>	<p>125.0kW (44HP)</p>  <p>AJY396LNTCHH UNIT : AJY144/126/126LNTCH</p>	<p>130.0kW (46HP)</p>  <p>AJY414LNTCHH UNIT : AJY144/144/126LNTCH</p>

Outdoor units specifications

Space Saving Combination

Rating Capacity range		HP	8	10	12	14	16	18	20	22	24	26	28
													
Set Model name			AJY072LNTCH	AJY090LNTCH	AJY108LNTCH	AJY126LNTCH	AJY144LNTCH	AJY162LNTCH	AJY180LNTCH	AJY198LNTCH	AJY216LNTCH	AJY234LNTCH	AJY252LNTCH
Unit 1			AJY072LNTCH	AJY090LNTCH	AJY108LNTCH	AJY126LNTCH	AJY144LNTCH	AJY162LNTCH	AJY090LNTCH	AJY126LNTCH	AJY162LNTCH	AJY144LNTCH	AJY162LNTCH
Unit 2									AJY090LNTCH	AJY072LNTCH	AJY090LNTCH	AJY090LNTCH	AJY090LNTCH
Unit 3													
Maximum Connectable Indoor Unit			13	16	19	23	26	29	33	36	40	43	46
Indoor unit connectable capacity		Cooling	11.2-29.1	14-36.4	16.8-43.5	20-52	22.5-58.5	25-65	28-72.8	31.2-81.1	34-88.4	36.5-94.9	39-101.4
Power source			3-phase 4 wire, 400 V, 50Hz										
T1 condition	Capacity	Cooling	22.4	28.0	33.5	40.0	45.0	50.0	56.0	62.4	68.0	73.0	78.0
		Heating	25.0	31.5	37.5	45.0	50.0	50.0	63.0	70.0	76.5	81.5	81.5
		Btu/h	76400	95500	114000	136000	154000	171000	191000	212400	231500	249500	266500
	Input power	Cooling	5.20	7.28	8.96	10.96	13.01	16.56	14.56	16.16	18.24	20.29	23.84
		Heating	5.17	7.25	8.65	11.17	13.63	13.63	14.50	16.34	18.42	20.88	20.88
	Current	Cooling	9.2	12.0	15.0	17.7	20.7	26.1	-	-	-	-	-
		Heating	9.2	12.2	14.6	18.2	21.5	21.5	-	-	-	-	-
	EER	Cooling	4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27
		Heating	4.84	4.35	4.34	4.03	3.67	3.67	4.34	4.28	4.15	3.90	3.90
	EER	Cooling	14.7	13.1	12.8	12.5	11.8	10.3	13.1	13.2	12.7	12.3	11.2
Heating		16.5	14.8	14.8	13.7	12.5	12.5	14.8	14.6	14.2	13.3	13.3	
T2 condition	Capacity	Cooling	23.39	29.22	34.88	41.62	47.16	52.17	58.32	65.04	70.90	76.41	81.48
		Btu/h	79800	99700	119000	142000	160900	178000	199000	221900	241900	260700	278000
T2 condition	Input power	Cooling	5.52	7.74	9.54	11.67	13.86	16.64	15.47	17.19	19.40	21.59	24.37
		Heating	5.52	7.74	9.54	11.67	13.86	16.64	15.47	17.19	19.40	21.59	24.37
Power factor		%	90	92	92	92	92	93	-	-	-	-	
Airflow rate		High	11100	11100	13000	13000	13700	13700	11100*2	13000+11100	13000+11100	13700+11100	13700+11100
Sound pressure level / Power level	Cooling	dB(A)	56 / 77	58 / 79	57 / 78	60 / 81	62 / 83	63 / 84	61 / 82	61 / 82	62 / 83	63 / 84	64 / 85
	Heating	58 / 80	59 / 81	60 / 83	62 / 84	64 / 86	64 / 86	62 / 84	63 / 85	64 / 86	65 / 87	65 / 87	
External static pressure (Max)		Pa	82	82	82	82	82	82	82	82	82	82	
Compressor motor output		kW	7.5	7.5	11	11	11	11	7.5*2	11.0+7.5	11.0+7.5	11.0+7.5	
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	
Net Dimensions	Height	mm	1690	1690	1690	1690	1690	1690	1690*2	1690*2	1690*2	1690*2	
	Width	930	930	1240	1240	1240	1240	930*2	1240+930	1240+930	1240+930	1240+930	
	Depth	765	765	765	765	765	765	765*2	765*2	765*2	765*2	765*2	
Weight		kg	255	255	279	279	279	279	255*2	279+255	279+255	279+255	
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	
	Charge	kg(CO2eq-T)	11.7 (24.4)	11.7 (24.4)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.7*2 (24.4*2)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)	11.8+11.7 (24.6+24.4)	
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	
	Gas	22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	
Operation range	Cooling	*CDB	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-15 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	
	Heating	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	


Energy Efficiency Combination


Rating Capacity range		HP	16	18	20	24	26	28	30
									
Set Model name			AJY144LNTCHH	AJY162LNTCHH	AJY180LNTCHH	AJY216LNTCHH	AJY234LNTCHH	AJY252LNTCHH	AJY270LNTCHH
Unit 1			AJY072LNTCH	AJY090LNTCH	AJY108LNTCH	AJY072LNTCH	AJY090LNTCH	AJY108LNTCH	AJY126LNTCH
Unit 2			AJY072LNTCH	AJY072LNTCH	AJY072LNTCH	AJY072LNTCH	AJY072LNTCH	AJY072LNTCH	AJY072LNTCH
Unit 3									
Maximum Connectable Indoor Unit			26	29	33	39	43	46	50
Indoor unit connectable capacity		Cooling	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
Power source			3N - 400V, 50/60Hz						
T1 condition	Capacity	Cooling	44.8	50.4	55.9	67.2	72.8	78.3	84.8
		Heating	50.0	56.5	62.5	75.0	81.5	87.5	95.0
		Btu/h	152800	171900	190700	229200	248300	267100	289300
	Input power	Cooling	10.40	12.48	14.16	15.60	17.68	19.36	21.36
		Heating	10.34	12.42	13.82	15.51	17.59	18.99	21.51
	Current	Cooling	-	-	-	-	-	-	-
		Heating	-	-	-	-	-	-	-
	EER	Cooling	4.31	4.04	3.95	4.31	4.12	4.04	3.97
		Heating	4.84	4.55	4.52	4.84	4.63	4.61	4.42
	EER	Cooling	14.7	13.8	13.5	14.7	14.0	13.8	13.5
Heating		16.5	15.5	15.4	16.5	15.8	15.7	15.1	
T2 condition	Capacity	Cooling	46.78	52.64	58.32	70.19	75.91	81.77	88.51
		Btu/h	159600	179600	199000	239500	259000	279000	302000
T2 condition	Input power	Cooling	11.67	14.02	15.96	17.51	19.87	21.8	24.05
		Heating	11.67	14.02	15.96	17.51	19.87	21.8	24.05
Power factor		%	-	-	-	-	-	-	
Airflow rate		High	11100*2	11100*2	13000+11100	11100*3	11100*3	13000+11100*2	13000+11100*2
Sound pressure level / Power level	Cooling	dB(A)	59 / 80	60 / 81	60 / 81	61 / 82	62 / 83	61 / 82	63 / 84
	Heating	61 / 83	62 / 84	62 / 85	62 / 85	63 / 85	64 / 86	64 / 86	65 / 87
External static pressure (Max)		Pa	82	82	82	82	82	82	
Compressor motor output		kW	7.5*2	7.5*2	11.0+7.5	7.5*3	7.5*3	11.0+7.5*2	11.0+7.5*2
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1690*2	1690*2	1690*2	1690*3	1690*3	1690*3	1690*3
	Width	930*2	930*2	1240+930	930*3	930*3	1240+930*2	1240+930*2	1240+930*2
	Depth	765*2	765*2	765*2	765*3	765*3	765*3	765*3	765*3
Weight		kg	255*2	255*2	279+255	255*3	255*3	279+255*2	279+255*2
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	11.7*2 (24.4*2)	11.7*2 (24.4*2)	11.8+11.7 (24.6+24.4)	11.7*3 (24.4*3)	11.7*3 (24.4*3)	11.8+11.7*2 (24.6+24.4*2)	11.8+11.7*2 (24.6+24.4*2)
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	15.88	19.05
	Gas	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92
Operation range	Cooling	*CDB	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
	Heating	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

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(T2): Indoor temperature of 27°CDB / 19.5°CWB, and outdoor temperature of 35°CDB / 24°CWB

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

30	32	34	36	38	40	42	44	46	48	50	52	54
												
AJY270LNTCH AJY144LNTCH AJY126LNTCH	AJY288LNTCH AJY144LNTCH AJY144LNTCH	AJY306LNTCH AJY162LNTCH AJY144LNTCH	AJY324LNTCH AJY162LNTCH AJY162LNTCH	AJY342LNTCH AJY162LNTCH AJY090LNTCH AJY090LNTCH	AJY360LNTCH AJY144LNTCH AJY126LNTCH AJY090LNTCH	AJY378LNTCH AJY144LNTCH AJY144LNTCH AJY090LNTCH	AJY396LNTCH AJY162LNTCH AJY144LNTCH AJY090LNTCH	AJY414LNTCH AJY162LNTCH AJY162LNTCH AJY144LNTCH	AJY432LNTCH AJY144LNTCH AJY144LNTCH AJY144LNTCH	AJY450LNTCH AJY162LNTCH AJY144LNTCH AJY144LNTCH	AJY468LNTCH AJY162LNTCH AJY162LNTCH AJY162LNTCH	AJY486LNTCH AJY162LNTCH AJY162LNTCH AJY162LNTCH
50 42.5-110.5	53 45-117	55 47.5-123.5	55 50-130	55 53-137.8	55 56.5-146.9	55 59-153.4	55 61.5-159.9	55 64-166.4	55 67.5-175.5	55 70-182	55 72.5-188.5	55 75-195
3N ~ 400V, 50/60Hz												
85.0	90.0	95.0	100.0	106.0	113.0	118.0	123.0	128.0	135.0	140.0	145.0	150.0
95.0	100.0	100.0	100.0	113.0	126.5	131.5	131.5	131.5	150.0	150.0	150.0	150.0
290000	308000	325000	342000	362000	385500	403500	420500	437500	462000	479000	496000	513000
324100	341200	341200	341200	385600	431600	448700	448700	448700	511800	511800	511800	511800
23.97	26.02	29.57	33.12	31.12	31.25	33.30	36.85	40.40	39.03	42.58	46.13	49.68
24.80	27.26	27.26	27.26	28.13	32.05	34.51	34.51	34.51	40.89	40.89	40.89	40.89
-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-
3.55	3.46	3.21	3.02	3.41	3.62	3.54	3.34	3.17	3.46	3.29	3.14	3.02
3.83	3.67	3.67	3.67	4.02	3.95	3.81	3.81	3.81	3.67	3.67	3.67	3.67
12.1	11.8	11.0	10.3	11.6	12.3	12.1	11.4	10.8	11.8	11.2	10.7	10.3
13.1	12.5	12.5	12.5	13.7	13.5	13.0	13.0	13.0	12.5	12.5	12.5	12.5
88.80	94.08	99.36	104.63	110.79	118.05	123.39	128.66	133.94	141.47	146.69	151.82	157.09
303000	321000	339000	357000	378000	402800	421000	439000	457000	482700	500500	518000	536000
25.52	27.71	30.49	33.27	32.11	33.26	35.45	38.23	41.00	41.57	44.35	47.12	49.90
-	-	-	-	-	-	-	-	-	-	-	-	-
13700+13000	13700×2	13700×2	13700×2	13700+11100×2	13700+13000+1100	13700×2+11100	13700×2+11100	13700×2+11100	13700×3	13700×3	13700×3	13700×3
64 / 85	65 / 88	66 / 87	66 / 87	65 / 86	65 / 86	66 / 87	66 / 87	67 / 87	67 / 88	67 / 88	67 / 88	68 / 89
66 / 88	67 / 89	67 / 89	67 / 89	66 / 88	67 / 89	68 / 90	68 / 90	68 / 90	69 / 91	69 / 91	69 / 91	69 / 91
82	82	82	82	82	82	82	82	82	82	82	82	82
11.0×2	11.0×2	11.0×2	11.0×2	11.0×2+5	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1690×2	1690×2	1690×2	1690×2	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3
1240×2	1240×2	1240×2	1240×2	1240×930×2	1240×930	1240×930	1240×930	1240×930	1240×3	1240×3	1240×3	1240×3
765×2	765×2	765×2	765×2	765×3	765×3	765×3	765×3	765×3	765×3	765×3	765×3	765×3
279×2	279×2	279×2	279×2	279×2	279+255×2	279+255	279+255	279+255	279×3	279×3	279×3	279×3
R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6×2)	11.8×2 (24.6+24.4×2)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

32	34	36	38	40	42	44	46
							
AJY288LNTCHH AJY108LNTCH AJY108LNTCH AJY072LNTCH	AJY306LNTCHH AJY126LNTCH AJY108LNTCH AJY072LNTCH	AJY324LNTCHH AJY108LNTCH AJY108LNTCH AJY108LNTCH	AJY342LNTCHH AJY126LNTCH AJY108LNTCH AJY108LNTCH	AJY360LNTCHH AJY126LNTCH AJY126LNTCH AJY108LNTCH	AJY378LNTCHH AJY126LNTCH AJY126LNTCH AJY126LNTCH	AJY396LNTCHH AJY144LNTCH AJY126LNTCH AJY126LNTCH	AJY414LNTCHH AJY144LNTCH AJY144LNTCH AJY126LNTCH
52 44.7-116.2	55 48-124.6	55 50.3-130.6	55 53.5-139.1	55 56.8-147.5	55 60-156	55 62.5-162.5	55 65-169
3-phase 4 wire, 400 V, 50Hz							
89.4	95.9	100.5	107.0	113.5	120.0	125.0	130.0
100.0	107.5	112.5	120.0	127.5	135.0	140.0	145.0
305000	327200	342900	365100	387300	409500	427000	444000
341300	366800	384000	409500	435000	460500	477600	494700
23.12	25.12	26.88	28.88	30.88	32.88	34.93	36.98
22.47	24.99	25.95	28.47	30.99	33.51	35.97	38.43
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
3.87	3.82	3.74	3.70	3.68	3.65	3.58	3.52
4.45	4.30	4.34	4.21	4.11	4.03	3.89	3.77
13.2	13.0	12.8	12.6	12.5	12.5	12.2	12.0
15.2	14.7	14.8	14.4	14.0	13.7	13.3	12.9
93.41	100.21	105.01	111.81	118.61	125.41	130.72	135.99
318700	341900	358300	381500	404700	427900	446000	464000
26.08	28.33	30.36	32.61	34.86	37.12	39.44	41.77
-	-	-	-	-	-	-	-
13000×2+11100	13000×2+11100	13000×3	13000×3	13000×3	13000×3	13700+13000×2	13700×2+13000
61 / 82	63 / 84	64 / 83	64 / 84	64 / 85	65 / 88	66 / 87	66 / 87
64 / 87	65 / 88	66 / 88	66 / 88	66 / 88	67 / 89	68 / 90	68 / 90
82	82	82	82	82	82	82	82
11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3	1690×3
1240×2+930	1240×2+930	1240×3	1240×3	1240×3	1240×3	1240×3	1240×3
765×3	765×3	765×3	765×3	765×3	765×3	765×3	765×3
279×2+255	279×2+255	279×3	279×3	279×3	279×3	279×3	279×3
R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
11.8×2+11.7 (24.6×2+24.4)	11.8×2+11.7 (24.6×2+24.4)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)	11.8×3 (24.6×3)
19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52	-5 to 52
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

VRF INDOOR UNITS

20 types and 97 models available to meet the requirements of any building design.




























The AIRSTAGE™ indoor units were developed to be highly efficient, compact, low noise and to have user friendly operation. With a variety of indoor units and capacities available, Fujitsu General has an indoor unit to match any requirement which is easy to install and maintain. Further, a variety of options are available to achieve an air conditioning environment that is more desirable from the user's perspective.

- Vn-044 INDOOR UNITS LINE-UP
- Vn-046 1-Way Flow Cassette
- Vn-048 3D Flow Cassette
- Vn-050 Compact Cassette (Grid type / Standard type)
- Vn-052 Cassette Large type (Circular Flow / 4-way Flow)
- Vn-054 Low Static Pressure Duct / Mini Duct
- Vn-056 Low Static Pressure Duct / Slim Duct / Slim Concealed Floor
- Vn-058 Low Static Pressure Duct
- Vn-060 Medium Static Pressure Duct
- Vn-062 High Static Pressure Duct
- Vn-064 Floor / Ceiling
- Vn-066 Ceiling
- Vn-068 Wall Mounted (EEV Internal / external)





VRF Indoor Unit Lineup

Capacity range (kW)		1.1	2.2	2.8	3.6		
Class		4	7	9	12		
Cassette	Compact type	Compact Grid type / Standard type		AUXB 07 GALH	AUXB 09 GALH	AUXB 12 GALH	
	Large type	Circular Flow					
	One-way Flow type	One-way Flow	 004 - 012  014 - 024	AUXV 004 GLEH	AUXV 007 GLEH	AUXV 009 GLEH	AUXV 012 GLEH
	3D Flow type	3D Flow					
Duct	Low Static Pressure Duct	Mini Duct (With drain pump)	 004 - 014  018  024	ARXK 004 GLGH	ARXK 007 GLGH	ARXK 009 GLGH	ARXK 012 GLGH
		Slim Duct (With drain pump)	 04 / 007 - 014  018  024	ARXD 04 GALH*3	ARXD 007 GLEH	ARXD 009 GLEH	ARXD 012 GLEH
		Low Static Pressure Duct					
	Medium Static Pressure Duct	Normal					
	High Static Pressure Duct	Normal	 36/45/60  72  90  96				
Floor	Floor (*Same as Ceiling models)					ABYA 12 GATH	
	Slim Concealed Floor (*Same as Slim Duct models)	 04 / 007 - 014  018  024	ARXD 04 GALH*3	ARXD 007 GLEH	ARXD 009 GLEH	ARXD 012 GLEH	
Ceiling		 012 - 024  030 - 054				ABYA 12 GATH	
Wall Mounted	Wall Mounted	 07 - 14  18 - 30		ASYA 07 GACH	ASYA 09 GACH	ASYA 12 GACH	
	Wall Mounted	 18 - 24  030 - 034					

	4.0	4.5	5.6	7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0	28.0
	14	14	18	24	30	34	36	45	54	60	72	90	96
	AUXB 14 GALH	AUXB 18 GALH	AUXB 24 GALH										
		AUXK 018 GLEH	AUXK 024 GLEH	AUXK 030 GLEH	AUXK 034 GLEH	AUXK 036 GLEH	AUXK 045 GLEH	AUXK 054 GLEH					
	AUXV 014 GLEH	AUXV 018 GLEH	AUXV 024 GLEH										
		AUXS 018 GLEH	AUXS 024 GLEH										
	ARXK 014 GLGH	ARXK 018 GLGH	ARXK 024 GLGH										
	ARXD 014 GLEH	ARXD 018 GLEH	ARXD 024 GLEH										
			ARXB 24 GALH	ARXB 30 GALH		ARXB 36 GALH	ARXB 45 GALH						
			ARXA 24 GBLH	ARXA 30 GBLH		ARXA 36 GBLH	ARXA 45 GBLH						
						ARXC 36 GATH	ARXC 45 GATH		ARXC 60 GATH*1	ARXC 72 GATH*1	ARXC 090 GTEH*1	ARXC 096 GTEH*1	
	ABYA 14 GATH	ABYA 18 GATH	ABYA 24 GATH										
	ARXD 014 GLEH	ARXD 018 GLEH	ARXD 024 GLEH										
	ABYA 14 GATH	ABYA 18 GATH	ABYA 24 GATH	ABYA 30 GATH		ABYA 36 GATH	ABYA 45 GATH	ABYA 54 GATH					
	ASYA 14 GACH	ASYA 18 GACH	ASYA 24 GACH	ASYA 30 GACH									
		ASYA 18 GBCH	ASYA 24 GBCH	ASYA 030 GTEH	ASYA 034 GTEH								

*1: ARXC60/072/090/096G cannot be connected to J-IVS / J-IV Series.

*2: AUXA18/24GALH, ARXQ018/024/030GTAH type can be connected to VR-IV / V-III Series only.

*3: ARXD04GALH cannot be connected to J-IVS / J-IV / J-IVL / VR-IV Series.

*4: AUXN009/012/014GLAH can be connected to J-IVS / J-IV Series only.

*5: ARXP009/012/014GLAH can be connected to J-IVS / J-IV / J-IVL Series only.

*6: Production by order

*7: ARXP018GLAH, ARXP024/030GTAH can be connected to J-IVL Series only.

Specifications and design are subject to change without notice.

Cassette

One-way Flow type



Compact chassis size

Their compact sizes make it easy to install them in a variety of commercial locations and environments.

- The chassis is less than 200 mm high in every model.
- All 4 to 12kBtu models are less than 1,000 mm wide.
- The chassis depth is 570 mm, which fits nicely into a grid-type ceiling.

Dimensions (Panel size) (Unit : mm)

	4	7	9	12	14	18	24
H		198 (43)				198 (43)	
W		785 (950)				1,190 (1,360)	
D		570 (620)				570 (620)	

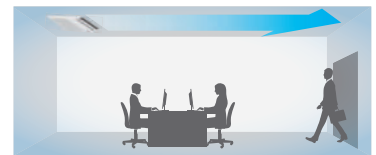


Wide airflow range

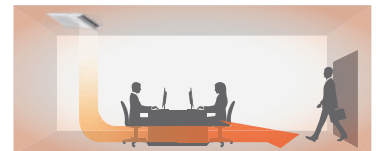
The large flap with triangularly arrayed louvers has a wider movable range and directs an airflow to the furthest corners of the room.



In cooling mode, the horizontal airflow reaches the furthest corners of the room and avoids hitting human bodies directly in order to provide comfortable air conditioning.



In heating mode, the warm air is directed downward toward the floor to warm the occupants' feet and lower bodies while keeping their heads relatively cool.



Note: This is a conceptual drawing. Air conditioning performance may vary depending on installation, room size, and the distance from the wall.

Low noise operation

They produce little noise during operation, which makes them an ideal choice for use in hotel rooms.



**Model : AUXV004GLEH / AUXV007GLEH / AUXV009GLEH
AUXV012GLEH / AUXV014GLEH / AUXV018GLEH
AUXV024GLEH**



AUXV004/007/009/012GLEH



AUXV014/018/024GLEH

Specifications

Model name			AUXV004GLEH	AUXV007GLEH	AUXV009GLEH	AUXV012GLEH	AUXV014GLEH	AUXV018GLEH	AUXV024GLEH		
Power source			Single phase, ~230V, 50Hz								
Capacity	Cooling	BTU/h	3,800	7,500	9,600	12,300	15,400	19,100	24,200		
	Cooling T2		3,911	7,848	9,895	12,966	16,036	19,790	25,249		
	Heating		4,400	9,600	10,900	14,000	17,100	21,500	27,300		
Input power			W	30/30	42/42	42/42	60/60	38/38	56/56	99/99	
Airflow rate*	High	m ³ /h	460	550	550	670	720	890	1,150		
	Med-High		440	440	440	520	660	840	1,020		
	Med		420	420	420	480	630	770	940		
	Med-Low		400	400	400	450	600	710	790		
	Low		380	380	380	410	580	660	700		
	Quiet		360	360	360	360	550	580	610		
Sound pressure level*	High	dB(A)	38	42	42	45	37	44	49		
	Med-High		37	37	37	41	36	43	47		
	Med		36	36	36	39	35	40	45		
	Med-Low		35	35	35	38	34	38	42		
	Low		33	33	33	36	33	36	39		
	Quiet		32	32	32	32	32	34	36		
Net Dimensions (H × W × D)			mm	198 × 785 × 570	198 × 785 × 570	198 × 785 × 570	198 × 785 × 570	198 × 1,190 × 570	198 × 1,190 × 570	198 × 1,190 × 570	
Weight			kg(lbs)	18 (40)	19 (42)	19 (42)	19 (42)	26 (57)	26 (57)	27 (60)	
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	6.35	9.52	
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	12.70	12.70	15.88	
Drain hose diameter (I.D./O.D.)				25/32							
Cassette Grille	Model name		UTG-UNYA-W				UTG-UNYB-W				
	Net Dimensions (H×W×D)		mm				43 × 950 × 620				
	Weight		kg(lbs)				6.5 (14.5)				
								43 × 1,360 × 620			
								8.5 (18.0)			

Note : Specifications are based on the following conditions.

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

Cooling T2 : Indoor temperature of 27°CDB / 19.5°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].

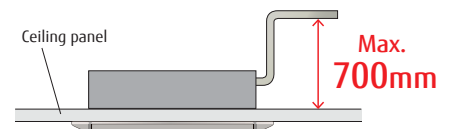
Optional parts

Wireless LAN Interface: UTY-TFSXZ1
IR Receiver Unit: UTY-TRHX
Cassette Grille: UTG-UNYA-W / UTG-UNYB-W
External Power Supply Unit: UTZ-GXXA

Flexible Installation

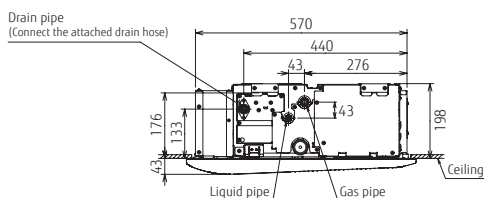
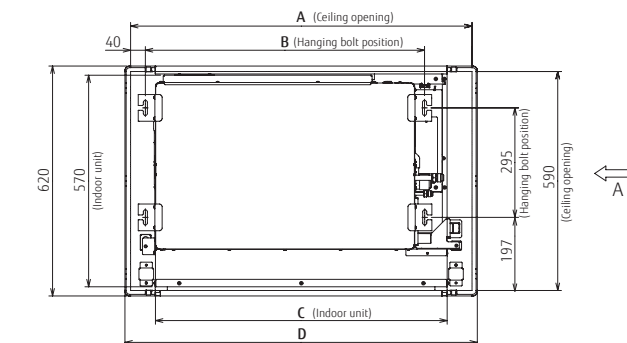
By using new L-type piping kit, more flexible installation is possible.

Built-in drain pump as standard accessory, which enable to have maximum 700m piping height difference from the ceiling.



Dimensions

(Unit : mm)



VIEW A

	AUXV004-012	AUXV014-024
A	920	1,330
B	752	1,152
C	785	1,190
D	950	1,360

3D Flow Cassette



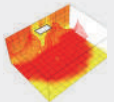
3 Air Outlet Ports can be controlled individually

Using the "Comfortable airflow setting" function allows the left and right air outlet ports and the wide center air outlet ports to automatically create a comfortable space for improved comfort.

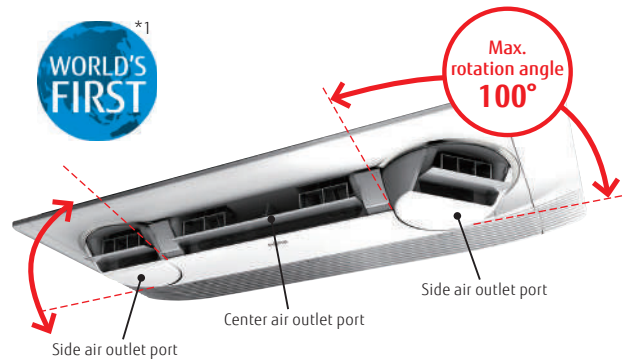
Temperature distribution during cooling and heating (when set to comfortable airflow)



Cooling: When cooling operation is stable with an outside air temperature of 35°C, a set temperature of 18°C and an air volume set to "Hi" in a 40m² environmental our test room for the AUXS024GLEH



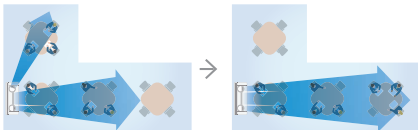
Heating: When heating operation is stable with an outside air temperature of 7°C, a set temperature of 30°C and an air volume set to "Hi" in a 40m² environmental our test room for the AUXS024GLEH



*1: Announced 2018. In room air conditioner for the home (our company's investigation)

Individual airflow setting

Equipped with an "Individual airflow setting" function that optimizes the airflow setting in accordance with the installation location.



Suitably setting the side air outlet ports to match how the space is used achieves air conditioning with no waste.



Optimum airflow control for improved comfort is achieved even for long rooms.



Wired Remote Controller (Touch Panel) UTY-RNRYZ3

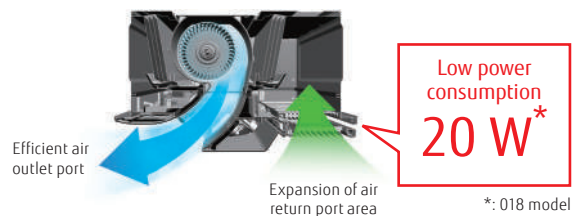
Individual air outlet port control

"Individual airflow setting" is possible using the Wired Remote Controller (Touch Panel)*. The airflow of the respective air outlet ports can be individually set.

*Wired Remote Controller (Touch Panel) UTY-RNRYZ3 only

High Energy Saving

The "New structural design" featuring large intake and smooth output reduces air blowing loss to achieve top class energy saving.



Low power consumption
20 W*

*: 018 model



Specifications

Model name			AUXS018GLEH	AUXS024GLEH
Power source			Single phase, ~230V, 50Hz	
Capacity	Cooling	BTU/h	19,100	24,200
	Cooling T2		19,790	25,249
	Heating		21,500	27,300
Input power		W	20/28	34/43
Airflow rate*	High	m³/h	750/870	950/1,040
	Med-High		710/830	890/990
	Med		690/780	860/930
	Med-Low		660/740	810/880
	Low		630/700	770/840
	Quiet		540/540	540/540
Sound pressure level*	High	dB(A)	38/41	43/46
	Med-High		36/40	42/45
	Med		35/39	41/43
	Med-Low		35/37	40/42
	Low		33/36	38/40
	Quiet		29/29	29/29
Net Dimensions (H × W × D)		mm	200 × 1,240 × 500	
Weight		kg(lbs)	25 (55)	
Connection pipe diameter	Liquid (Flare)	mm	6.35	
	Gas (Flare)		12.70	
Drain hose diameter (I.D./O.D.)			25/32	
Cassette Grille	Model name		UTG-USYA-W	
	Net Dimensions (H×W×D)	mm	85 × 1,350 × 580	
	Weight	kg(lbs)	11.5 (25)	

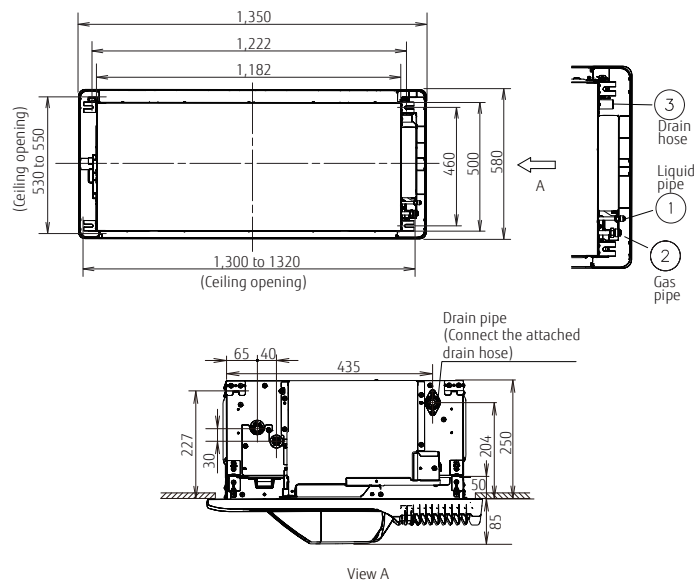
Note : Specifications are based on the following conditions.
 Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
 Cooling T2 : Indoor temperature of 27°CDB / 19.5°CWB, and outdoor temperature of 35°CDB / 24°CWB.
 Heating : Indoor temperature of 20°CDB / (15°CWB), 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].
 *: This value is "cooling operation / heating operation".

Optional parts

- Wireless LAN Interface: UTY-TFSXZ1
- IR Receiver Unit: UTY-TRHX
- Cassette Grille: UTG-USYA-W
- External Power Supply Unit: UTZ-GXXA

Dimensions

(Unit : mm)



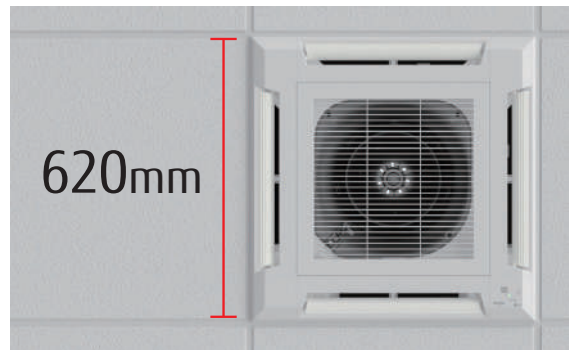
Compact Cassette

Grid type



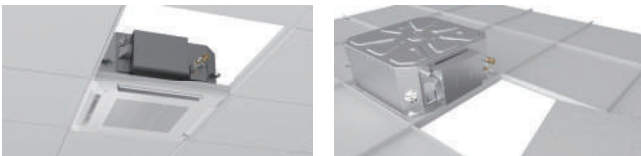
Compact and stylish panel design

Compact and stylish panel design fits the grid type ceiling. It is a linear design suitable for grid shape of 620mm × 620mm grid ceiling.

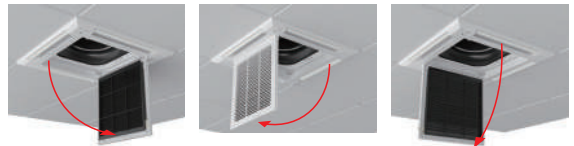


Easy maintenance

Maintenance is easier by removing the ceiling panel next to the grill, maintenance can be done, and new installation of inspection hole is unnecessary, so construction costs can be suppressed.



The air inlet grill can be installed in various directions, so maintenance is easy.



Flexible installation

It is suitable for ceiling of grid type and it has high degree of freedom of installation and it can be installed beside lighting and ventilation opening.



High ceiling mode

The compact cassette can be installed up to a height of 3.0m (012/014/018/024).

Model code	The maximum height from floor to ceiling (m)	
	Standard mode	High ceiling mode
007	2.7	-
009	2.7	-
012	2.7	3.0
014	2.7	3.0
018	2.7	3.0
024	2.7	3.0

Model : AUXB07GALH / AUXB09GALH / AUXB12GALH
 AUXB14GALH / AUXB18GALH / AUXB24GALH



Specifications

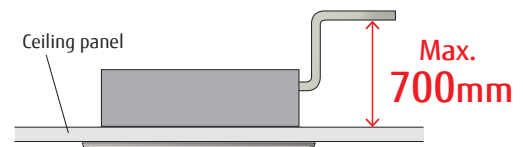
Model name		AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH	AUXB18GALH	AUXB24GALH	
Power source		Single phase, ~230V, 50Hz						
Capacity	Cooling	7,500	9,600	12,300	15,400	19,100	24,200	
	Cooling T2	7,848	9,895	12,966	16,036	19,790	25,249	
	Heating	9,500	10,900	13,990	17,000	21,500	27,200	
Input power		W	25	25	29	35	84	
Airflow rate	High	m ³ /h (l/s)	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	dB(A)	34	35	37	38	41	50
	Med	30	30	34	34	35	44	
	Low	25	25	27	27	27	30	
Net Dimensions (H × W × D)		mm	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570
Weight		kg(lbs)	15 (33)	15 (33)	15 (33)	15 (33)	17 (37)	17 (37)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	9.52	9.52
	Gas (Flare)	mm	12.70	12.70	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.D.)			25/32					
Cassette Grille	Model name		UTG-UFYC-W / UTG-UEYC-W					
	Net Dimensions (H×W×D)	mm	50 × 700 × 700 / 50 × 620 × 620					
	Weight	kg(lbs)	2.6(6) / 2.3(5.1)					

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
 Cooling T2 : Indoor temperature of 27°CDB / 19.5°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.

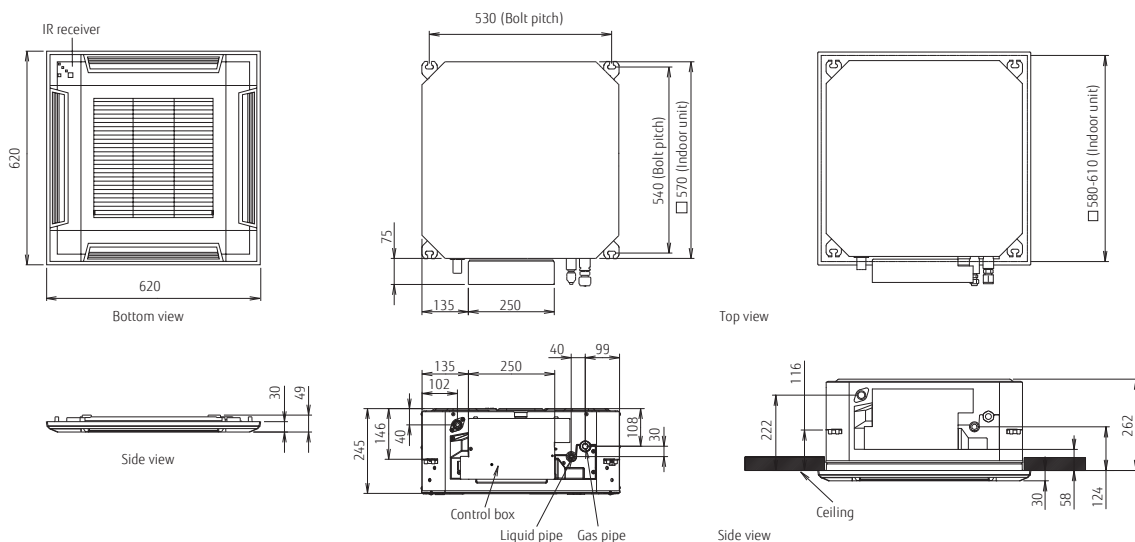
Optional parts

Air Outlet Shutter Plate: UTR-YDZB
 Fresh Air Intake Kit: UTZ-VXAA
 Insulation Kit for High Humidity: UTZ-KXGC
 Cassette Grille: UTG-UFYC-W, UTG-UFYE-W
 External Power Supply Unit: UTZ-GXXA
 Wireless LAN Interface: UTY-TFSXZ1



Dimensions

(Unit : mm)



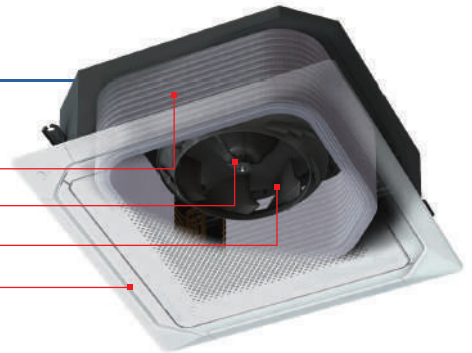
Cassette Large type Circular Flow



Unique Circular Flow design

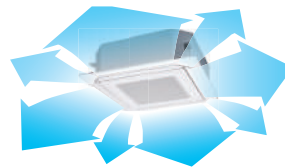
New Cassette type achieves a Circular airflow discharge in 360° direction by means of a high performance DC fan motor, new turbo fan and unique seamless airflow louver design.

- Ø7mm high density heat exchanger
- New DC fan motor
- High efficient turbo fan
- Seamless airflow louver



Uniform temperature air conditioning

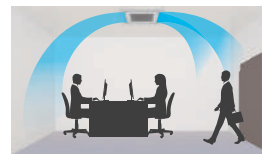
Achieve a comfortable air conditioning spread to every corner of the room by circular flow & wide vertical airflow.



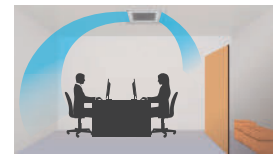
Individual louver control

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

* Touch Panel Wired RC (UTY-RNRYZ3) 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-RNRYZ3) 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.

**Model : AUXK018GLEH / AUXK024GLEH / AUXK030GLEH
AUXK034GLEH / AUXK036GLEH / AUXK045GLEH
AUXK054GLEH**



Specifications

Model name		AUXK018GLEH	AUXK024GLEH	AUXK030GLEH	AUXK034GLEH	AUXK036GLEH	AUXK045GLEH	AUXK054GLEH	
Power source		Single phase, ~230V, 50Hz							
Capacity	Cooling	19,100	24,200	30,700	34,100	38,200	42,700	47,800	
	Cooling T2	19,790	25,249	32,073	35,485	39,920	44,356	49,815	
	Heating	21,500	27,300	34,100	38,200	42,700	47,800	54,600	
Input power		W	40	40	47	47	61	89	116
Airflow rate	High	m ³ /h	1,420	1,420	1,440	1,440	1,620	1,820	2,040
	Med-High		1,360	1,360	1,400	1,400	1,500	1,590	1,800
	Med		1,300	1,300	1,340	1,340	1,400	1,500	1,590
	Med-Low		1,270	1,270	1,300	1,300	1,340	1,400	1,440
	Low		1,200	1,200	1,280	1,280	1,280	1,300	1,300
	Quiet		1,150	1,150	1,150	1,150	1,150	1,150	1,150
Sound pressure level	High	dB(A)	38	38	39	39	41	44	47
	Med-High		37	37	38	38	40	42	45
	Med		36	36	37	37	38	40	42
	Med-Low		35	35	36	36	37	38	39
	Low		34	34	35	35	35	36	36
	Quiet		33	33	33	33	33	33	33
Dimensions (H × W × D)		mm	288 × 840 × 840						
Weight		kg(lbs)	26.5 (58)	26.5 (58)	29.5 (65)	29.5 (65)	29.5 (65)	29.5 (65)	29.5 (65)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52	9.52	9.52	9.52	9.52	9.52
	Gas (Flare)	mm	12.70	15.88	15.88	15.88	15.88	15.88	15.88
Drain hose diameter (I.D./O.D.)			25 / 32						
Cassette Grille	Model name		UTG-UKYC-W / UTG-UKYA-B						
	Dimensions (H×W×D)	mm	53 × 950 × 950						
	Weight	kg(lbs)	6.0 (13)						

Note : Specifications are based on the following conditions.

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

Cooling T2 : Indoor temperature of 27°CDB / 19.5°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*018GLEH is connected to the outdoor unit other than J-IVL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas)

When AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH are connected to the outdoor unit other than J-IVL, gas pipe diameter should be Ø19.05.

Optional parts

Human Sensor Kit: UTY-SHZXC
Wide Panel: UTG-AKXA-W
Panel Spacer: UTG-BKXA-W

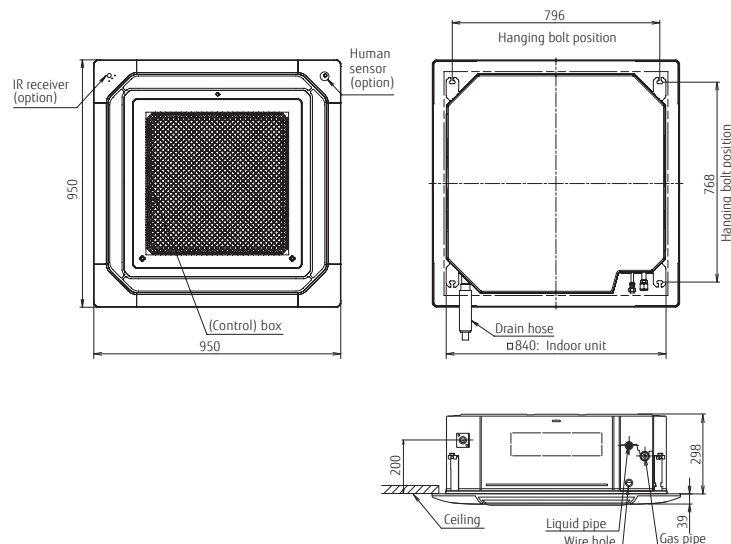
Fresh Air Intake Kit: UTZ-VXRA
Air Outlet Shutter Plate: UTR-YDZK
Insulation Kit for High Humidity: UTZ-KXRA

Cassette Grille: UTG-UKYC-W, UTG-UKYA-B
External Power Supply Unit: UTZ-GXXA
IR Receiver Unit: UTY-LBHXD

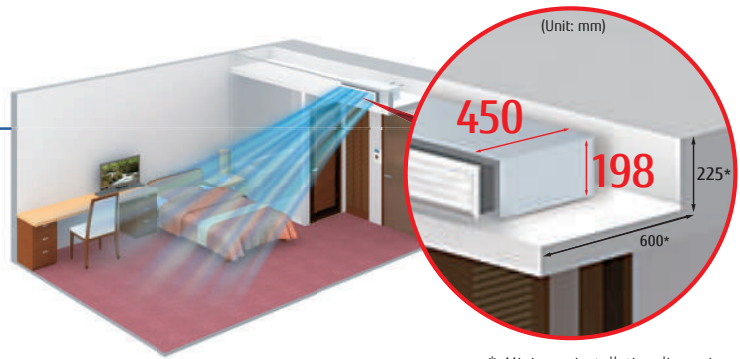
Wireless LAN Interface: UTY-TFSXZ1

Dimensions

(Unit : mm)



Low Static Pressure Duct Mini Duct (With drain pump)



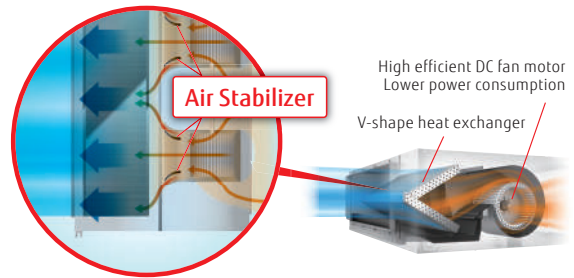
Large living space available

- Installation space can be reduced down to minimum depth 450mm height 198 mm and compact design
- Minimum size: Depth 450mm, Height 198mm
- Volume 30% down compared with current model
- Lightweight: 16kg 10%down

*: Minimum installation dimension

Optimum airflow path and low noise operation

Low noise is realized drastically by stabilized airflow design

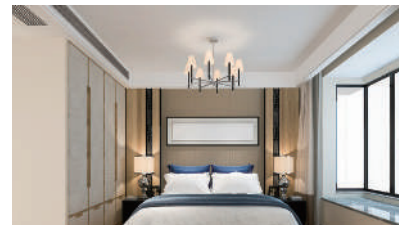
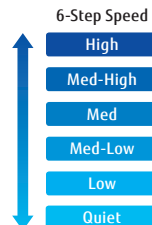


6-speed control*

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

Low noise
20dB(A)

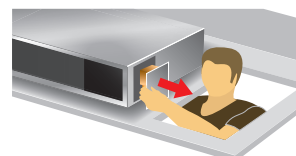
at 04 model



* Compatible Remote Controller is as follows:
UTY-RNRYZ3/UTY-RLRY/UTY-RSRV/UTY-RHRY/UTY-DCGYZ1/UTY-ALGXZ1/UTY-APGXZ1

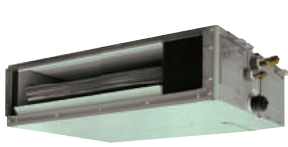
Easy design and maintenance for drain

Maintenance is easy by easy design indoor unit. Parts can be replaced from the side of the unit where maintenance is easier.



Built-in drain pump as standard :
Maintenance is easy

**Model : ARXK004GLGH / ARXK007GLGH / ARXK009GLGH
ARXK012GLGH / ARXK014GLGH / ARXK018GLGH
ARXK024GLGH**



ARXK004/007/009/012/014GLGH



ARXK018GLGH



ARXK024GLGH

Specifications

Model name		ARXK004GLGH	ARXK007GLGH	ARXK009GLGH	ARXK012GLGH	ARXK014GLGH	ARXK018GLGH	ARXK024GLGH
Power source		Single phase, ~230V, 50Hz						
Capacity	Cooling	3,800	7,500	9,600	12,300	15,400	19,100	24,200
	Cooling T2	3,911	7,848	9,895	12,966	16,036	19,790	25,249
	Heating	4,400	9,600	10,900	14,000	17,100	21,500	27,300
Input power	W	26	28	28	35	66	73	80
Airflow rate	High	460	460	460	550	760	930	1,160
	Med-High	440	440	440	520	660	840	1,060
	Med	420	420	420	480	560	740	960
	Med-Low	400	400	400	450	490	640	860
	Low	370	370	370	410	410	540	750
	Quiet	340	340	340	340	340	470	610
Static pressure range	Pa	0 to 30	0 to 30	0 to 30	0 to 30	0 to 50	0 to 50	0 to 50
Standard static pressure	Pa	10	10	10	10	15	15	15
Sound pressure level	High	25	26	26	29	34	33	32
	Med-High	24	25	25	27	31	30	30
	Med	23	24	24	26	28	28	28
	Med-Low	22	23	23	25	26	26	27
	Low	21	22	22	24	24	24	25
	Quiet	20	21	21	22	22	22	22
Net Dimensions (H × W × D)	mm	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 900 × 450	198 × 1,100 × 450
Weight	kg(lbs)	14.5 (32)	15.5 (34)	15.5 (34)	16 (35)	16 (35)	19 (42)	22.5 (50)
Connection pipe diameter	Liquid (Flare)	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)	9.52	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)		25/32						

Note : Specifications are based on the following conditions.

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

Cooling T2 : Indoor temperature of 27°CDB / 19.5°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.

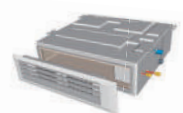
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Optional parts

Remote Sensor Unit : UTY-XSZX Auto Louver Grille Kit: UTD-GXTA-W (004/007/009/012/014)
IR Receiver Unit : UTB-YWC UTD-GXTB-W (018)
External Power Supply Unit: UTZ-GXXA UTD-GXTC-W (024)

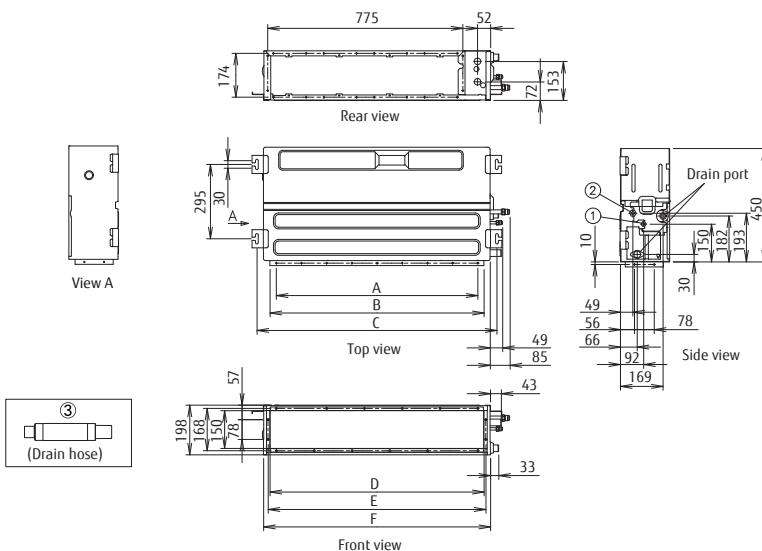
Auto Louver Grille Kit (Option)

Thin design provides a comfortable living environment over a wide area. Automatic louver grille provides comfortable air conditioning all the way down to the floor and matches the interior design well. (Optional)



Dimensions

(Unit : mm)



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

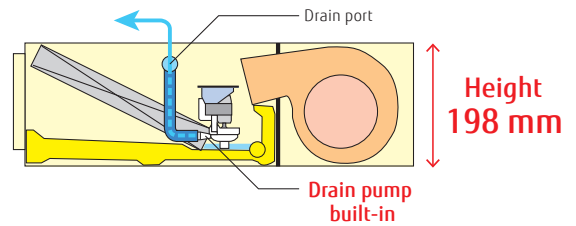
	ARXK004-014	ARXK018	ARXK024
A	P100×6=600	P100×8=800	P100×10=1000
B	650	850	1050
C	752	952	1152
D	650	850	1050
E	665	864	1064
F	700	900	1100

Low Static Pressure Duct Slim Duct / Slim Concealed Floor



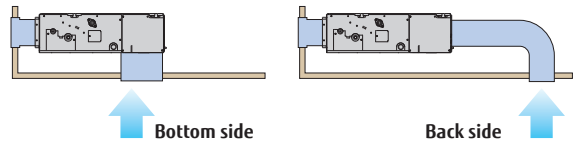
Slim design

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



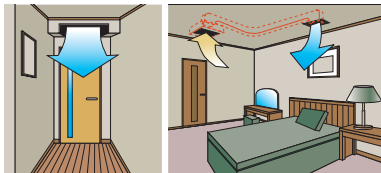
Air-intake

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

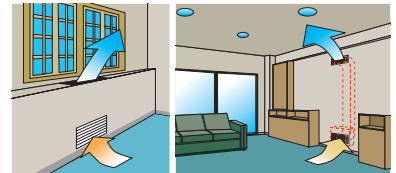


Flexible installation

Ceiling concealed



Floor concealed



Selectable with a wide range of static pressure

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

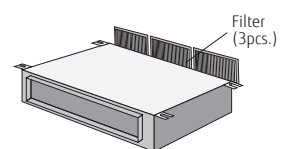
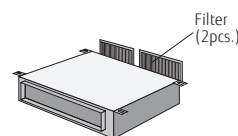


Static pressure range
0 to 90Pa

*024 model is 0 to 50Pa

Filter (Accessory)

ARXD04/007/009/012/014/018 ARXD024



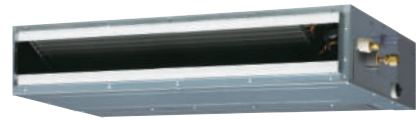
**Model : ARXD04GALH / ARXD007GLEH / ARXD009GLEH
ARXD012GLEH / ARXD014GLEH / ARXD018GLEH
ARXD024GLEH**



ARXD04GALH
ARXD007/009/012/014GLEH



ARXD018GLEH



ARXD024GLEH

Slim
Concealed
Floor



Specifications

Model name		ARXD04GALH*	ARXD007GLEH	ARXD009GLEH	ARXD012GLEH	ARXD014GLEH	ARXD018GLEH	ARXD024GLEH	
Power source		Single phase, ~230V, 50Hz							
Capacity	Cooling	3,800	7,500	9,600	12,300	15,400	19,100	24,200	
	Cooling T2	3,911	7,848	9,895	12,966	16,036	19,790	25,249	
	Heating	4,400	9,600	10,900	14,000	17,100	21,500	27,300	
Input power		W	40	44	50	54	92	83	122
Airflow rate	High	m ³ /h	510	550	600	600	800	940	1,330
	Med-High	-	480	480	510	530	680	820	1,140
	Med	400/470*1	440	460	490	600	730	1,020	
	Med-Low	-	410	420	450	520	630	900	
	Low	320/440*1	370	370	410	440	540	780	
	Quiet	-	320	320	340	340	470	610	
Static pressure range		Pa	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 50	
Standard static pressure			25	25	25	25	25	25	
Sound pressure level	High	dB(A)	26	28	29	30	34	35	
	Med-High	-	26	27	28	32	31	31	
	Med	21/25*1	25	25	27	30	29	29	
	Med-Low	-	24	24	26	28	27	27	
	Low	20/22*1	22	22	24	25	25	24	
	Quiet	-	21	21	22	22	23	21	
Net 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)	17 (37)	18 (40)	18 (40)	22 (48)	26 (57)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)	mm	12.70	9.52	9.52	12.70	12.70	12.70	15.88
Drain hose diameter (I.D./O.D.)			25/32						

Note : Specifications are based on the following conditions.

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

Cooling T2 : Indoor temperature of 27°CDB / 19.5°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.

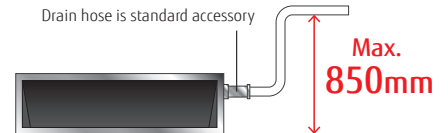
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

*1: This value is under cooling operation.

*:ARXD04GALH cannot be connected to J-IVS / J-IV / J-IVL / VR-IV Series.

Optional parts

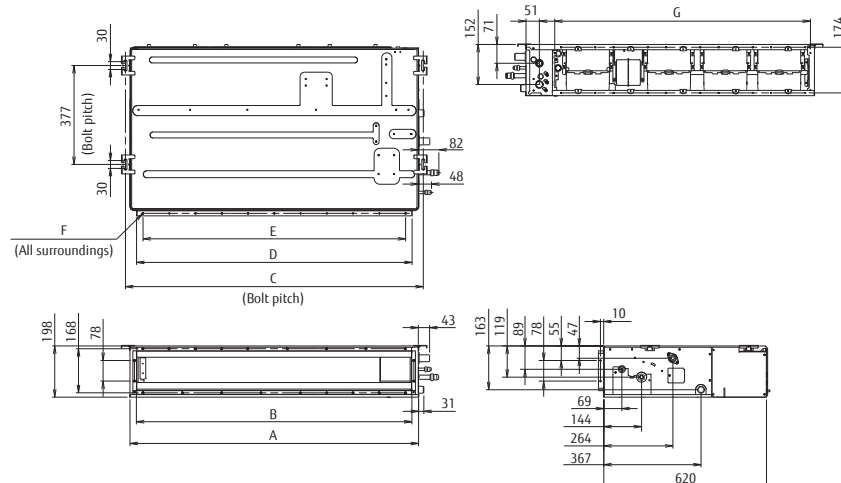
Remote Sensor Unit :	UTY-XSZX	Auto Louver Grille Kit: UTD-GXTA-W (04/007/009/012/014)
IR Receiver Unit :	UTB-YWC (004)	UTD-GXTB-W (018)
	UTY-TRHX (007/009/012/014/018/024)	UTD-GXTC-W (024)
External Power Supply Unit :	UTZ-GXXA	



Dimensions

(Unit : mm)

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



	ARXD04-014	ARXD018	ARXD024
A	700	900	1100
B	650	850	1050
C	734	934	1134
D	650	850	1050
E	P100×6=600	P100×8=800	P100×10=1000
F	18×Ø5	22×Ø5	26×Ø5
G	574	774	974

Low Static Pressure Duct



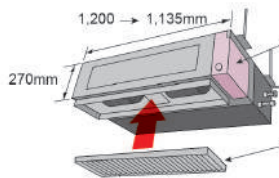
Large airflow volume

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



Slim & Compact design

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



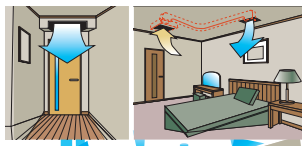
One touch operating and easy to install long life filter (Optional Parts)

Control box is now included as part of the main chassis



Flexible installation

Ceiling concealed

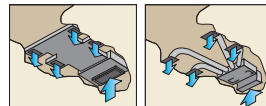


Floor concealed

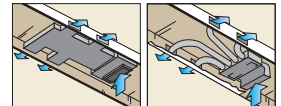


Installation styles

Embedded in Ceiling



Hanging from Ceiling





Specifications

Model name		ARXB24GALH	ARXB30GALH	ARXB36GALH	ARXB45GALH
Power source		Single phase, ~230V, 50Hz			
Capacity	Cooling	24,200	30,700	38,200	42,600
	Cooling T2	25,249	32,073	39,920	44,356
	Heating	27,200	34,100	42,600	47,700
Input power	W	145	198	253	338
Airflow rate	High	1,100 (306)	1,410 (392)	1,710 (457)	1,970 (547)
	Med	920 (256)	1,280 (356)	1,600 (444)	1,790 (497)
	Low	810 (225)	1,150 (319)	1,470 (408)	1,670 (464)
Static pressure range	Pa	0 to 80	0 to 80	0 to 80	0 to 80
Standard static pressure		40	50	50	60
Sound pressure level	High	31	34	37	41
	Med	27	32	35	38
	Low	25	29	33	36
Net Dimensions (H × W × D)	mm	270 × 1,135 × 700			
Weight	kg	39	42	42	42
Connection pipe diameter	Liquid (Flare)	9.52			
	Gas (Flare)	15.88	15.88	19.05	19.05
Drain hose diameter (I.D./O.D.)		25/32			

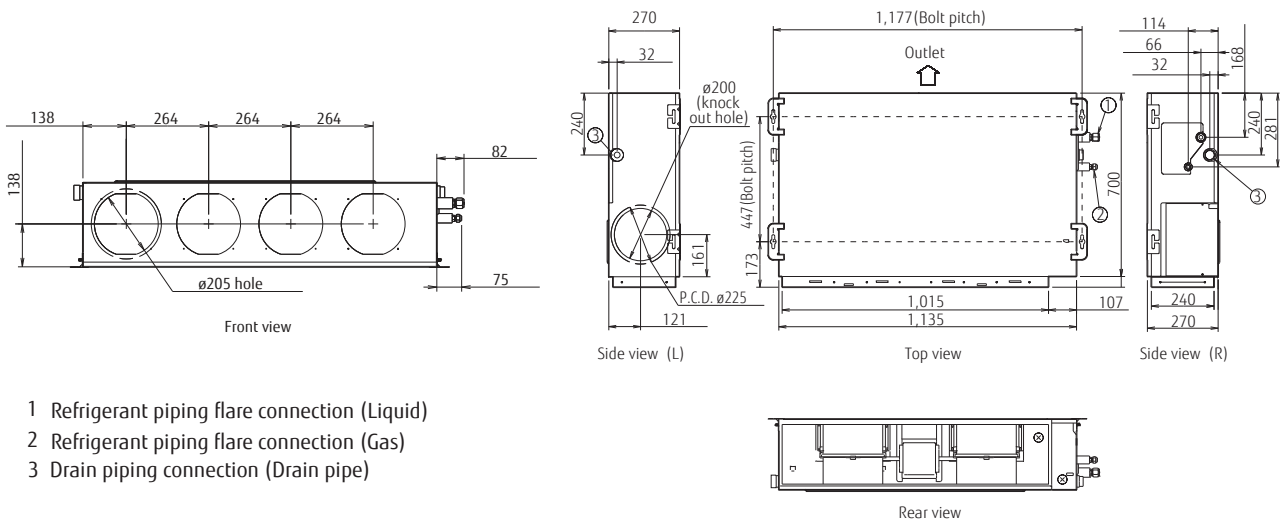
Note : Specifications are based on the following conditions.
 Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
 Cooling T2 : Indoor temperature of 27°CDB / 19.5°CWB, and outdoor temperature of 35°CDB / 24°CWB.
 Heating : Indoor temperature of 20°CDB / (15°CWB), 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].
 Low Static Pressure Duct Slim Duct High Efficiency can be connected to J-IVS / J-IV / J-IVL Series only.

Optional parts

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

Dimensions

(Unit : mm)
 Model : ARXB24GALH / ARXB30GALH / ARXB36GALH / ARXB45GALH

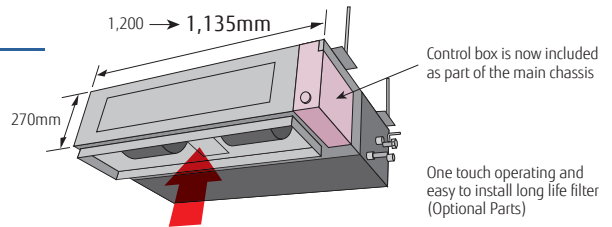


Medium Static Pressure Duct



Slim & Compact design

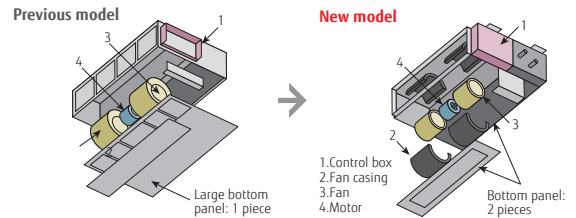
The slim and compact design of the indoor unit, with the control box mounted on the side of the unit, allows installation in narrow spaces.



Easy maintenance

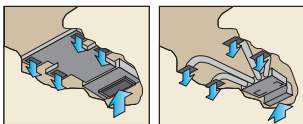
Structural improvement has been developed by making the bottom panel two pieces, front and rear. The internal fan casing is also manufactured in two pieces, namely upper and lower. The maintenance of the motor and fan can be easily carried out by removing the rear panel and the lower part of the casing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

See below for the case of rear suction type

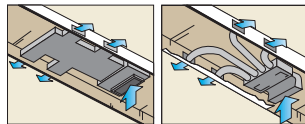


Installation styles

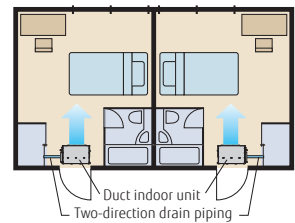
Embedded in Ceiling



Hanging from Ceiling

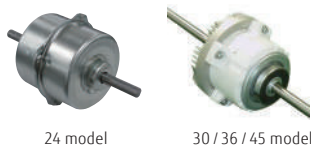


Two-direction drain piping



Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.



Selectable with a wide range of static pressure

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

Static pressure range
0 to 150Pa



Specifications

Model name		ARXA24GBLH	ARXA30GBLH	ARXA36GBLH	ARXA45GBLH
Power source		Single phase, ~230V, 50Hz			
Capacity	Cooling	24,200	30,700	38,200	42,700
	Cooling T2	25,249	32,073	39,920	44,456
	Heating	27,300	34,100	42,700	47,800
Input power	W	94	108	194	240
Airflow rate	High	1,280	1,410	1,840	1,970
	Med	990	1,280	1,600	1,860
	Low	840	1,150	1,470	1,640
Static pressure range		Pa			
Standard static pressure		0 to 150	0 to 150	0 to 150	0 to 150
Sound pressure level	High	40	50	50	60
	Med	31	34	37	41
	Low	27	32	35	38
Net Dimensions (H × W × D)		mm		270 × 1,135 × 700	270 × 1,135 × 700
Weight		kg		36	40
Connection pipe diameter	Liquid (Flare)	mm		9.52	9.52
	Gas (Flare)	mm		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.
 Cooling T2 : Indoor temperature of 27°CDB / 19.5°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].

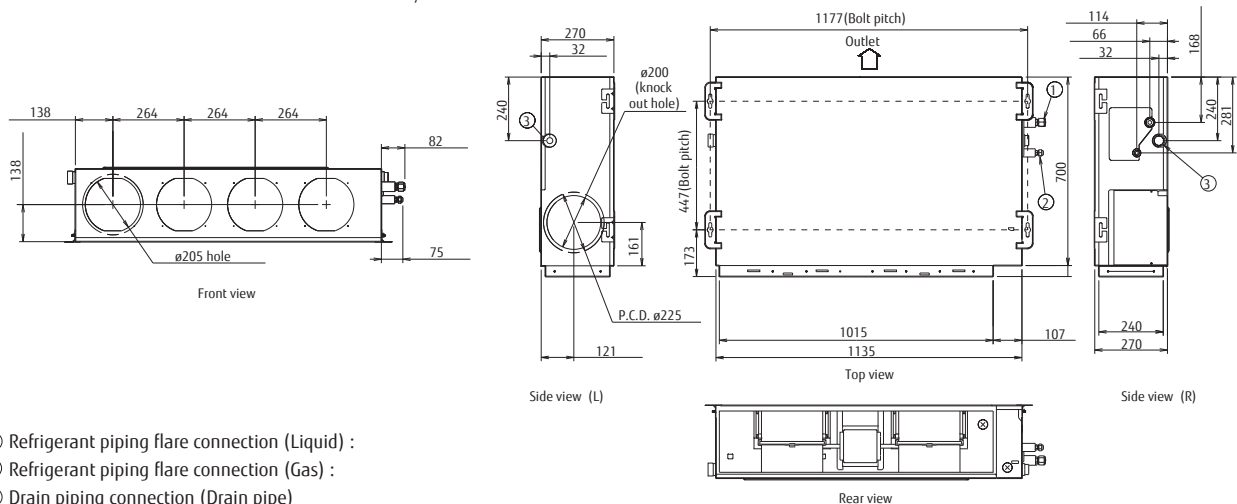
Optional parts

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

Dimensions

(Unit : mm)

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



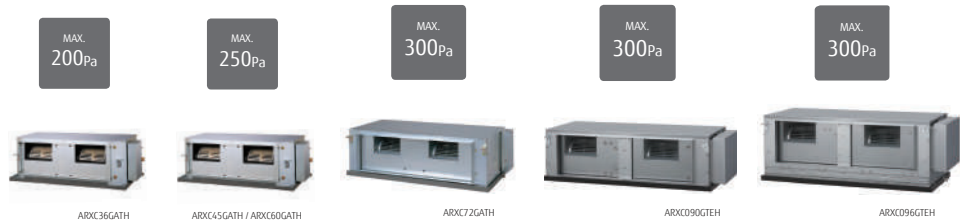
- ① Refrigerant piping flare connection (Liquid) :
- ② Refrigerant piping flare connection (Gas) :
- ③ Drain piping connection (Drain pipe)

High Static Pressure Duct



Static pressure selection

By using DC fan motor, it is possible to change static pressure range from 0 to 200Pa (ARXC036) / 300Pa (ARXC072 / 090 / 096).



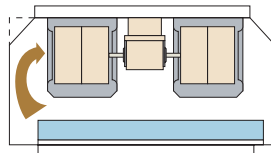
Easy installation (Compact size & Lightweight)

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

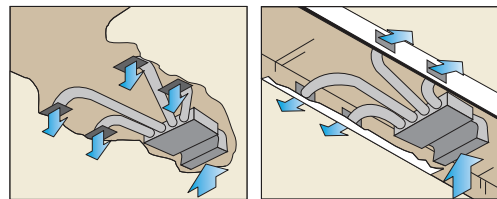


Low noise

Models : ARXC 36 / 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



Low energy consumption by high efficiency DC fan motor

Improved motor efficiency from previous model.



(090 / 096 type)

**Model : ARXC36GATH / ARXC45GATH / ARXC60GATH / ARXC72GATH
ARXC090GTEH / ARXC096GTEH**



ARXC36GATH / ARXC45GATH / ARXC60GATH



ARXC72GATH



ARXC090GTEH



ARXC096GTEH

Specifications

Model name		ARXC36GATH	ARXC45GATH	ARXC60GATH*	ARXC72GATH*	ARXC090GTEH*	ARXC096GTEH*	
Power source		Single phase, ~230V, 50Hz						
Capacity	Cooling	38,200	42,700	61,400	76,400	85,300	95,500	
	Cooling T2	39,920	44,456	64,146	79,841	89,053	99,630	
	Heating	42,700	47,800	68,200	85,300	95,500	107,500	
Input power		W	405	715	730	1,110	819	838
Airflow rate	High	2,600	3,500	3,500	3,900	4,300	4,850	
	Med	1,950	3,000	3,000	3,300	4,000	4,250	
	Low	1,450	2,460	2,460	3,000	3,500	3,600	
Static pressure range		Pa	100 to 200	100 to 250	100 to 250	50 to 300	0 to 300	
Standard static pressure		Pa	100	100	100	260	150	
Sound pressure level	High	45	49	49	51	48	48	
	Med	38	45	45	48	46	45	
	Low	32	42	42	45	44	42	
Net Dimensions (H × W × D)		mm	400 × 1,050 × 500	400 × 1,050 × 500	400 × 1,050 × 500	450 × 1,550 × 700	450 × 1,587 × 700	550 × 1,587 × 700
Weight		kg(lbs)	43 (88)	46 (101)	46 (101)	83 (183)	84 (185)	105 (231)
Connection pipe diameter	Liquid	mm	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	12.70 (Brazing)	9.52 (Flare)	9.52 (Brazing)
	Gas	mm	19.05 (Flare)	19.05 (Flare)	19.05 (Flare)	22.22 (Brazing)	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.
Cooling T2 : Indoor temperature of 27°CDB / 19.5°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

*: ARXC60/072/090/096G cannot be connected to J-IVJ-IVS Series.

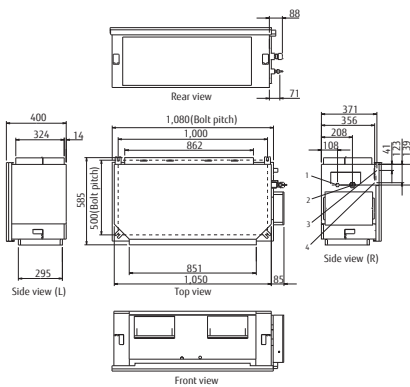
Optional parts

- Long-Life Filter : UTD-LF60KA (36/45/60)
- IR Receiver Unit : UTB-YWC (36/45/60/72)
UTY-TRHX (90/96)
- External Power Supply Unit : UTZ-GXXA (90/96)
- Wireless LAN Interface : UTY-TFSXZ1 (90/96)
- Remote Sensor Unit : UTY-XSZX

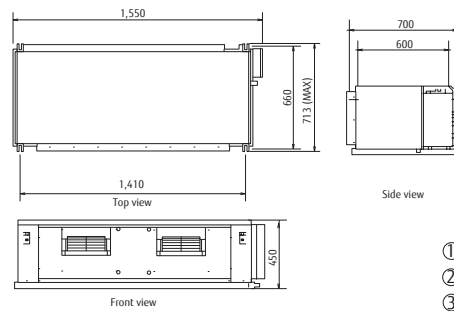
Dimensions

(Unit : mm)

Models: ARXC36 / ARXC45 / ARXC60

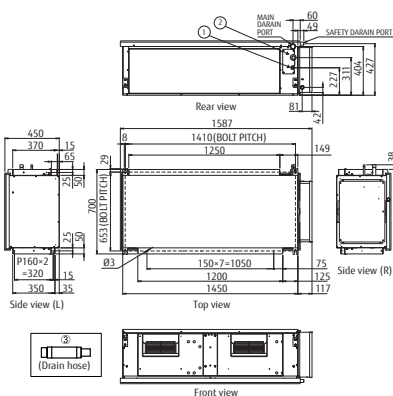


Model: ARXC72

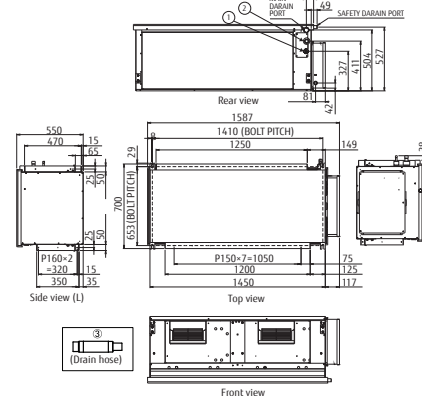


- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection (safety drain pan)
- ④ Drain piping connection (Main drain pan)

Model: ARXC090



Model: ARXC096



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

Floor / Ceiling



Flexible installation

Example for floor installation
Floor console



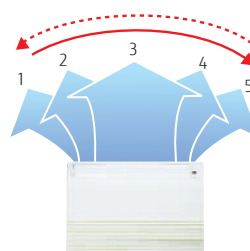
Example for ceiling installation
Under ceiling



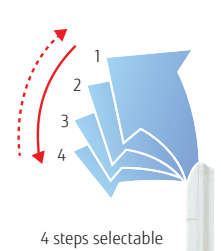
Double auto swing

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

RIGHT and LEFT SWING



UP and DOWN SWING



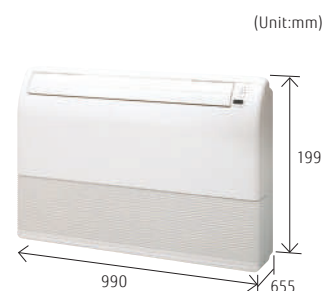
High power DC fan motor

- High power
- Wide rotation range
- High efficiency



Compact design

Symmetrical, slim and compact design.



Model : ABYA12GATH / ABYA14GATH / ABYA18GATH / ABYA24GATH



Floor standing



Specifications

Model name		ABYA12GATH	ABYA14GATH	ABYA18GATH	ABYA24GATH
Power source		Single phase, ~230V, 50Hz			
Capacity	Cooling	12,300	15,400	19,100	24,200
	Cooling T2	12,966	16,036	19,790	25,249
	Heating	13,600	17,000	21,500	27,200
Input power	W	30	42	74	99
Airflow rate	High	660 (183)	780 (216)	1,000 (277)	1,000 (277)
	Med	570 (158)	640 (177)	720 (199)	820 (227)
	Low	490 (136)	550 (152)	580 (161)	680 (188)
Sound pressure level	High	36	40	46	47
	Med	32	36	39	42
	Low	28	34	35	37
Net 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 (60)
Connection pipe diameter	Liquid (Flare)	6.35	6.35	9.52	9.52
	Gas (Flare)	12.70	12.70	15.88	15.88
Drain hose diameter (I.D./O.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.

Cooling T2 : 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].

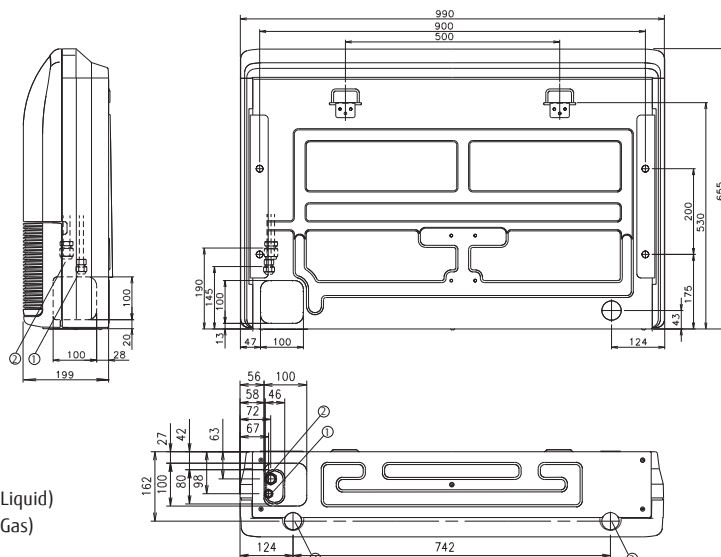
Optional parts

External Power Supply Unit : UTZ-GXXA

Wireless LAN Interface : UTY-TFSXZ1

Dimensions

(Unit : mm)



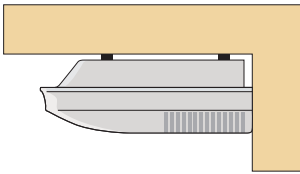
- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection

Ceiling



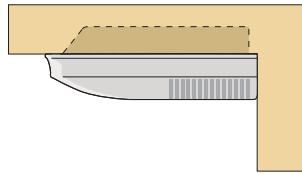
Installation

Open



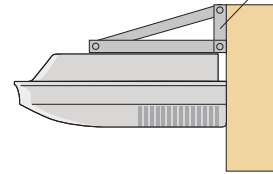
General installation pattern which suspends the indoor unit from the ceiling.

Concealed



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

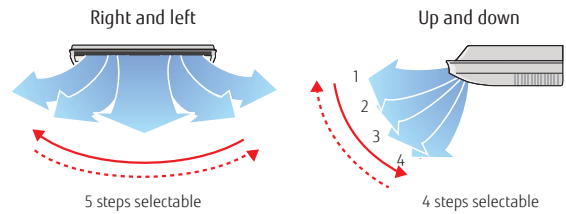
Wall mounted (Field Supplied)



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

Double auto swing and wide airflow

Auto airflow direction and auto swing



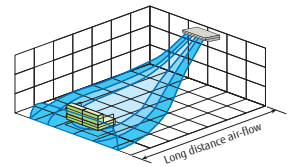
High power DC fan motor

- High power
- Wide rotation range
- High efficiency

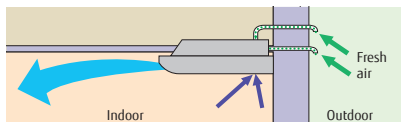


Long airflow

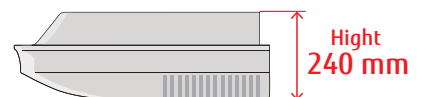
Long Airflow ensures comfort to every corner of a large room.



Fresh air intake



Slim & Compact design





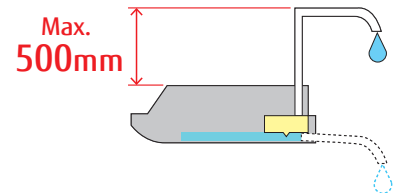
Specifications

Model name		ABYA30GATH	ABYA36GATH	ABYA45GATH	ABYA54GATH
Power source		Single phase, ~230V, 50Hz			
Capacity	Cooling	30,700	38,200	42,600	47,800
	Cooling T2	32,073	39,920	44,356	49,815
	Heating	34,100	42,600	47,700	54,500
Input power	BTU/h				
	W	66	85	131	180
Airflow rate	High	1,630 (452)	1,690 (469)	2,010 (558)	2,270 (629)
	Med	1,370 (379)	1,400 (389)	1,600 (444)	1,780 (493)
	Low	1,140 (316)	1,170 (325)	1,230 (342)	1,280 (355)
Sound pressure level	High	42	45	48	51
	Med	38	38	42	45
	Low	33	34	35	36
Net Dimensions (H × W × D)		mm 240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700	240 × 1,660 × 700
Weight		kg 46	48	48	48
Connection pipe diameter	Liquid (Flare)	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.
 Cooling T2 : 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].

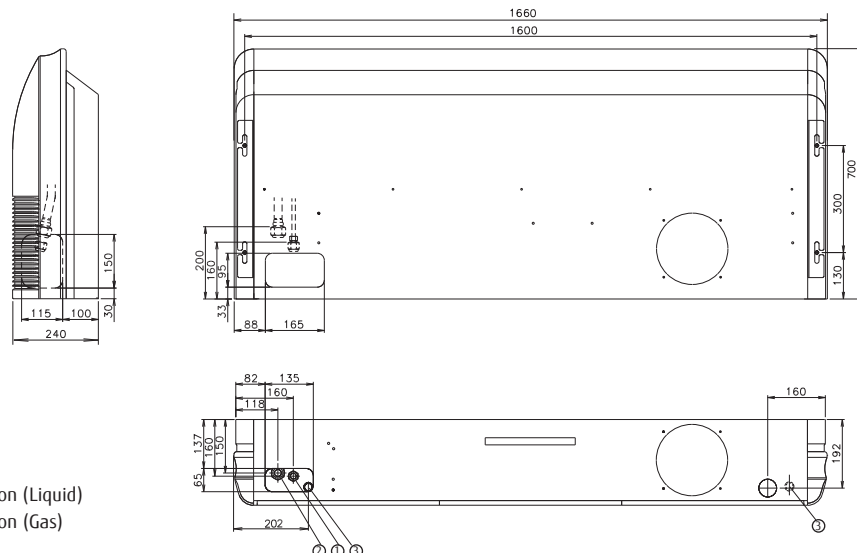
Optional parts

- Drain Pump Unit : UTR-DPB24T
- Flange : UTD-RF204
- External Power Supply Unit : UTZ-GXXA
- Wireless LAN Interface : UTY-TFSXZ1



Dimensions

(Unit : mm)



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

Wall Mounted



Compact size

Powerful output even compact design

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

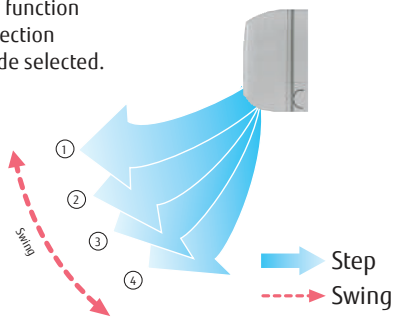


Width
790 mm

790mm

Auto swing louver

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



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.

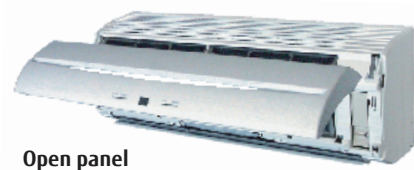
High power DC fan motor

- 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



Specifications

Model name		ASYA07GACH	ASYA09GACH	ASYA12GACH	ASYA14GACH	
Power source		Single - phase, ~230V, 50Hz				
Capacity	Cooling	7,500	9,600	12,300	15,400	
	Cooling T2	7,848	9,895	12,966	16,036	
	Heating	9,600	10,900	14,000	17,100	
Input power		W	17	18	22	34
Airflow rate	High	m ³ /h	490	500	560	670
	Med	450	450	480	490	
	Low	370/420*	370/420*	420	420	
Sound pressure level	High	dB (A)	35	36	39	44
	Med	33	33	35	37	
	Low	27/31*	27/31*	31	32	
Dimensions (H × W × D)		mm	275 × 790 × 215	275 × 790 × 215	275 × 790 × 215	275 × 790 × 215
Weight		kg	9	9	9	9
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35
	Gas (Flare)	12.70	12.70	12.70	12.70	
Drain hose diameter (I.D./O.D.)			13.8 / 15.8 to 16.7			

Note : Specifications are based on the following conditions.

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

Cooling T2 : Indoor temperature of 27°CDB / 19.5°CWB, and outdoor temperature of 35°CDB / 24°CWB.

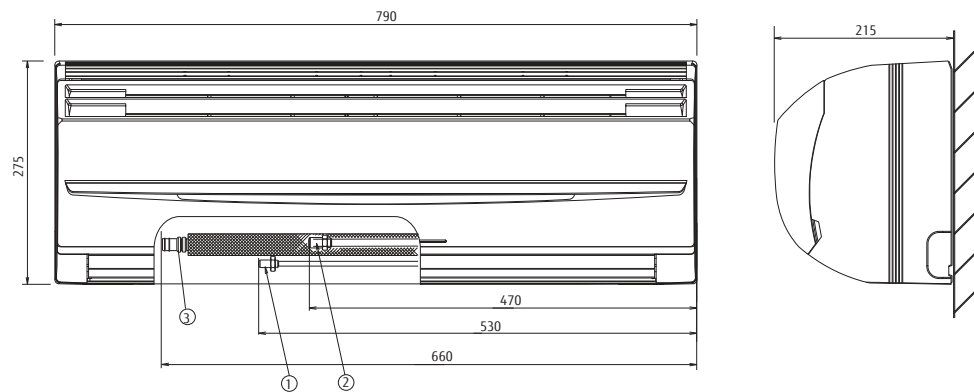
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

*: This value is under cooling operation.

Dimensions

(Unit : mm)



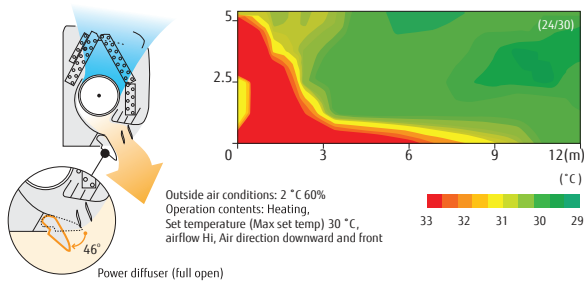
- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection

Wall Mounted

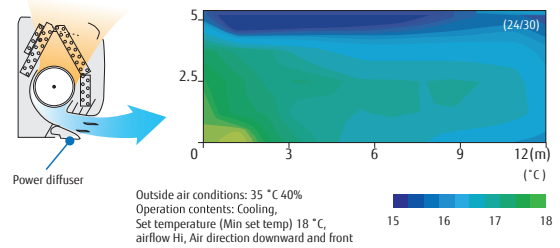


More comfort airflow by adopting power diffuser

“Vertical airflow” provides powerful floor level heating



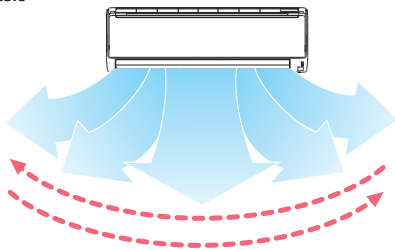
“Horizontal airflow” does not blow cool air directly at the occupants in the room



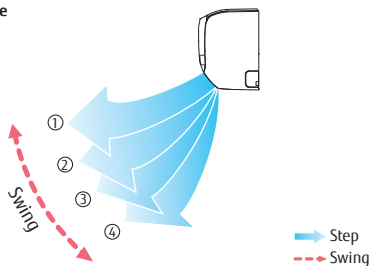
Double auto swing

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

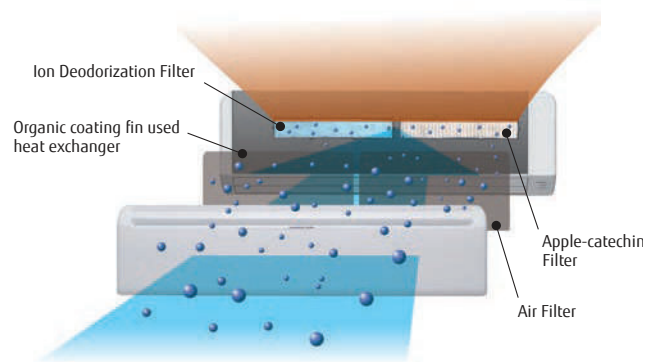
5 steps selectable



4 steps selectable



Air conditioner filter features



High quality air conditioning by incorporation of high performance filter.



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



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



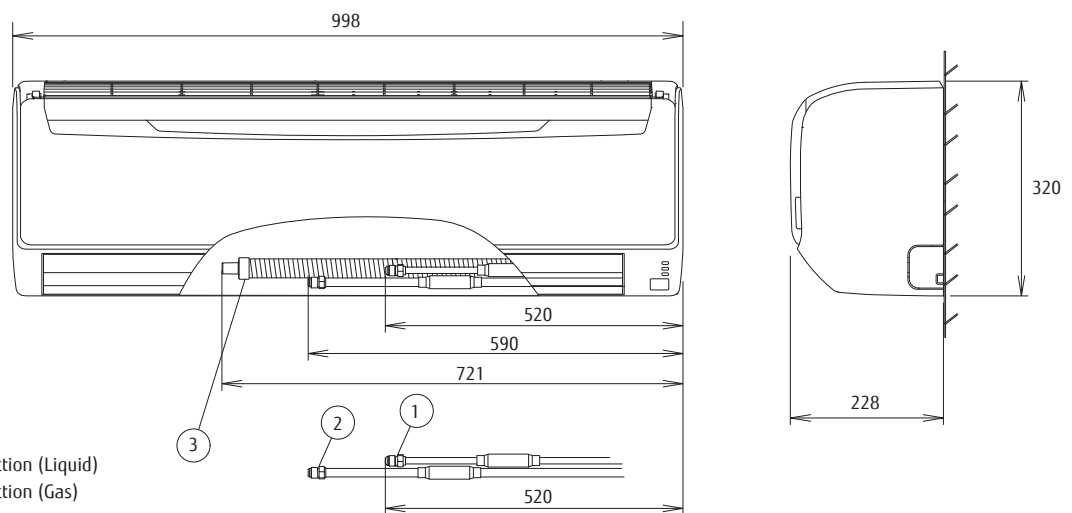
Specifications

Model name		ASYA18GACH	ASYA24GACH	ASYA30GACH
Power source		Single - phase, ~230V, 50Hz		
Capacity	Cooling	19,100	24,200	27,300
	Cooling T2	19,790	25,249	28,320
	Heating	21,500	27,300	30,700
Input power		32	60	91
Airflow rate	High	840	1100	1240
	Med	770	910	980
	Low	690	730	770
Sound pressure level	High	41	48	52
	Med	39	43	45
	Low	35	35	35
Dimensions (H × W × D)	mm	320 × 998 × 228	320 × 998 × 228	320 × 998 × 228
Weight	kg	15	15	15
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.)		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.
 Cooling T2 : Indoor temperature of 27°CDB / 19.5°CWB, and outdoor temperature of 35°CDB / 24°CWB.
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
 Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Dimensions

(Unit : mm)



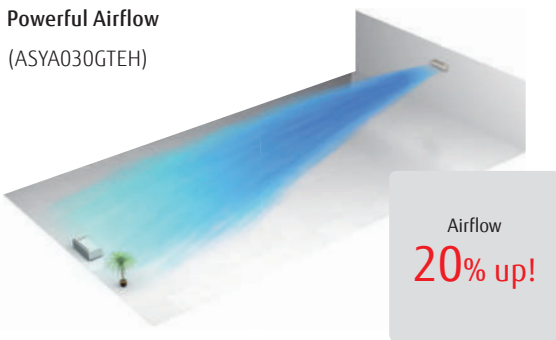
- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection

Wall Mounted

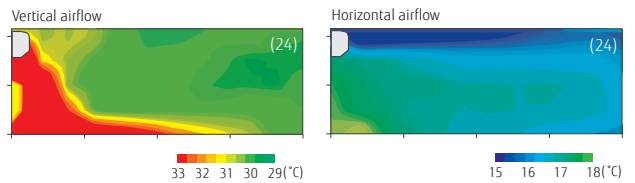


Powerful & Comfort airflow

Powerful Airflow
(ASYA030GTEH)

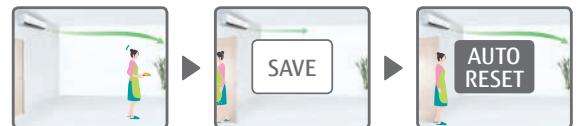


Power diffuser
(ASYA18/24GBCH)



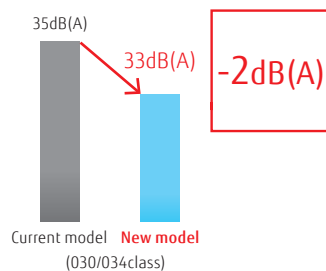
Human sensor (ASYA030/034GTEH only)

A human sensor senses the movement of humans to reduce operation when one is in the room. the energy consumption is reduced automatically to keep down electricity bills.
(Available to wired remote controller as UTY-RNRYZ3)



Quiet operation & 6 Fan speed control

Drastic low noise is achieved by new airflow structure. In addition, multistep quiet operation is available by 6-step sound level settings.



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



* Compatible Remote Controller is as follows:
UTY-RNRYZ3/UTY-RLRY/UTY-RSRV/UTY-RHRV/UTY-DCGYZ1/UTY-ALGXZ1/UTY-APGXZ1

Model : ASYA18GBCH / ASYA24GBCH
ASYA030GTEH / ASYA034GTEH



ASYA18/24GBCH



ASYA030/034GTEH

Specifications

Model name		ASYA18GBCH	ASYA24GBCH	ASYA030GTEH	ASYA034GTEH
Power source		Single phase, ~230V, 50Hz			Single phase, ~230V, 50Hz
Capacity	Cooling	19,100	24,200	30,700	34,100
	Cooling T2	19,790	25,249	32,073	35,485
	Heating	21,500	27,300	34,100	38,200
Input power		W	32	60	74
Airflow rate	High	840	1,100	1,440	1,620 / 1,520
	Med-High	-	-	1,200	1,300
	Med	770	910	1,050	1,120
	Med-Low	-	-	940	980
	Low	690	730	890	890
	Quiet	-	-	700	700
Sound pressure level	High	41	48	53	55 / 54
	Med-High	-	-	49	51
	Med	39	43	45	47
	Med-Low	-	-	42	43
	Low	35	35	39	39
	Quiet	-	-	33	33
Net Dimensions (H × W × D)		mm	320 × 998 × 238	320 × 998 × 238	340 × 1,150 × 280
Weight		kg(lbs)	15 (33)	15 (33)	18 (40)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52	9.52
	Gas (Flare)	mm	12.70	15.88	15.88
Drain hose diameter (I.D./O.D.)			12/16		13.8/15.8 to16.7

Note : Specifications are based on the following conditions.

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

Cooling T2 : Indoor temperature of 27°CDB / 19.5°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 ASYA18GBCH is connected to the outdoor unit other than J-IVL, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas).

Optional parts

External Power Supply Unit : UTZ-GXXA (030/034)

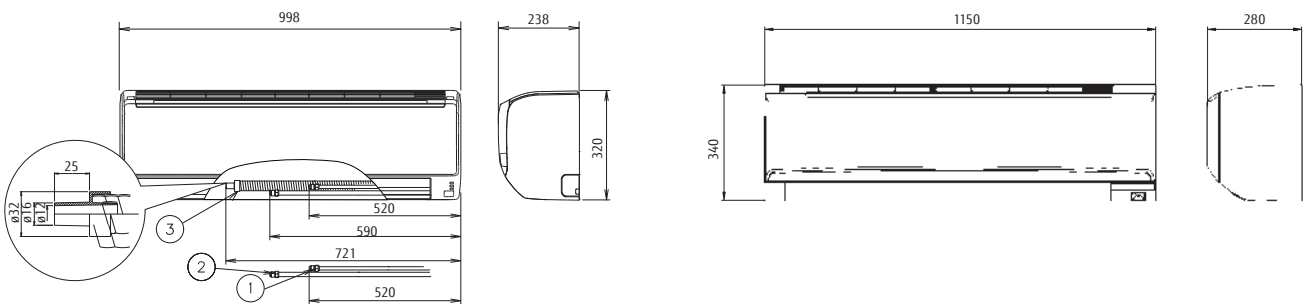
Wireless LAN Interface : UTY-TFSXZ1 (030/034)

Dimensions

(Unit : mm)

Models: ASYA18 / ASYA24

Models: ASYA030 / ASYA034














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

Residential, Commercial & Light Commercial VENTILATION

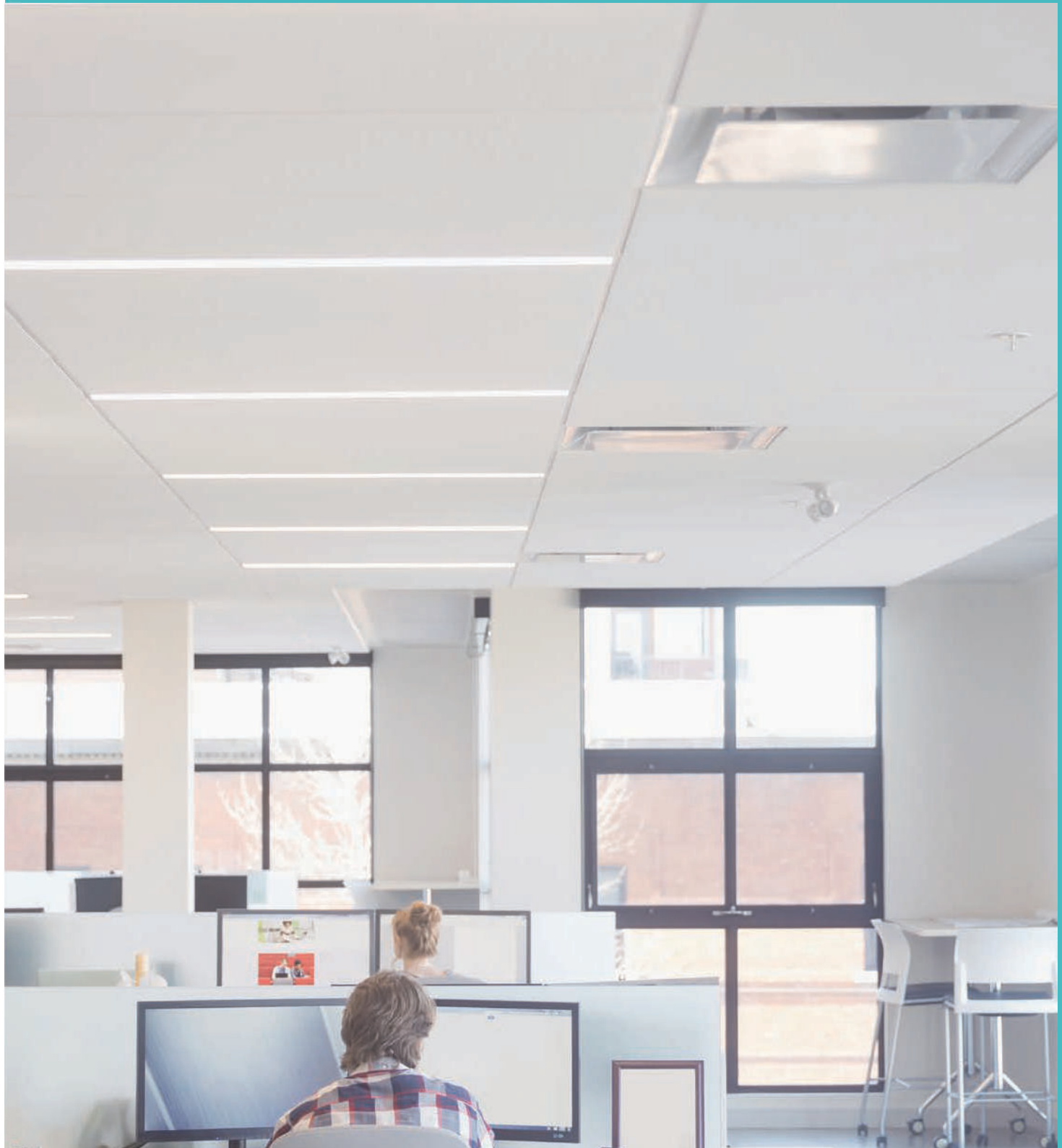
Vn-003 Outdoor Air Unit
 Vn-005 DX-Kit for Air Handling Application
 • for VRF Outdoor Unit



Airflow rate (CMH)	1080			1680			2100			
Connectable capacity class (kW)	14.0			22.4			28.0			
Outdoor Air Unit	 ARXH054			 ARXH072			 ARXH096			
Connectable capacity class (kW)	5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0
DX-Kit for Air Handling Applications for VRF Outdoor Unit	 EEV unit UTP-VX30A	 Control unit UTY-VDGX	 EEV unit UTP-VX60A	 Control unit UTY-VDGX	 EEV unit UTP-VX90A	 Control unit UTY-VDGX	 EEV unit UTP-VX90A×2	 Control unit UTY-VDGX		

Effective heat exchange and simultaneous fresh air ventilation

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



Outdoor Air Unit Production by order

Models

ARXH054GTAH
ARXH072GTAH
ARXH096GTAH

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



ARXH054GTAH



ARXH072GTAH

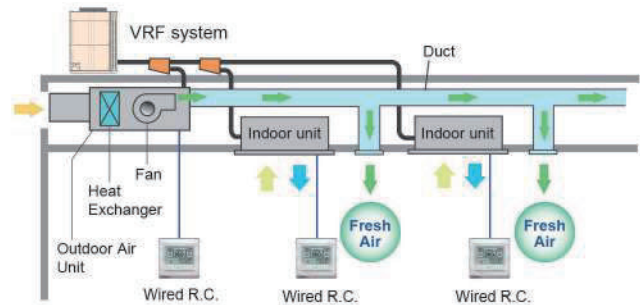
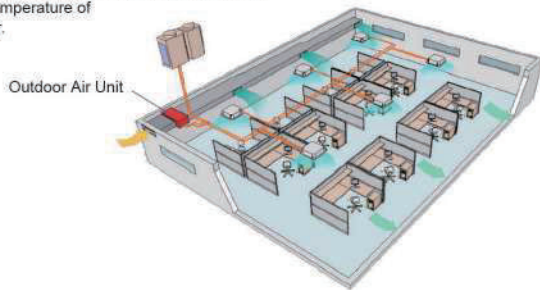


ARXH096GTAH

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

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

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



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

Specifications

(Tentative)

Rated flow rate			1000 m ³ /h	1500 m ³ /h	2000 m ³ /h
Model No.			ARXH054GTAH	ARXH072GTAH	ARXH096GTAH
Power source			230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	14.0	22.4	28.0
	Heating		8.9	13.9	17.4
Input Power	Cooling / Heating	W	179	292	370
Airflow Rate		m ³ /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 x W x D)		mm	425×1,367×572	425×1,367×572	450×1,583×700
Weight		kg	48	55	71
Connection Pipe Diameter (Small / Large)		mm	Ø9.52/Ø19.05	Ø12.70/Ø22.22	Ø12.70/Ø22.22
Operation Range	Cooling	°CDB	5 to 43	5 to 43	5 to 43
	Heating		-7 to 21	-7 to 21	-7 to 21
Refrigerant			R410A	R410A	R410A

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

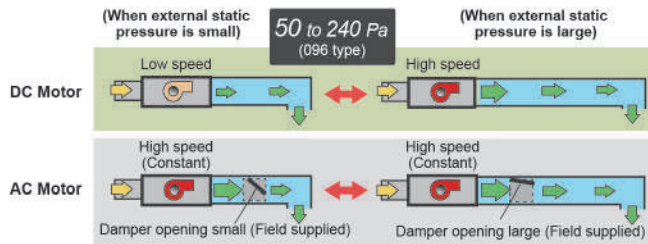
High energy savings and flexible duct design by using DC motor

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



054 / 072 type 096 type

- 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.



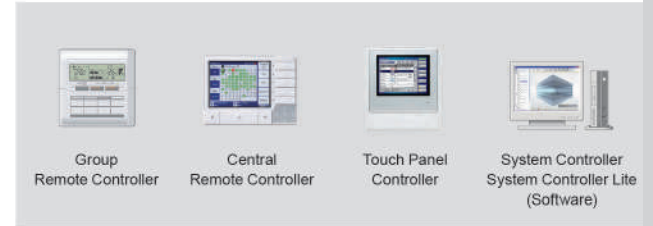
Various Controller

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

Individual Controller



Central Controller

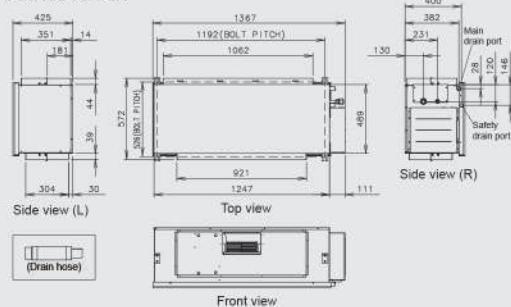


* The temperature setting is discharged air temperature setting. The air volume is set to a constant speed.

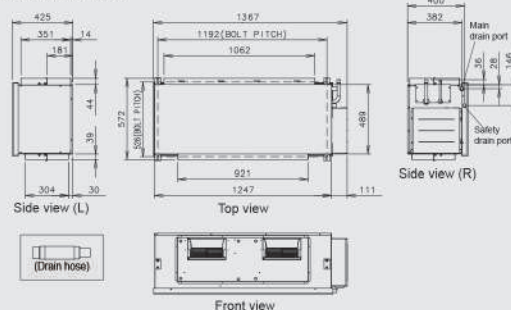
Dimensions (Unit : mm)

Models: ARXH054GTAH / ARXH072GTAH / ARXH096GTAH

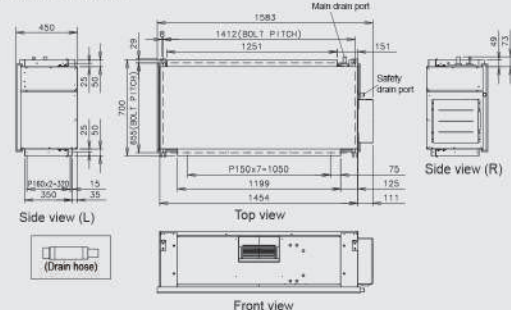
ARXH054GTAH



ARXH072GTAH



ARXH096GTAH

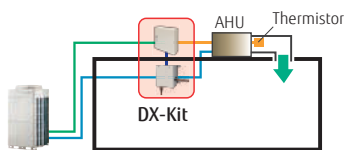


DX-Kit for Air Handling Application for VRF Outdoor Unit

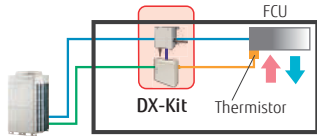


These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or, be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).

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

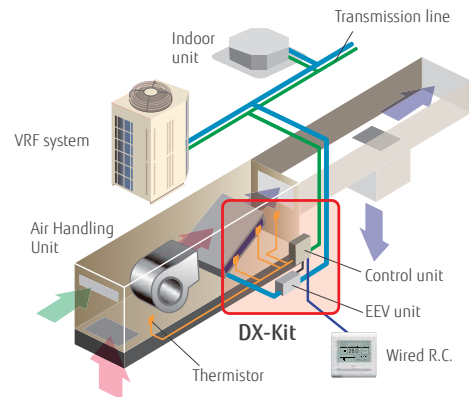


When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.



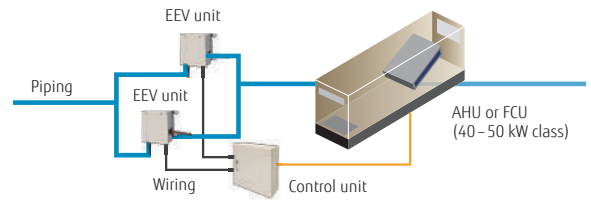
When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

Arrangement as part of a VRF system



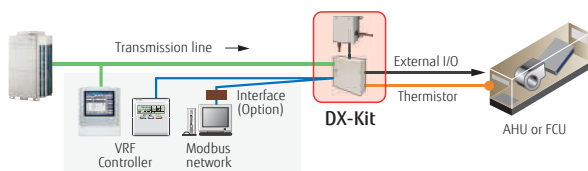
Supports a wide range of capacity classes

- 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

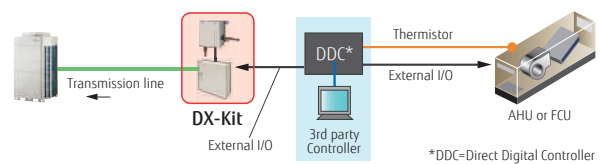


A variety of controls to match the application

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

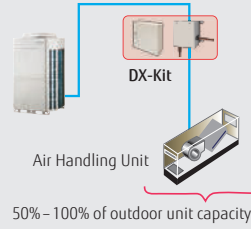
Possible to control via a MODBUS enabled BMS by using optional interface.

Installation Limitation

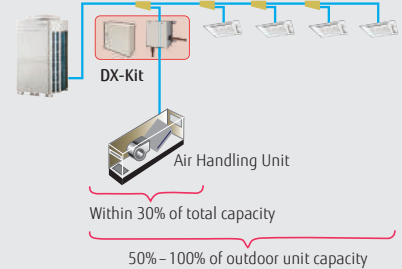
- Connectable VRF series: All VRF series
- Connectable DX-Kit system capacity range: 50 to 100% of the outdoor unit capacity
- Connectable DX-Kit system capacity range with indoor units: 30% or less of the outdoor unit capacity
- Max. wiring length from control unit: 10 m
- Max. piping length between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

Connectable capacity

• Single connection



• Mixed connection

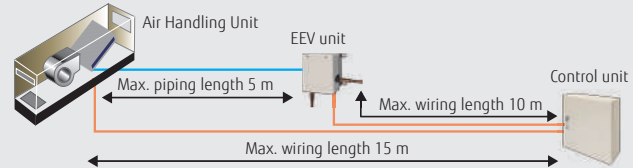


For 2 EEV units connection (option)

Separation Tube: UTP-LX180A

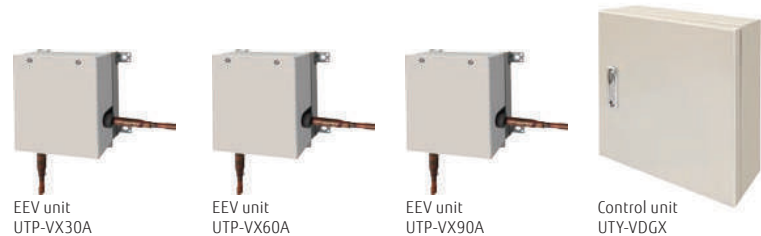


Piping and wiring length



Control unit: UTY-VDGX

EEV unit: UTP-VX30A / UTP-VX60A / UTP-VX90A



Specifications

Connectable Capacity class		5.0 kW	6.3 kW	8.0 kW	10.0 kW	12.5 kW	14.0 kW	20.0 kW	25.0 kW	40.0 kW	50.0 kW
Capacity	Cooling	5.6	6.3	8.0	10.0	12.5	14.0	22.4	25.0	40.0	50.4
	Heating	6.3	7.1	9.0	11.2	14.0	16.0	25.0	28.0	45.0	56.5
Control unit		UTY-VDGX									
Power source	V/Ø/Hz	230/1/50									
Dimensions (H × W × D)	mm	400 × 400 × 120									
EEV unit		UTP-VX30A		UTP-VX60A		UTP-VX90A		UTP-VX90A×2			
Connection pipe diameter (Liquid)	mm	Ø9.53		Ø12.70		Ø12.70		Ø12.70			
Dimensions (H × W × D)	mm	160 × 220 × 90									

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].

Light Commercial & Commercial, Residential CONTROL SYSTEM & OPTIONAL PARTS

- C-002 Control System Overview
- C-006 Best Control Solution for Each Property
- C-008 Comparison Table of Controllers
- C-054 Optional Parts Overview

Wide product lineup to meet a variety of needs

We can flexibly meet customer needs through a variety of offerings including wired and wireless individual remote controllers, central remote controllers that simultaneously control multiple indoor units, and a variety of convertors that link with other systems.

CONTROL SYSTEM



INDIVIDUAL CONTROL

- C-010 Wired Remote Controller (Touch Panel)
- C-012 Wired Remote Controller Compact Wired Remote Controller
- C-013 Simple Remote Controller

CONVERTOR/ADAPTOR

- C-014 Wireless LAN Interface
- C-015 MODBUS® Convertor KNX® Convertor
- C-016 MODBUS® Interface
- C-017 KNX® Interface
- C-018 Wireless LAN Interface
- C-019 Multi Protocol Wireless LAN Interfaces
- C-020 BACnet® Gateway External Switch Controller



INDIVIDUAL CONTROL

- C-021 Wired Remote Controller
- C-022 Wireless Remote Controller
- C-023 IR Receiver Unit

CENTRALIZED CONTROL

- C-024 Central Remote Controller

CONVERTOR/ADAPTOR

- C-025 Network Convertor for Single Split



INDIVIDUAL CONTROL

- C-026 Wireless Remote Controller IR Receiver Unit For Duct, Cassette

CENTRALIZED CONTROL

- C-028 Central Remote Controller
- C-030 Touch Panel Controller
- C-034 System Controller Software System Controller Lite Software

CONVERTOR/ADAPTOR

- C-038 BACnet® Gateway Software
- C-039 BACnet® Gateway Hardware Multi Protocol LAN Interfaces
- C-040 BACnet® / MODBUS® Router
- C-041 BACnet® / MODBUS® Cloud device
- C-042 MODBUS® Convertor
- C-043 KNX® Convertor
- C-044 Signal Amplifier Network Convertor for LONWORKS®

-
- C-046 Control System List

OPTIONAL PARTS



- C-056 Silver Ion Filter
- C-057 Auto Louver Grille Kit



- C-058 Pressure Sensor Kit
- C-059 External Power Supply Unit

-
- C-059 AIR BEAM Radiation Air Outlet Unit
 - C-060 Optional Parts List
 - C-064 Function List
 - C-068 Separation Tube etc.



SPLIT



MULTI-SPLIT



VRF J Series



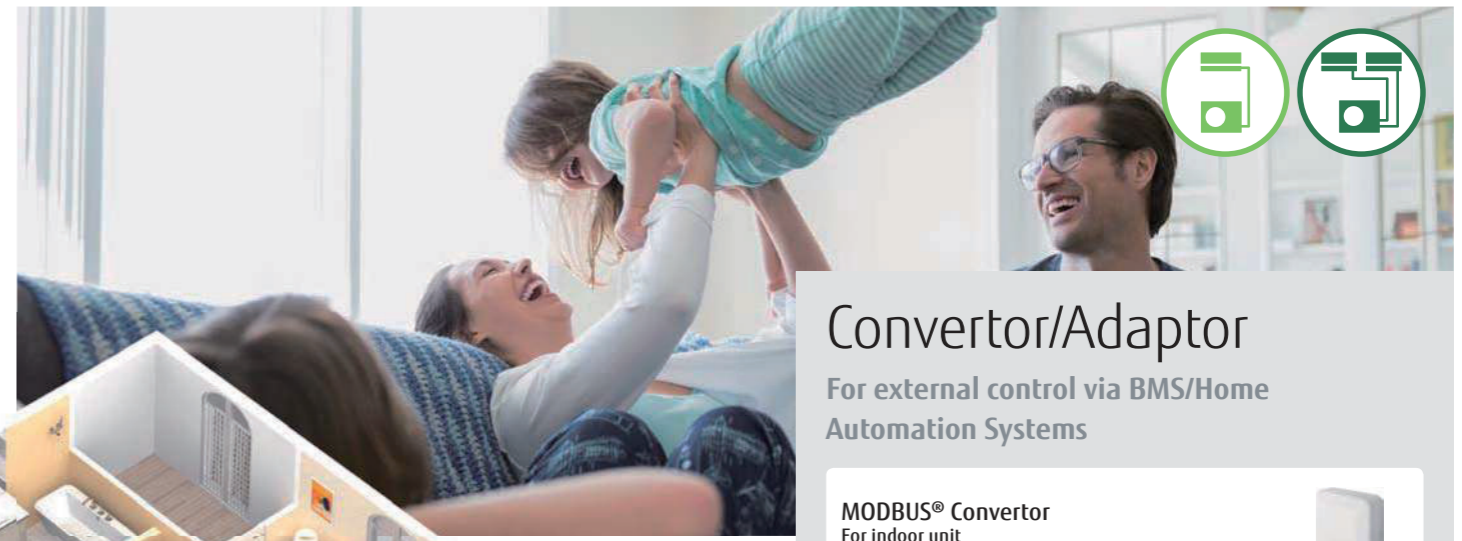
VRF V Series

Control System Overview

For Split & Multi-split

All indoor units* are provided with wireless or wired remote controllers as standard equipment. Other options, such as individual and central remote controllers, are also available. The easy-to-operate central remote controller makes it simple to control the operation mode, temperature, airflow volume, timer, and other functions of each indoor unit from a single location.

*: Except for some products



Air Conditioning Individual Control



Wired Remote Controller
The room temperature can be controlled by detecting the temperature accurately from the built-in sensor



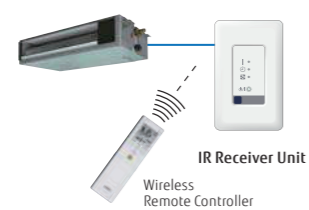
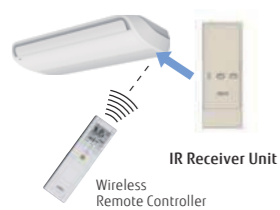
Wireless Remote Controller
Simple and sophisticated operations with a choice of 4 daily timers



Simple Remote Controller
Compact remote controller provides access to basic functions

For Ceiling type

For Duct type



For Cassette type

IR Receiver Unit



Necessary to control for all duct type by Wireless Remote Controller

Air Conditioning Centralized Control



Central Remote Controller For 5-6 & 8 Rooms Multi
Central Remote Controller allows individual and central control

Converter/Adaptor

For external control via BMS/Home Automation Systems

MODBUS® Converter
For indoor unit
UTY-VMSX



MODBUS® Interface
For indoor unit



KNX® Converter
For indoor unit
UTY-VK SX



KNX® Interface
For indoor unit



Wireless LAN Interface



Network Converter

(DC power supply)
UTY-VTGX



(AC power supply)
UTY-VTGXV



Online Control (Wireless Control via Smart Phone/Tablet)

By using our Wireless LAN Interface and FGLair app, you can control your home's cooling and heating anytime and anywhere.

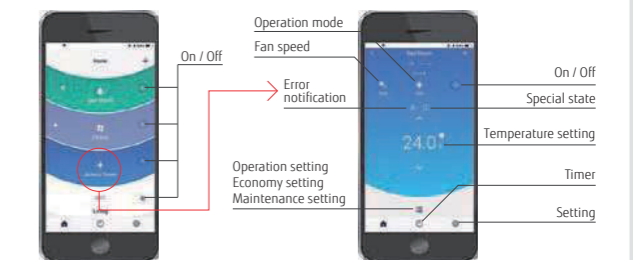
Wireless LAN Interface

The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.



Simple design and user friendly interface

The new design more user friendly screen display allows you to operate easier than ever before.



Control System Overview

For VRF

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-RNRYZ5

Wired Remote Controller
UTY-RLRY

Compact Wired Remote Controller
UTY-RCRYZ1

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

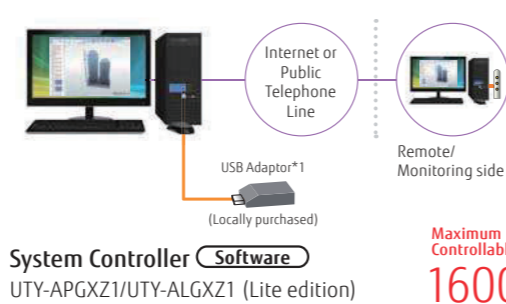
Wireless Remote Controller
UTY-LNHY

IR Receiver Unit
UTB-YWC For Duct

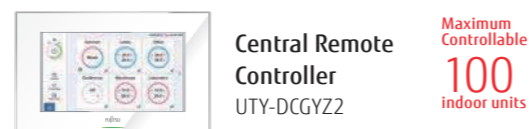
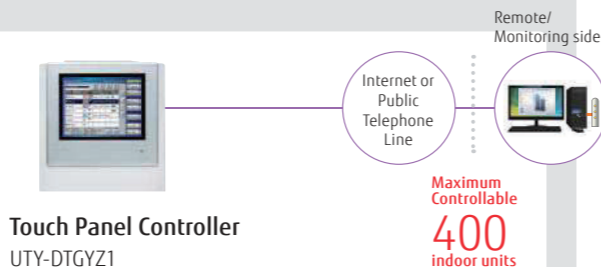
For Duct For 1-Way Flow Cassette/
3D Flow Cassette/Duct
UTY-TRHX
For 1-Way Flow Cassette
3D Flow Cassette/Duct

For Cassette For Circular Flow Cassette
UTY-LRHYB1 For Cassette
UTY-LBHXD
For Circular Flow Cassette

Air Conditioning Centralized Control



*1: USB Adaptor: Echelon® U10 USB Network Interface
*2: Lite edition is max. controllable 400 indoor units



Converter/Adaptor

For external control via BMS/Home Automation Systems

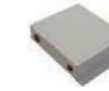
BACnet® Gateway (Software)
UTY-ABGXZ1



BACnet® Gateway (Hardware)



Network Converter (For LONWORKS®)
UTY-VLGX



MODBUS® Converter For indoor unit
UTY-VMSX



MODBUS® Converter



KNX® Converter For indoor unit
UTY-VKSX



KNX® Converter For VRF



Wireless LAN Interface
UTY-TFSXZ1



External Switch Controller
UTY-TERX



Card-key (Locally purchased)



BMS/BAS^{*3}



BMS, Home automation system^{*3}



*3: 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



Best Control Solution for Each Property

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

SHOP

Type	Individual Control	Centralized Control				Integrating Control (Interface)		
	Wired Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	Network Converter for LONWORKS®	MODBUS® Convertor	KNX® Convertor
	UTY-RNRYZ5, UTY-RLRY, UTY-RVNYM, UTY-RCRYZ1	UTY-CGGY	UTY-DCGYZ2	UTY-DTGYZ1	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	Touch Panel Controller	System Controller	BACnet® Gateway	Network Converter for LONWORKS®	MODBUS® Convertor	KNX® Convertor	External Switch Controller
	UTY-RNRYZ5, UTY-RLRY, UTY-RCRYZ1	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-LNHY, UTY-LNTY	UTY-DCGYZ2	UTY-DTGYZ1	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	Touch Panel Controller	System Controller	BACnet® Gateway	Network Converter for LONWORKS®	MODBUS® Convertor	KNX® Convertor	External Switch Controller
	UTY-RNRYZ5, UTY-RLRY, UTY-RCRYZ1	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-LNHY, UTY-LNTY	UTY-DCGYZ2	UTY-DTGYZ1	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				●							●

Comparison Table of Controllers

Item																
	Wired Remote Controller (Touch panel)	Wired Remote Controller	Wired Remote Controller	Compact Wired Remote Controller	Simple Remote Controller	Simple Remote Controller		Simple Remote Controller*	Wireless Remote Controller	Wireless Remote Controller	Central Remote Controller (For 8 rooms Multi)	Central Remote Controller	Touch Panel Controller	System Controller Lite <small>Software</small>	System Controller <small>Software</small>	
Model name	UTY-RNRYZ5	UTY-RLRY	UTY-RVNYM	UTY-RCRYZ1	UTY-RSNYM	UTY-RSRY		UTY-RHRY	UTY-LNHY	UTY-LNTY	UTY-DMMYM	UTY-DCGYZ2	UTY-DTGVZ1	UTY-ALGXZ1	UTY-APGXZ1	
Max. controllable remote controller groups	1	1	1	1	1	1		1	1	1	1	100	400	400	1600	
Max. controllable indoor units	16	16	16	1	16	16		16	16	16	8	100	400	400	1600	
Max. controllable groups	-	-	-	-	-	-		-	-	-	-	50	400	400	1600	
Air conditioning control function	On / Off	●	●	●	●	●		●	●	●	●	●	●	●	●	
	Operation mode setting	●	●	●	●	●		-	●	●	●	●	●	●	●	
	Fan speed setting	●	●	●	●	●		●	●	●	●	●	●	●	●	
	Room temp. setting	●	●	●	●	●		●	●	●	●	●	●	●	●	
	Room temp. set point limitation	●	●	●	-	-		●	-	-	-	●	●	●	●	
	Test operation	●	●	●	●	●		●	●	●	●	-	-	-	-	
	Up/down air direction flap setting	●	●	●	●	-		●	●	●	-	-	●	●	●	
	Right/left air direction flap setting	●	●	●	●	-		-	●	-	-	-	●	●	●	
	Individual louver control	●	-	-	●	-		-	-	-	-	-	●*3	●	-	
	Group setting	-	-	-	-	-		-	-	-	-	-	●	●	●	
	RC prohibition	-	-	-	-	-		-	-	-	-	●	●	●	●	
	Anti freeze setting	●	-	-	●	-		-	-	-	-	-	●	●	●	
	Set temp. auto return	●	●	●	-	-		-	-	-	-	-	-	●	-	
	Economy mode setting	●	●	●	●	-		-	●	●	●	●	●	●	●	
	Human sensor control	●	-	-	-	-		-	-	-	-	●	-	●	●	
Display	Error	●	●	●	●	●		●	-	-	●	●	●	●	●	
	Defrosting	●	●	●	●	●		●	-	-	-	●	●	●	●	
	Current time	●	●	●	-	-		-	●	●	●	●	●	●	●	
	Day of week	●	●	●	-	-		-	-	-	-	●	●	●	●	
	R.C. prohibition	●	●	●	●	●		●	-	-	●	●	●	●	●	
	Address display	●	●	●	●	●		●	-	-	-	-	●	●	●	
	Room temp	●	-	●	●	-		●	-	-	-	●*4	●*4	●*4	●*4	
	Multi language	●	-	●	-	-		-	-	-	●	●	●	●	●	
	Summer time	●	-	●	-	-		-	-	-	●	●	●	●	●	
	Name registration	●	-	-	-	-		-	-	-	-	●	●	●	●	
	Backlight	●	-	●	●	●		●	-	-	●	●	●	●	-	
	2D floor layout / 3D building display	-	-	-	-	-		-	-	-	-	-	-	-	●	
	Refrigerant leakage detection function	-	-	-	-	-		-	-	-	-	●	●	●	●	
Timer	Schedule timer	Period	Week	Week	Week	-		-	-	-	Week	Week	Year	Year	Year	
		On/off, Temp, Mode, Times per day	8	4	8	-	-		-	-	-	4	20	20	144	144
	On/off timer	●	●	●	●(OFF only)	-		-	●	●	-	-	-	-	-	
	Sleep timer	-	-	-	-	-		-	●	●	-	-	-	-	-	
	Program timer	-	-	-	-	-		-	●	●	-	-	-	-	-	
	Auto off timer	●	●	●	-	-		-	-	-	-	●	●	-	-	
Day off	●	●	●	-	-		-	-	-	●	●	●	●	●		
Min. unit of timer setting (Minutes)	10 • 30	30	30	-	-		-	5	5	5	10	10	10	10		
Control	Status monitoring system	-	-	-	-	-		-	-	-	-	●	●	●	●	
	Electricity charge apportionment	-	-	-	-	-		-	-	-	-	-	○	○	●	
	Error history	●	●	●	-	-		-	-	-	-	●	●	●	●	
	Emergency stop	-	-	-	-	-		-	-	-	-	●*2	●*2	-	-	
	Remote management	-	-	-	-	-		-	-	-	-	●	●	○	●	
	Energy saving management	-	-	-	-	-		-	-	-	-	-	-	○	○	
	E-mail notification for malfunction	-	-	-	-	-		-	-	-	-	-	-	-	-	
	Key lock	● Child lock	● Child lock	● Child lock	-	-		-	-	-	-	● Child lock	● Password setting	● Password setting	● Password setting	● Password setting
	Low noise mode	-	-	-	-	-		-	-	-	●	-	●	●	●	
Multi System Control	●	-	-	-	-		-	-	-	-	-	-	-	-		

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

Wired Remote Controller (Touch Panel)

UTY-RNRYZ5



NEW



Maximum Controllable
16 indoor units

Maximum Controllable
1 Group

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 11 different languages (English, French, German, Spanish, Russian, Polish, Italian, Greek, Portuguese, Turkish and Dutch)
- 2-wire type

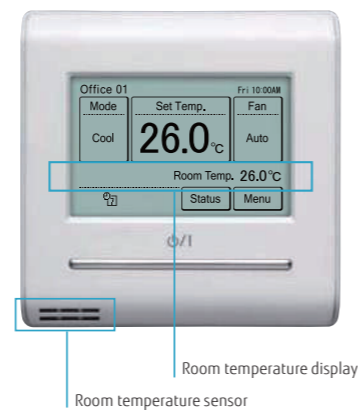
High performance and compact size

In addition to the individual control, weekly timer, and 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.

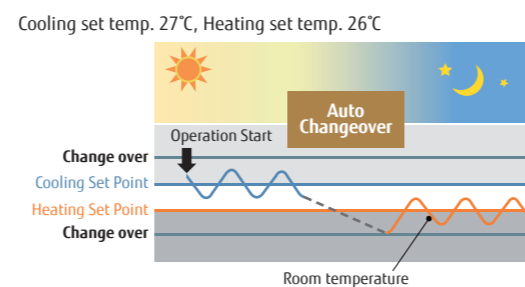


Various energy saving control

Custom Auto

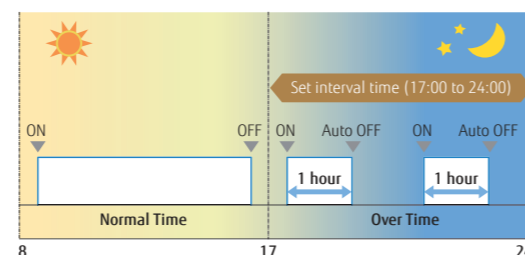
- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.

* This function is not available for some models.



Auto OFF timer

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



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

2 schedules Weekly Timer

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

Features: Wired Remote Controller (Touch Panel)

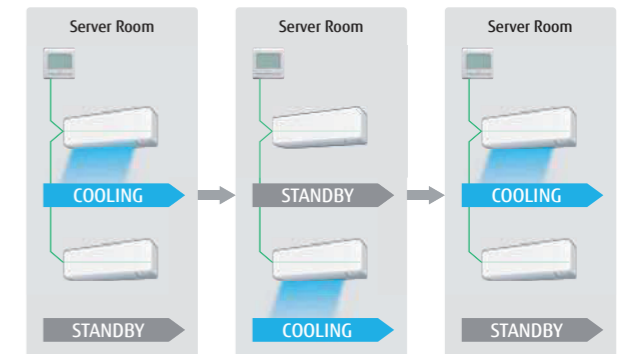
NEW Multi System Control*1 *2

1) Lead Lag Operation

Standby Indoor Unit can be selected in lead lag operation. By this, the Indoor units will last longer than operating by nonstop.



*1: It is necessary to select an indoor unit when actually operating in the server room.
*2: It is not a function that guarantees the server will not fail.



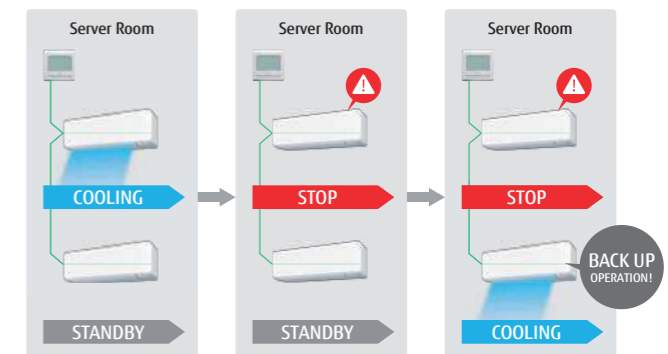
Example and Control Functions

Operation mode: Cooling
Setting temp.: 24°C
Airflow: High
Max. No. indoor units: depends on indoor unit
No. of Standby IDUs*: 1 or 2 units
Rotation Interval: 1-7 days
Operation Overlap Time*: None / 10 / 20 / 30 min

*No. of Standby Indoor units and operation overlap time can be changed from wired remote controller.

2) Back up operation

In case of unexpected Indoor unit error, other Indoor units will start providing back up operation.



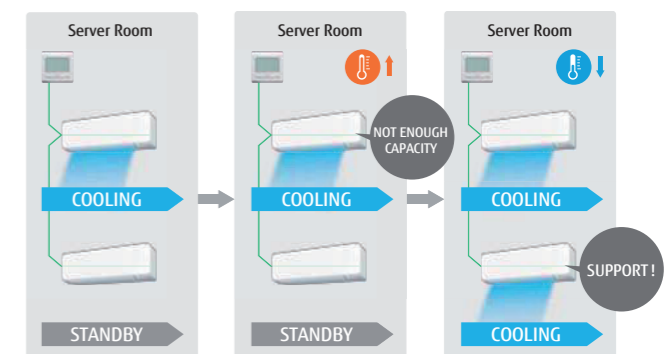
Example and Control Functions

Operation mode: Cooling
Setting temp.: 24°C
Airflow: High
Max. No. indoor units: depends on indoor unit
No. of back-up IDUs*: 1 or 2 units

*No. of back-up Indoor units can be changed from wired remote controller.

3) Lag Operation

In case of unexpected Indoor unit error, other Indoor units will start providing back up operation.



Example and Control Functions

Operation mode: Cooling
Setting temp.*: 24°C
Support Operation Start: 26.5°C (setting temp +2.5°C)
Support Operation Stop: 24.5°C (setting temp +0.5°C)

*Setting temperature can be changed from wired remote controller.

Specifications

Model name	UTY-RNRYZ5
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 20.4
Weight (g)	220

DC 12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RLRY



- 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

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.

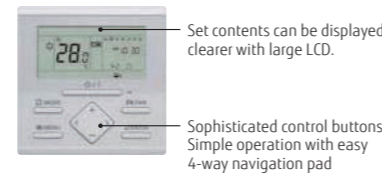


Maximum Controllable
16 indoor units

Maximum Controllable
1 Group

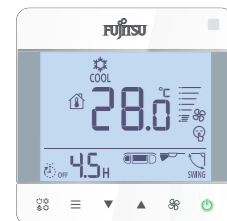
High visibility and easy operation

- "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.



Compact Wired Remote Controller

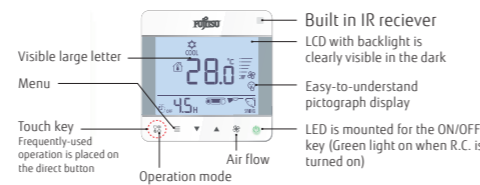
UTY-RCRYZ1



- 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

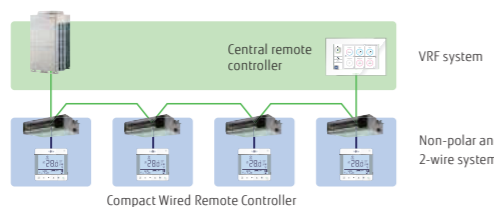
Large screen and simple display

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

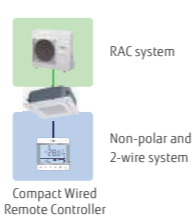


System overview

VRF connection



RAC connection



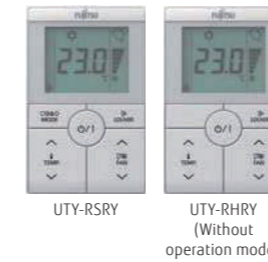
Specifications

Model name	UTY-RLRY	UTY-RCRYZ1
Power Source	DC 12 V	DC12V
Dimensions (H × W × D) (mm)	120 × 120 × 17	86 × 86 × 44
Weight (g)	170	135

DC 12 V is supplied by the indoor unit.

Simple Remote Controller

UTY-RSRY / UTY-RHRY (Without operation mode)



Compact remote controller provides access to basic functions

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

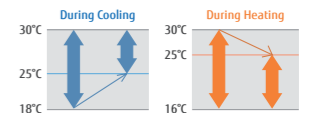
Maximum Controllable
1 Group

Corresponding to various applications

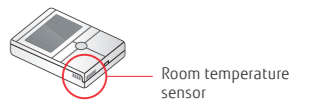
- **Vertical louver control:** Vertical air flow direction can be adjusted for Duct types with auto louver and Cassette types, which are installed in hotels and conference rooms, can be adjusted.



- **Room temperature set point limitation:** The Simple Remote Controller can manage to energy saving operation in small buildings without the central control unit.

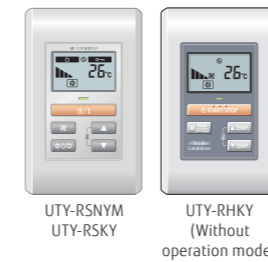


- **Built in room temperature sensor:** The Simple Remote Controller detects actual room temperature and controls room climate accuracy.



Simple Remote Controller

UTY-RSNYM, UTY-RSKY/UTY-RHKY (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.
- Backlight enables easy operation in a darkened room.
- 3-wire type

Maximum Controllable

16 indoor units

Maximum Controllable
1 Group

Easy-to-use operation

- Provides access to basic operations, such as Start / Stop, Fan control, Operation mode switching, and Room temperature setting.
- A large On / Off button is provided in the centre of the remote controller for easy operation.
- Can be used jointly with other individual control unit.
- Following an error display, diagnostics can be carried out on the controller.

Specifications

Model name	UTY-RSRY	UTY-RHRY	UTY-RSNYM, UTY-RSKY	UTY-RHKY
Power Source	DC 12 V	DC 12 V	DC 12 V	DC 12 V
Dimensions (H × W × D) (mm)	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 14
Weight (g)	120	120	120	90

DC 12 V is supplied by the indoor unit.

Wireless LAN Interface

UTY-TFNXZ1 / UTY-TFSXZ1, UTY-TFSXW1, UTY-TFSXF2



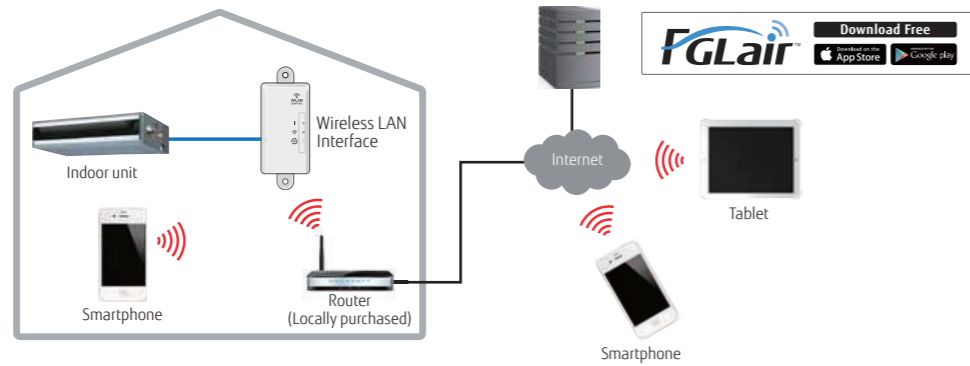
USB type for single split models
UTY-TFSXF2



UTY-TFNXZ1 (3 wire RC line type) (CN connector type)
UTY-TFSXW1 (CN connector type)

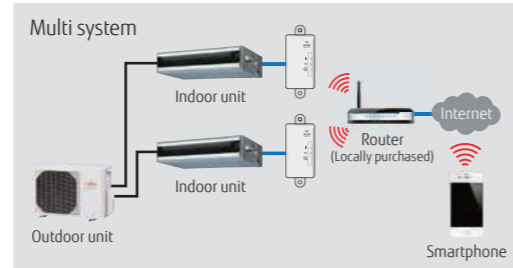
Maximum Connectable
1 Single indoor unit

- It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, and tablets.
- No separate external power supply required
- Can be used for single indoor units and multi system indoor units



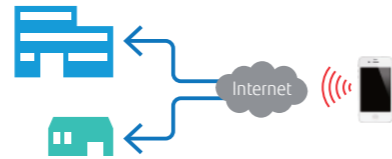
Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Louver position (Airflow direction setting)
- Timer operation setting (Weekly timer)
- Economy mode setting



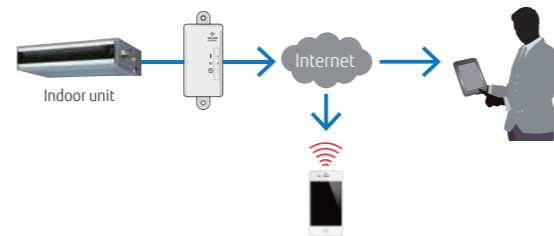
Multiple air conditioning management

- Multiple air conditioning management at difference locations.



Error display & E-mail notification

- Alerts e-mail notification
- Air conditioning malfunction display
- It enables rapid service response when error occurs.



Wireless LAN Interface (USB type) UTY-TFSXF2

New compact USB type is available. Specialized installation work is not required and it can be installed to indoor unit easily.



Specifications

Model name	UTY-TFNXZ1 (3 wire RC line type)	UTY-TFSXZ1 (CN connector type)	UTY-TFSXW1 (CN connector type)	UTY-TFSXF2
Dimensions (H × W × D) (mm)	71 × 38 × 15	71 × 38 × 15	71 × 38 × 15	56.7 × 34 × 9.72
Weight (g)	35	35	35	30

MODBUS® Convertor for Indoor Unit

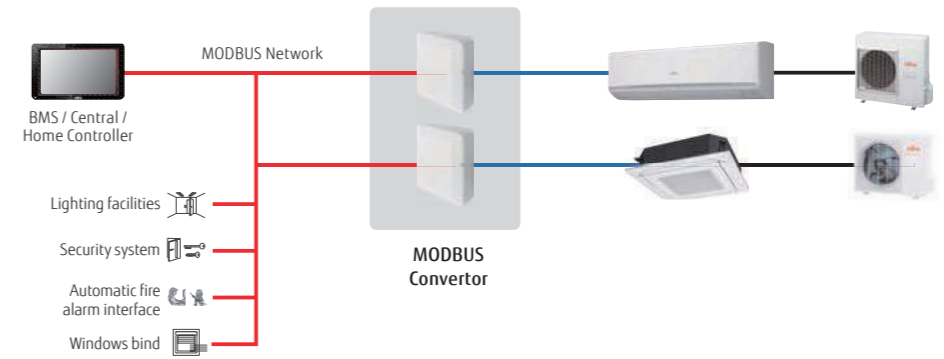
UTY-VMSX



Maximum Connectable
1 Single indoor unit

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

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

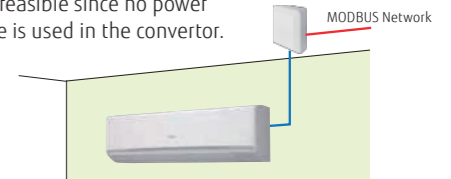


Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Louver position (Airflow direction setting)
- Room temperature setting and display
- Economy mode setting
- Error status

Easy Installation

Flexible installation locations with neat wirings are feasible since no power supply cable is used in the convertor.



KNX® Convertor for Indoor Unit

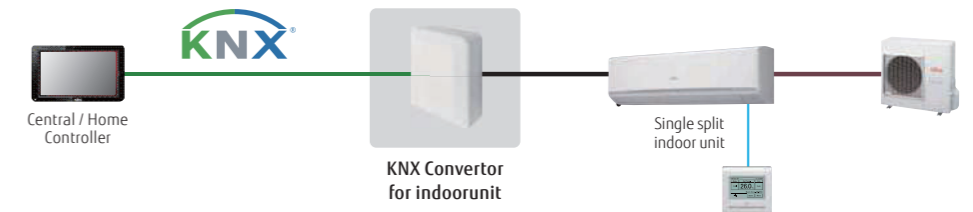
UTY-VKSX



Maximum Connectable
1 Single indoor unit

KNX Convertor is useful for individual control of indoor.

- New KNX Convertor enables to connect central/home controller and Fujitsu General indoor unit.
- Compact and light weight design



Specifications

Model name	UTY-VMSX
Power supply	DC 12 V
Input Power (W)	Max. 1.2
Dimensions (H×W×D)(mm)	140 × 117 × 43
Weight (g)	200
Maximum Connectable indoor unit number per 1 MODBUS Convertor	1

Modbus communication specifications

Transfer mode	RTU mode
Communication speed	9600/19200bps
Data bit	8
Parity	even/odd/none
Stop bit	1/2 (no parity)
Network	RS485
Maximum cable length	1000m (3280 ft)

Model name	UTY-VKSX
Power supply	DC 12 V
Power consumption (W)	0.6
Dimensions (H×W×D)(mm)	140 × 117 × 43
Weight (g)	215

MODBUS® Interface

FJ-RC-MBS-1 / FG-AC-MBS1Z1

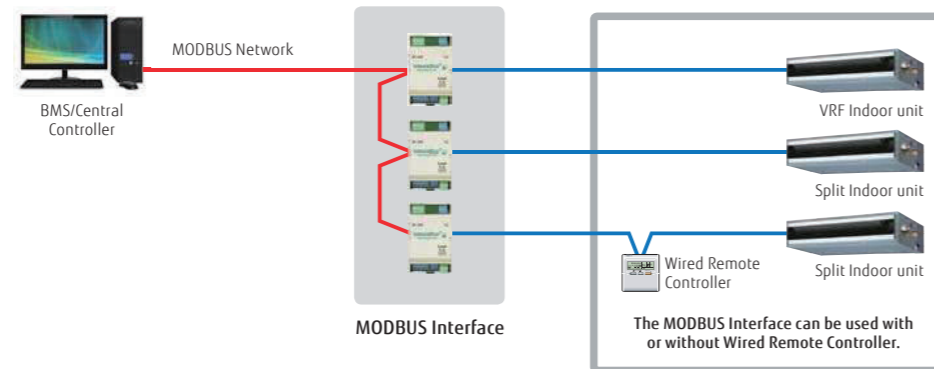


FJ-RC-MBS-1
(3wire RC line type)

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

- Can be installed on DIN rail easily 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.

Installation example



NEW



FG-AC-MBS1Z1
(CN connector type)

Maximum Connectable

1 Single indoor unit

Specifications

Model name	FJ-RC-MBS-1 (3wire RC line type)	FG-AC-MBS1Z1 (CN connector type)
Number of controllable group	1	1
Dimensions (H × W × D) (mm)	93 × 53 × 58	93 × 53 × 58
Weight (g)	85	85

KNX® Interface

FJ-RC-KNX-1i / FG-AC-KNX1Z1 / FG-IR-KNX1Z1



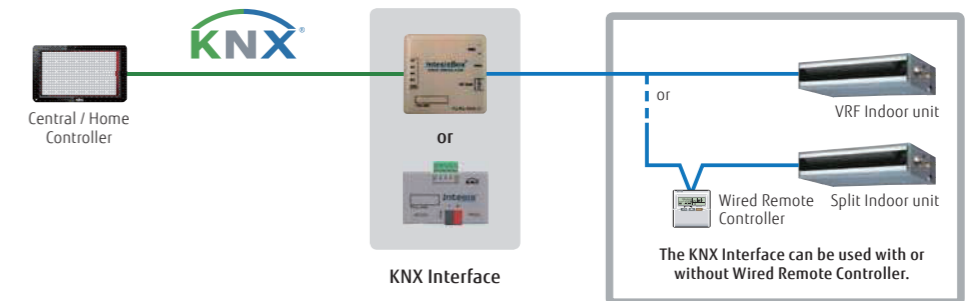
FJ-RC-KNX-1i
(3wire RC line type)

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).

Installation example

[3wire RC line type / CN connector type]



NEW



FG-AC-KNX1Z1
(CN connector type)

NEW

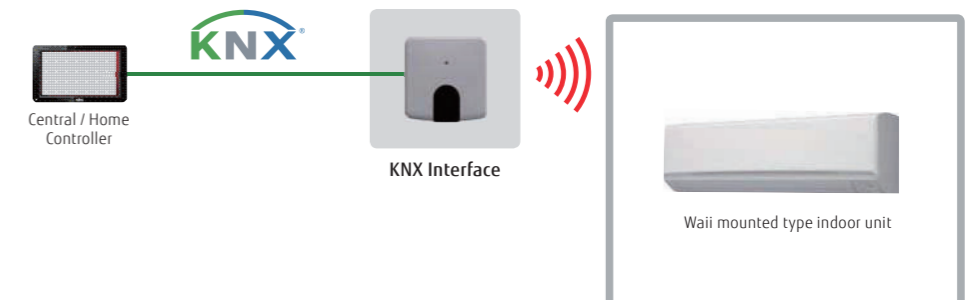


FG-IR-KNX1Z1
(IR type)

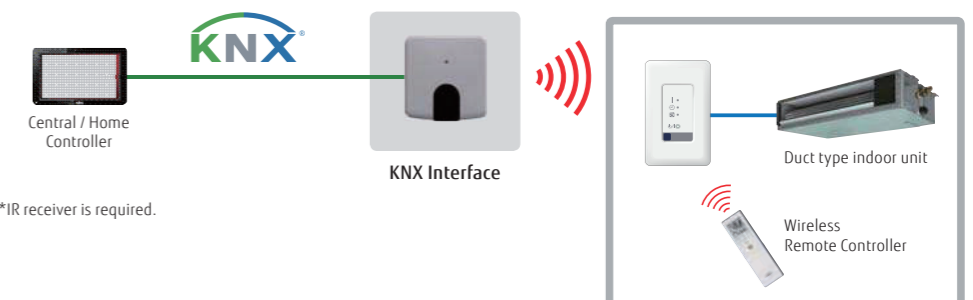
Maximum Connectable

1 Single indoor unit

[IR type] Connection to Wall mounted type



[IR type] Connection to the product other than Wall mounted type



Specifications

Model name	FJ-RC-KNX-1i (3wire RC line type)	FG-AC-KNX1Z1 (CN connector type)	FG-IR-KNX1Z1 (IR type)
Number of controllable group	1	1	1
Dimensions (H × W × D) (mm)	70 × 70 × 28	45 × 59 × 21	81 × 78 × 28
Weight (g)	70	35	76



Wireless LAN Interface

FJ-RC-WIFI-2 / FG-IR-WIF1Z1 / FG-AC-WIF1Z1



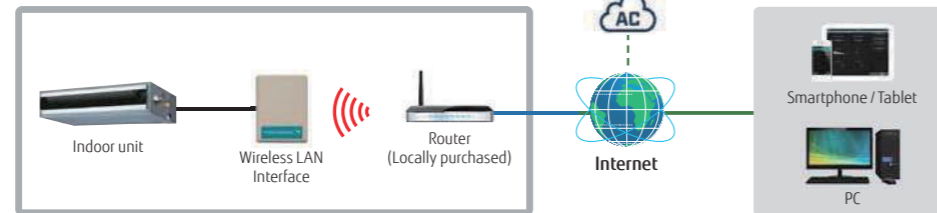
FJ-RC-WIFI-2
(3wire RC line type)

AC Cloud Control

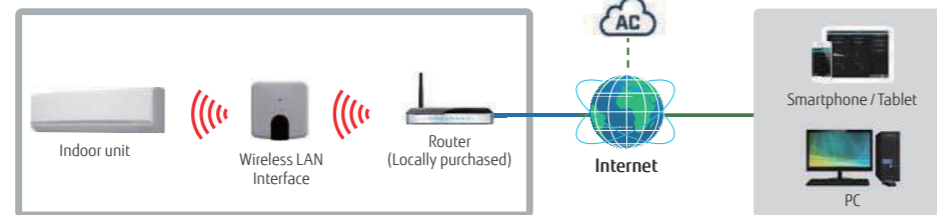
- It is the most advanced solution to remotely manage an Air Conditioning system using all kind of mobile devices such as Smartphones, Tablets and PC
- No separate external power supply required

Installation example

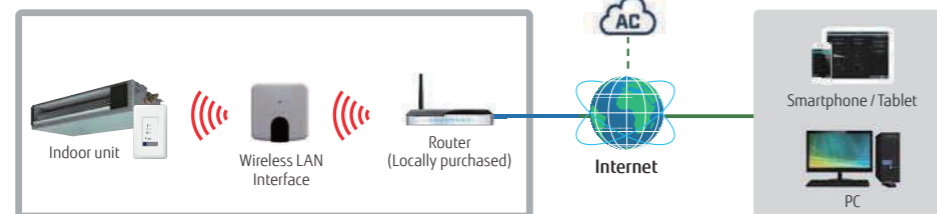
[3wire RC line type / CN connector type]



[IR type] Connection to Wall mounted type



[IR type] Connection to the products with optional receiver kit



*IR receiver is required

Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Louver position (Airflow direction setting)
- Fan speed 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)
- Schedule functions (ON/OFF, Modes, Set point temperature, Fan Speed, Louver position)
- Set temperature limitation
- Multiple Scenes & Timers and Calendar function
- Smart Speaker compatibility
- Advanced internet service connections

Notifications and history

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

Specifications

Model name	FJ-RC-WIFI-2 (3wire RC line type)	FG-AC-WIF1Z1 (CN connector type)	FG-IR-WIF1Z1 (IR type)
Number of controllable group	1	1	1
Dimensions (H × W × D) (mm)	108 × 70 × 28	81 × 78 × 28	127 × 50 × 17
Weight (g)	80	76	80

Multi Protocol Wireless LAN Interfaces

FG-RC-WMP1Z1 / FG-IR-WMP1Z1 / FG-AC-WMP1Z1



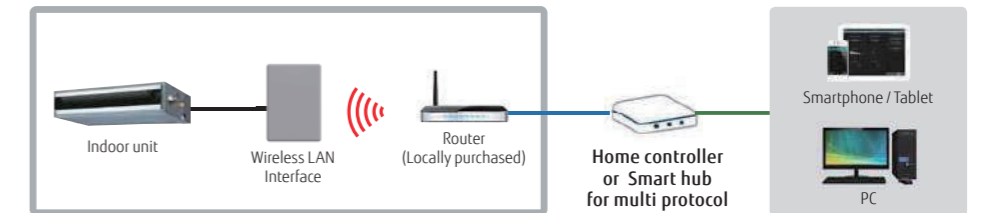
FG-RC-WMP1Z1
(3wire RC line type)

AC Cloud Control

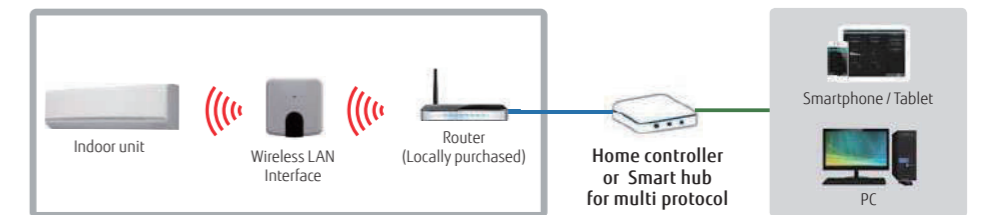
- AC control to Home Automation systems via Wireless LAN connection.
- No separate external power supply required

Installation example

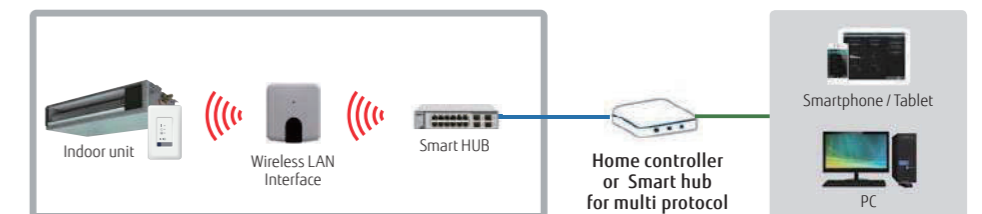
[3wire RC line type / CN connector type]



[IR type] Connection to Wall mounted type



[IR type] Connection to the product other than Wall mounted type



*IR receiver is required

Maximum Connectable

1 Single indoor unit

Specifications

Model name	FG-RC-WMP1Z1 (3wire RC line type)	FG-AC-WMP1Z1 (CN connector type)	FG-IR-WMP1Z1 (IR type)
Number of controllable group	1	1	1
Dimensions (H × W × D) (mm)	70 × 100 × 28	127 × 50 × 17	81 × 78 × 28
Weight (g)	98	80	76

BACnet® Gateway

FG-AC-BAC1Z1



NEW

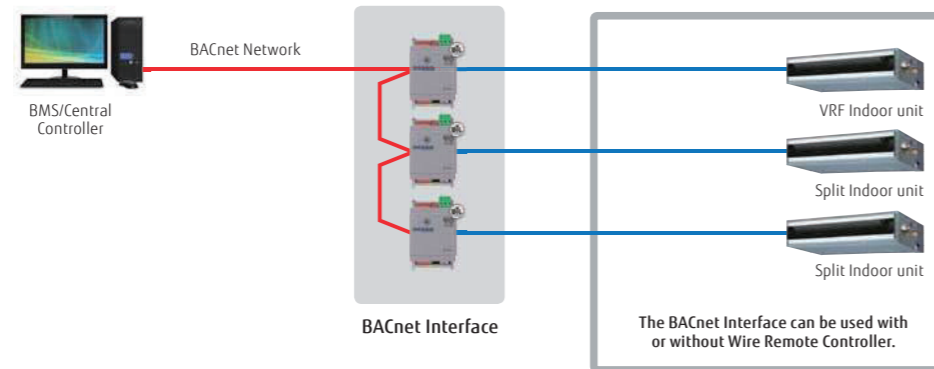


FG-AC-BAC1Z1
(CN connector type)

Maximum Controllable
1 indoor units

- BACnet® Gateway enables to connect a BMS and Fujitsu General split/multi-split/VRF system.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.

Installation example



External Switch Controller

UTY-TERX



Maximum Controllable
1 group

Air conditioner switching can be controlled by connecting other sensor switches

- 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.
- The set temperature can be specified at two points for cooling and heating individually (4 points).

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.
Human sensor is not mounted on the External Switch Controller.

Specifications

Model name	UTY-TERX	FG-AC-BAC1Z1 (CN connector type)
Power Supply	DC 6.5-16 V	-
Dimensions (H × W × D) (mm)	140 × 117 × 43	93 × 53 × 58
Weight (g)	250	85

DC 12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RVNYM



Maximum Controllable
16 indoor units

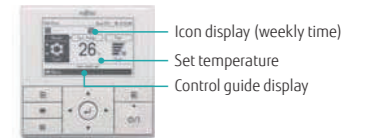
Maximum Controllable
1 Group

Hi-grade individual control using various functions.

- 3.7-inch LCD backlight screen.
- Supporting various Energy Saving functions with simple operation.
- Multiple Language Support.
(English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)

High visibility and Easy operation

- Icon display of effectual functions.
- Main functions in large icons: "Mode", "Set Temp", and "Fan".
- Easy to operate by Control guide display.
- Simple operation with easy 4-way navigation pad.



High performance and compact size

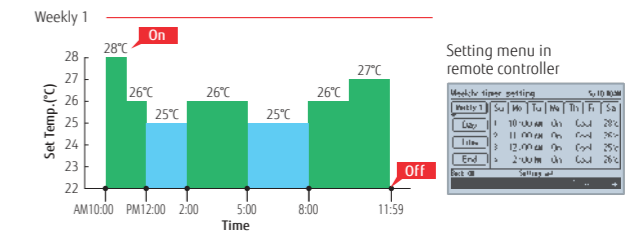
- In addition to the individual control, various energy saving controls can be realized using only one remote controller.



Various energy saving control

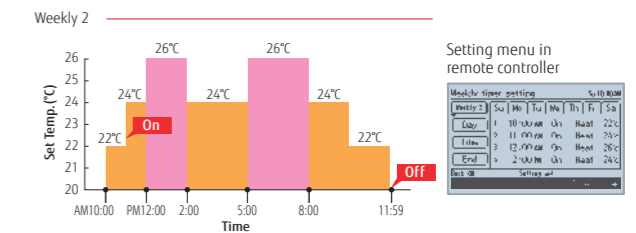
Weekly Timer function

- Can be set up to 8 times per day (On/Off, mode, Temp)
- 2 pattern settings (i.e. Summer/Winter setting) are available.



Auto OFF Timer

- Set Temperature Auto Return
- Set Temperature Upper and Lower Limit Setting



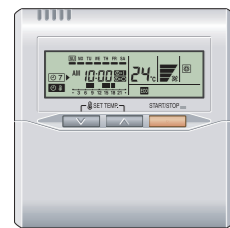
Specifications

Model name	UTY-RVNYM
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 21.3
Weight (g)	220

DC 12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RNNYM

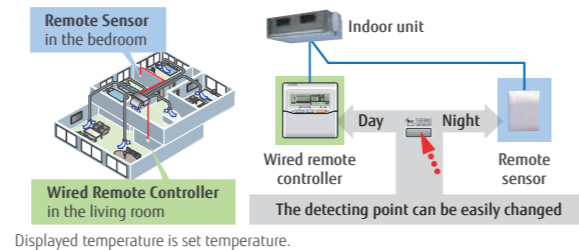


- Simple operation with Built-in Weekly / Daily Timer.
- Control up to 16 indoor units.
- Up to 2 wired remote controllers can be connected to a single indoor unit.

Accurate and comfortable

Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller. This wired remote controller and the optional remote sensor allows flexibility in sensor location, suitable for all requirements.

Example of changing sensor



Maximum Controllable
16 indoor units
Maximum Controllable
1 Group

Built-in timers

Weekly timer: Possible to set ON/OFF time to operate twice each day of the week.
Setback timer: Possible to set temperature for two times spans and for each day of the week.
At "Weekly timer" + "Set back timer" setup

Wireless Remote Controller

UTY-LNTY



Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

Built-in timers

4 timer programs: On / Off / Program / Sleep
Program timer: Operates ON/OFF timer once within 24 hours
Sleep timer: Corrects the set temperature automatically during sleep time

Easy installation and operation

Code selector switch prevents indoor unit mix-up (up to 4 codes)
Wide and precise transmitting range

Maximum Controllable
16 indoor units
Maximum Controllable
1 Group
Selectable
4 daily timers

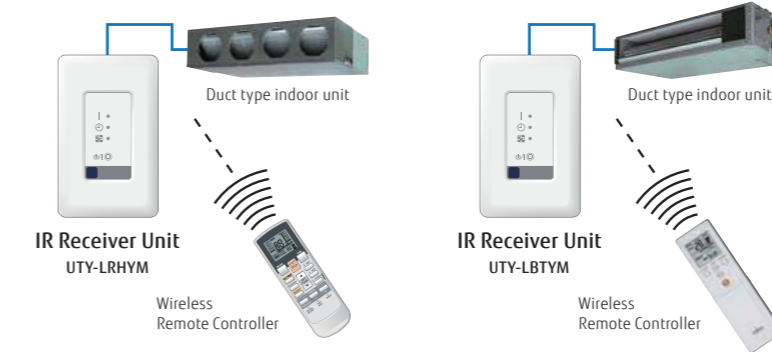
Specifications

Model name	UTY-RNNYM	UTY-LNTY
Power Source	DC 12 V	DC5V
Dimensions (H × W × D) (mm)	120 × 120 × 18	145 × 90 × 30
Weight (g)	160	150

DC 12 V is supplied by the indoor unit.

IR Receiver Unit for Duct

UTY-LRHYM, UTY-LBTYM



Duct type indoor units can be controlled with Wireless Remote Controller

IR Receiver Unit for Cassette

UTY-LRHYA2, UTY-LBTYC



Cassette type indoor unit can be controlled with Wireless Remote Controller

IR Receiver Unit for Ceiling

UTY-LBTYH



Ceiling type indoor unit can be controlled with Wireless Remote Controller

Specifications

Model name	UTY-LRHYM	UTY-LBTYM	UTY-LRHYA2	UTY-LBTYC	UTY-LBTYH
Battery	DC5V	DC5V	DC5V	DC5V	DC5V
Dimensions (H × W × D) (mm)	145 × 90 × 30	145 × 90 × 30	193.9 × 193.9 × 31.2	193.9 × 193.9 × 31.2	174.8 × 48.6 × 23.1
Weight (g)	150	150	140	140	100

DC 12 V is supplied by the indoor unit.

Central Remote Controller

UTY-DMMYM / UTY-DMMYM1



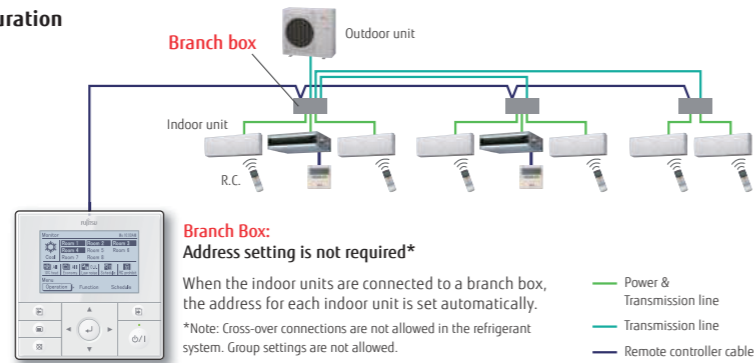
Maximum Controllable
1 multi system

Maximum Controllable
8 indoor units

For 5-unit, 6-unit, 8-unit multi-split type

- Batched control of up to 8 indoor units. The temperature, airflow volume, and remote control prohibition settings of all indoor units can be batched.
- Corresponds to 9 different languages (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)
- Large backlight LED screen
- Large easy-to-see operation panel

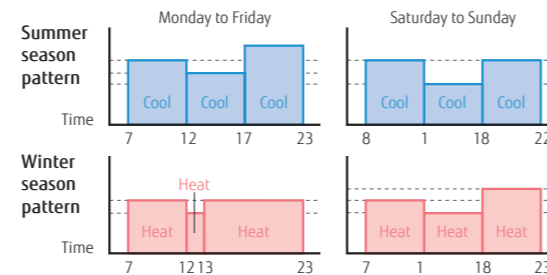
System configuration



Central Remote Controller Functions

Weekly schedule timer

The ON/OFF setting can be set for 4 times a day. Two weekly patterns can be set to match the cooling and heating seasons.



Low noise operation

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

10°C heat operation

When you leave, minimum heating operation is performed to maintain the room temperature (maintain at 10°C).

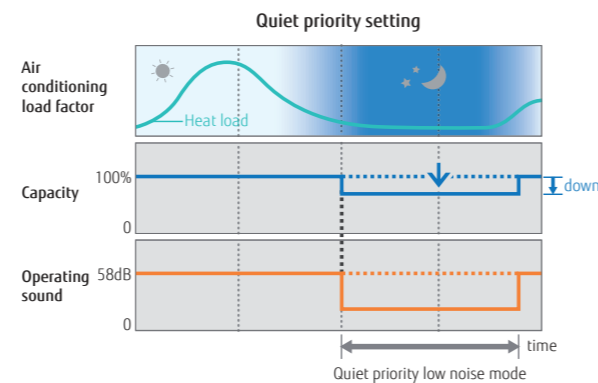
*Please consult your dealer for the condition.

Economy operation

Economy operation is energy saving, as the set temperature of indoor unit is shifted by 1°C and the maximum electric value of the outdoor unit is suppressed.

Prohibited Settings

The remote controller operation of all indoor units comes with a lock function to prevent unapproved operations in the various rooms. The central remote controller also has a key lock function to prevent children from playing with it, etc.



Specifications

Model name	UTY-DMMYM / UTY-DMMYM1
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 21.3
Weight (g)	220

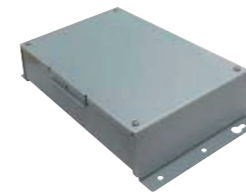
DC 12 V is supplied by the indoor unit.

Network Converter for Single Split

UTY-VTGX / UTY-VTGXV



UTY-VTGX
DC power supply type

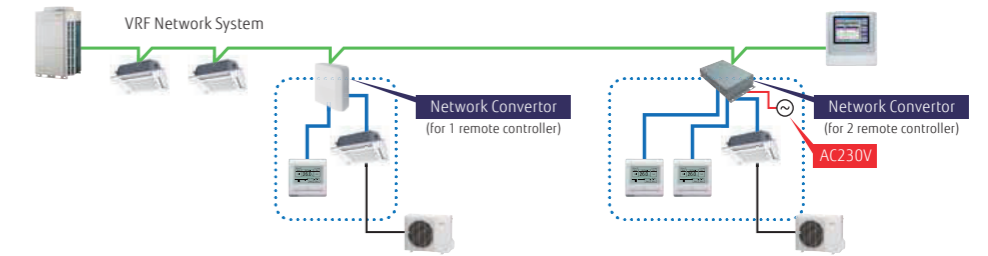


UTY-VTGXV
AC power supply type

- 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

Installation example.

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

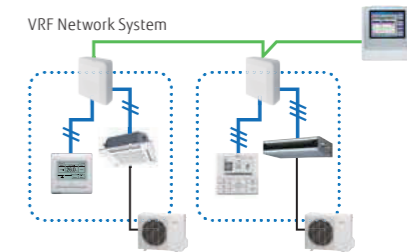


Maximum Controllable
16
single indoor units

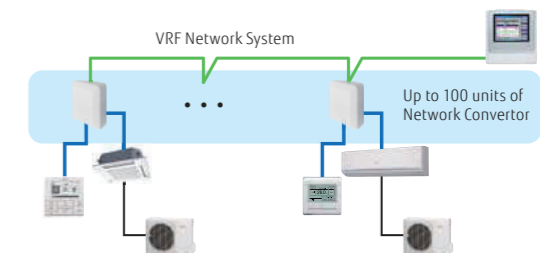
Maximum Controllable
1 Group

Maximum Controllable
100
Network Convertors

- 2-wire and 3-wire type of the wired remote controller can be connectable.



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



Specifications

Model name	UTY-VTGX		UTY-VTGXV
Power Supply	polar 3-wire DC 12 V	non-polar 2-wire DC 12 V	220-240 V 50/60 Hz
Input power (W)	Max. 1.2		Max. 3
Dimensions (H × W × D) (mm)	140 × 117 × 43		54 × 260 × 150
Weight (g)	250		1,100

Wireless Remote Controller

UTY-LNHY



Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

Built-in timers

- 4 timer programs: On / Off / Program / Sleep
- Program timer: Operates ON/OFF timer once within 24 hours
- Sleep timer: Corrects the set temperature automatically during sleep time

Easy installation and operation

- Code selector switch prevents indoor unit mix-up (up to 4 codes)
- Wide and precise transmitting range

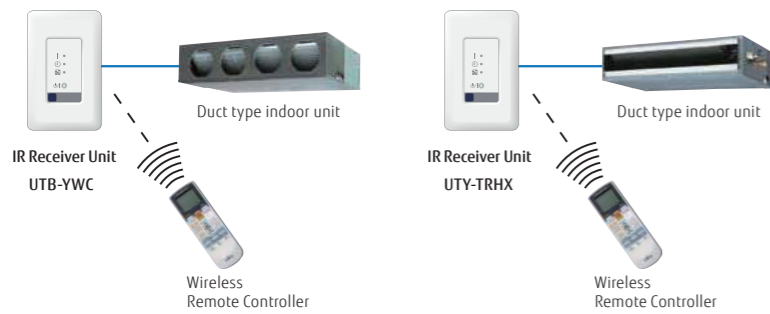
Maximum Controllable
16 indoor units

Maximum Controllable
1 Group

Selectable
4 daily timers

IR Receiver Unit for Duct

UTB-YWC, UTY-TRHX



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

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

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

IR Receiver Unit for Cassette

UTY-LRHYB1, UTY-LBHXD, UTY-TRHX



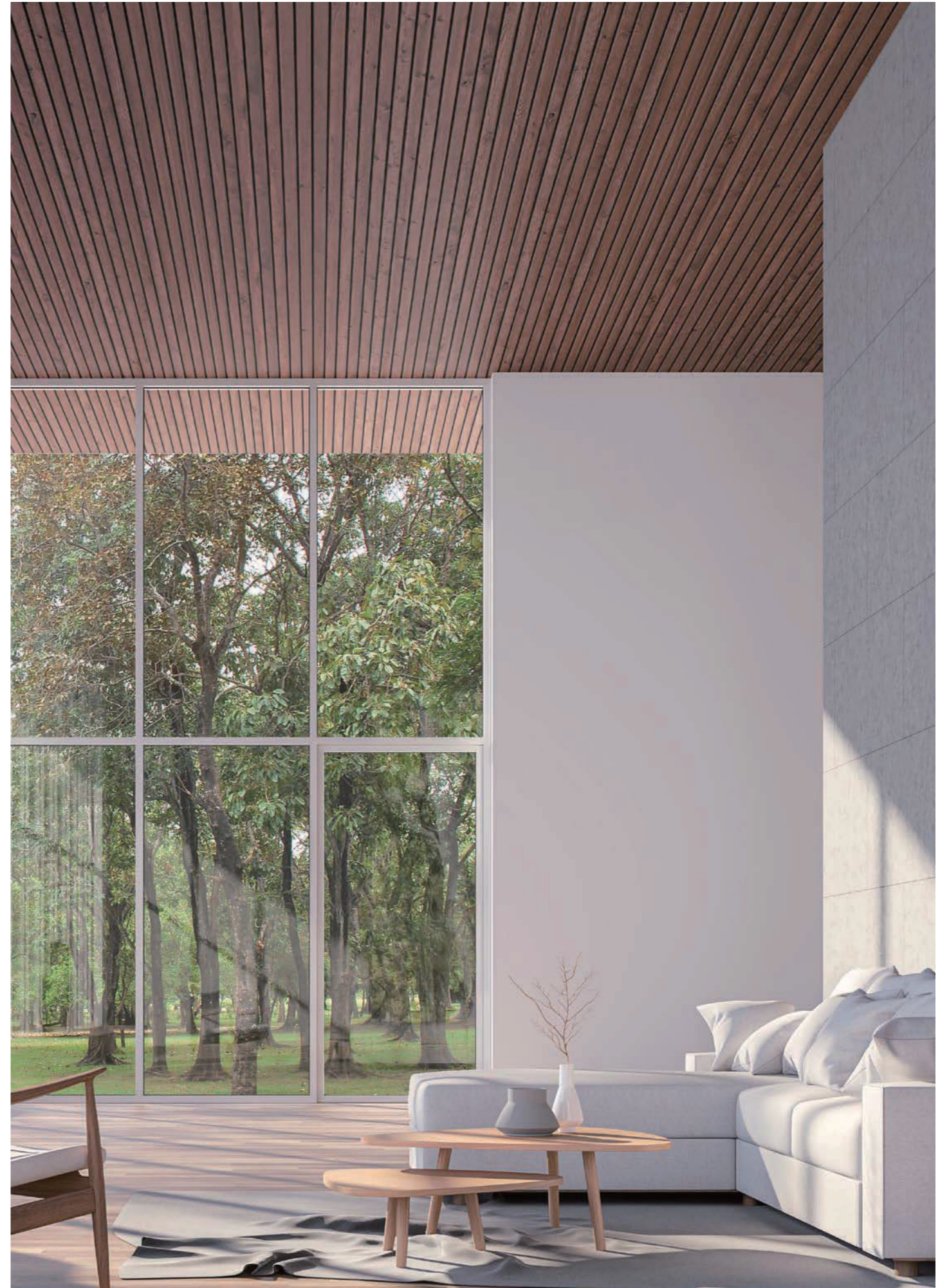
Cassette type indoor unit can be controlled with Wireless Remote Controller

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

Specifications

Model name	UTY-LNHY	UTB-YWC	UTY-LRHYB1	UTY-LBHXD	UTY-TRHX
Battery	1.5 V (R03 / LR03 / AAA)×2	DC 5 V	DC5V	DC5V	DC 5 V
Dimensions (H × W × D) (mm)	170 × 56 × 19	145 × 90 × 30	193.9 × 193.9 × 31.2	193.9 × 193.9 × 31.2	145 × 90 × 30
Weight (g)	85	150	140	140	150

DC 12 V is supplied by the indoor unit.



Central Remote Controller

UTY-DCGYZZ



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
- Room temperature display by indoor unit sensor & remote controller sensor
- 50 Remote Controller Groups Display & remote controller group rename
- Supports 12 different languages (English, Spanish, German, French, Italian, Russian, Portuguese, Turkish, Polish, Greek, Dutch, Chinese)

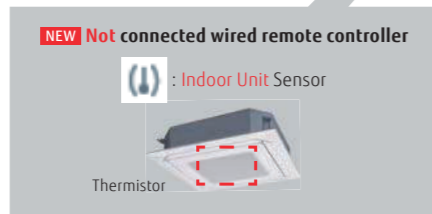
Maximum Controllable
100 indoor units

Maximum Controllable
50 groups

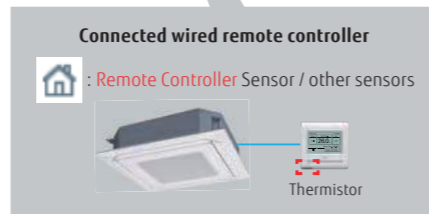
Easy Management

Air conditioning management by detecting room temperatures of each room

The room temperature detected with indoor unit sensor or remote controller sensor can be displayed. New model can detect the room temperature by indoor units sensors even if wired remote controllers are not connected to the indoor units.



*Room temperature is displayed only when indoor unit operates.



NEW 50 Remote Controller Groups Display

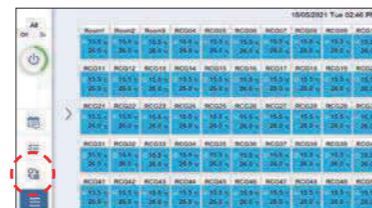
The group display and the 50 remote controller groups display can be switched easily. Users can choose which display is better, depending on the situation.

Group Display



Manage & Monitor by each Groups

50 Remote Controller Groups Display

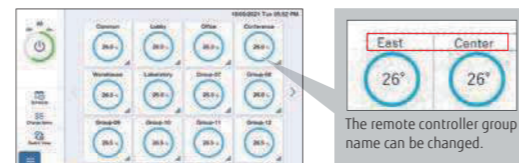


Manage & Monitor by 50 Remote Controller Groups



NEW Remote Controller Groups Rename

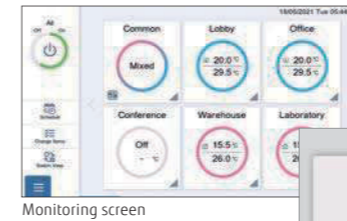
The remote controller group names can be changed. Users can know easily where the air conditioning is located by changing the remote controller group names.



The remote controller group name can be changed.

Features: Central Remote Controller

- Easy intuitive operation from the touch panel display.
- All functions can be accessed through the monitoring screen showing a pop-up window for detailed operation.



Monitoring screen



Individual setting

NEW Added individual wind direction control

Individual wind direction control has been added.
Circular Flow cassette / 3D Flow cassette



Circular flow cassette

NEW Human Sensor Compatible

Human sensor setting
• Auto save
• Auto on / off
• Auto off detection time
• Enable and disable



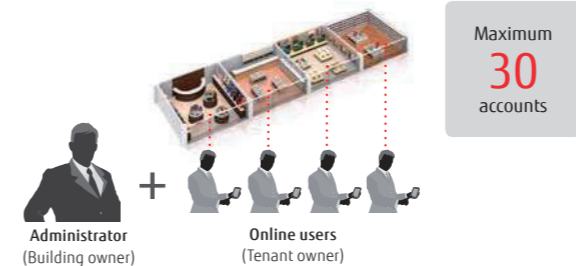
Remote Management

Remote monitoring / Remote operation

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

When the central remote controller manages the indoor units of some tenants, air conditioning of each tenants can be managed separately online.

NEW Increased the Number of Accounts



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.

Specifications

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

Touch Panel Controller

UTY-DTGYZ1



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

Easy Operation

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



Maximum Controllable
400 indoor units

Maximum Controllable
100 outdoor units

Maximum Controllable
400 groups

Easy maintenance

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

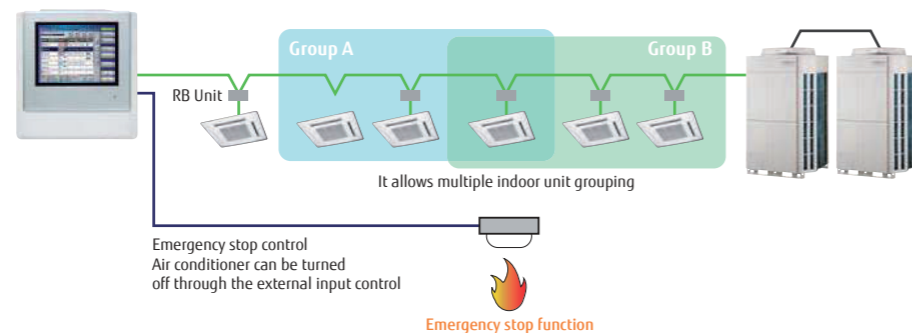


Easy installation

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



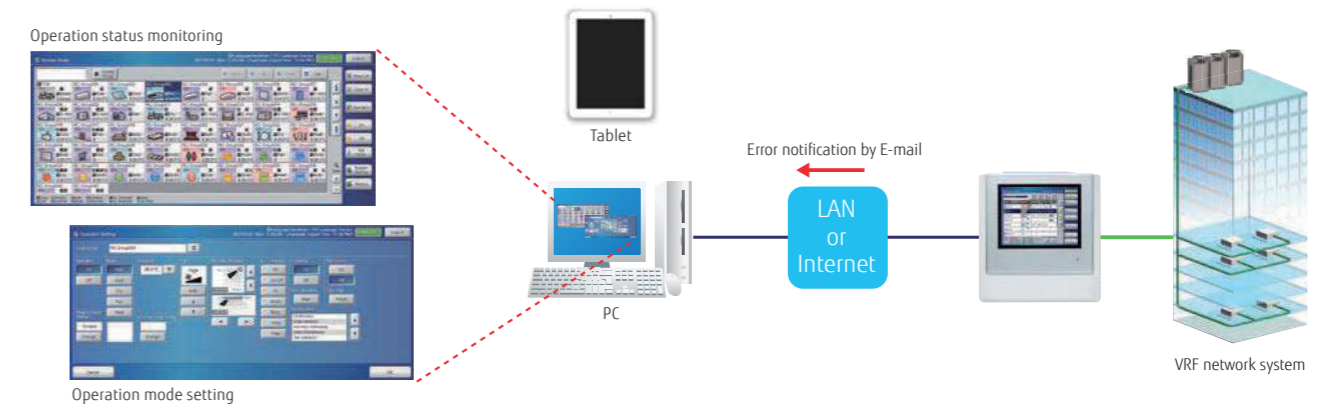
Up to 400 indoor units can be controlled



Features: Touch Panel Controller

Control & monitoring

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



Smart Phone

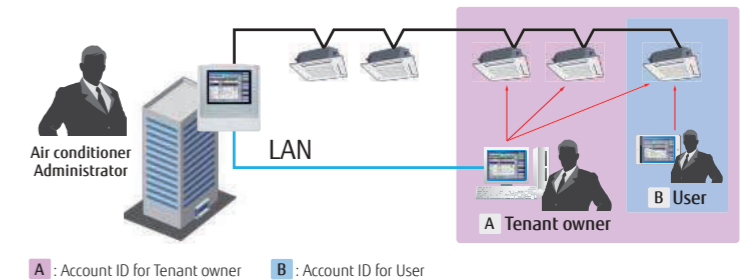
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iphone 7 (iOS 10.1)	Safari 10

Tablet

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

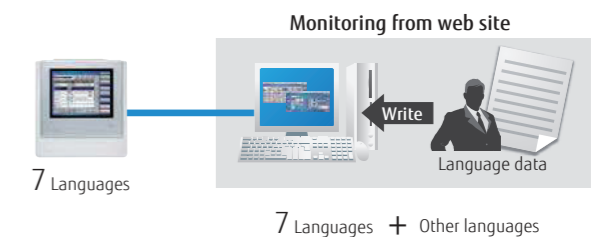
Flexible access permission for Point each level user.

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



Additional languages function

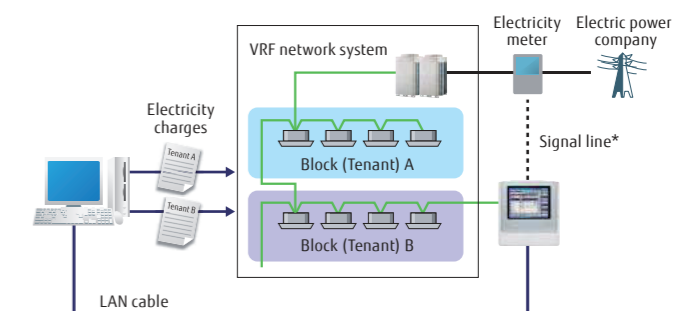
Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish as standard. Additional language can be integrated on remote device by creating language database. Additional language is displayed on only the remote device, and Touch Panel Controller cannot be added other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



Electricity charge apportionment (Option: UTY-PTGXA)

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

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



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

Features: Touch Panel Controller

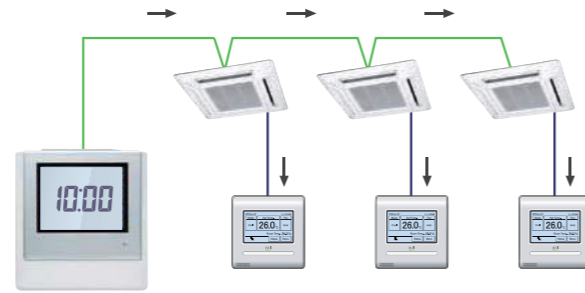
Automatic summer time setting

Providing function

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

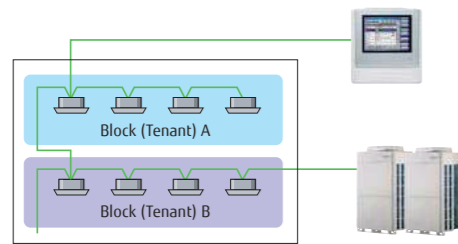
Automatic clock adjustment

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

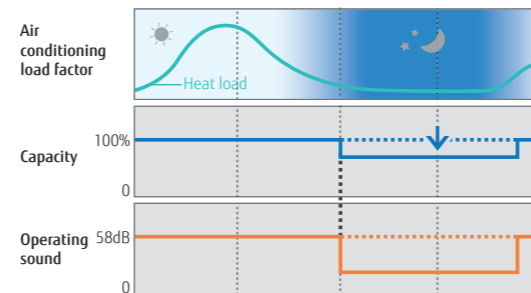


Outdoor low noise operation

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



Quiet priority setting



Various energy saving control

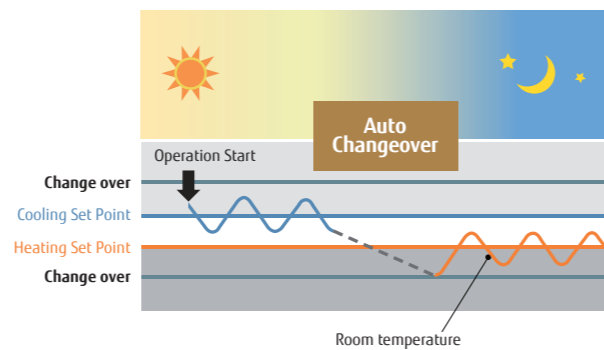
Custom Auto

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

* This function is not available for some models.



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



Refrigerant leakage detection function

The refrigerant leak condition is indicated by the management equipment, and if refrigerant leakage occurs, it is displayed as a pop-up, the user is notified, and the refrigerant is shut off.



Pop-up highlighting

FUNCTIONS SUMMARY

	UTY-DTGVZ1	Monitoring side
Air conditioning control function		
On / Off	●	●
Operation mode setting*	●	●
Fan speed setting	●	●
Room temp. setting	●	●
Room temp. set point limitation	●	●
Test operation	●	●
Up/down air direction flap setting	●	●
Right/left air direction flap setting	●	●
Individual louver control	●*1	●
Group setting	●	●
RC prohibition	●	●
Anti freeze setting	●	●
Set temp. auto return	—	●
Various energy saving control	—	●
Economy mode setting	●	●
Human sensor control	—	●
Display		
Error	●	●
Defrosting	●	●
Current time	●	●
Day of week	●	●
R.C. prohibition	●	●
Cooling/heating priority	●	●
Address display	●	●
Room temp	●*3	●*3
Multi language	●	●
Summer time	●	●
Time zone setting	●	●
Name registration	●	●
Backlight	●	●
Language setting	7	7+ other
Filter sign reset	●	●
Memory operation	●	●
Refrigerant leakage detection function	●	●

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

Specifications

	UTY-DTGVZ1
Model name	UTY-DTGVZ1
Power Supply	100-240 V 50/60 Hz, Single phase
Dimensions (H × W × D) (mm)	260 × 246 × 54
Weight (g)	2,150
Interface	Transmission/LAN/USB/EXT IN/EXT OUT/Reset SW

	UTY-DTGVZ1	Monitoring side
Timer		
	Period	Year
Schedule timer	On/off, Temp, Mode, Times per day	20
		Year
On/off timer	—	—
Sleep timer	—	—
Program timer	—	—
Auto off timer	—	●
Day off	●	●
Min. unit of timer setting (Minutes)	10	10
Control		
Status monitoring system	●	●
Electricity charge apportionment	○	○
Error history	●	●
Emergency stop	●*2	●*2
Remote management	—	●
Energy saving management	—	—
E-mail notification for malfunction	—	●
Key lock	● Password setting	—
Low noise mode	●	●

System Controller

UTY-APGXZ1 **Software**

Maximum Controllable
4 VRF network systems

Maximum Controllable
400 outdoor units

Maximum Controllable
1,600 indoor units

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.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)



System Controller Lite

UTY-ALGXZ1 **Software**

Maximum Controllable
1 VRF network system

Maximum Controllable
100 outdoor units

Maximum Controllable
400 indoor units

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

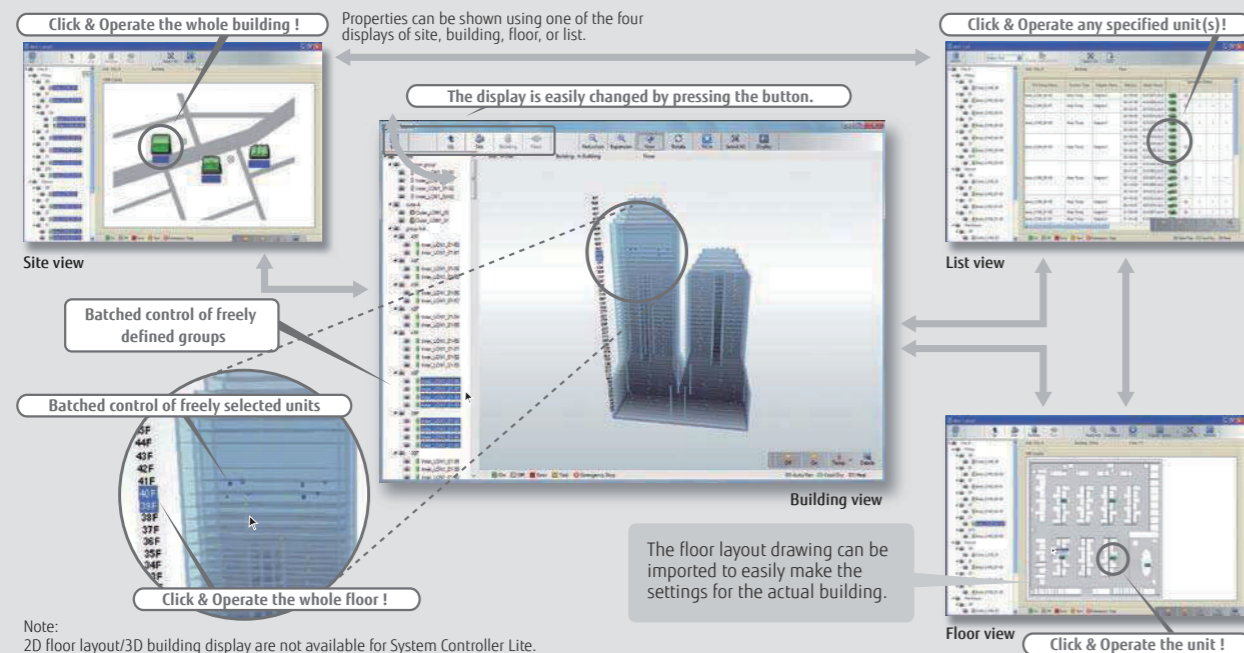
- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customers a wide range of choice.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)



High visibility and Easy 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.

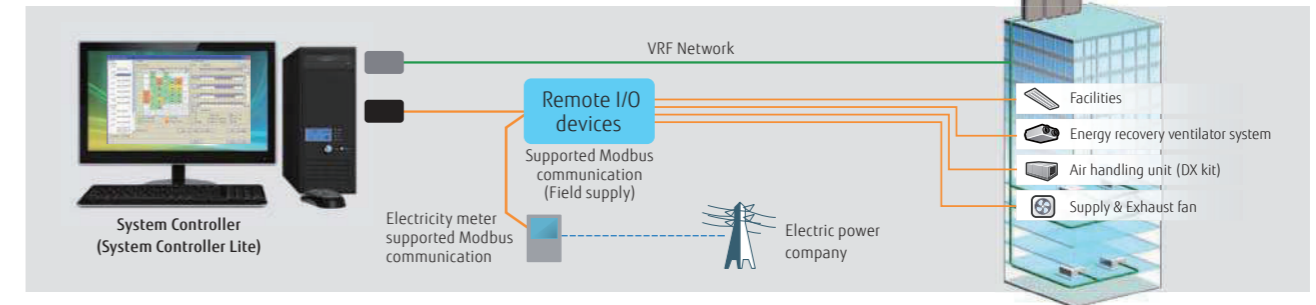


Features: System Controller/System Controller Light

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.

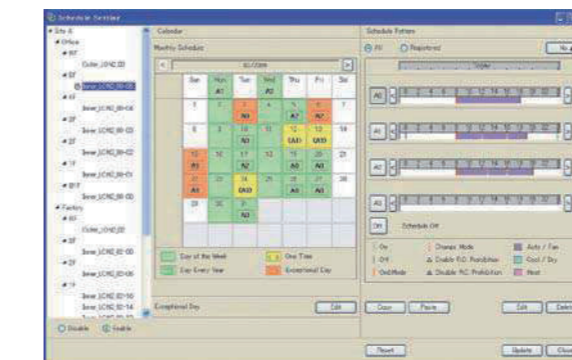


Diverse operation management & Data management

Standard for System Controller and System Controller Lite

Schedule management

- Annual schedules can be set for each remote controller group / user defined group.
- Start / stop, operating mode, remote controller prohibition, and temperature settings can be set up to 143 times per day at 10 minute intervals for up to 101 configurations for each remote controller group.
- 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 unit and outdoor unit

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

Remote controller prohibition

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

Error display & E-mail notification

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

Operating & control record

Displays the history of operation status and control.

Data base import/export

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

Automatic clock adjustment

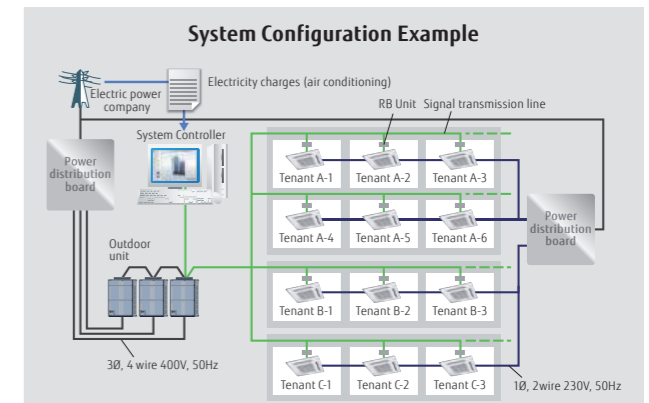
The time setting of each controller can be set in batch automatically.

Electricity charge apportionment

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

Electricity charge apportionment calculation framework

Suppose you want to find the power consumed by the air conditioners of each tenant from the electricity charge for each month. With electricity charge apportionment function, 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.



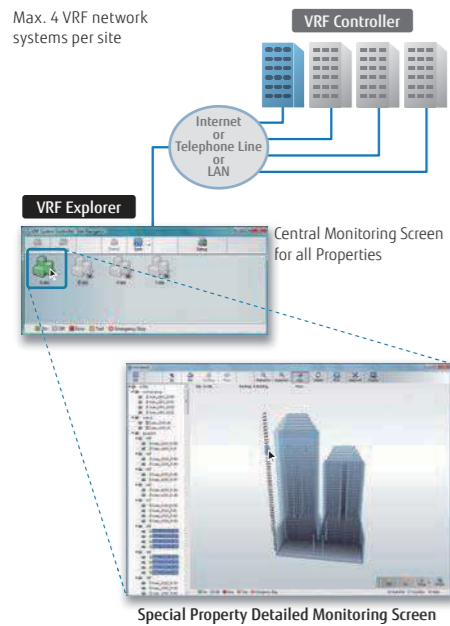
Features: System Controller/System Controller Light

Remote management

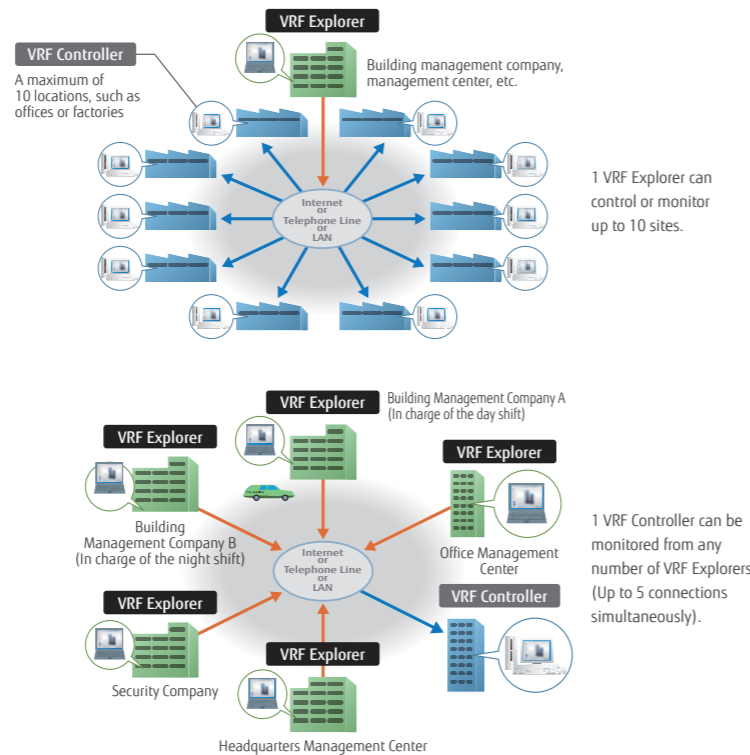
- Standard for System Controller
- Option for System Controller Lite UTU-PLGXR2

System Controller may be used on site or remotely over various networks for remote central control. System Controller requires 2 software 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.

On site central control



Remote central control



Energy saving management

- Option for System Controller UTU-PEGXZ1
- Option for System Controller Lite UTU-PLGXE2

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



Energy Saving Management Main Screen

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

Indoor unit rotation operation

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

Peak cut operation

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

Outdoor unit capacity save

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

FUNCTIONS SUMMARY

Function	Type	System controller		System controller lite					
		UTU-APGXZ1	Option UTU-PEGXZ1	UTU-ALGXZ1	Option UTU-PLGX2	Option UTU-PLGXA2	Option UTU-PLGXE2	Option UTU-PLGXX2	
System specification	Max. VRF networks supported	4	—	1	—	—	—	—	
	Max. indoor unit / remote controller groups per VRF network	400	—	400	—	—	—	—	
	Max. outdoor units per VRF network	100	—	100	—	—	—	—	
	Max. indoor units / remote controller groups per System controller	1600	—	400	—	—	—	—	
Site supervision	Max. outdoor units per System controller	400	—	100	—	—	—	—	
	Multi site display	10	—	10	—	—	—	—	
	Number of building / 1 site	20	—	—	—	—	—	—	
	Number of floor per 1 site	200	—	—	—	—	—	—	
	Number of floor per 1 building	50	—	—	—	—	—	—	
	3D graphical layout view	●	—	—	—	—	—	—	
	2D graphical layout view	●	—	—	—	—	—	—	
Error management	List display	●	—	●	—	—	—	—	
	Tree display	●	—	—	—	—	—	—	
	Group display	●	—	●	—	—	—	—	
History	Error notification	●	—	●	—	—	—	—	
	Audible alarm	●	—	●	—	—	—	—	
Operation control	Error e-mail notification	●	—	—	—	—	—	—	
	Individual control	●	—	●	—	—	—	—	
	Individual management	Error history	●	—	●	—	—	—	—
		Operation history	●	—	●	—	—	—	—
		Control history	●	—	●	—	—	—	—
		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	●	—	●	—	—	—	—		
Temperature upper and lower limit setting	●	—	●	—	—	—	—		
Filter sign reset	●	—	●	—	—	—	—		
Memory operation	●	—	●	—	—	—	—		
Pattern operation	●	—	●	—	—	—	—		
Schedule	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	●	—	●	—	—	—	—	
Electricity charge apportionment	Remote operation control	●	—	●	—	—	—	—	
	Remote function setting	●	—	●	—	—	—	—	
	Apportionment charge/bill calculation	●	—	●	—	—	—	—	
	Tenant (block) setting	●	—	●	—	—	—	—	
Energy saving management	Common facilities apportionment setting	●	—	●	—	—	—	—	
	Rated power consumption allotment setting	●	—	●	—	—	—	—	
	Individual calculation at cooling and heating	●	—	●	—	—	—	—	
	Electricity meter supported	●	—	●	—	—	—	—	
External Device Control	Indoor unit rotation	●	—	●	—	—	—	—	
	Peak cut control	●	—	●	—	—	—	—	
	Outdoor unit capacity save	●	—	●	—	—	—	—	
	Record of energy saving operation	●	—	●	—	—	—	—	
Others	Energy saving information	●	—	●	—	—	—	—	
	Power consumption monitor	●	—	●	—	—	—	—	
	Electricity meter supported	●	—	●	—	—	—	—	
	Monitor	●	—	●	—	—	—	—	
Control	Control	●	—	●	—	—	—	—	
	Database import/export	●	—	●	—	—	—	—	
	Automatic clock adjustment	●	—	●	—	—	—	—	
	Multi language	7 languages	—	7 languages	—	—	—	—	
Power shutdown	Refrigerant leakage detection function	●	—	●	—	—	—	—	
	Power shutdown	●	—	●	—	—	—	—	

●: Available. -: Not available.

Personal computer system requirements

The required PC specifications are shown in the following table.

	System Controller		System Controller Lite			
	System Controller	Option	System Controller Lite	Option	Option	Option
Operating system	• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish		• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish			
CPU	Intel® Core™ i3 2 GHz or higher		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)		• 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		40 GB or more of free space			
Display	1024 x 768 or higher resolution		1024 x 768 or higher resolution			
Interface	• Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) • USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 2 USB ports are required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB port depends on the applicable system configuration.		• Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) • USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 4 USB ports are required for WHITE-USB-KEY/WibuKey connection - 1 USB port is required for Echelon® U10 USB Network Interface * The maximum number of required USB port depends on the applicable system configuration.			
Graphic accelerator	Microsoft® DirectX® 9.0c compatible		Microsoft® DirectX® 9.0c compatible			
Software	Adobe® Acrobat Reader® 9.0 or later		Adobe® Acrobat Reader® 9.0 or later			

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

PACKING LIST

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

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

BACnet® Gateway

UTY-ABGXZ1 (Software)



WHITE-USB-KEY
(Software Protection Key)

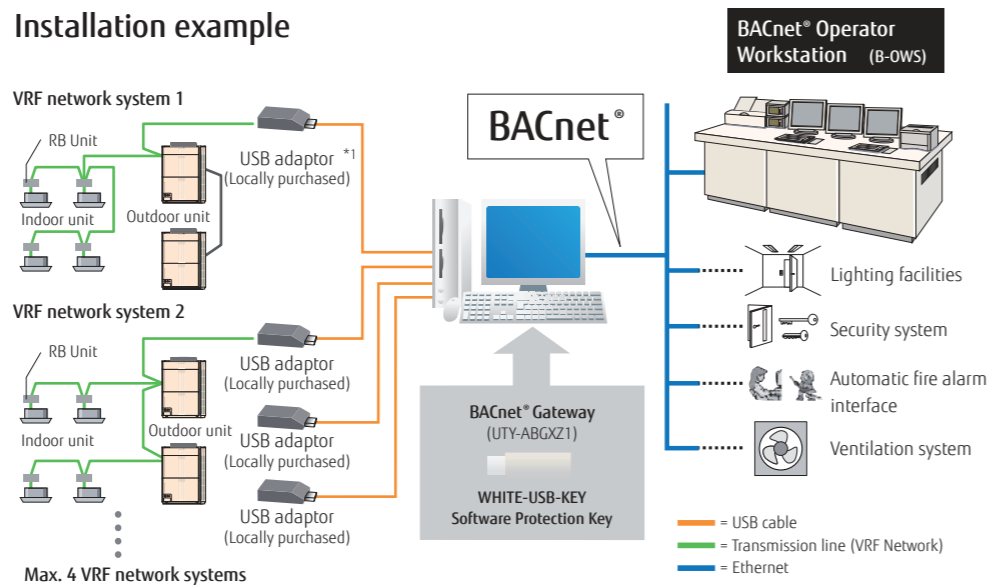


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- Maximum Controllable **4** VRF network systems
- Maximum Controllable **400** outdoor units
- Maximum Controllable **1,600** indoor units

- 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.

Installation example



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

Personal computer system requirements

	UTY-ABGXZ1
Operating system	<ul style="list-style-type: none"> • Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher
Memory	<ul style="list-style-type: none"> • 2 GB or more (for Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	<ul style="list-style-type: none"> • Ethernet port (for getting access to the Internet using LAN) • USB ports (Maximum of 5 ports) - 1 USB port is required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB ports depends on the applicable system configurations.
Software	Adobe® Acrobat 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

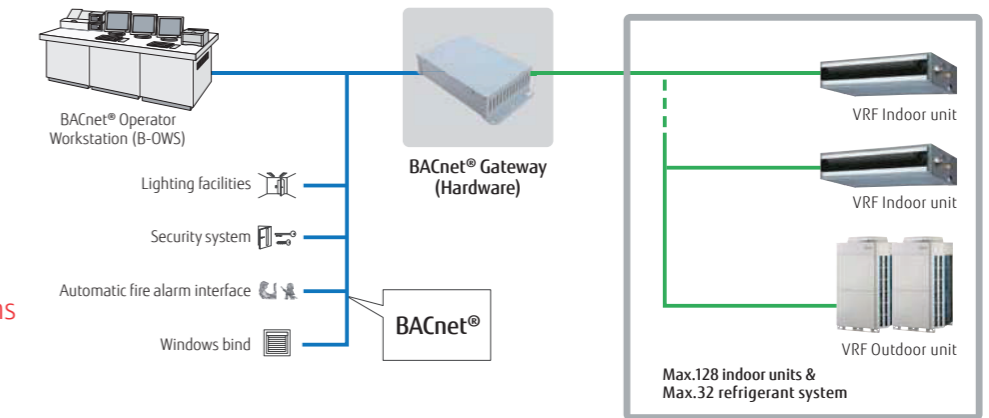
UTY-VBGX (Hardware)



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- Maximum Controllable **1** VRF network system
- Maximum Controllable **32** refrigerant systems
- Maximum Controllable **128** indoor units

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	Single phase, 100-240V, 50/60 Hz
Power Consumption (W)	4.6 (max.)
Dimensions (H × W × D) (mm)	59.6 × 270.4 × 176
Weight (g)	1200

Multi Protocol LAN Interfaces

FG-TL-MBS16Z1



NEW

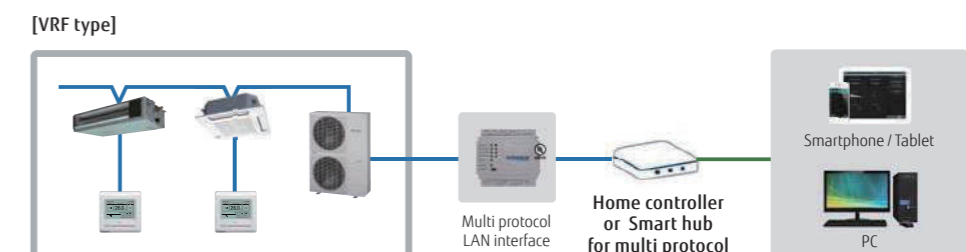


FG-TL-MBS16Z1
(VRF type)

No separate external power supply required

- Can be used for 16 indoor units.

Installation example



- Maximum Connectable **16** indoor units

Specifications

Model name	FG-TL-MBS16Z1 (VRF type)
Power Supply	9 to 36VDC, Max.: 140mA or 24VAC 50-60Hz, Max.: 127mA.*
Input power (W)	1.7
Dimensions (H × W × D) (mm)	90 × 88 × 56
Weight (g)	330

*Recommended: 24VDC.

BACnet® / MODBUS® Router

FG-RTR-BAC32Z1 / FG-RTR-MBS32Z1



NEW



FG-RTR-BAC32Z1 (BAC net)

NEW



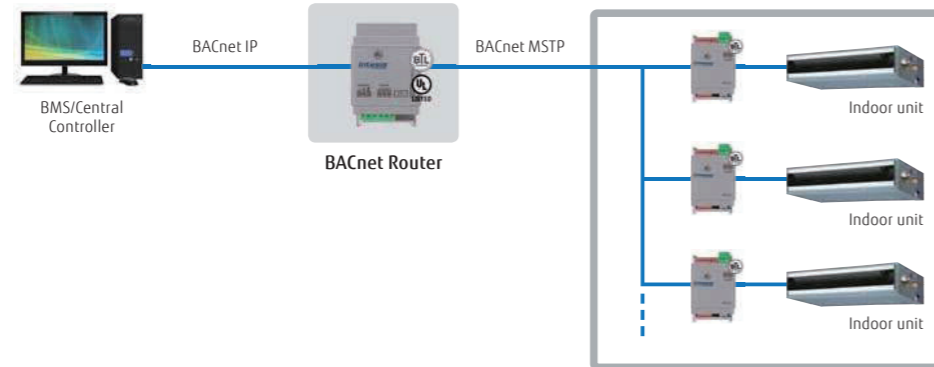
FG-RTR-MBS32Z1 (MODBUS)

Routing between BACnet MS/TP and BACnet IP networks

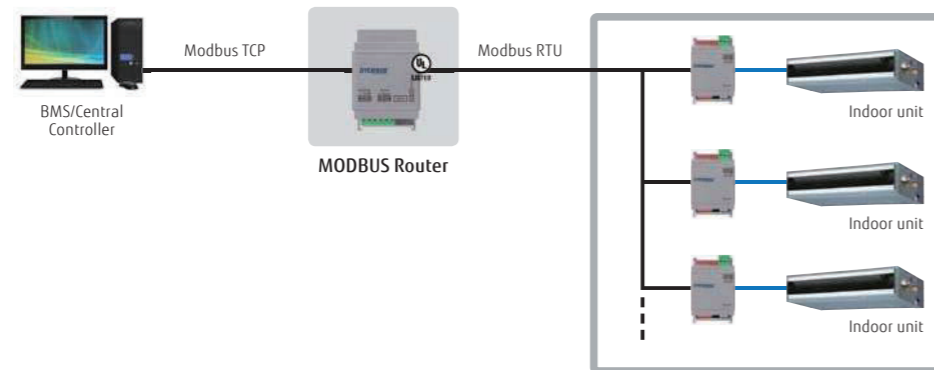
- Routing between BACnet MS/TP and BACnet IP networks
- Routing between Modbus RTU and Modbus TCP networks

Installation example

[BACnet type]



[MODBUS type]



Specifications

Model name	FG-RTR-BAC32Z1 (MS/TP to IP)	FG-RTR-MBS32Z1 (RTU to TCP)
Number of routable devices (max.)	32	32
Power Supply	9-36VDC / 24VAC / 50-60 Hz / 140mA	9-36VDC / 24VAC / 50-60 Hz / 140mA
Power Consumption (W)	1.7	1.7
Dimensions (H x W x D) (mm)	93 x 53 x 58	93 x 53 x 58
Weight (g)	150	150

BACnet® / MODBUS® Cloud device

FG-CLD-BMG4Z1 / FG-CLD-BMG8Z1 / FG-CLD-BMG16Z1 / FG-CLD-BMG32Z1



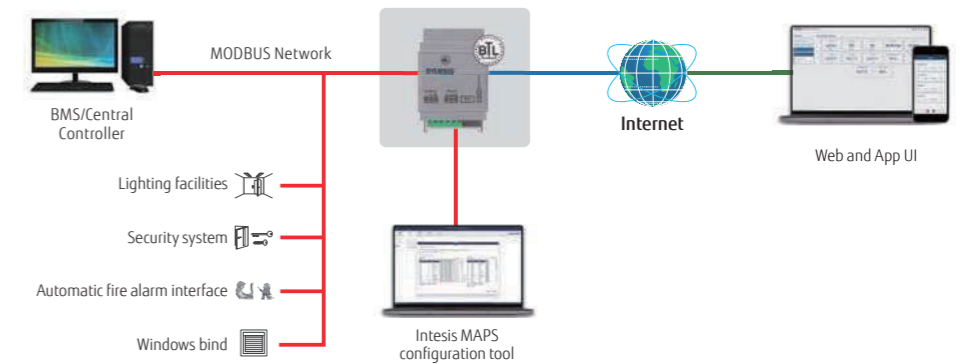
NEW



FG-CLD-BMG4/8/16/32Z1

- The most powerful configuration tool common for all Intesis gateways providing to the integrator the power to configure and monitor the system on an easy and reliable way.
- Simple, easy and useful. It is the best description or the ST Cloud Web and App User Interface. All the widgets are customizable with the content of the user's needs. System Integrators can easily offer to the customer the best user experience to control their BACnet or Modbus devices.

Installation example



*BMS: Building Management System

Gateway features

- BACnet IP/MSTP or Modbus TCP/RTU connectivity
- Up to 32 devices can be connected to each gateway.
- Up to 12 widgets per device
- Easy device configuration using Intesis MAPS

Next level service

- Industrial grade connectivity now for Building Automation
- Fast and scalable real time edge connectivity over HMS HubTM
- Full data control and protection
- Secure and remote updates during the application lifetime

System Features

- Monitor and control all devices in an intuitive way
- Comes with a native iOS and Android app and a web interface
- Create scenes and interact with multiple concurrent devices Ca
- Calendar that shows the daily planned installation commands
- Notifications keep you update about system status
- Device sharing and use permissions management
- Multiple site management from a common dashboard

Specifications

Model name	FG-CLD-BMG4Z1	FG-CLD-BMG8Z1	FG-CLD-BMG16Z1	FG-CLD-BMG32Z1
Number of connectable BACnet (IP/MSTP) or Modbus (TCP/RTU) devices	4	8	16	32
Power Supply	9-24VDC / 50-60 Hz	9-24VDC / 50-60 Hz	9-24VDC / 50-60 Hz	9-24VDC / 50-60 Hz
Power Consumption (W)	1.7	1.7	1.7	1.7
Dimensions (H x W x D) (mm)	93 x 53 x 58	93 x 53 x 58	93 x 53 x 58	93 x 53 x 58
Weight (g)	150	150	150	150

MODBUS® Convertor for VRF

UTY-VMGX / FG-TL-MBS16Z1



UTY-VMGX

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

- Compact and lightweight design
- Direct connection to MODBUS Network
- The MODBUS Convertor permits central monitoring and control of air conditioners from BMS or Central Controller.
- Up to 9 converters can be connected to a VRF network (UTY-VMGX). The simultaneous controls such as ON/OFF or temperature settings can be done for each zone.
- It is easy to locate the source of error if any connection errors should occur after completion of installation works.

Maximum Controllable
9 units to one VRF

Maximum Controllable
100 outdoor units

Selectable
128 indoor units

NEW

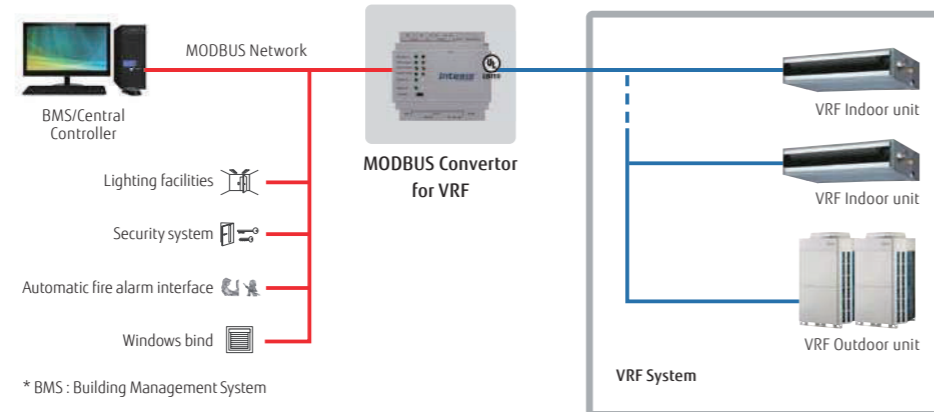
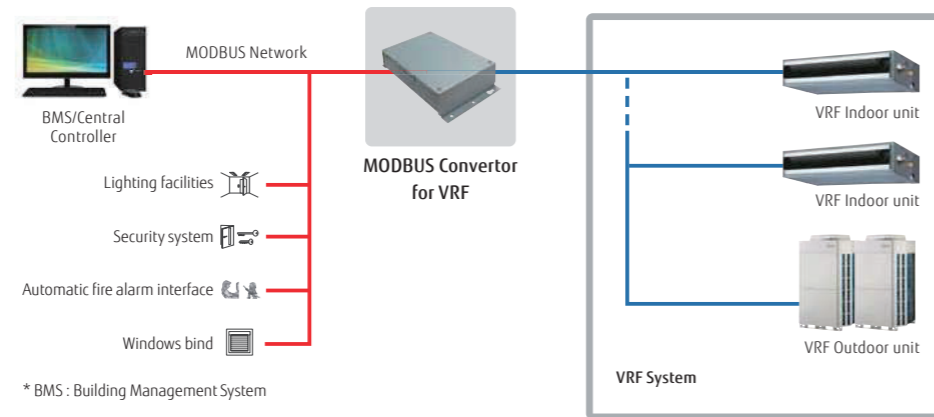


FG-TL-MBS16Z1

Maximum Controllable
16 indoor units

Maximum Controllable
16 outdoor units

Installation example



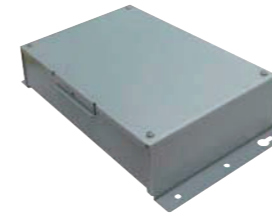
Specifications

Model name	UTY-VMGX	FG-TL-MBS16Z1
Power Supply	220-240 V 50/60 Hz	9 to 36VDC, Max.: 140mA or 24VAC 50-60Hz, Max.: 127mA.*
Input power (W)	Max. 2	1.7
Dimensions (H × W × D) (mm)	54 × 260 × 150	90 × 88 × 56
Weight (g)	1,100	330

*Recommended: 24VDC.

KNX® Convertor for VRF

UTY-VKGX / FG-TL-KNX16Z1



UTY-VKGX

KNX Convertor is useful for centralized control in a system.

- New KNX Convertor enables to connect central/home controller and Fujitsu General VRF system.
- A maximum of 128 indoor units and 100 outdoor units can be connected to single KNX Convertor. (UTY-VKGX)

Maximum Controllable
100 outdoor units

Selectable
128 indoor units

NEW

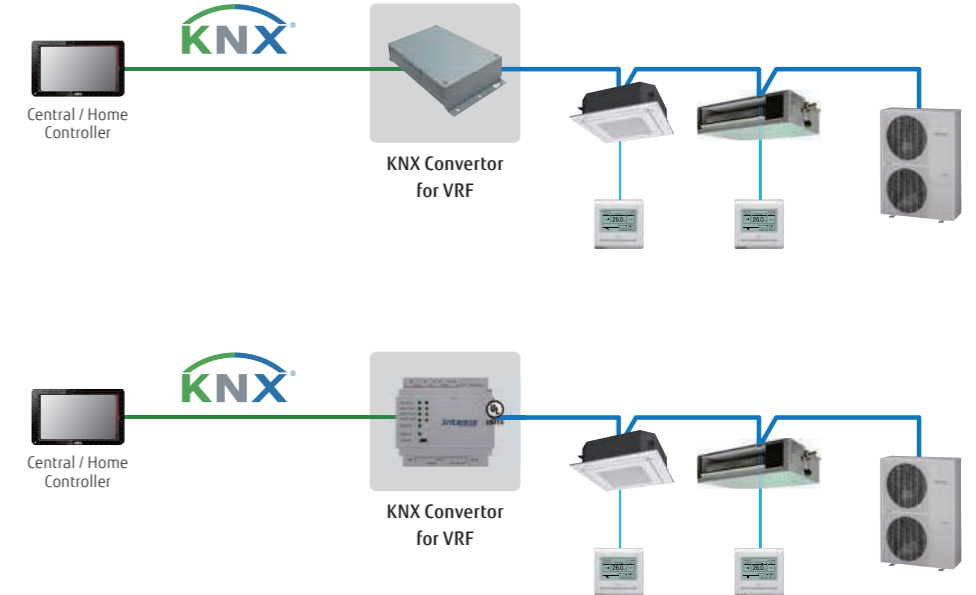


FG-TL-KNX16Z1

Maximum Controllable
16 indoor units

Maximum Controllable
16 outdoor units

Installation example



Specifications

Model name	UTY-VKGX	FG-TL-KNX16Z1
Power Supply	220-240 V 50/60 Hz	9 to 36VDC, Max.: 140mA or 24VAC 50-60Hz, Max.: 127mA.*
Input power (W)	1.5	1.6
Dimensions (H × W × D) (mm)	54 × 260 × 150	90 × 88 × 56
Weight (g)	1,200	340

*Recommended: 24VDC.

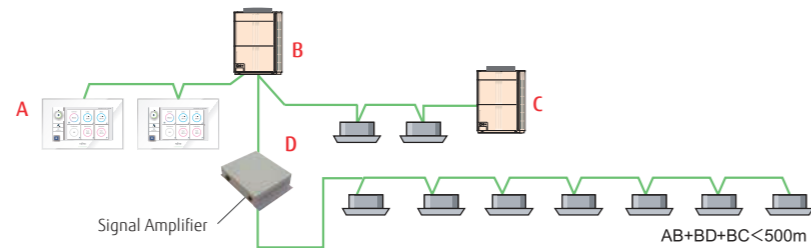
Signal Amplifier

UTY-VSGXZ1



- Transmission Line length can be extended up to 3,600 m with multiple Signal Amplifiers.
- Up to 8 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 500 m.
 - (2) When the total number of units on the transmission line exceeds 64.

Installation example

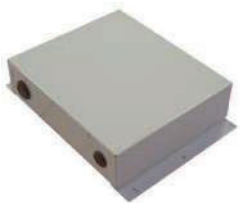


Specifications

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

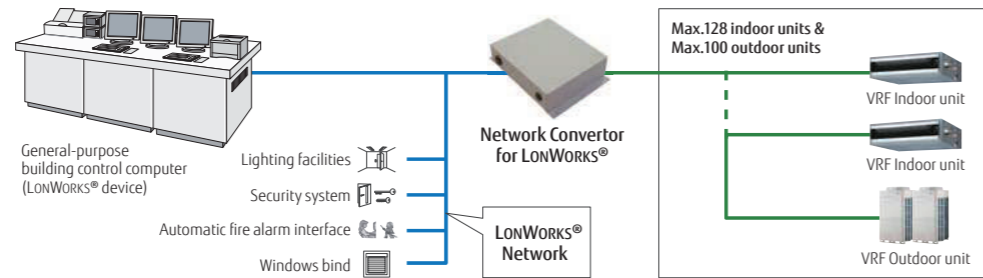
Network Converter for LONWORKS®

UTY-VLGX



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

Installation example



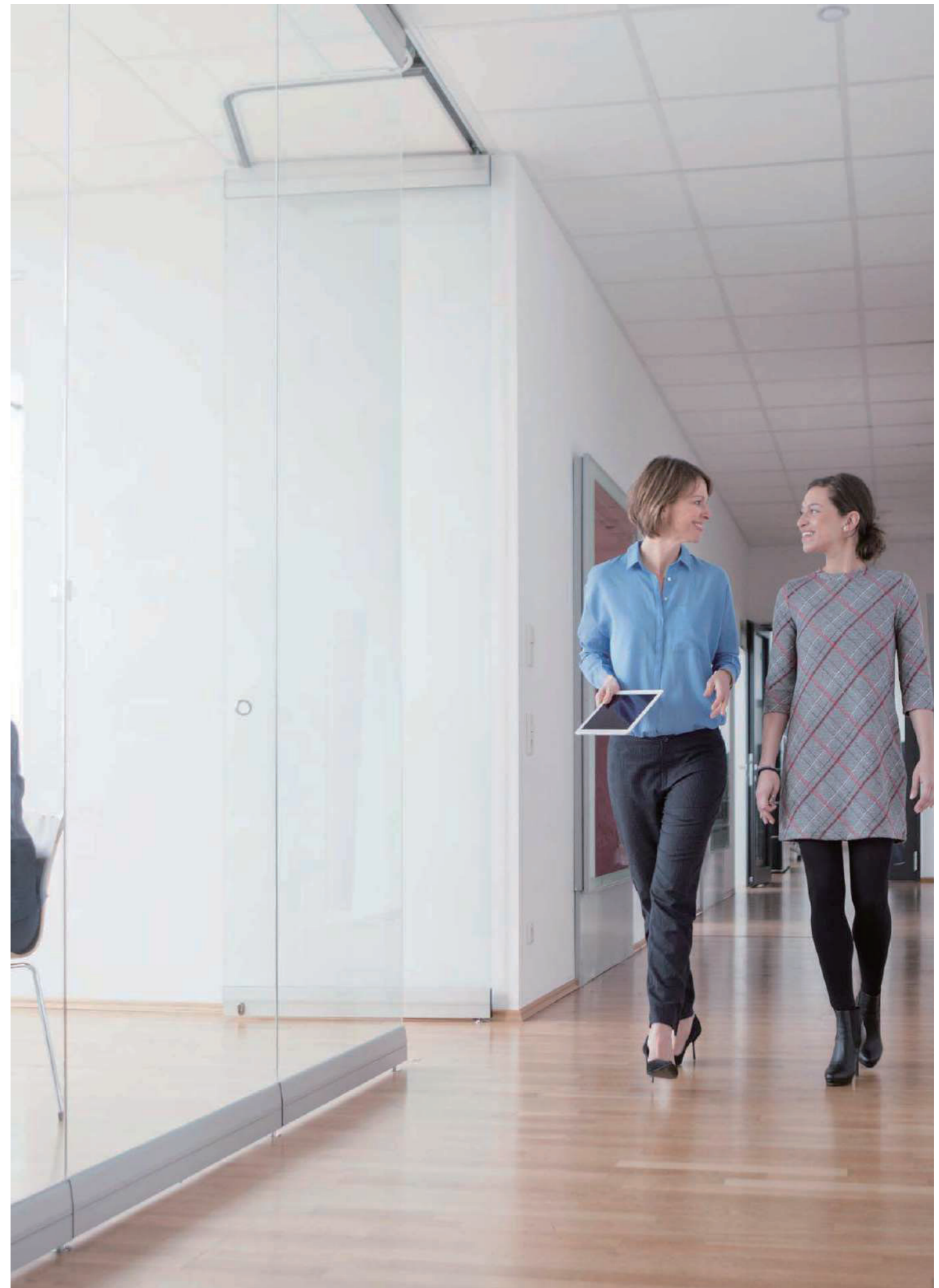
- Maximum Controllable
4 units to BMS
- Maximum Controllable
100 outdoor units
- Maximum Controllable
128 indoor units

Specifications

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

Transmission specifications (BMS side)

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



Controller System List (available) For Split/Multi-split

Controller Options / Accessories:



Type	Refrigerant	Indoor unit																			Outdoor unit	
		Wall Mounted							Cassette		Duct	Duct					Indoor unit				Multi-split	Single Phase
		Flagship Series	Designer Series		Standard Series		ECO Series	Compact 4-way Flow Series	Circular Flow Series	Slim	Medium Static Pressure (Compact & Comfort)	Medium Static Pressure (Standard)	High Static Pressure		BIG	Floor	Ceiling	Wall Mounted	Compact Cassette	Mini Duct	Slim Duct	5/6/8unit multi-split
ASYG 12KXCA	ASYG 07/09/12/14 KGTB	ASYG 07/09/12/14 KETA, KETA-B	ASYG 07/09/12/14 KMCC	ASYG 18/24KMTB	ASYG 30/36KMTA	ASYG 07/09/12 KPCA	AUXG 09/12/14/18/22/24 KVLA	AUXG 18/22/24/30/36/45/54 KRLB	ARXG 09/12/14/18 KLLAP	ARXG 12/14/18/22/24/30/36/45/54 KHTAP	ARXG22KMLB, ARXG 24/30/36/45 KMLA	ARXG 45/54KHTA	ARYG 45/54/60 LHTA	ARYG 72/90LHTA	ACYG 09/12/14 KVCA	ABYG 18/22/24/30/36/45/54 KR1A	ASYG 22KMTB	AUXG 07KVLA	ARXG 07/09/12/14/18 KSLAP	ARXG 07KLLAP	AOYG36KBTA5	
R410A																					AOYG45LBLA6 AOYG45LBT8	
Wired Remote Controller			● UTY-RNRYZ5+ UTY-TWRXZ2		● UTY-RNRYZ5+ UTY-TWRXZ2			● UTY-RNRYZ5		● UTY-RNRYZ5				● UTY-RNRYZ5	● UTY-RNRYZ5+ UTY-TWRXZ3	● UTY-RNRYZ5	● UTY-RNRYZ5+ UTY-TWRXZ2	● UTY-RNRYZ5				
			● UTY-RLRY+ UTY-TWRXZ2		● UTY-RLRY+ UTY-TWRXZ2			● UTY-RLRY		● UTY-RLRY				● UTY-RLRY	● UTY-RLRY+ UTY-TWRXZ3	● UTY-RLRY	● UTY-RLRY+ UTY-TWRXZ2	● UTY-RLRY				
			● UTY-RCRYZ1+ UTY-TWRXZ2		● UTY-RCRYZ1+ UTY-TWRXZ2			● UTY-RCRYZ1		● UTY-RCRYZ1				● UTY-RCRYZ1	● UTY-RCRYZ1+ UTY-TWRXZ3	● UTY-RCRYZ1	● UTY-RCRYZ1+ UTY-TWRXZ2	● UTY-RCRYZ1				
					● UTY-RVNYM+ UTY-TWBXFZ		● UTY-RVNYM		● UTY-RVNYM									● UTY-RVNYM				
					● UTY-RNNYM+ UTY-TWBXFZ		● UTY-RNNYM		● UTY-RNNYM									● UTY-RNNYM				
Simple Remote Controller	 2-wire type		● UTY-RSRY, UTY-RHRY+ UTY-TWRXZ2		● UTY-RSRY, UTY-RHRY+ UTY-TWRXZ2			● UTY-RSRY, UTY-RHRY, UTY-RSNYM		● UTY-RSRY, UTY-RHRY, UTY-RSNYM		● UTY-RSNYM	● UTY-RSRY, UTY-RHRY, UTY-RSNYM	● UTY-RSRY, UTY-RHRY, UTY-RSNYM	● UTY-RSRY, UTY-RHRY+ UTY-TWRXZ3	● UTY-RSRY, UTY-RHRY	● UTY-RSRY, UTY-RHRY+ UTY-TWRXZ2	● UTY-RSRY, UTY-RHRY, UTY-RSNYM				
Central Remote Controller																					● UTY-DMMYM1*3 (KBTA5) ● UTY-DMMYM*3 (LBLA6,LBT8)	
Wireless Remote Controller							● UTY-LNTY											● UTY-LNTY				
IR Receiver Unit with Wireless Remote Controller	 For Duct For Cassette												● UTY-LRHYM (60)	● UTY-LRHYM								
	 For Duct For Cassette For Ceiling						● UTY-LBTYC	● UTY-LBTYM	● UTY-LBTYM				● UTY-LBTYM	● UTY-LBTYM	● UTY-LBTYH				● UTY-LBTYM	● UTY-LBTYM		

*1: It can be used only when the wireless LAN interface (UTY-TFSXF2) is removed. *2 It can be used only when the wireless LAN interface (UTY-TFSXZ1) is removed. *3 Please consult your dealer for the condition.

Controller System List (available) For VRF

Controller Options:



Type	Refrigerant	Indoor unit																										
		Cassette						Duct						Duct						Floor				Wall Mounted				
		One-way Flow	3D Flow	Compact Grid type / Standard type	Slim type	Large type	Slim type	Large type	Low Static Pressure Duct			Medium Static Pressure	Medium Static Pressure			High Static Pressure			-	EEV external	Ceiling/Floor	Ceiling	-	EEV external	-	EEV external	-	-
					4-way Flow		Circular Flow		Mini (With drain pump)	Slim (With drain pump)	Slim High Efficiency	Normal	High Efficiency		Normal	High Efficiency												
AUXV 004/007/009/ 012/014/018/ 024GLEH	AUXS 018/024 GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXD 18/24GALH	AUXA 18/24/30/ 34/36/45/54 GALH	AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH	AUXK 018/024/030/ 034/036/045/ 054GLEH	ARXK 004/007/009/ 012/014/018/ 024GLGH	ARXD 04GALH	ARXD 007/009/012/ 014/018/024 GLEH	ARXP 009/012/ 014/018 GLAH	ARXA 024/030/ 036/045 GLEH	ARXQ 018/024 GTAH	ARXP 024/030 GTAH	ARXC 036/072/ 090/096 GTEH	ARXC 45/60GATH	ARXQ 030GTAH	AGYA 004/007/ 009/012/014 GCGH	AGYE 004/007/ 009/012/014 GCEH	ABYA 012/014/ 018/024 GTEH	ABYA 030/036/ 045/054 GTEH	ASVA 004/007/009 GCGH	ASVE 004/007/009 GCEH	ASVA 012/014GCGH	ASVE 012/014GCEH	ASVA 18/24GBCH	ASVA 030/034GTEH		
Controllers		● UTY-RNRYZ5																										
		● UTY-RLRY																										
		● UTY-RCRYZ1																										
Simple Remote Controller	 2-wire type 3-wire type	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	● UTY-RSRY UTY-RHRY	● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHKY	
Wireless Remote Controller		● UTY-LNHY																										
IR Receiver Unit		● UTY-TRHX	● UTY-LRHYB1	● UTY-LBHXD	● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC	● UTY-TRHX	● UTB-YWC
Central Remote Controller		● UTY-DCGYZ2																										
Touch Panel Controller		● UTY-DTGYZ1																										
System Controller, System Controller Lite		● UTY-APGXZ1, UTY-ALGXZ1																										

Optional Parts Overview

For Split & Multi-split, VRF

Various optional parts are provided to install the selected indoor unit properly according to the environment.

Optional Parts For Cassette



Human Sensor Kit

The room temperature can be controlled by detecting the temperature accurately from the built-in sensor



Cassette Grille

Cassette grille lineup matching the various interior is available. In addition, grid ceiling type cassette grille is also added to the lineup.



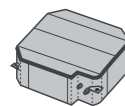
Silver ion filter

The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.*



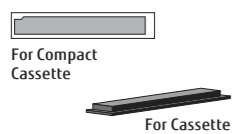
Fresh Air Intake Kit

Fresh air can be taken in by a fan which can be connected using external control unit.



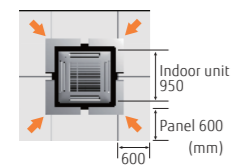
Insulation for High Humidity

For Compact Cassette type/ Cassette type
Insulation for High Humidity is used when the installation location is in the high humidity environment.



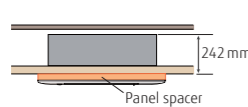
Air Outlet Shutter Plate

According to the installation site, the number of outlet directions can be changed to 3 directions by Air Outlet Shutter Plate.



Wide Panel

When the cassette type is installed at the narrow space above ceiling, the space can be filled in by Wide Panel.



Panel Spacer

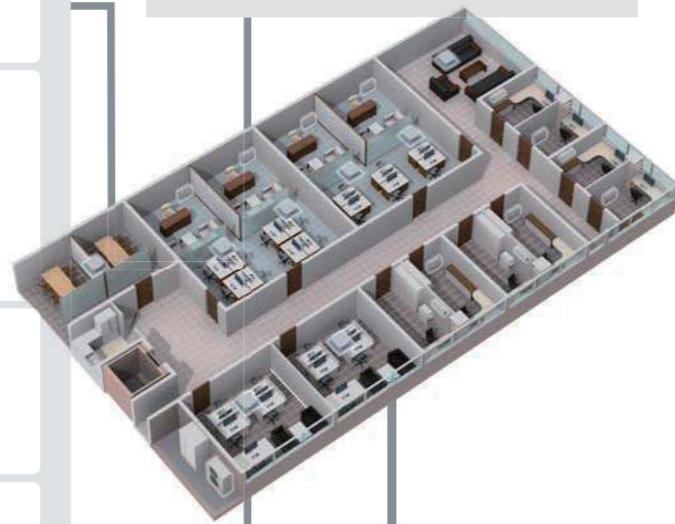
When the space above the ceiling is low and the main body is projected out of the ceiling surface, Panel Spacer can be used as decoration

Optional Parts For V-III

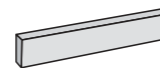


Pressure sensor kit

The height difference between the pressure sensor kits can be expanded up to 110m.



Optional Parts For Floor



Half Concealed Kit

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



Silver ion filter

The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.*



Optional Parts For Duct & Ceiling



Auto Louver Grille Kit

Simple flat Auto louver will provide comfort airflow and harmonize with luxury Interior



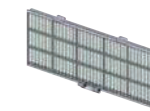
Remote Sensor Unit

New amenity space can be offered by installing the Remote sensor.



Silver ion filter

The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.*



Long Life Filter

Grit and dust can be caught sufficiently. In consideration of running cost, long-life design is achieved.



Flange

Flange is used for Medium Static Pressure Duct type and Ceiling type to connect between pipes.



Drain Pump Unit

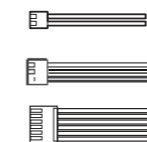
This device can drain the collected water during operation.

Connection Parts



Communication Kit

For wall mounted type, this kit is required when External Connect kit & Set or wired remote controller is connected to indoor unit.



External Connect Kit & Set

These wires can connect between the product PCB and external device.



Connection Units

Connection units are provided to separate the pipes at the connection of multiple indoor units in multi-split type or VRF system.



External Power Supply Unit

External Power Supply Unit can protect the units in the system even if some powers of indoor units are shut down in the system.



External Input and Output PCB

For Wall mounted, Duct, or Cassette type, these parts are required when external input and output function is used.



For Duct and Cassette type



External Input and Output PCB Box & Bracket

These are the box and bracket for installing the External input and output PCB

*Not a result of experiments in an actual use environment. Silver ion filter inhibits activity or growth of microorganism, but do not prevent infection.

Silver Ion Filter

UTR-FA16-5 / UTR-FA13-3 / UTR-FA03-5 / UTD-HFAA / UTD-HFRA / UTD-HFTA / UTD-HFTB / UTD-HFTC / UTD-HFNC / UTD-HFNB / UTD-HFNA / UTD-HFND / UTD-HFKB / UTD-HFKA



NEW



For Wall mounted / Floor
UTR-FA16-5 / UTR-FA13-3
UTR-FA03-5

For Cassette
UTD-HFAA / UTD-HFRA

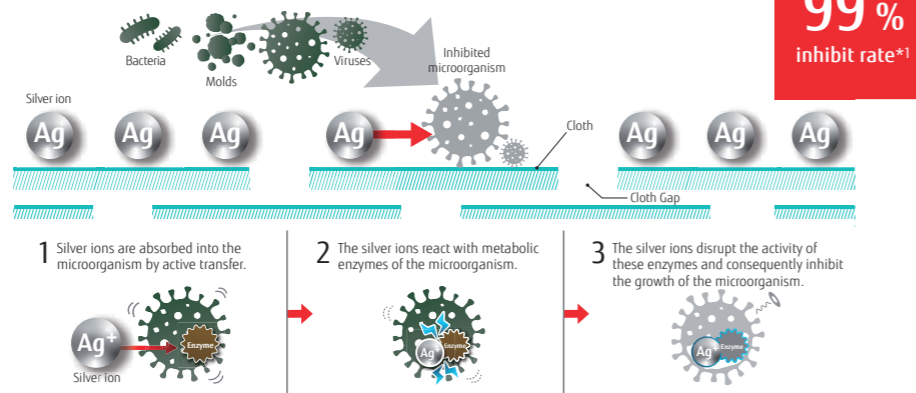
For Duct
UTD-HFTA / UTD-HFTB
UTD-HFTC / UTD-HFNC
UTD-HFNB / UTD-HFNA
UTD-HFND / UTD-HFKB
UTD-HFKA

The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.

(Not a result of experiments in an actual use environment. Silver ion filter inhibits activity or growth of microorganism, but do not prevent infection.)

The silver ion filter inhibits the activities of viruses*1, bacteria*2 and molds*3 trapped on the filter.

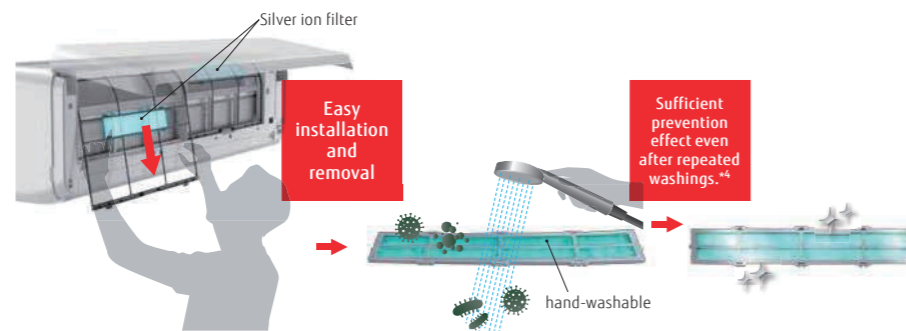
(Only effective when the microorganism is trapped on the filter with dust or droplet)



*1 [Testing organization] Kitasato Research Center for Environmental Science [Test Report] No. 2020_0408 [Test virus] Escherichia coli phage Qbeta NBRC 20012 (1 type) [Test Method] Based on the antiviral test method for textile products (JIS L 1922) [Test results] Inhibited by at least 99% in 24 hours. Not tested to prevent transmission of SARS-CoV-2.
*2 [Testing organization] Kitasato Research Center for Environmental Science [Test Report] No. 2020_0409 [Test bacteria] Escherichia coli NBRC 3972 (1 type) [Test Method] Based on the determination of antibacterial activity and efficacy of textile products (JIS L 1902) [Test results] The growth of the test bacteria was inhibited by 24 hours testing
*3 [Testing organization] Kitasato Research Center for Environmental Science [Test Report] No. 2020_0410 [Test fungi] Aspergillus Niger NBRC 105649 and other fungi (3 types) [Test Method] Based on the test for fungus resistance (JIS Z 2911) [Test results] The growth of the fungus was inhibited by 28 days testing

The filter is easily removable* and hand-washable.

(*Wall mounted and floor models only)



*4 Hand-washing or vacuuming by 3 months is recommended. Cleaning frequency varies depending on the environment of use.

Specifications

Model name	For Wall mounted / Floor			for Cassette		
	UTR-FA16-5	UTR-FA13-3	UTR-FA03-5	UTD-HFAA	UTD-HFRA	
Net Dimension (H x W x D)	mm	35 x 210 x 6	50 x 364 x 6	43 x 272 x 6	350 x 125 x 6	550 x 136 x 6
Weight	g	2	2	2	7	23
Quantity		2	2	2	1	1

Model name	for Duct									
	UTD-HFTA	UTD-HFTB	UTD-HFTC	UTD-HFNC	UTD-HFNB	UTD-HFNA	UTD-HFND	UTD-HFKB	UTD-HFKA	
Net Dimension (H x W x D)	mm	290 x 70 x 6	390 x 70 x 6	290 x 70 x 6 390 x 70 x 6	620 x 88 x 6	420 x 88 x 6	620 x 88 x 6	500 x 79 x 6	420 x 125 x 6	620 x 108 x 6
Weight	g	6	8	10	8	10	16	12	16	20
Quantity		2	2	3	1	2	2	2	2	2

Auto Louver Grille Kit

UTD-GXTA-W / UTD-GXTB-W / UTD-GXTC-W



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

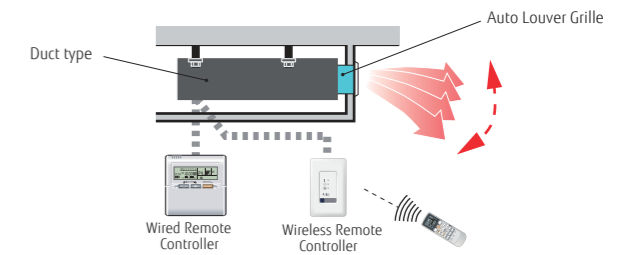


Closed louver

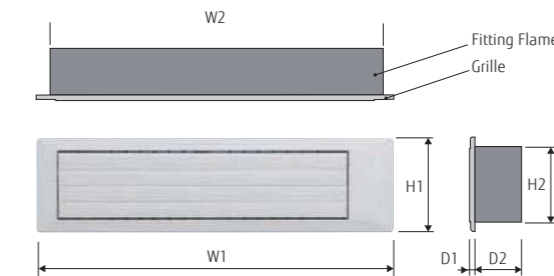
Opened louver

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	180	148	9	84
UTD-GXTC-W	1,083	1,045	180	148	9	84

Unit:mm

Specifications

Model name	UTD-GXTA-W	UTD-GXTB-W	UTD-GXTC-W		
Applicable Indoor Unit	ARYG07/09LLTA ARYG12/14LLTB ARXD007/009/012/014GLEH (For VRF) ARXK004/007/009/012/014GLEH (For VRF) ARXD04GALH (For VRF)	ARYG18LLTB ARXD018GLEH (For VRF) ARXK018GLEH (For VRF)	ARXD024GLEH (For VRF) ARXK024GLEH (For VRF)		
Power Supply	Connecting with Control box of indoor unit				
Fixing of Auto Louver Grille	Screw fixing to Flange or Square Duct				
Extension Square Duct Limit	1.0m (Max. duct length between indoor unit and Grille)				
Net Dimension (H x W x D)	mm	180 x 683 x (84 + 9)	180 x 883 x (84 + 9)	180 x 1,083 x (84 + 9)	
Weight	Net	kg	2.0 (4.4)	2.5 (5.6)	3.0 (6.7)
	Gross	(lbs)	3.0 (6.7)	3.5 (7.8)	4.0 (8.9)
Color	White				
Louver Motor	Stepping Motor				
Accessories	Fitting Flame, etc.				
operating range	Cooling	°C	18 to 32		
	Heating	% RH	80% or less		
		°C	16 to 30		

Pressure Sensor Kit

UTY-SPWX

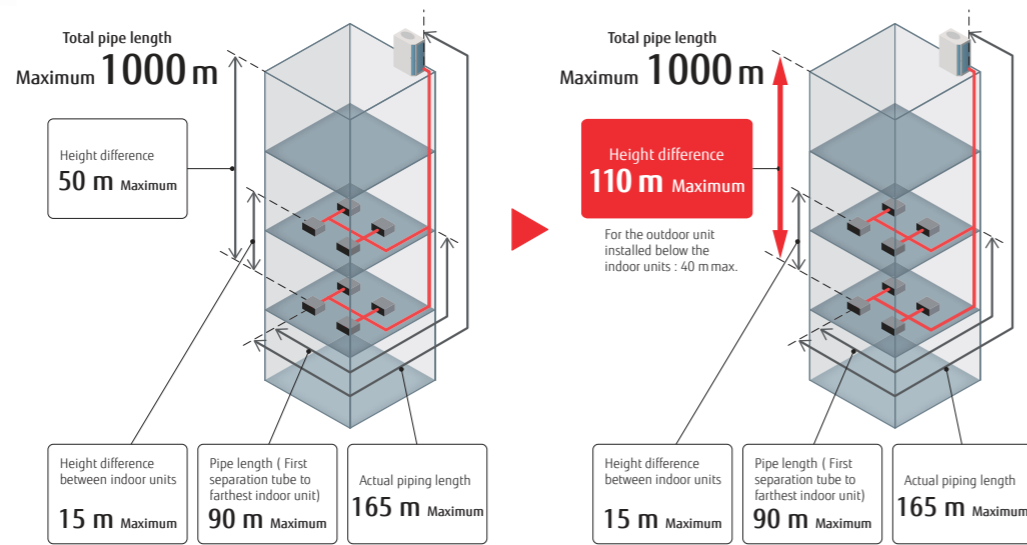


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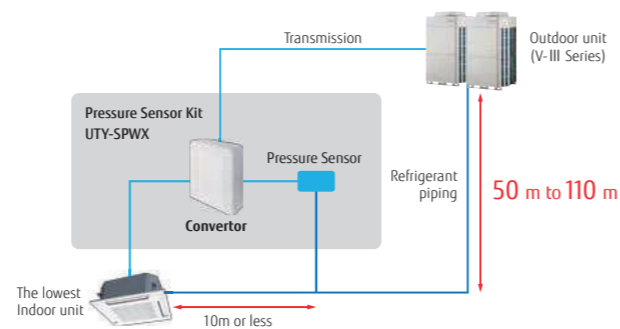


Design Flexibility

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.



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 × W × D) (mm)	140 × 117 × 43
Weight (g)	200

External Power Supply Unit

UTZ-GXXC



NEW

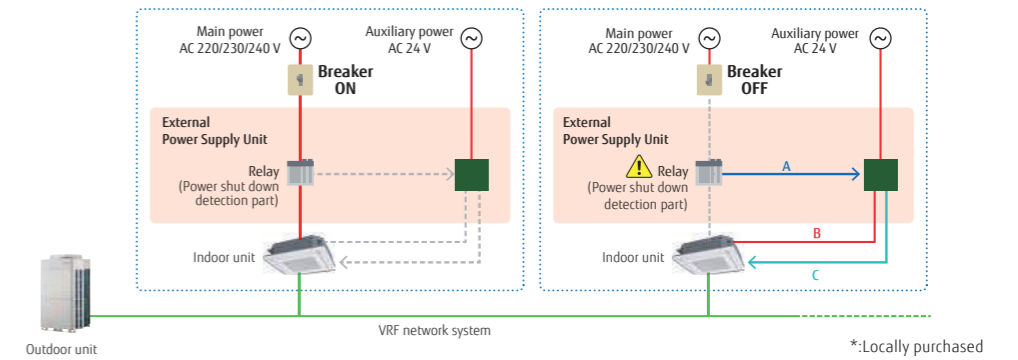


External Power Supply Unit can protect the units in the system even if some powers of indoor units are shut down in the system.

Power is supplied to the indoor unit from auxiliary power by connecting to External Power Supply Unit. This makes it possible to operate continuously without system error. Built-in relay can reduce the installation time and cost.

High Reliability

- A: Main power shut down can be detected at power shut down detection part.
- B: The power for indoor unit expansion valve drive, etc. is supplied. (DC 12V, 5V)
- C: Power supply from External Power Supply Unit is notified.



Note

- When changing the power supply voltage to AC24V, use a power transformer with an insulated structure that complies with the regulations * of the installation area.
- Indoor units that are powered off and driven by an External Power Supply Unit are handled in the same manner as operation off units in the electricity charge apportionment function. Since standby power may be charged to them, the electricity charge apportionment result for them may not be 0.

* For example UL Class II or IEC 61558 Class III

Specifications

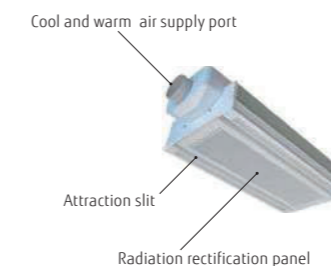
Model name	UTZ-GXXC
Power Supply	24VAC 50/60Hz
Dimensions (H × W × D) (mm)	97 × 200 × 178
Weight (g)	800

AIR BEAM Radiation Air Outlet Unit

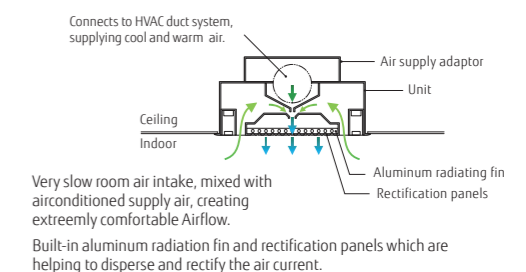
*Production by order
 Please get in touch with us for more details.



Key component



Cross-section view



Airflow rate (m ³ /h)	180 (160-215)	270 (240-325)
Grid	600 × 2	600 × 3
AIR BEAM For system ceiling (Integrated type)	KS-180	KS-270

Optional Parts List For Split/Multi-split



Type	Refrigerant	Indoor unit							Indoor unit							
		Cassette		Duct			Duct	Floor	Ceiling	Wall Mounted	Multi-split					
		4-way Flow Compact	Circular Flow	Slim	Medium Static Pressure (Compact & Comfort)	Medium Static Pressure (Standard)	High Static Pressure				Big	4-way flow Compact Cassette	Mini Duct	Slim Duct	Floor Ceiling	
		AUXG 09/12/14/ 18/22/24 KVLA	AUXG 18/22/24/ 30/36/45/54 KRLB	ARXG 09/12/14/18 KLLAP	ARXG 12/14/18/22/ 24/30/36/45/54 KHTAP	ARXG 22/24/30/36/45 KMLA	ARXG45/54KHHTA			ACYG 09/12/14 KVCA	ABYG 18/22/24/30/ 36/45/54 KRTA	ASYG 07/09/12 KPCA	AUXG07KVLA	ARXG 07/09/12/14/18 KSLAP	ARXG07KLLAP	
							ARYG45/54/60LHTA	ARYG72/90LHTA					AUYG07/09LVLA	ARYG07/09LSLAP	ARYG07/09LLTA	ABYG14LVTA
Human Sensor Kit			• UTY-SHZXC													
Remote Sensor Unit				• UTY-XSZX				• UTY-XSZX						• UTY-XSZX		
Cassette Grille		• UTG-UFYF-W	• UTG-UKYA-W, UTG-UKYC-W, UTG-UKYA-B										• UTG-UFYF-W (KVLA), UTG-UFYD-W (LVLA)			
Auto Louver Grille Kit				• UTD-GXTA-W (09/12/14) UTD-GXTB-W (18)										• UTD-GXTA-W (07/09/12/14), UTD-GXTB-W (18)		
Long Life Filter					• UTD-LFNA (36/45/54) UTD-LFNB (18/22/24/30) UTD-LFNC (12/14)	• UTD-LF25NA	• UTD-LF60KA (45/54)		• UTD-LFKA							
Flange						• UTD-SF045T UTD-RF204										
Drain Pump Unit						• UTZ-PX1NBA		• UTZ-PX1NAB		• UTR-DPB24T						
Wide Panel			• UTG-AKXA-W													
Panel Spacer			• UTG-BKXA-W													
Fresh Air Intake Kit		• UTZ-VXAA	• UTZ-VXRA										• UTZ-VXAA			
Air Outlet Shutter Plate		• UTR-YDZB	• UTR-YDZK										• UTR-YDZB			
Insulation for High Humidity		• UTZ-KXGC	• UTZ-KXRA										• UTZ-KXGC			
Half Concealed Kit									• UTR-STA							
L-type Piping Kit											• UTP-FX24A (18/22/24) UTP-FX35A (30/36/45/54)					
Remote Controller Holder													• UTZ-RXLA			

Function List For VRF



External Input and Output Function/External Connect Kit

Type	Refrigerant	Indoor unit														Indoor unit										Outdoor unit						Controller	Other						
		Cassette														Duct										Wall Mounted						J-IVL	J-IV	J-IVS	V-III	V-III Tropical	VR-IV	Central Remote Controller	RB Unit
		One-way Flow		3D Flow		Compact Grid type / Standard type		Slim type		Large type		Slim type		Large type		Low Static Pressure		Medium Static Pressure		High Static Pressure		Duct High Static Pressure		Floor		Floor / Ceiling		EEV external		EEV external									
		4-way Flow		Circular Flow		Mini (With drain pump)		Slim (With drain pump)		Slim High Efficiency		Normal		High Efficiency		Normal		High Efficiency		EEV external		EEV external		EEV external		EEV external													
AUXV 004/007/009/ 012/014/018/ 024GLEH	AUXS 018/024 GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXD 18/24GALH	AUXA 18/24/30/ 34/36/45/54 GALH	AUXN 009/012/014 GLAH	AUXK 018/024/030/ 034/036/045/ 054GLEH	ARXK 004/007/009/ 012/014/018/ 024GLEH	ARXD 007/009/012/ 014/018/024 GLEH	ARXP 009/012/ 014/018 GLAH	ARXA 024/030/ 036/045 GLEH	ARXO 018/024 GTAH	ARXP 024/030 GTAH	ARXC 036/072/090/ 096GTEH, ARKE- 45/60GATH	ARXO 036/TAH	AGYA 064/087/ 009/012/014 CCGH	AGYE 084/107/ 009/012/014 GCEH	ABYA 012/014/018/ 024GTEH	ABYA 030/036/045/ 054GTEH	ASVA 004/007/009/ 012/014 CCGH	ASVE 004/007/009/ 012/014 GCEH	ASVA 18/24GTEH	ASVA 030/034GTEH	AJY 072/090/108/ 126/144/162 LELBH	AJY 040/045/054 LELBH, AJY 040/045/054 LELBH	AJY 040/045/054 LCLBH	AJY 072/090/108/ 126/144/162 LALBH	AJY 072/090/108/ 126/144/162 LNLBH	AJY 072/090/108/ 126/144 GALBH	UTY-DCYZ2	UTP-RX01AH UTP-RX01BH UTP-RX01CH UTP-RX04BH UTP-RX08AH UTP-RX12AH									
Indoor	Operation / Stop	● UTY-XWZXZD ○ UTY-XWZXZB														● UTY-XWZXZD ○ UTY-XWZXZB																							
	All On / All Off																																● UTY- XWZXZ7 ○ UTY- XWZXZ8						
	Batch Stop																									● UTY-XWZXZ6													
	Forced Stop	● UTY-XWZXZD ○ UTY-XWZXZB														● UTY-XWZXZD ○ UTY-XWZXZB																							
	Emergency Stop	● UTY-XWZXZD ○ UTY-XWZXZB														● UTY-XWZXZD ○ UTY-XWZXZB										● UTY-XWZXZ6							● UTY- XWZXZ7 ○ UTY- XWZXZ8						
	Forced Thermostat off	● UTY-XWZXZE ○ UTY-XWZXZ7														● UTY-XWZXZE ○ UTY-XWZXZ7																							
	Low Noise Mode Operation																									● UTY-XWZXZ6													
	Cooling/ Heating Priority																									● UTY-XWZXZ6							● UTY- XWZXZ6 ○ UTY- XWZXZ8						
	Outdoor Unit Operation Peak Control																									● UTY-XWZXZ6													
	Power Usage Information from Electricity Meter																									● UTY-XWZXZF													
Output	Operation Status	● UTY-XWZXZC														● UTY-XWZXZC										○ UTY-XWZXZ6							○ UTY- XWZXZA						
	Error Status	● UTY-XWZXZC														● UTY-XWZXZC										○ UTY-XWZXZ6							○ UTY- XWZXZA						
	Indoor Unit Fun Operation Status	● UTY-XWZXZC														● UTY-XWZXZC																							
	Auxiliary Heater Output	● UTY-XWZXZC														● UTY-XWZXZC										● UTY-XWZXZC													
	Base Heater																									● UTY-XWZXZ9							● UTY- XWZXZ9						

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

●: Dry Contact ○: Apply Voltage

Communication system

External Connect Kit	
For Indoor unit UTY-XWZXZ7 UTY-XWZXZ8 UTY-XWZXZ9	For Outdoor unit UTY-XWZXZ6 UTY-XWZXZ7 UTY-XWZXZ8 UTY-XWZXZ9
For RB unit UTY-XWZXZ6 UTY-XWZXZ7 UTY-XWZXZ8	For Central Remote Controller UTY-XWZXZ7 UTY-XWZXZ8 UTY-XWZXZA
For Touch Panel Controller UTY-XWZXZA	

Separation Tube etc.



For SPLIT / MULTI-SPLIT / SIMULTANEOUS MULTI-SPLIT

Separation Tube		Branch Box	
UTP-SX236A / UTP-SX254A For 3 phase simultaneous multi-split UTP-SX272A For Simultaneous multi-split Twin / Triple / Double Twin 	UTP-SX354A For 3 phase simultaneous multi-split UTP-SX372A For Simultaneous multi-split Twin / Triple / Double Twin 	UTP-SX248A For 8-unit multi-split Liquid pipe Gas pipe 	UTP-PY03A UTP-PY02A For 8-unit multi-split 3 zones type 2 zones type



For VRF

Separation Tube			
UTP-AX054A Gas Pipe Liquid Pipe 	UTP-AX090A Gas Pipe Liquid Pipe 	UTP-AX180A Gas Pipe Liquid Pipe 	UTP-AX567A Gas Pipe Liquid Pipe
UTP-BX090A Suction Gas Pipe Discharge Gas Pipe Liquid Pipe 	UTP-BX180A Suction Gas Pipe Discharge Gas Pipe Liquid Pipe 	UTP-BX567A Suction Gas Pipe Discharge Gas Pipe Liquid Pipe 	UTP-LX180A For DX-Kit

Header

UTR-H0906L / UTR-H1806L Gas Pipe Liquid Pipe 	UTR-H0908L / UTR-H1808L Gas Pipe Liquid Pipe 	UTP-J0906A / UTP-J1806A Suction Gas Pipe Discharge Gas Pipe Liquid Pipe 	UTP-J0908A / UTP-J1808A Suction Gas Pipe Discharge Gas Pipe Liquid Pipe
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Outdoor Unit Branch Kit

UTP-CX567A Gas Pipe Liquid Pipe 	UTP-DX567A Suction Gas Pipe Discharge Gas Pipe Liquid Pipe
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For VRF

EV Kit
Model code \leq 09 : UTR-EV09XB Model code \geq 12 : UTR-EV14XB For Compact Wall Mounted type

RB Unit			
UTP-RX01AH / UTP-RX01BH / UTP-RX01CH Single type 	UTP-RX04BH Multi-split type 	UTP-RX08AH Multi-split type 	UTP-RX12AH Multi-split type

Specifications

Separation Tube

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

Model name	UTP-BX090A	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/V-III Tropical)	UTP-DX567A (for VR-IV)
Number of outdoor unit	2 outdoor units	1
	3 outdoor units	2

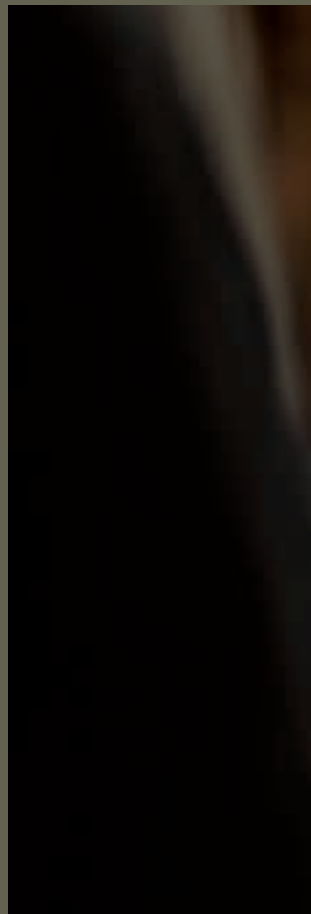
EV Kit

Model name	UTR-EV09XB		UTR-EV14XB	
Application model	ASYE004GCEH ASYE007GCEH ASYE009GCEH	AGYE004GCEH AGYE007GCEH AGYE009GCEH	ASYE012GCEH ASYE014GCEH	AGYE012GCEH AGYE014GCEH

RB Unit

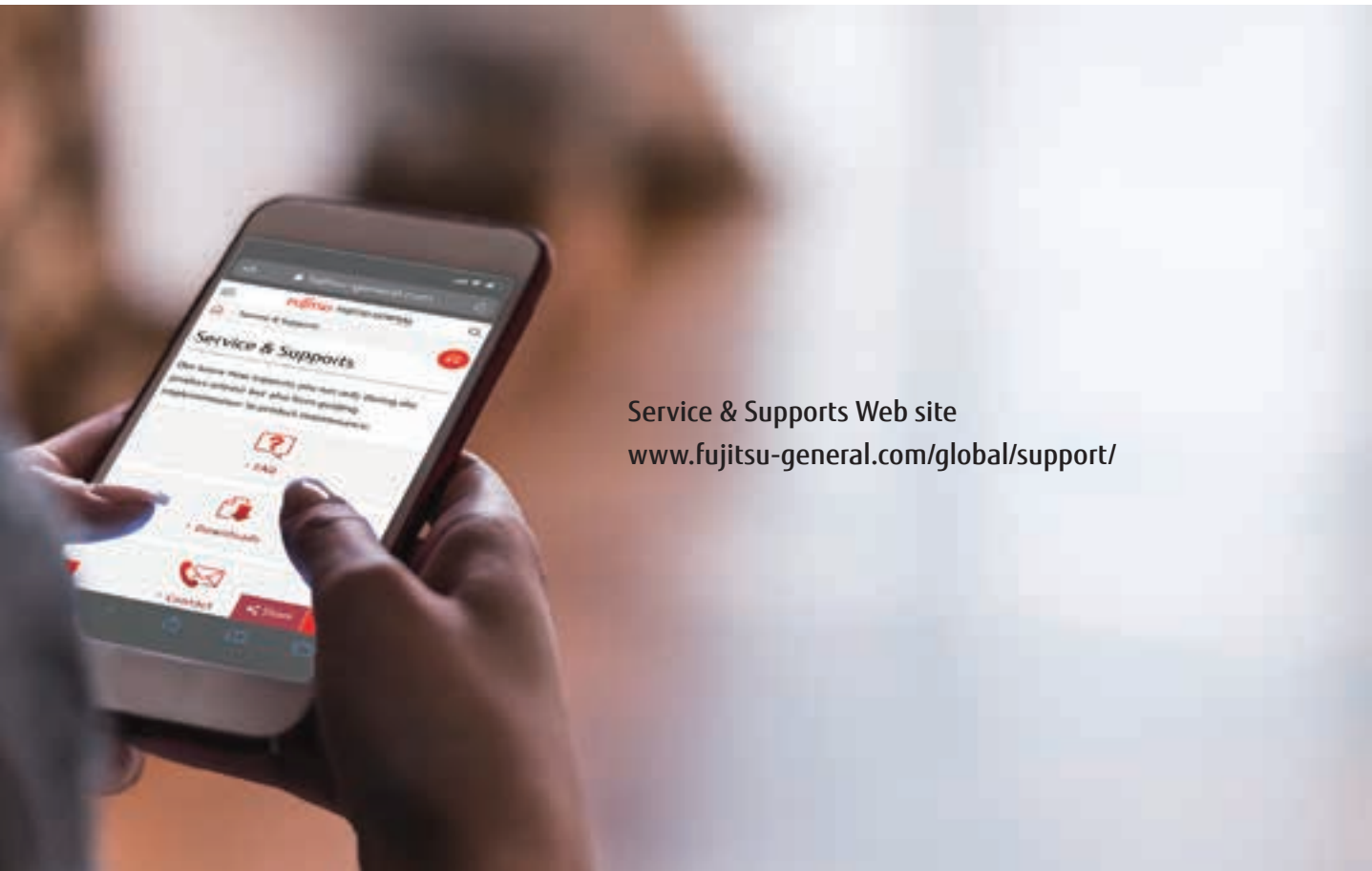
Type	Single type			Multi-split type			
	Model name	UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH	UTP-RX08AH	UTP-RX12AH
Power source	230V / 50						
Input power	W	17	24	31	96	136	204
Number of branches		1	1	1	4	8	12
Maximum capacity of connectable indoor units (Q)	kW	Q \leq 8.0	Q \leq 18.0	Q \leq 28.0	Q \leq 56.1*1	Q \leq 72.0	Q \leq 95.0
Maximum capacity of connectable indoor units per branch (Q)	kW	Q \leq 8.0	Q \leq 18.0	Q \leq 28.0	Q \leq 18.0	Q \leq 8.0	Q \leq 8.0
Maximum number of connectable indoor units per branch		3	8	8	8	7	7
Dimensions (H×W×D)	mm	198×298×268			260×658×428	298×660×618	298×990×618

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



SUPPORT

- Sp-002 AIRSTAGE™ Support
- Sp-004 AIRSTAGE™/RAC Support Tool
- Sp-006 WATERSTAGE™ Support Tool
- Sp-008 Quick Service & Maintenance
- Sp-010 Service Tool
- Sp-011 Web Monitoring Tool



Service & Supports Web site
www.fujitsu-general.com/global/support/

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

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	WATERSTAGE™ Package label creator	Design Simulator (Room air conditioner, Packaged air conditioner, VRF)	WATERSTAGE™ proposer	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

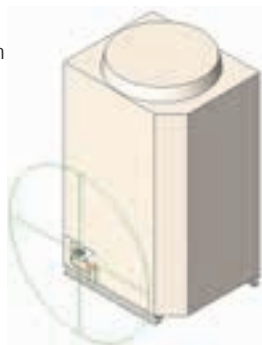
Fujitsu General provides a variety of product and technical information to engineers and consultants, and also conducts new product research and design support activities. We provide a wide range of support to maintain high quality from design to installation.

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/

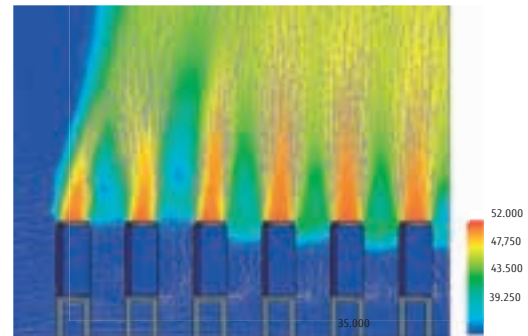


Technical support

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

Training facilities



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

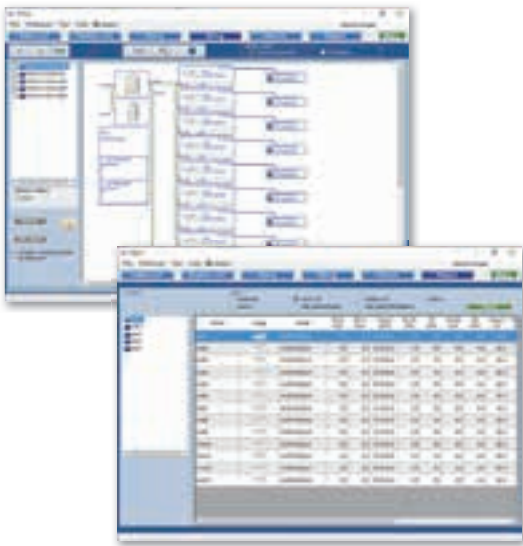
AIRSTAGE™/RAC Support Tool

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



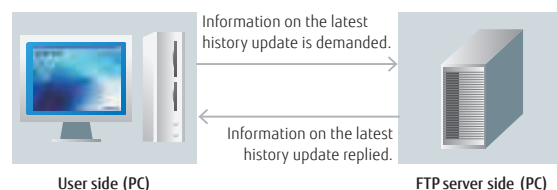
Output the format that matches the application

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)

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.



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.

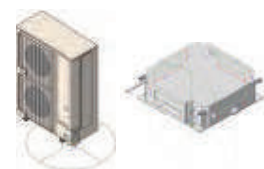


DXF

Intermediate data generally available for CAD products.

Data content

- Shape (Size)

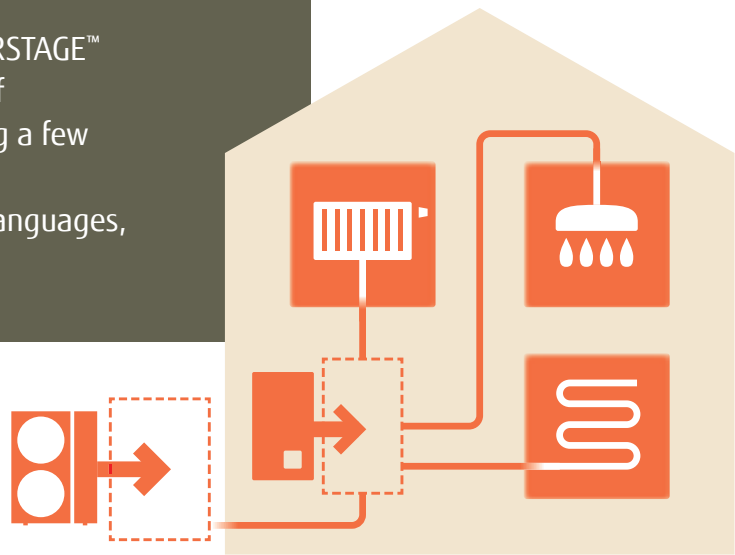


*How to use the BIM files please refer to Instruction video on each product page.

youtu.be/wfL-hwFQ7dM

WATERSTAGE™ Support Tool

Fujitsu General's software for the WATERSTAGE™ automatically provides a combination of WATERSTAGE™ equipments just by giving a few parameters. The software is featured with multiple languages, and automatic update function.



WATERSTAGE™ Proposer



Model selection with detailed technical information

- The software automatically selects the equipments just by inputting some factors, like the region where the equipment is installed, required capacity to heat up the space, and a heating method.



The visible images of the optional items enable the correct configuration of the systems. All of the associated optional items are automatically chosen in a case the application requires several devices of the WATERSTAGE™ equipments.



The entire system configuration can be reviewed and modified once the units are selected.

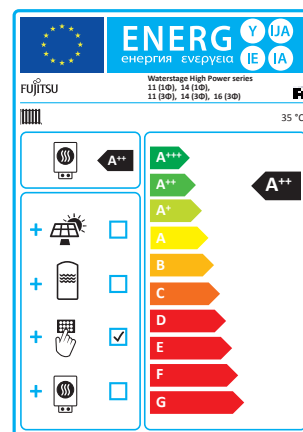
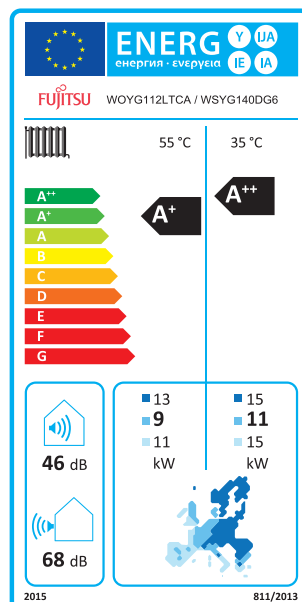
And by seeing the images and the list of equipments at the same time, it avoids mistake in the selection of equipments.

WATERSTAGE™ Package label creator

Energy labels and Fiches can be downloaded from our homepage

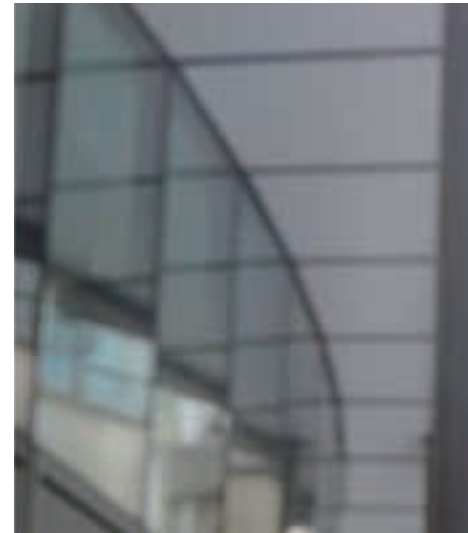
You can find and download the ErP documents (energy labels, product fiches, pre-configured package labels, pre-configured package fiches, information sheets and EC Declaration) from our homepage.

In addition, we will provide an internet service to allow the various package labels and package fiches to be created easily by installers in the future.



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.



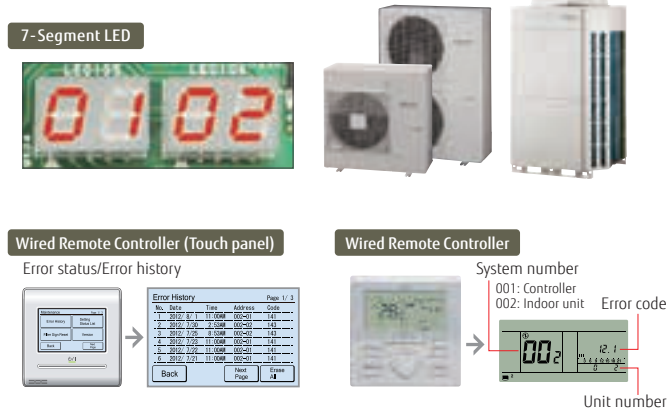
Easy maintenance & monitoring

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.

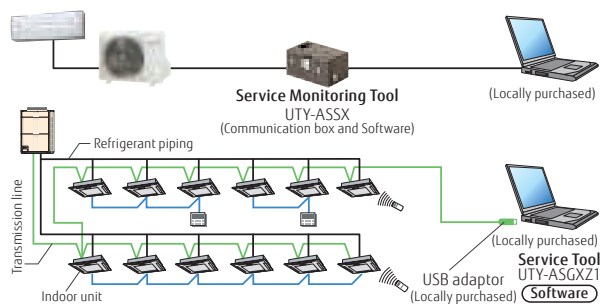


Error diagnosis by Service Tool

The unit status details from single split models to VRF system can be checked on PC screen by connecting Service Tool.

Quick countermeasures can be taken

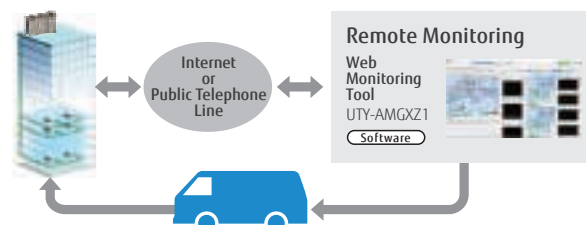
- Operation status/control
- Monitoring operating condition
- Monitoring sensor data
- Indication of trend graph
- Error history
- Indication of refrigerant circuit diagram (For VRF)



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.





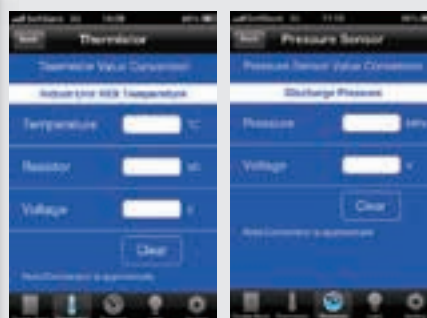
Mobile Troubleshooting Tool for iPhone & Android™

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.



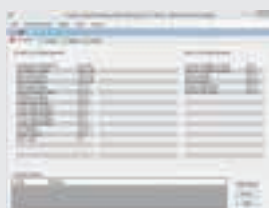
Mobile Technician **FREE**



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.



Actual operating condition display



Graph display



Operation history display

	UTY-ASSX
Dimensions (H×W×D) (mm)	60 × 160 × 160
Weight (g)	500


Service Tool

Extensive monitoring and analysis functions for installation and maintenance

- Operation status can be checked and analyzed to detect even the smallest abnormalities
 - Storage of data on system operation status on a PC allows access even from off site.
 - Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
 - This software can be connected to any point of transmission line with USB adaptor (locally purchased)
- * The saved data can be displayed offline. However, the data saved by the following model cannot be displayed.
- UTR-YSTB/UTR-YSTC (Service Tool)
 - UTR-YMSA (Web Monitoring Tool)

Automatic operation check for refrigeration cycle


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



Whether each sensor value is normal is judged automatically.

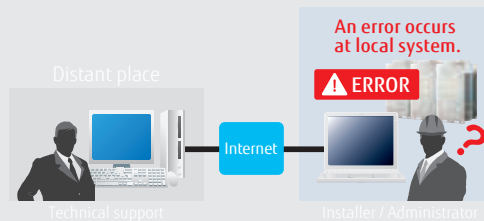
- ✓ Discharge temperature normal value OK
- ✓ Super heat volume normal value OK
- ✓ High pressure pipe normal value OK
- ✓ Low pressure pipe normal value OK
- ...etc.

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



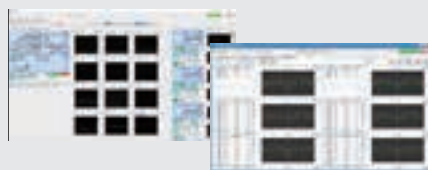
Remote technical support & maintenance

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



Various trend graph display

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



Personal computer system requirements

	UTY-ASGXZ1
Operating system	<ul style="list-style-type: none"> • Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	<ul style="list-style-type: none"> • 1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Display	1366 × 768 or higher resolution
Interface	• USB port for U10 USB Network Interface and Software protection key
Software	Internet Explorer® 11 or Microsoft Edge

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

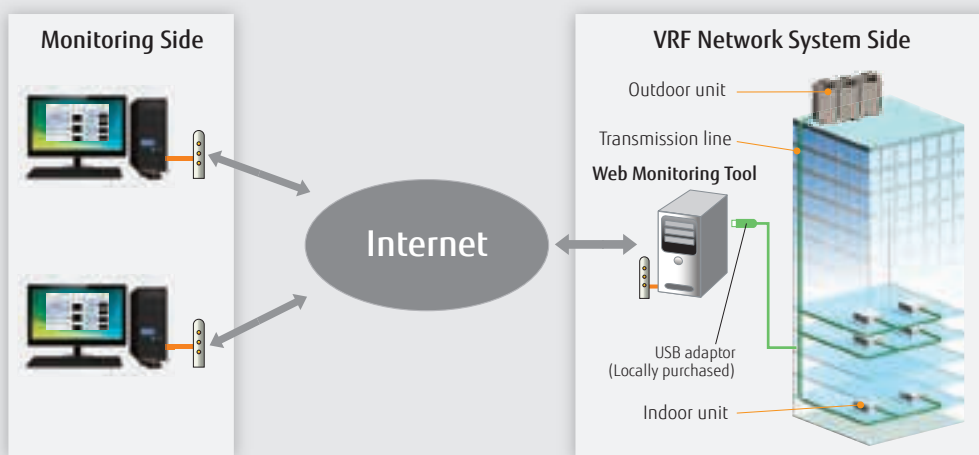
Web Monitoring Tool

Product features

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

*1: Use of internet mail system required.

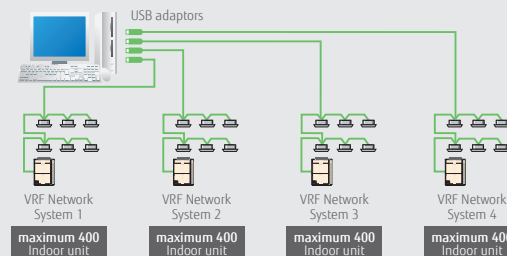
Web Monitoring System



Support 4 VRF network systems

USB adaptor (maximum 4 adaptors per PC) permit, monitoring of up to 1,600 indoor units.

Suitable for large-scale buildings or hotels.



Personal computer system requirements

	UTY-AMGXZ1
Operating system	<ul style="list-style-type: none"> • Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	<ul style="list-style-type: none"> • 1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Display	1366 × 768 or higher resolution
Interface	<ul style="list-style-type: none"> • USB port (for 10 USB Network Interface maximum 4, Software protection key) • Either of the following interface is required for remote connection: <ul style="list-style-type: none"> - Public Telephone Line: Modem is required - Internet using LAN: Ethernet port is required
Software	Internet Explorer® 11 or Microsoft Edge

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



Fujitsu General (Thailand) Co., Ltd.



ISO 9001 Certified number: 01 100 075229 ISO 14001 Certified number: 01 104 9245

Fujitsu General (Shanghai) Co., Ltd.



ISO 9001 Certified number: 01 100 79269 ISO 14001 Certified number: CNB312244-UK

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



ISO 9001 Certified number: 15917020073R5M ISO 14001 Certified number: 15918E20021R5M

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