

The background of the cover is a photograph of a large, clear water droplet. The droplet's surface is highly reflective, mirroring the surrounding environment of green leaves and a bright sky with white clouds. The background image is slightly blurred, creating a sense of depth and focus on the droplet.

PRODUCT CATALOGUE 2023
AIR CONDITIONERS LINEUP

FUJITSU GENERAL LIMITED

OUR MESSAGE

SOLUTIONS

SPLIT

MULTI-SPLIT

VRF

VENTILATION

CONTROL SYSTEMS &
OPTIONAL PARTS

AIR TO WATER

SUPPORT

The FUJITSU GENERAL Way

Our mission

Living together for our future

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

Our philosophy

Act spontaneously

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

Develop our team

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

Value integrity

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

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100000000years from now.

006 OUR MESSAGE

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PRODUCT LINEUP

SPLIT & MULTI-SPLIT

VRF

VENTILATION

CONTROL SYSTEM & OPTIONAL PARTS

AIR TO WATER

SUPPORT

- Sp-002 AIRSTAGE Support
- Sp-004 HVAC System design Support Tool
- Sp-006 WATERSTAGE Support Tool
- Sp-008 Quick Service & Maintenance
- Sp-010 Service Tool
- Sp-011 Web Monitoring Tool

1000000000 years from now.

~ Children smiling under a pleasant blue sky long into the future, a billion years from now ~
We continue to change to sustain a cleaner world.

AIRSTAGE

Air conditioners are now an essential lifeline to 'life'.
Guidelines aimed at achieving a comfortable, healthy, safe, and secure society
through manufacturing that is friendly to people and the earth.



OUR MESSAGE





for Sustainable



for Cleanliness



for Future

**Innovation
and
Globalization**



for Comfort



for Control



for Design

We create comfortable lives for people around the world with "made-in-Japan quality" and innovative manufacturing.



History



Worldwide locations



Global business activities



Project references



Global development & Production bases



High-quality development & Production facilities



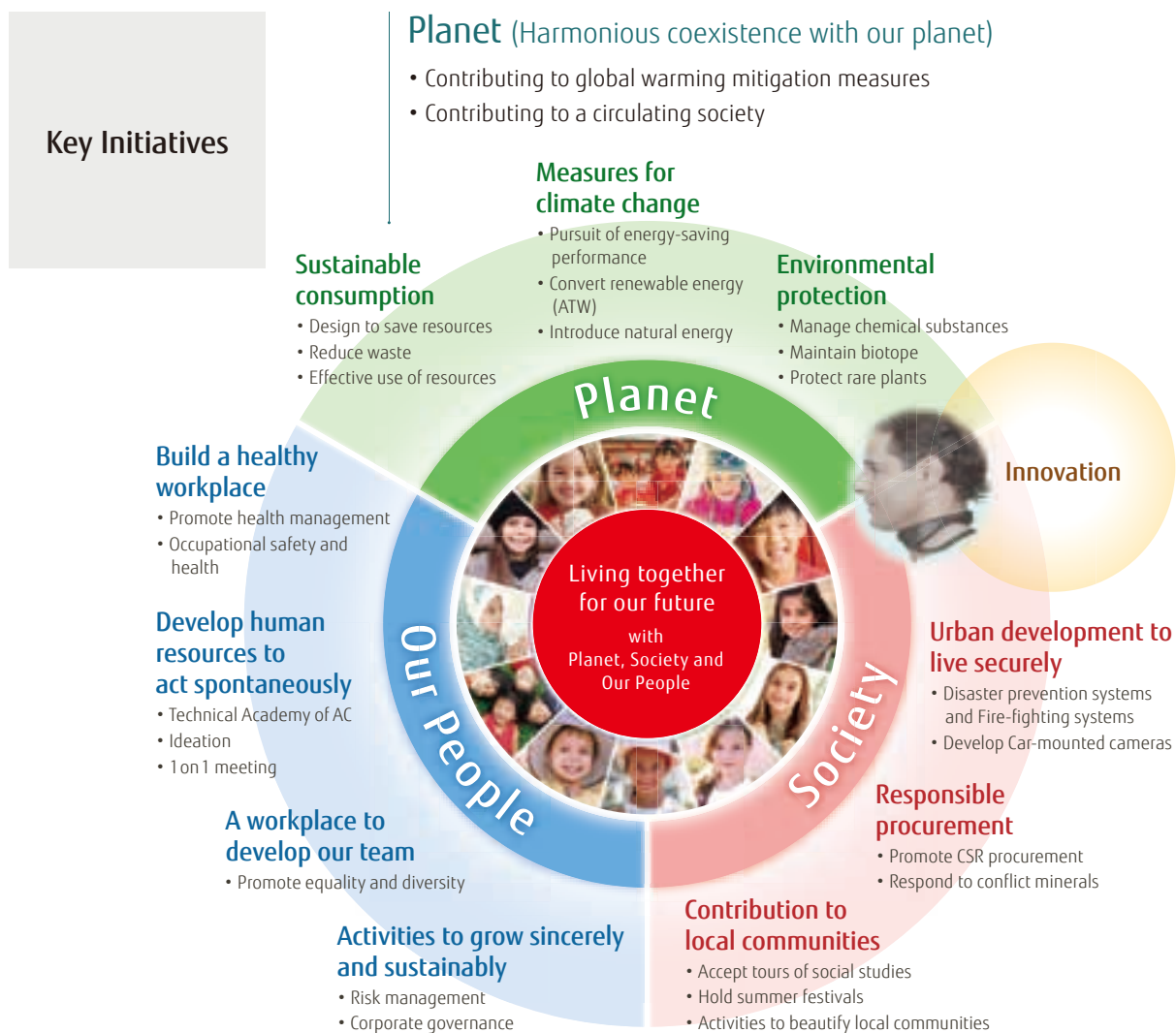
Sustainable

Sustainable management

We see the challenge of expanding our business by contributing to the realization of a sustainable society as a core element of our growth strategy, and we are working on "sustainable management," based on the three pillars of "harmonious coexistence with our planet," "social contribution," and "care for employees."

Basic policy on sustainable management

The sustainable development goals (SDGs) of the UN will drive business creation in the coming years. The key principle of the SDGs, "Leave no one behind," is synonymous with our own corporate philosophy of "Living together for our future." The promotion of sustainable management is carried out from a medium- to long-term perspective, with a promise to shape a sustainable society for the children and society of the future. We will pursue business growth by accelerating this transformation.



Our People (Care for employees)

- Strategic implementation of health and productivity management
- Creating flexible work styles under COVID-19
- Enhancing human resource development

Society (Social contribution)

Fostering innovation to address social issues (Providing a healthy, clean, and safe society and environment)



Cleanliness

Think about air quality

Fresh air is essential for comfortable air conditioning. Fujitsu General offers a wide range of air conditioning products with air purification functions, such as ventilation systems equipped with high-performance filters and heat exchangers.

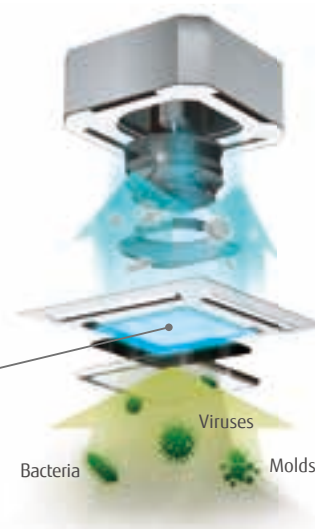
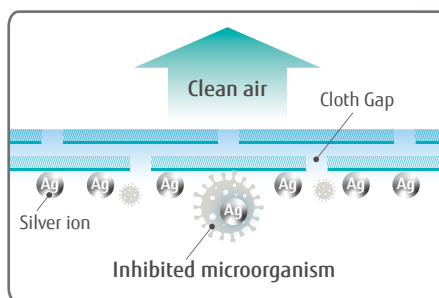
Collecting dust particles to clean the air



Silver Ion Filter

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

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

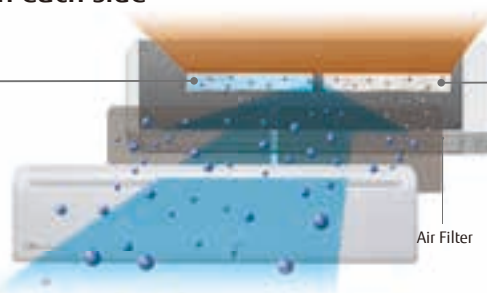
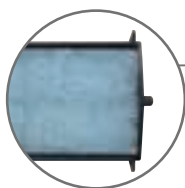


Different filters are used on each side



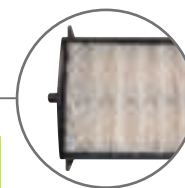
Apple-catechin Filter

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



Ion Deodorization Filter

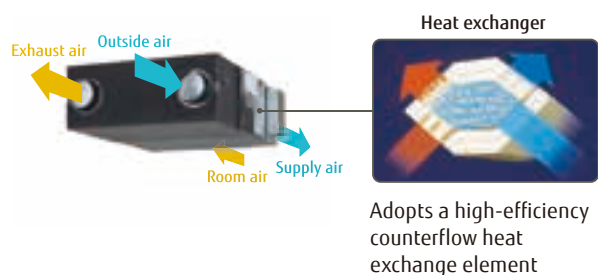
Deodorizes the air by decomposing absorbed odors using the oxidizing and odor-reducing effects of ions generated by ultra-fine particle ceramic.



Ventilation with adequate airflow with reduced temperature changes

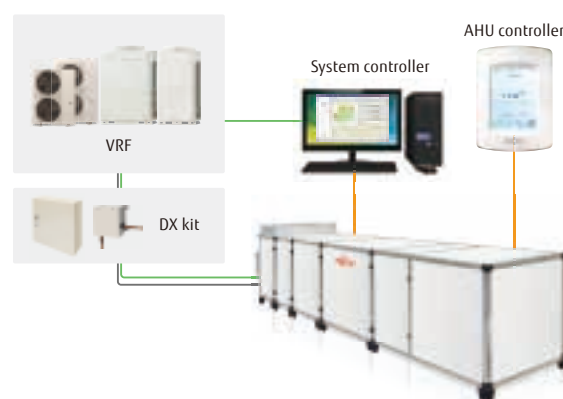
Heat Exchange Ventilation

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



Air handling unit

The Air handling units connected to Fujitsu General's VRF system are equipped with technology that provides high energy efficiency and superior comfort to meet the most stringent air conditioning requirements and installation conditions.





Future

The green refrigerant

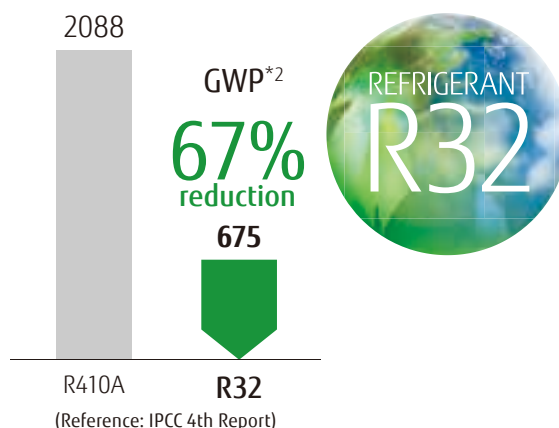
Throughout our research and development process, we are constantly striving to create products that we can be proud of in the future. The technologies we have cultivated through these efforts are incorporated into our environmentally friendly products, and are recognized in the European market, which has extremely strict environmental regulations.

R32 refrigerant with reduced global warming potential

- **Zero** Ozone Depletion Potential (ODP^{*1})
- High environmental properties
- High performance
- Economically efficient

^{*1} **ODP (Ozone Depleting Potential)**: a relative value that indicates the impact per unit weight of ozone-depleting substances released into the atmosphere when CFC-11 (trichlorofluoromethane, CCl3F) is fixed at 1.0

^{*2} **GWP (Global Warming Potential)**: a measurement that indicates how much other greenhouse gases are capable of warming the Earth based on carbon dioxide. This is the integrated value of radiant energy given to the Earth (i.e., the estimated impact on global warming) expressed as a ratio to CO₂.



Our pioneering efforts to create a green future

Fujitsu General follows the EU Climate Action Plan 20/20/20 by 2020.

20% Less primary energy use

Fujitsu General's energy-efficient air conditioners are designed to consume less electricity, thus reducing primary energy usage.

20% Less CO₂ emissions

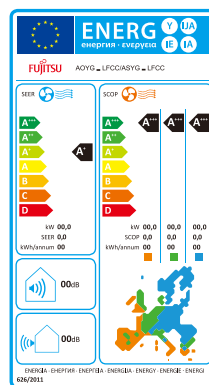
Fujitsu General products closely follow the F-Gas regulation 517/2014/EU.

20% Coming from renewable energy

Fujitsu General is 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 operation)	SCOP (Heating operation)
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

Improved installation flexibility

Our class-leading compact outdoor units range from 8 to 18 HP, and their flexibility in installation does not detract from the appearance of the building.

Installation area



Weight (18 HP model)

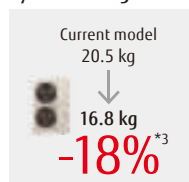


Less Refrigerant

Refrigerant saving design

The compact indoor unit, piping design, and optimization of heat exchanger volume significantly reduce the system refrigerant volume.

System refrigerant volume



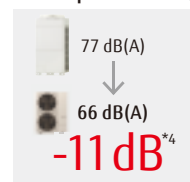
By minimizing the amount of refrigerant, the refrigerant leak detector required under EN378 is no longer necessary.

Less Noise

Class-leading low operating sound

The outdoor units in this series are designed to operate extremely quietly. They are an ideal choice for installation in densely populated areas.

Sound power level (8 HP model)



VRF outdoor units **J-IVL**



^{*1}: J-IV Series are compared with V Series 14/16/18 HP models. ^{*2}: J-IV Series 18 HP model is compared with V-IV Series 18 HP models. ^{*3}: E.g.) when 30 indoor units are connected to 1 system (Outdoor unit: 12 HP; Indoor unit: 1.1 kW × 30; Total pipe length: 277.5 m) • J-IV Series is compared with current Series. ^{*4}: J-IVL Series 8 HP model is compared with V Series 8 HP



Comfort

Comfortable airflow design

Pursuing the potential of air conditioners and true comfort, Fujitsu General has developed and commercialized numerous world-first technologies, and these concepts are reflected in the design of our products.



Cassette type 3D flow Series

3 individually controlled air outlet ports

The Comfortable airflow setting enables the right and left air outlet ports as well as the wide center port to work together to provide a comfortable room environment.

Cassette type One-way flow Series

Wide airflow range created by triangle design and large flap

A large flap with a wide range of movements, equipped with louvers arranged triangularly, sends air into every corner of the room.



Cassette type Circular flow Series

Unique circular flow design

This Series realizes a Circular Flow to blow a large airflow in a 360° direction by using a high-performance DC fan motor, turbo fan, and a unique seamless airflow louver design.



Comfort pursued through advanced technologies



Lambda-shaped heat exchanger^{*3}



Power diffuser^{*4}



Filter auto clean^{*5}



Dual-fans^{*2}



3 Air outlet ports^{*1}

The dual-fans equipped with "nocria X" model in Japan optimally control airflow. The unique form brings a comfortable airflow to every corner of the room. The power diffuser opens the lower flap of the main unit and blows warm air downward to heat the room from the floor, increasing heating efficiency. The Lambda-shaped heat exchanger improves the operating efficiency, contributing to the compactness of the indoor

units. In addition, the automatic filter cleaning function that we have developed ensures ease of maintenance and operating efficiency. The "nocria X" airflow control system is also used in the cassette type, creating a comfortable space with three types of airflow. Fujitsu General's unique technology enables the system to create a comfortable space.

*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 the category of room air conditioners for the home (Our company's investigation).



Control

Operation from anywhere

Using the Internet of Things (IoT), Fujitsu General is actively providing services that allow users to control their air conditioners from their smartphones. We are also expanding our open co-creation activities with external partners to deepen the development of new functions and services using IoT and artificial intelligence (AI) to develop safe and convenient air conditioners.



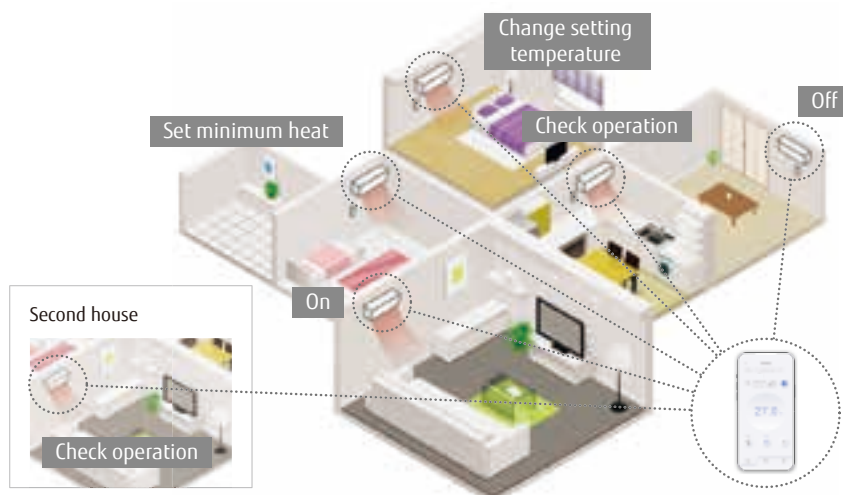
NEW

User-friendly screen display enables easy operation.

With the WLAN adapter and the AIRSTAGE Mobile app, you can control the heating and cooling of your home anytime, anywhere.

Should you forget to turn off the system before you leave home, you don't have to worry.

"AIRSTAGE Mobile" is a software application that allows users to control Fujitsu General air conditioners from anywhere with a mobile device while out or on the move.



WLAN adapter

The dedicated WLAN adapter enables the air conditioner to be operated by smartphone or tablet PC from outside the home.



NEW AIRSTAGE Mobile

Download Free



Compact wired remote controller

Large screen and simple display

- Large screen, yet compact in size
- Large, easy-to-read letters are used.
- The controls are simple and easy to understand.



Central remote controller for VRF system

The central remote controller uses a touch panel screen to display multiple menus on the top screen. Just touch the menu you want to operate, and the necessary window will pop up, and allow intuitive operation.

Remote monitoring and operation

The central remote controller enables monitoring and control of a tenant's air conditioner anytime, anywhere.





Design

Create a beautiful space

Fujitsu General offers a wide range of products for the European market, including models with unique textural designs, award-winning models that integrate with room interiors, and Cassette type models with different designs that match office spaces. We also have a lineup of models with elegant designs, such as the Ceiling type models with its beautiful curved surface.

KE
Series

Wall-mounted type

KE Designer Series

We have designed this series exclusively for the European market. The exterior design harmonizes beautifully with any decor and adds comfortable elegance to the room. The light, elegant and three-dimensional expression achieved by the curved surface looks beautiful from any angle.



CMF: Color Material Finish

The texture of the front panel expresses the craftsmanship of Europe, and changes its expression with the changing light of the day.

Design award-winning products

Wall-mounted type, design Series



Light Elegant Design

New Ceiling type design

The light, elegant and three-dimensional expression achieved by the curved surface gives a sense of comfort and well-being.



Different Cassette type Designs



Compatible with grid ceiling systems
Compact cassette Series
for grid ceiling



Beautiful design from any angle
Cassette type Circular flow Series
White panel



For ambience with dimmed lighting
Cassette type Circular flow Series
Black panel



History

Yaou Shoten Ltd. established in 1936

Overseas air conditioning business since 1971

Starts air conditioning business in Japan in 1960

1971 Air conditioner exports to the Middle East.

1977 "Super Power, Super Quiet" Series released

1982 Window type 3 Super Series released

AL/AX Series



1985 Large wall-mounted type and multi-split air conditioner released.



***1,*2 1991** World's first air conditioner equipped with lambda-shaped heat exchanger

1994 World's first air conditioner with power diffuser

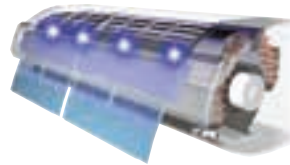
2001 AIRSTAGE Series released VRF air conditioners for large buildings

AIRSTAGE™



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

nocria™



2004 Standalone Compact VRF AIRSTAGE J Series released



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

AIRSTAGE V™



2009 VRF Heat Pump Modular type Maximum 48 HP AIRSTAGE V-II Series released

2009 Air to water system released

WATERSTAGE™



1950 ~

1970 ~

2000 ~

Manufacturing Company Establishment

1955 Head Office established 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 manufacturing, sale, and service company in China

2007 Air Conditioner Technology Building becomes operational on the premises of the Kawasaki Headquarters. Air conditioner R&D Center in Kawasaki

2009 Compressor Factory begins operation in Thailand



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



Fujitsu General (EURO) GmbH

Sales & service maintenance company established

1976 North America sales company

1977 Europe sales company (UK)

1978 Australia sales company and Europe sales company (Germany)

1980 Brazil sales company

1997 Asia sales company (Singapore)

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

2000 Air conditioner manufacturing and sale technical partnership in India

2002 Taiwan sales company

2006 China sales company

*1: Announced 1991. In room air conditioner for the home (Our company's investigation) *2: Announced 1994. In the category of room air conditioners for the home (Our company's investigation). *3: Announced 2002. In the category of room air conditioners for the home (Our company's investigation).

For Light commercial use

2011 High energy-saving type AIRSTAGE J-II Series released

2014 Compact & lightweight outdoor unit AIRSTAGE J-IIS equipped with a single fan for improved ease of installation

2016 Compact VRF AIRSTAGE J-III Series with advanced energy efficiency and easy installation released

2017-19 Compact VRF AIRSTAGE J-III Series for light commercial use released

2020 Compact & lightweight outdoor unit AIRSTAGE J-IVL, J-IV, J-IVS Series released



2019
New cassette style released
3D Flow Cassette

For Commercial use

2012 Heat Recovery Modular type AIRSTAGE VR-II Series Maximum 48 HP released

2014-15 Heat Pump Modular type AIRSTAGE V-III Series Maximum 54 HP for large buildings released

2020 Heat Recovery type AIRSTAGE VR-IV Series Maximum 48 HP released



2020
AIRSTAGE Air handling unit released

For Residential use

2011 Hi-spec Design model LT Series & LU Series released

2017 Flagship Wall-mounted type "nocria X" released

2017-19 Added to this lineup recently are the environment-friendly R32 refrigerant models. (Split & Multi-split type)



For Commercial use

VRF **V-IV**

2022 Release of new products with energy-saving operation.



For Residential use

Split & Multi-split
New products released with new wireless LAN control system.



Smart control
New wireless LAN control system released.

AIRSTAGE Mobile



2010 ~

2023 What's New

2012 Joint venture in Thailand to manufacture compressors



2016 Commercial use air conditioner R&D Center in Thailand



2019 New building constructed at Kawasaki Head Office to strengthen development capabilities:

Base for creating new value by combining internal and external knowledge



2020 Building IoT-based manufacturing

Implementing a real-time IoT system to instantly visualize and analyze various information



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

2016 THE AIRSTAGE on Broadway in New York



*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)



Worldwide locations

Under a system of five bases in Europe, the Middle East, Asia and Oceania, North and South America, and Japan, the company promotes Globalization from a worldwide perspective while emphasizing the actual conditions in each region.



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.

15 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)



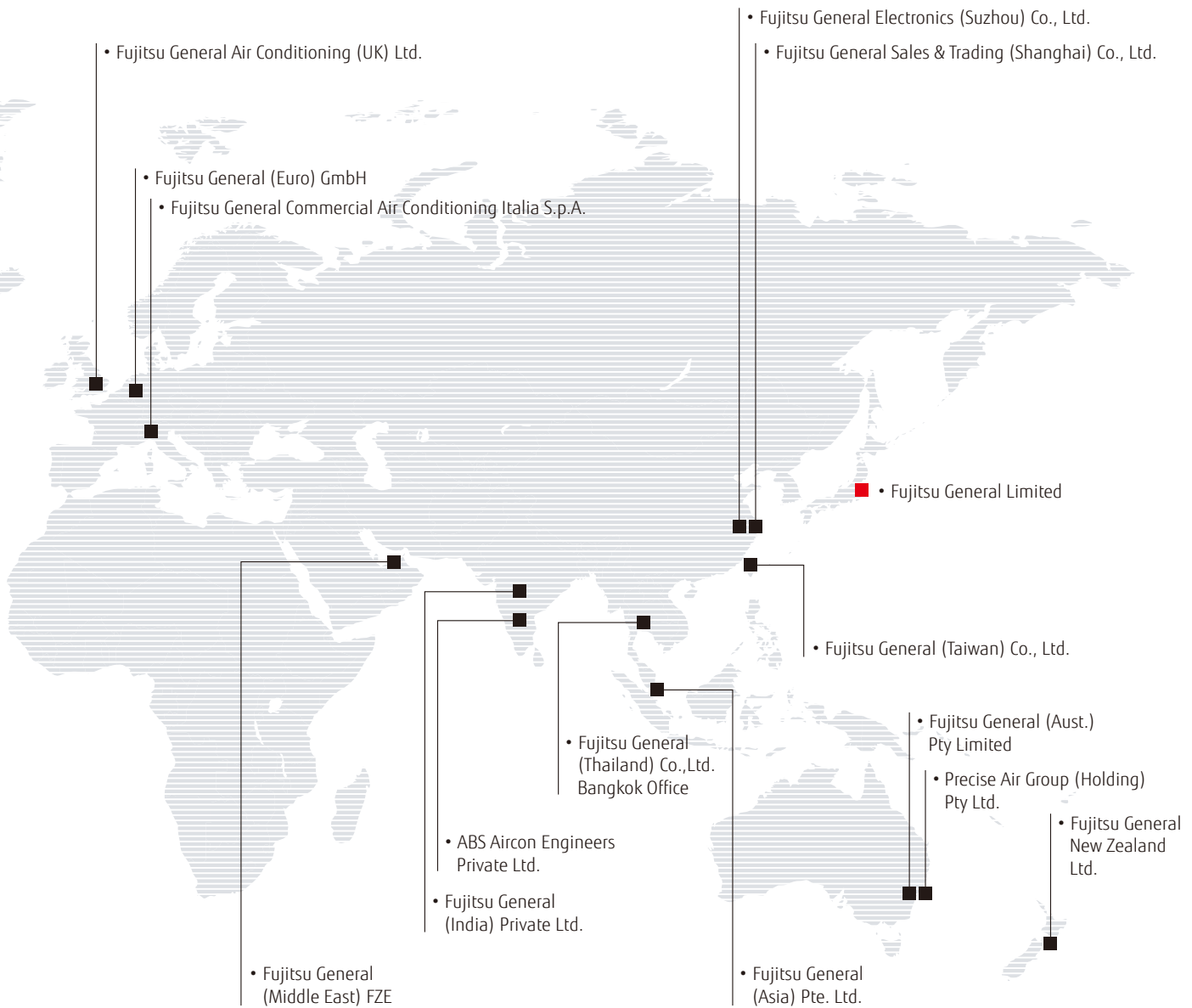
Fujitsu General Air Conditioning (UK) Ltd. (U.K.)



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



Fujitsu General (India) Private Ltd. (India)



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



Precise Air Group (Holding) 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.)



ABS Aircon Engineers Private Ltd. (India)



Fujitsu General Do Brasil Ltda. (Brasil)



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



Global business activities



We have been recognized for our activities in advertising, human resource development and customer service, as well as for our community-based social contribution activities in each region, winning numerous awards and achieving a high level of customer satisfaction.

North and South Americas



AHR Expo



HVAC trade shows in Brazil



Distributor conference in USA



Call center

Middle East



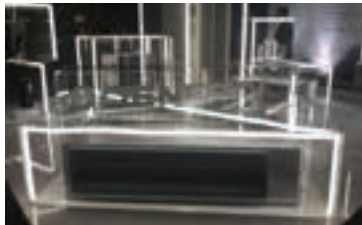
Exhibition



Training in Kuwait



Technical seminar



New product seminar in UAE

Europe



HVAC trade show in Germany



Training in Germany

International authoritative design awards



The NEWS Dealer Design Awards



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



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



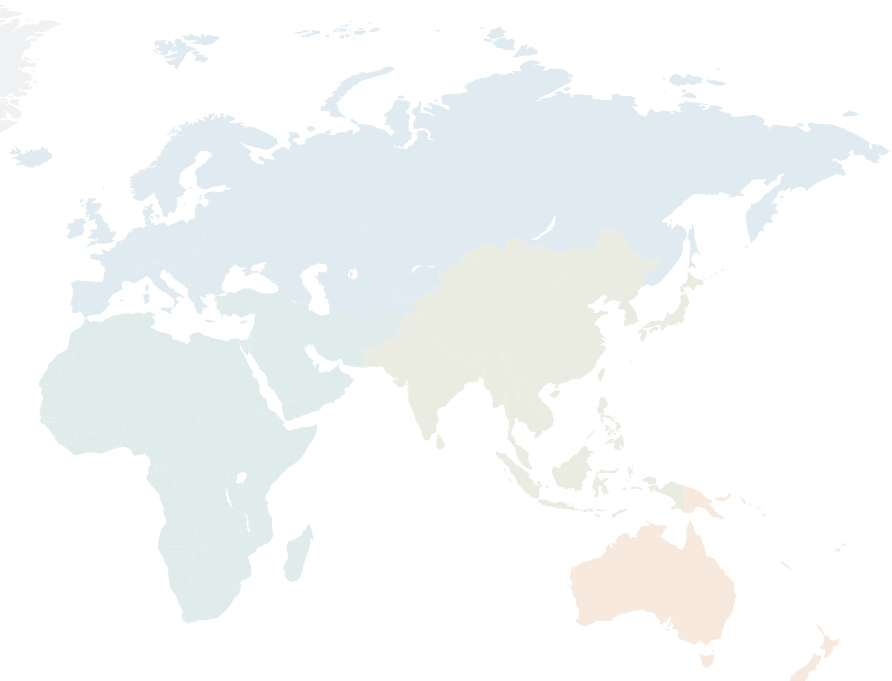
Superbrands is the world's largest independent arbiter of branding.



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



The Plus X Award is the world's largest innovation award for technology, sports and lifestyle.



Asia



Thanksgiving party in Taiwan



Training in India



Opening ceremony in India



New product presentation seminar in Singapore



Service training in Vietnam

Oceania



HVAC trade show in Germany



Training seminar in Italy



Event in the United Kingdom



HVAC trade show in Australia



Launch event in New Zealand



Launch event in New Zealand



reddot winner 2020

A product design competition that has been held since 1955. Products that win the award are given the "Red Dot" seal, a sign of international recognition of quality.



ProductReview.com.au's annual awards are selected from products and services that have been well-rated by the ProductReview community.



Voted by Australians as the 'Most Trusted Brand - Air Conditioning Category 5 Years Running'



China State Construction Engineering Luban Prize



GOOD DESIGN

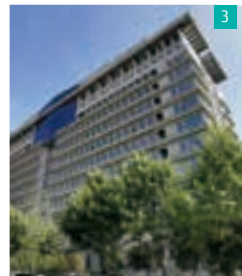
The Good Design Award is an award sponsored by the Japan Institute of Design Promotion, and is given once a year to items of outstanding design.



Project references

Introduced in over 50 countries worldwide

Highly popular for their excellent quality, energy efficiency, and ease of installation, Fujitsu General's products are installed in a wide range of buildings around the world, including high-rise office buildings, stores, hotels, public facilities, schools, hospitals, and residences.



For Light commercial use

- 1 Shop in Europe
- 2 Factory in Europe
- 3 School in Asia
- 4 Hospital in Asia
- 5 Office in Asia
- 6 Shop in Oceania
- 7 Office in Oceania
- 8 School in the Middle East
- 9 Public facility in the United States



11



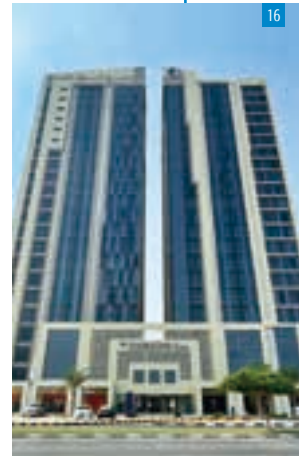
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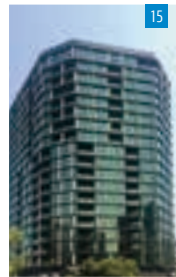
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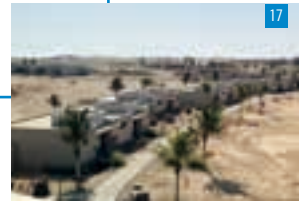
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14



15



17



For Commercial use

- 10 Public Square in Asia
- 11 Office in Asia
- 12 Hotel in Asia
- 13 Public facility in Asia
- 14 Apartment in Oceania
- 15 Apartment in Oceania
- 16 Hotel in the Middle East
- 17 Hotel in the Middle East



18



20



For Residential use

- 18 Villa in the Africa
- 19 Residence in Oceania
- 20 Residence in the United States
- 21 Villa in the Middle East



19



21



Global development & Production bases

We have established R&D bases in five countries from Japan, Europe, Asia, China, and North America to pursue environmental properties and comfort according to the needs of each region.

- • Head office
- • R&D center
- • Manufacturing companies



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

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

R&D center & Technology Research Building



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



North America R&D Center (USA)



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



R&D center in Fujitsu General (Shanghai)



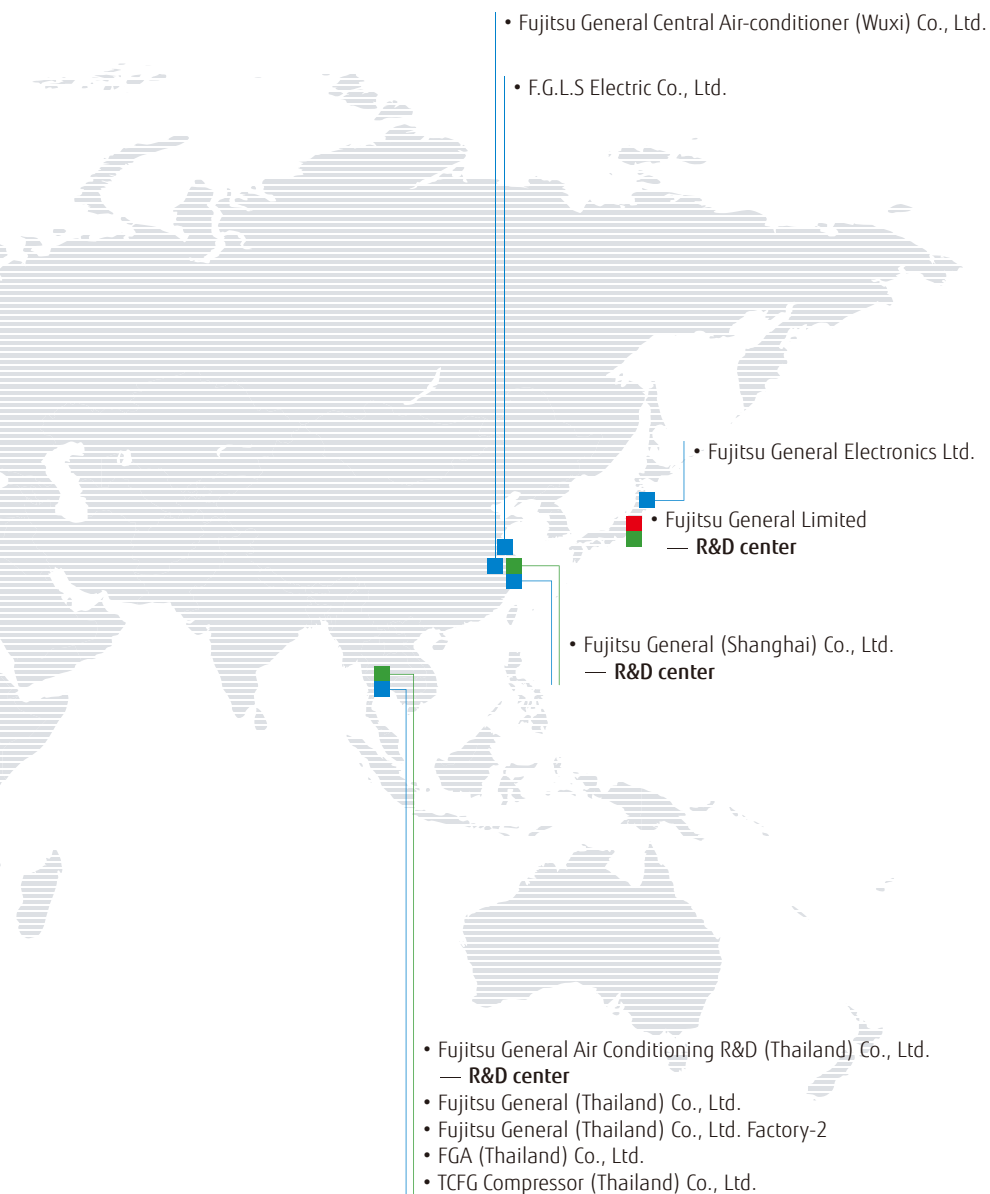
JAPAN Head office, R&D center and 60 m height difference testing tower (Japan)

Technology research building in Japan Head office

Constructing IoT-based manufacturing

We are implementing a real-time IoT-enabled system to immediately visualize and analyze various information such as facility operating status, assembly line production progress, and parts inventory and transportation status. This will further enhance the accuracy of production and shipping forecasts in the Head Office and factory management departments. The system will also help improve activities by employees at production sites, with the aim of improving the efficiency of the production process, the efficiency of parts distribution operations, and the utilization rates of the facilities.





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)



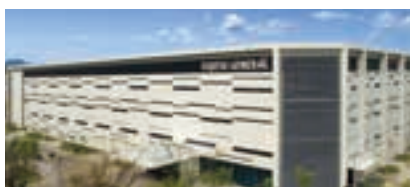
Fujitsu General Electronics Ltd. (Japan)



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 Facilities and Equipment

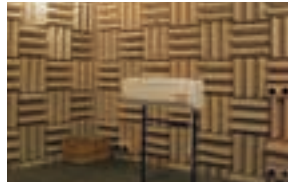
Performance tests



Airflow measurement room
Measure the airflow of air conditioners, from compact room air conditioner models to variable refrigerant flow (VRF) systems.



Calorimeter
Measure the temperature, humidity, and airflow at the inlet and outlet of the air conditioner to evaluate its cooling and heating capacity.



Silent room
Measure the operating sounds of air conditioners on walls and ceilings with reduced sound reflection.

Fujitsu General is one of Japan's leading manufacturers with R&D centers in Japan. The research and development conducted in these facilities contributes to providing our customers with the highest quality and performance.

Reliability tests



Constant temperature room
Verify product performance in cooling and heating operations under various temperature and humidity conditions.



Practical test room
Check whether the performance of the air conditioner can be sustained under the conditions of the actual housing environment.



Shower test room
Check if the electrical box of the outdoor unit is protected from strong wind and rain, such as during a typhoon.

Transportation and Handling Tests



Compressibility test



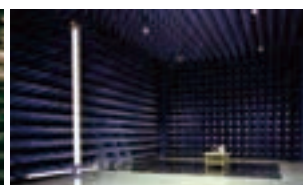
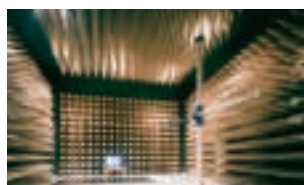
Vibration test



Technology research building in Japan Head office

Testing laboratory

Fujitsu General EMC Laboratory Limited



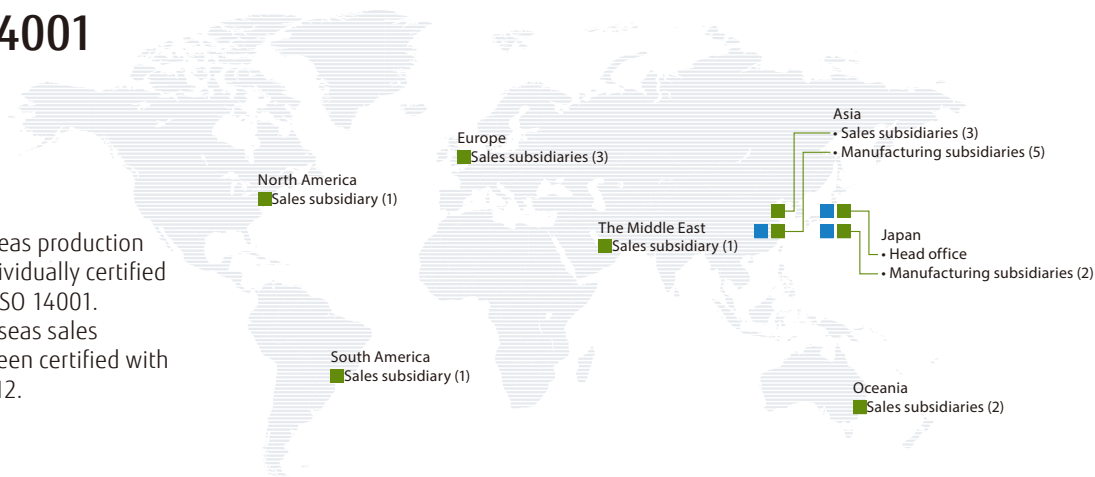
60-m Height Difference testing tower

Tests oil circulation in a compressor for reliability.



Certification of ISO 9001 and ISO 14001

■ ISO 9001
 ■ ISO 14001
 () Number of companies



The Group's 5 overseas production subsidiaries are individually certified with ISO 9001 and ISO 14001. The Group's 11 overseas sales subsidiaries have been certified with ISO 14001 since 2012.

Product Quality Assurance

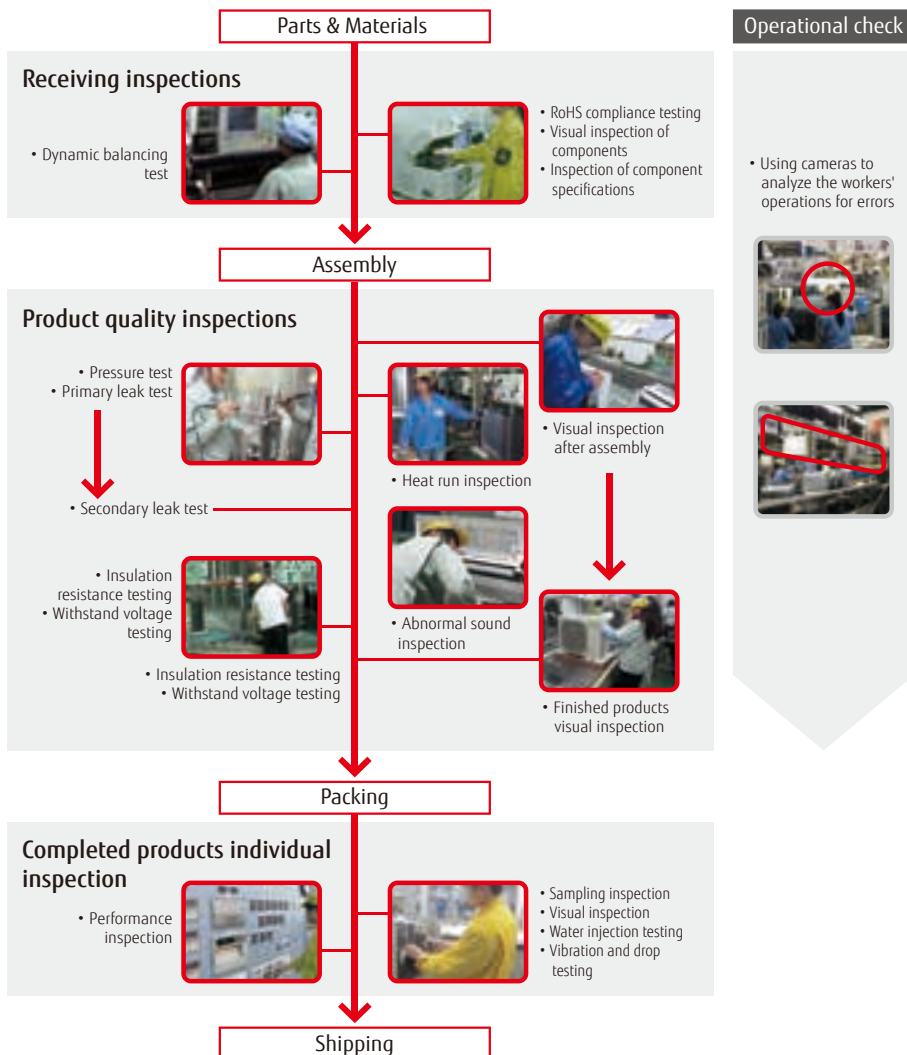
All Fujitsu General plants are ISO 9001 certified and operate under a unified quality control system. We deliver to customers all over the world high-quality products that have passed stringent quality inspections.

Receiving inspection

We require all our parts suppliers to submit test reports to ensure that all parts we receive from them meet our quality standards. Our in-house test department inspects incoming parts to ensure their compliance with RoHS as required by the EU. We also conduct 100% inspection of main parts to prevent defective parts from making it to assembly lines.

Quality inspection of products

We carry out stringent quality inspections in all production processes performed in our plants. To keep the quality of our products high, inspectors check their quality from start to finish on production lines.



KE Designer Series
Cool Beauty Design

2023 New Products





SPLIT

Wall-mounted type Built-in W-LAN adapter models

Designer Series, Standard Series

S-014-019

- 7-14 classes, 16 models
- High energy saving
- New built in WLAN adapter
- Comfortable airflow & Quiet operation
- R32 refrigerant & low refrigerant volume
- Easy access to the flare pipe connection



KG
Series
Designer Series
High Spec & Design



KE
Series
Designer Series
Cool Beauty Design



KM
Series
Standard Series
High Efficiency & Large Room



Smart Device control

You need to install the "AIRSTAGE Mobile" app on your smart device in order to control the air conditioner.

Wall-mounted type

Standard Series (High-Efficiency & Large Rooms)

S-022-023

- 30 and 36 classes
- Small, lightweight outdoor unit
- Occupancy Sensor
- R32 refrigerant & low refrigerant volume
- New WLAN adapter (Option)
- New Refrigerant Cycle Monitor (Option)



KM
Series
Standard Series
High Efficiency & Large Room

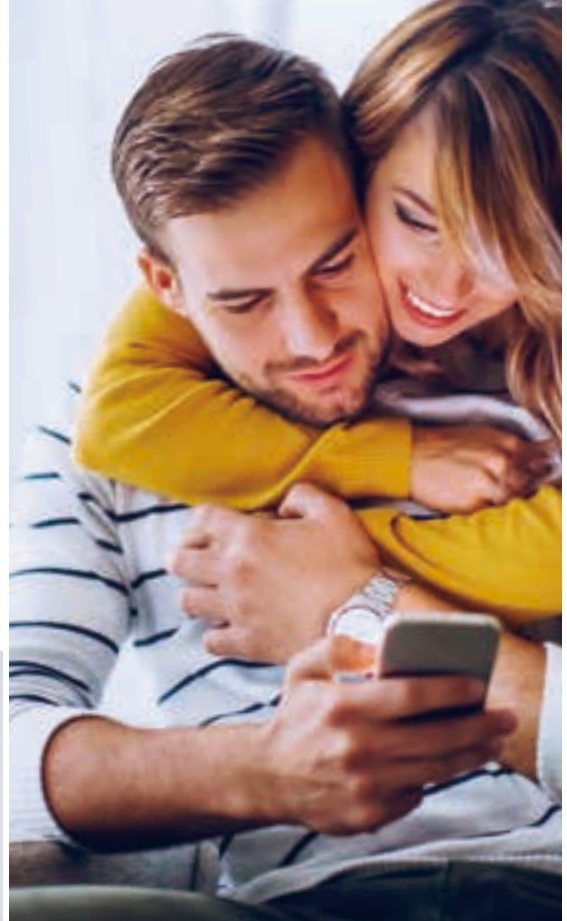


CONTROL SYSTEM

AIRSTAGE Mobile

C-018

- Operation from anywhere
- Multiple air conditioning management
- Group management
- User friendly for everyone
- New design
- Increases the number of accounts
- Pairing with smart speaker



MODBUS® interface

C-035

MODBUS® interface enables air conditioners to be fully integrated into a MODBUS® network.

- Small, compact, and easy to install.
- No separate external power supply required.
- MODBUS® interface enables central monitoring and control of air conditioners from BMS.



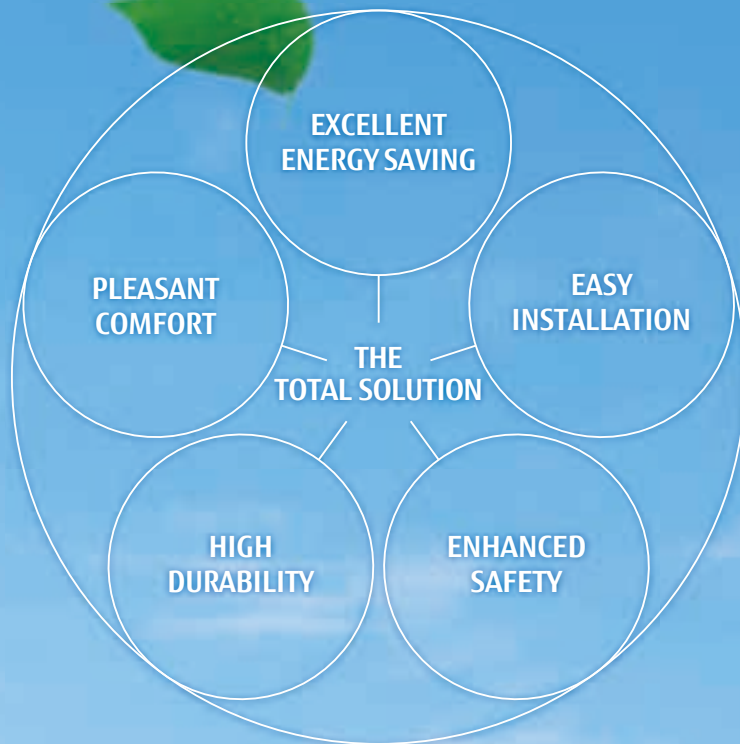
BACnet® Gateway

C-037

- BACnet® interface connects BMS and a 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.



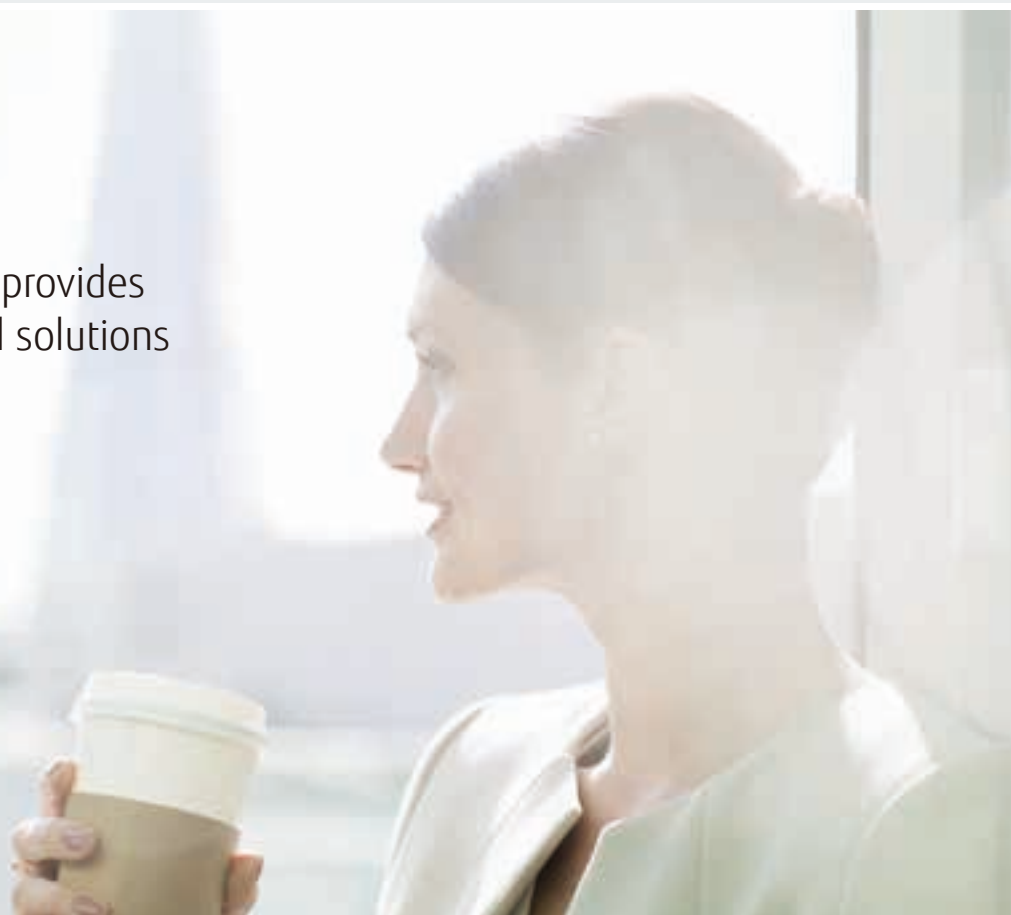
From Business to private spaces
SOLUTIONS



Key solution points

Fujitsu General's total solutions are tailored to each property's unique needs.

Fujitsu General provides the best control solutions for buildings.



Target buildings

A casual conversation with a colleague at work

A presentation in a large meeting room

A restaurant you stop by Your living room

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

Fujitsu General's air conditioners are used in all aspects of everyday life.



For Light commercial use

Comfortable and economical air conditioning systems, ideal for small and midsize commercial buildings

038 Shops and Restaurants

040 Small offices

042 Hotels

044 Schools



For Commercial use

Single and modular VRF systems for high efficiency, comfort, design flexibility, ease of installation, and high reliability

046 Large Buildings



For Residences

Smart air conditioning systems with extensive control options for comfort and convenience of use

048 Residences



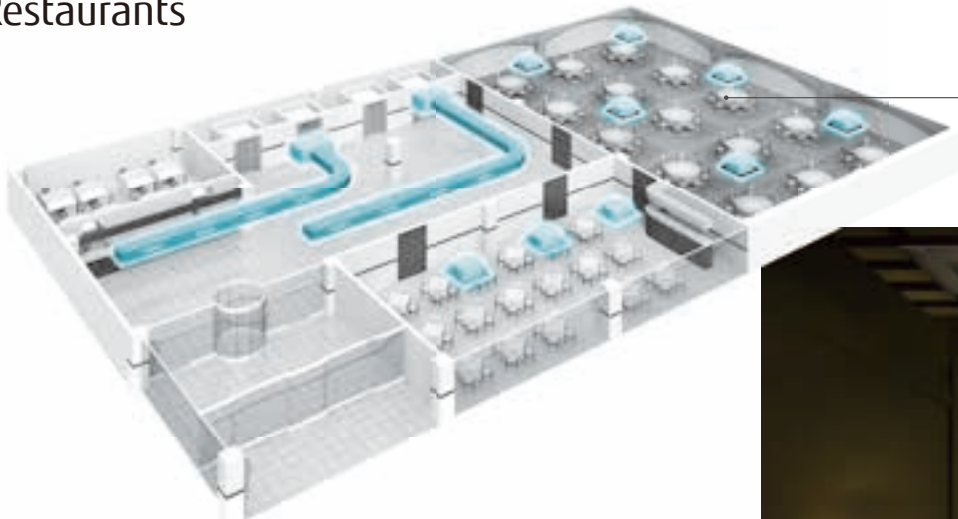
Restaurant, shops

For Light commercial use

Fujitsu General provides perfect total air conditioning systems that offer seamless 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 Restaurants



Circular flow
cassette Series



Compact cassette



reddot winner 2020

Ceiling type



Mini duct



Slim duct



Medium static
pressure duct

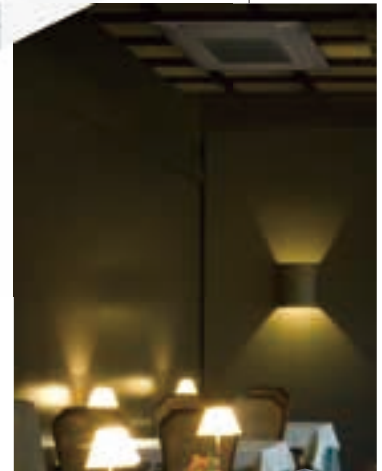


R32 large model lineup expanded

Expanded lineup of ceiling, cassette, and duct types suitable for large spaces using environmentally friendly R32 refrigerant



High static pressure duct



Circular flow
cassette Series
For ambience with
dimmed lighting



For rooms with
bright interiors

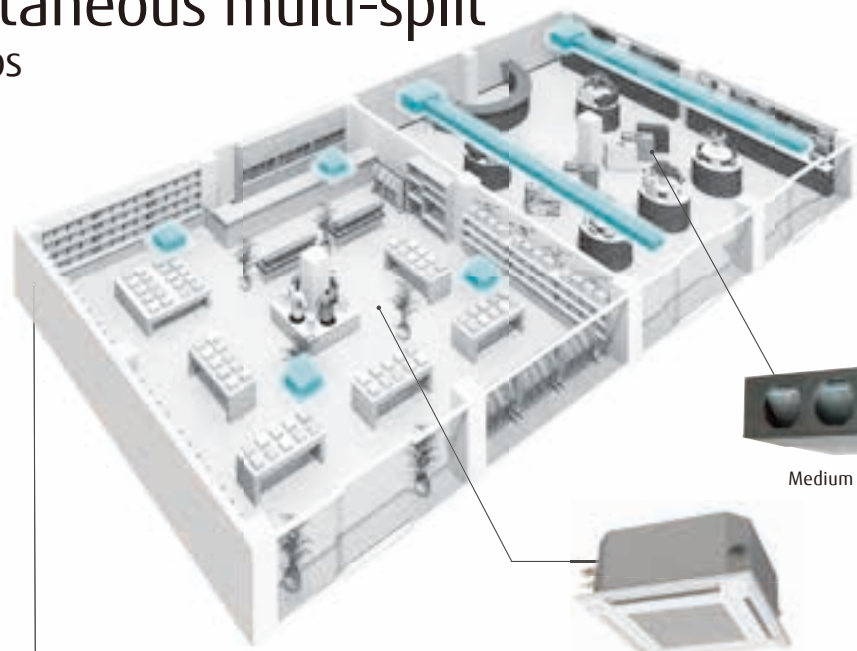


Two panel colors

Both black and white panels are available for Cassette type. Black panels are suitable for dark places such as atmospheric restaurants. White panels, by contrast, are more appropriate for use in brightly lit spaces such as offices. (Available for Single split and VRF indoor units)



Simultaneous multi-split For Shops



Medium static pressure duct



Compact cassette



Twin 36 class
(Single phase)

Twin/Triple 45/54 class
(Single phase)

Various indoor unit lineup

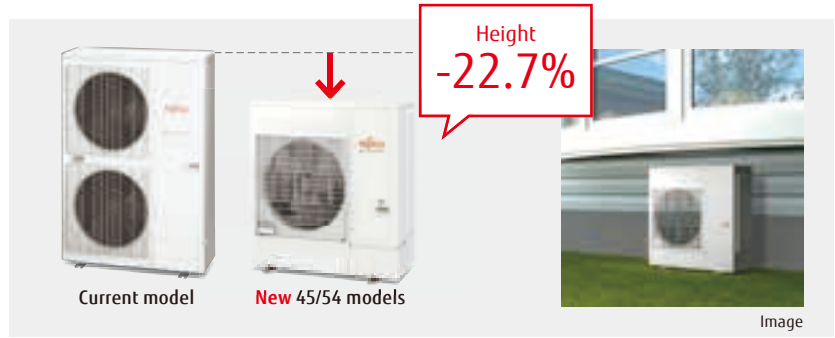
You can choose from 3 types of indoor units to suit the atmosphere and layout of your shop.



Slim duct

Small, lightweight outdoor unit

Models equipped with the new R32 refrigerant. Compared to current models, the outdoor unit is more compact and easier to install. (45/54 models)
Compact cassette Series for grid ceiling were added to the lineup of indoor units to improve ease of installation.



Current model

New 45/54 models

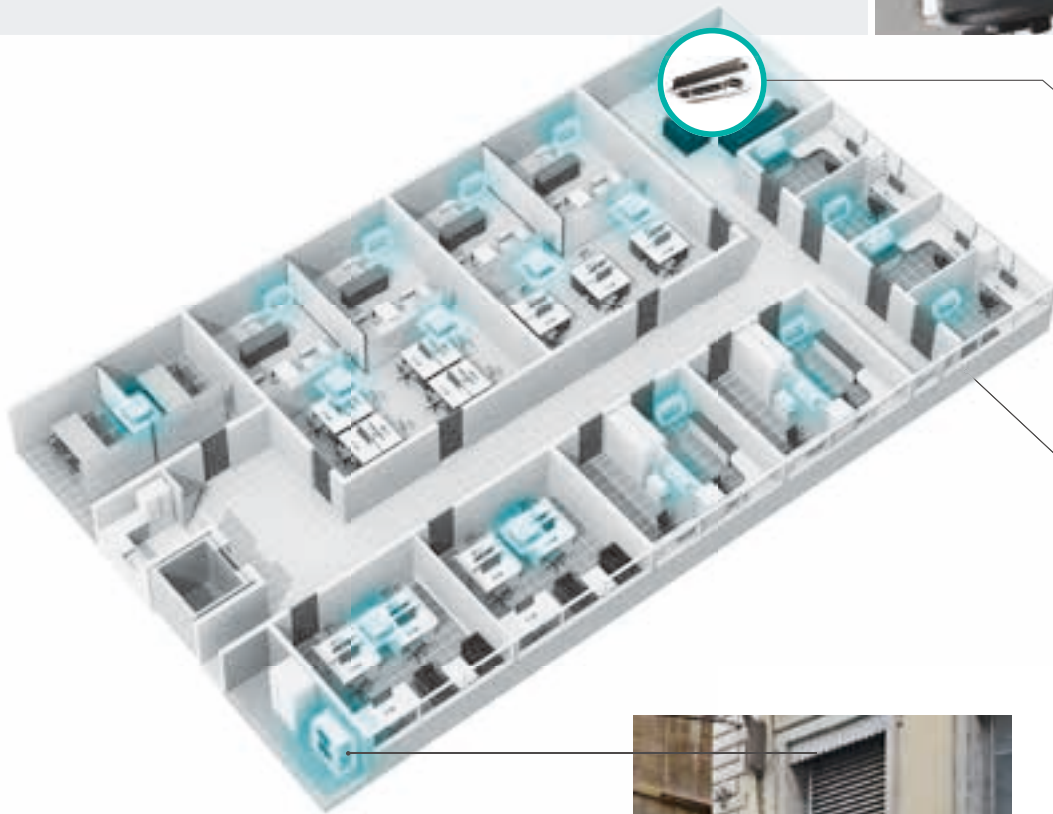
Image



Small offices

For Light commercial use

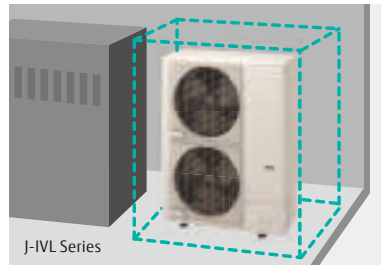
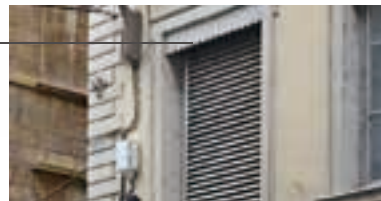
Fujitsu General offers a perfect total air conditioning system for small office buildings with multiple small rooms, taking into consideration energy savings, low noise, comfortable air volume, usage and purpose, and centralized control.



J-IV Series

J-IVL Series

J-IVL Series High-capacity model



J-IVL Series

Compact outdoor unit with low noise design

Takes up little space even when installed in a machine room or on the roof. Sufficient static pressure can be maintained even with louvers. Low-noise mode suffices even for nighttime operations at low noise levels.

VRF J Series compact outdoor units with up to 18 HP

Suitable for the buildings with multiple small rooms. Up to 42 indoor units* can be connected.

*Only J-IVL Series 18 HP model



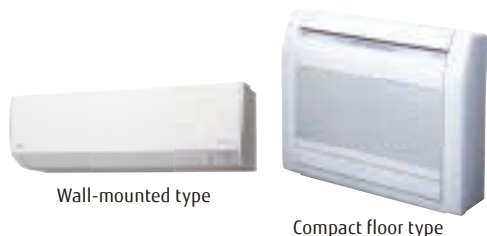
Breakthrough 3D flow cassette with innovative pursuit of comfort

The left and right air outlet ports with a maximum rotation angle of 100° and the wide central air outlet port create a comfortable space with less uneven temperature.



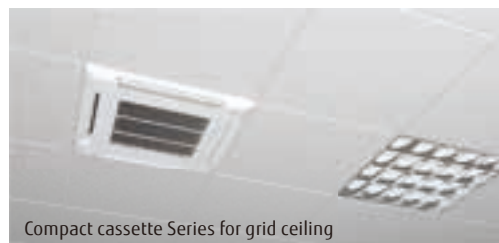
Wide lineup of indoor units of low-capacity class

Various low-capacity 1.1 kW indoor units are available for small rooms and spaces.

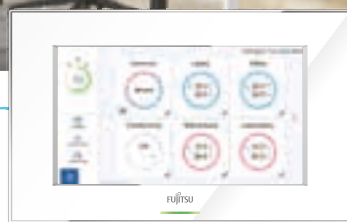


Wall-mounted type

Compact floor type



Compact cassette Series for grid ceiling



Central remote controller UTY-DCGYZ2



Central remote controller with improved operability

Controls the temperature of each room easily, and manages and sets the operation control for a week. Energy-saving management by setting upper and lower temperature limits and operating prohibitions.

LAN



Computer

Control and monitoring

You can operate the main unit from your desk. Non-administrators can also operate the air conditioners with a computer, smartphone or tablet PC.



Router

Static IP address and IP forwarding to open ports required



Tablet PC

Smartphone

*Wireless LAN will be supported in the future.



Compact wired remote controller

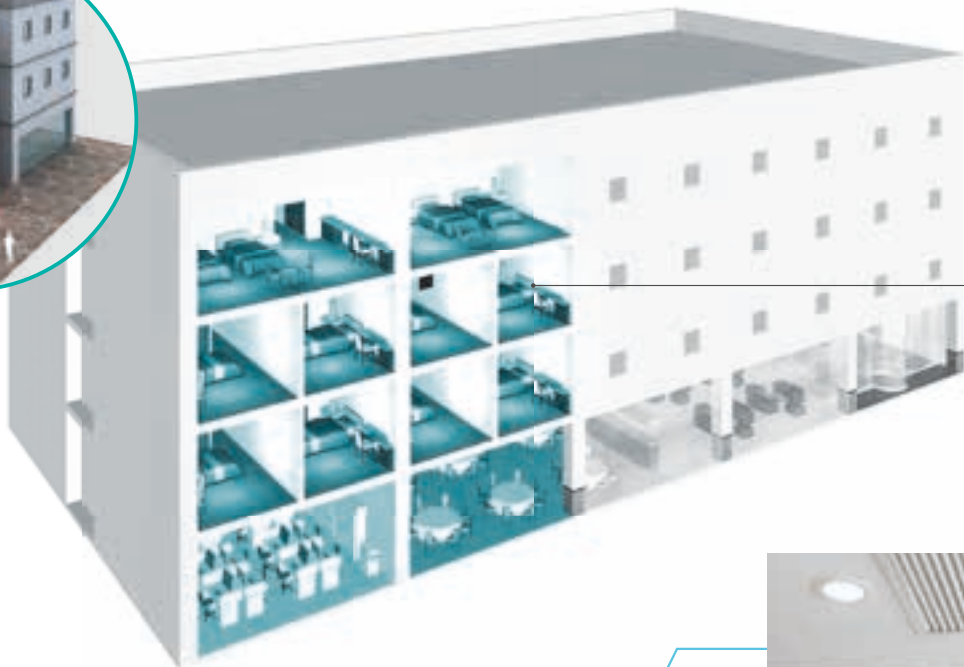
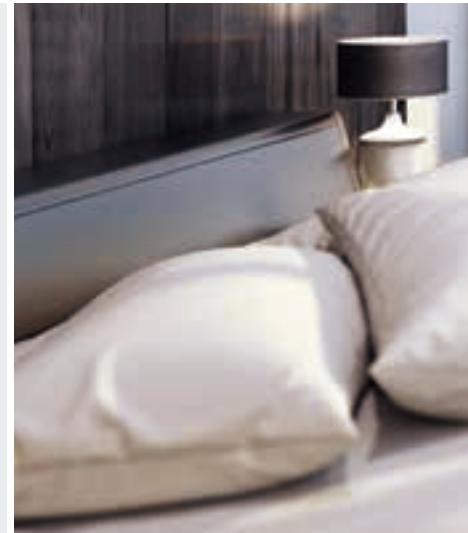
Compact size with a large screen for easy operation. The stylish design harmonizes with the interior.



Hotels

For Light commercial use

Fujitsu General offers total air conditioning systems perfect for low-rise, small hotels that take into account energy savings, external appearance, safety, and ease of installation.



J-IV Series

J-IVL Series

J-IVL Series
High-capacity model



Supports ventilation for the entire hotel

Outdoor air processing is essential in an airtight hotel space. The DX kit links up with air conditioners to ensure sufficient ventilation. The system is expandable.

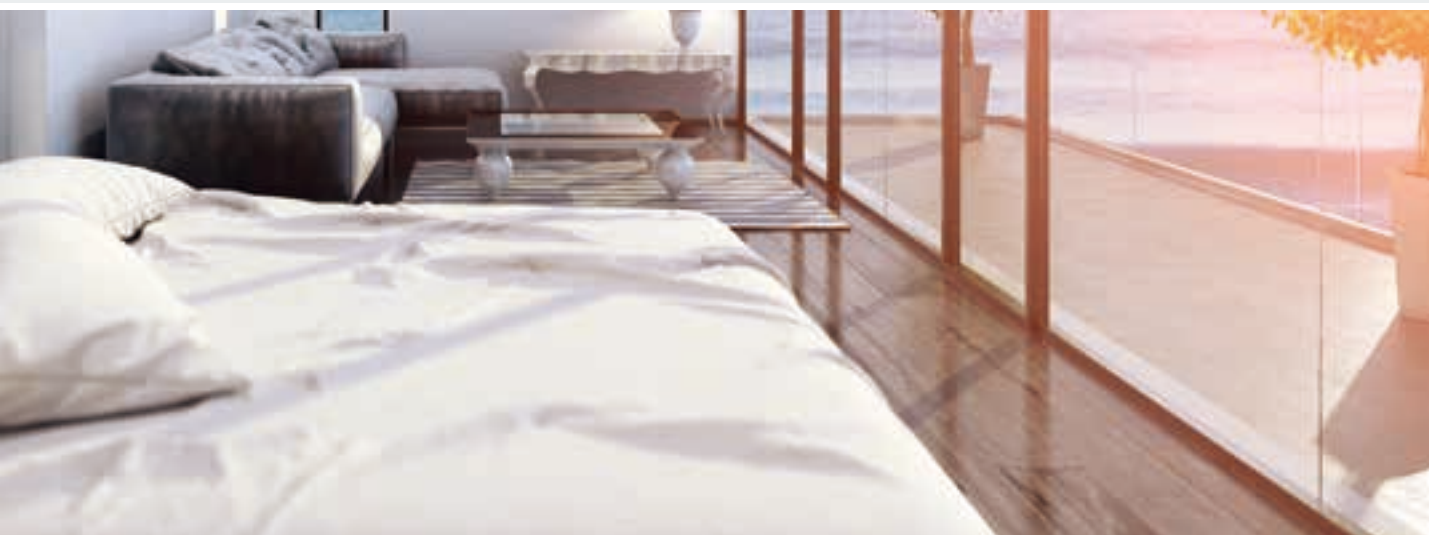
VRF J Series compact outdoor unit with appearance-conscious design

The class-leading compact design will not detract from the appearance of the hotel.



EEV unit

Control unit



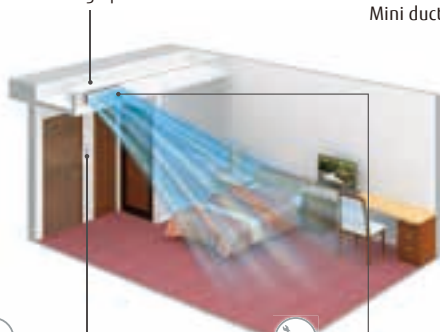
Guest room air conditioning with superior comfort, energy efficiency, and ease of installation

Space saving

Mini duct type with a height of 198 mm and a depth of 450 mm. Easily installed in a narrow ceiling space.



Mini duct



Card key switch available

Linked to a card key to prevent people from forgetting to turn off the air conditioner.



External connection switch



Comfortable airflow by switching the up/down airflow direction

The Auto louver grille kit creates comfortable airflow by adjusting the air direction.



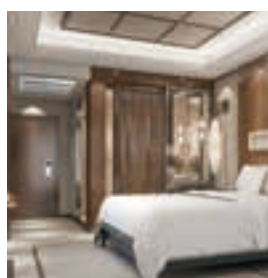
Auto louver grille kit



One-way flow cassette Series

Compact chassis with low noise operation

The low operating noise makes the model ideal for use in hotel rooms.



Centralized control of air conditioning for shared spaces

Lobbies, hallways, and other common spaces are centrally controlled for air conditioning. Temperature and operating conditions can be managed without any adjustments by the guests.



System controller



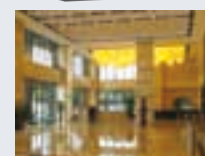
Simple remote controller with sophisticated design

The ease of operation makes it an ideal choice for use in hotels or offices. Simple buttons and a white backlit large LCD screen make it easy to operate in the dark.



Large space air conditioning for the reception area and lobby

Duct type Big duct Series suitable for large spaces with high ceilings

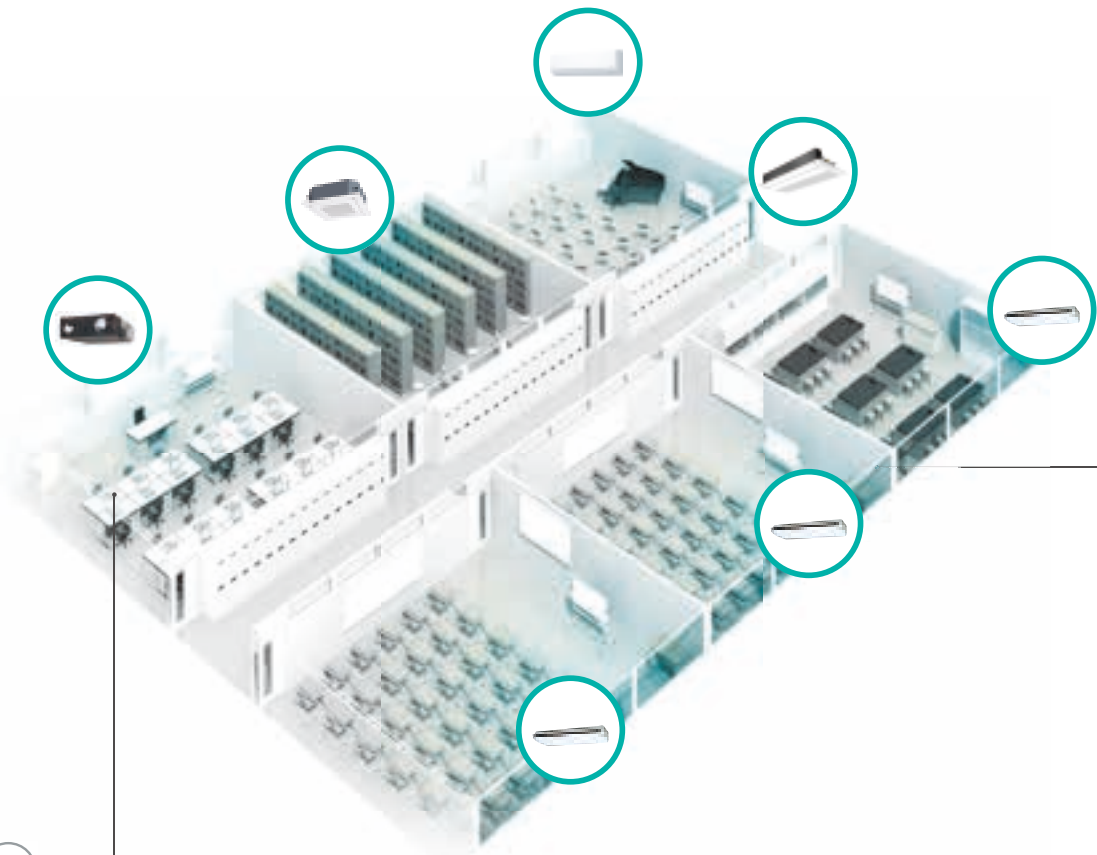




Schools

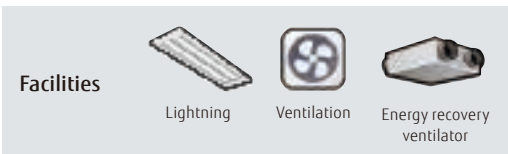
For Light commercial use

Fujitsu General offers indoor units that allow multiple connections with a compact design that reduces the installation area and increases the flexibility for selecting installation locations, making them perfect for midsize educational institutions. One single outdoor unit is able to cover an entire school building.



Centralized control of both air conditioning and ventilation equipment

Centralized control is also possible to stop the operation of not only air conditioners but also lighting and ventilation equipment. These features are useful for managing the energy efficiency of the entire building.



System controller Lite



One-way flow cassette Series



Mini duct



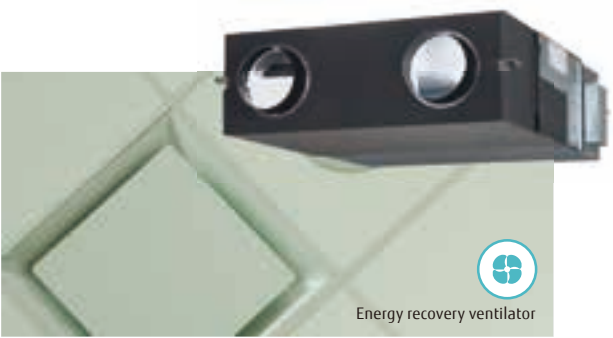
Ceiling type



Wall-mounted type

Wide variety of indoor units

Support complex applications for regular classrooms, special classrooms and auditoriums. Ventilators can also be added easily.



Energy recovery ventilator



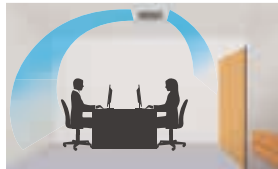
Circular flow cassette Series

Comfortable room air conditioning without airflow sensation

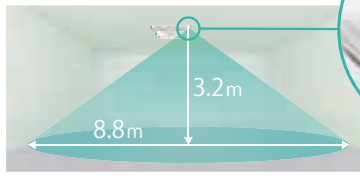
Circular flow cassette blows air in all directions at a uniform temperature.



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



Energy-saving operation when unattended, in conjunction with a Occupancy sensor.



Occupancy sensor (option)



Large buildings

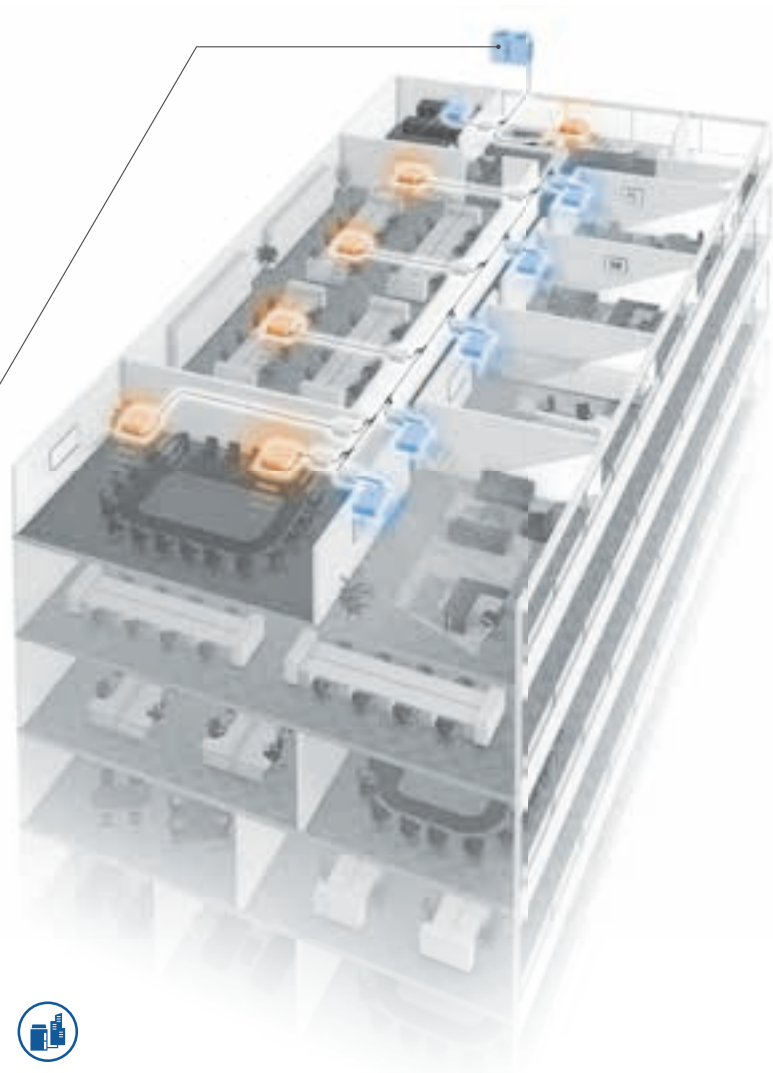
For Commercial use

Fujitsu General offers modular VRF systems that pursue high efficiency, comfort, design flexibility, ease of installation, and reliability for high-rise buildings.



Abundant lineup optimized for the operating environment

The VRF system meets a variety of needs, including energy-saving models and models with compatibility to outdoor temperatures of up to 46°C.



VRF **VR-IV**

Smart, cutting-edge design Extensive lineup from 8 HP to 48 HP with the capacity ratio of indoor units connectable up to 150%.

34 models with 8 to 48 HP

- Space saving combination: 21 models from 8 to 48 HP
- Energy efficient combination: 13 models from 16 to 44 HP

VRF **V-IV**

34 models from 8 to 48 HP

- Space saving combination: 21 models from 10 to 48 HP
- Energy efficient combination: 13 models from 16 to 46 HP



Height difference up to 110 m

The height difference between the outdoor unit and the indoor unit is normally 50 m for the V-IV Series, but can be extended to 110 m by installing the Pressure sensor kit.

* Can only be connected to the V-IV Series



Pressure sensor kit

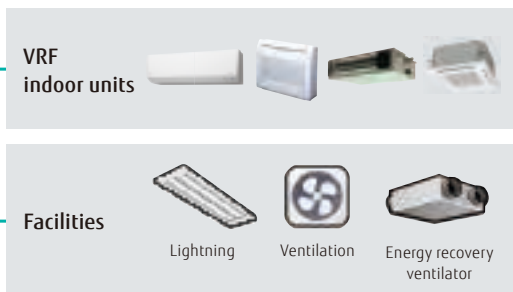
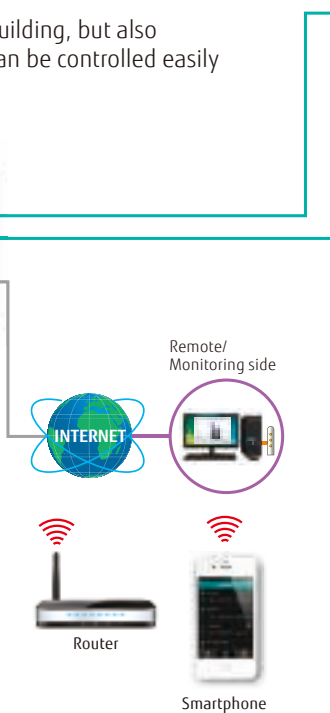


Centralized control

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

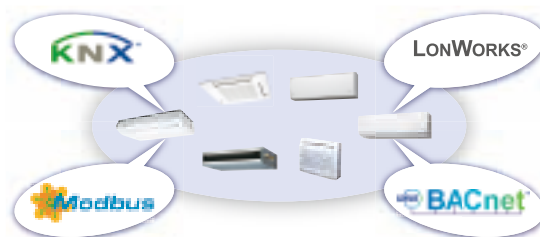


System controller
(UTY-APGXZ1)
System controller Lite
(UTY-ALGXZ1 & UTY-PLGXZ2)



Linkage with various BMS

Linking with MODBUS®, BACnet®, KNX® and other interfaces allows centralized control of equipment other than air conditioning.

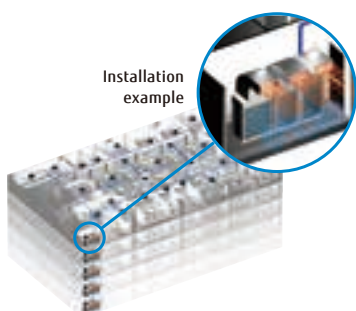


High system flexibility

The industry-leading high static pressure, long pipe design, and connection capacity enable flexible installation on each floor and installation of various indoor units.

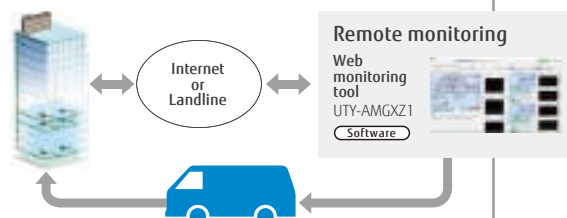
82* Pa

*: V-IV Series, 80Pa for VR-IV Series



Prompt service support

Web monitoring tool and System controller remotely monitor the air conditioning of the entire building. Self-diagnosis in cooperation with the management company enables quick response in case of an emergency.

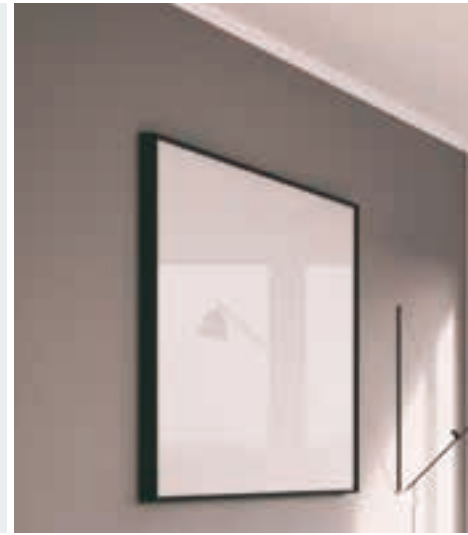




Residences

For Apartments & Houses

From the living room, where the whole family relaxes, to bedrooms, children's rooms and other small rooms, Fujitsu General has designed systems suited to spaces that reflect the rhythm of life.



A variety of indoor units to suit the characteristics of each room



For Living & Dining room

Cool beauty design Series

This series features a special European-style design. The light, elegant and three-dimensional expression achieved by the curved surface is beautiful from all angles.



For Large rooms

Standard & Comfort Series

The basic functions and powerful, comfortable airflow volume controls are optimal for large spaces.



reddot award 2019 winner



For Primary bedrooms or Living rooms

Good Design Award winning, Quiet Series

High performance, low noise with emphasis on design



For Bedrooms or Home offices

Standard & ECO Range Series

High performance and compact design suitable for bedrooms, home offices and other small spaces

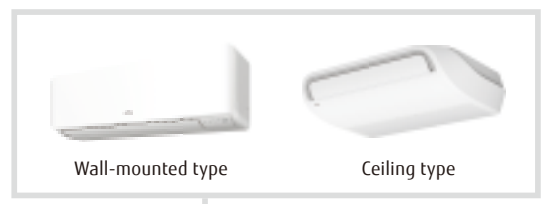


Outdoor units suitable for residential environments



R32 Multi-split type released

Models are now available with environment-friendly R32 refrigerant. A number of products with improved external design have been added to the indoor unit lineup.



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 or in your parents' house (up to 24 air conditioners).



AIRSTAGE Mobile

Download Free

Download on the App Store | Get it on Google play

With the WLAN adapter and the AIRSTAGE Mobile app, you can control the heating and cooling of your home anytime, anywhere.

Light Commercial & Residential

SPLIT & MULTI-SPLIT

Energy saving design to provide a comfortable indoor environment while being environment-friendly.

These are air conditioners that are both user-friendly and environment-friendly. Fujitsu General air conditioners cater to a wide range of needs, from living rooms, bedrooms, stores, small offices, through to hotels.

SPLIT

- Refrigerant R32 models
 - Wall-mounted type
 - Cassette
 - Duct
 - Floor
 - Ceiling
- Refrigerant R410A models
 - Duct

MULTI-SPLIT

- Refrigerant R32 models
 - 2-unit to 5-unit Multi-split
 - Simultaneous Multi-split Twin/Triple
- Refrigerant R410A models
 - 6-unit Multi-split
 - Simultaneous Multi-split Twin/Triple/Double Twin





SPLIT & MULTI-SPLIT

Light Commercial &
Residential



Light Commercial & Residential SPLIT

- S-004 Split Overview
- S-006 Indoor Units Lineup
- S-008 Features
- S-013 Features Explanation
- S-048 ECO Series Lineup Specifications
- S-052 Feature Summary



Refrigerant R32 models

Wall-mounted type - Built in W-LAN adapter model

- S-014 Designer Series
 - High Spec & Design
 - Cool Beauty Design
- S-018 Standard Series
 - High-Efficiency & Comfort

Wall-mounted type

- S-020 Standard Series
 - High-Efficiency & Large Rooms
- S-024 ECO Series
 - Compact Size
 - Comfort for Large Rooms

Cassette

- S-028 Compact 4-way Flow Series - Compact Size
- S-030 Circular Flow Series - Comfort for Large Rooms

Duct

- S-032 Slim Duct - Slim Design
- S-034 Medium Static Pressure Duct
 - Compact Size
 - Standard
- S-036 Medium Static Pressure Duct - Standard
- S-038 High Static Pressure Duct

Floor, Ceiling

- S-044 Floor - Compact Size
- S-046 Ceiling



Refrigerant R410A models

Duct

- S-040 High Static Pressure Duct
- S-042 Big Duct





Split Overview

Fujitsu General provides its customers with 5 types and 87 models of air conditioning systems perfect for various customer applications and layouts. Added to this lineup recently are the environment-friendly R32 refrigerant models.



Wall-mounted type, Designer Series, Cool Beauty Design



Ceiling



Wall-mounted type

Simple and easy to install, all models, are expertly designed to control airflow and save energy. The design, with its flat and simple appeal, perfectly matches room interiors. Many of the models in the lineup adopt the new environmentally friendly R32 refrigerant.



Duct

The main unit is hidden in the wall, making the room look neat and tidy. Mini Duct and Slim Duct models are also available for installation in narrow spaces between beams or above the ceiling. Large models, suitable for air conditioning vast spaces, allow multiple outlets to be installed in just one unit, and are perfect for atypical room layouts.



Cassette

The Cassette type, which blends in perfectly with the interior design, blows air in all four directions to create an even air-conditioning for the entire space. We have a variety of series including Compact models with a uniquely designed panel to match grid ceilings, and Circular Flow models that send airflow in a 360° direction.



Floor





























The compact and slim design makes this model suitable for installation in commercial as well as residential buildings. This model is also recommended as a heating device because it delivers a warm airflow from both the top and bottom outlets.



Ceiling

As with the wall-mounted unit, ceiling installation is very easy, and the unit's thin structure with a height of just 240 mm allows neat installation. The powerful airflow that can reach far away from the wide outlet is perfect for large meeting rooms, audiovisual rooms, and other rectangular spaces with a lot of depth.

Indoor Units Lineup

Type	Series	Refrigerant	Model	Class		
				7	9	12
Wall-mounted type Built in W-LAN adapter model	Designer Series High Spec & Design		 NEW	ASYG07KGTf	ASYG09KGTf	ASYG12KGTf
	Designer Series Cool Beauty Design		 NEW	ASYG07KETf ASYG07KETf-B	ASYG09KETf ASYG09KETf-B	ASYG12KETf ASYG12KETf-B
	Standard Series High-Efficiency & Comfort		 NEW	ASYG07KMCF	ASYG09KMCF	ASYG12KMCF
Wall-mounted type	Standard Series High-Efficiency & Large Rooms					
	Standard Series High-Efficiency & Large Rooms		 NEW			
	ECO Series Compact Size			ASYG07KPCE	ASYG09KPCE	ASYG12KPCE
	ECO Series Comfort for Large Rooms					
Cassette	Compact 4-way Flow Series Compact Size				AUXG09KVLA	AUXG12KVLA
	Circular Flow Series Comfort for Large Rooms		 18/22/24 30/36/45/54			
Duct	Slim Duct		 09/12/14 18		ARXG09KLLAP	ARXG12KLLAP
	Medium Static Pressure Duct Compact Size		 12/14 18/22/24/30 36/45/54			ARXG12KHTAP
	Medium Static Pressure Duct Standard					
	High Static Pressure Duct					
						
Big Duct						
Floor Compact & Comfort				AGYG09KVCA	AGYG12KVCA	
Ceiling		 18/22 24/30 36/45/54				



FUJITSU GENERAL (Euro) GmbH participates in the ECP program for VRF. Check ongoing validity of certificate: www.eurovent-certification.com
*Models so marked are not ECC certified.

Class										
14	18	22	24	30	36	45	54	60	72	90
ASYG14KGTf										
ASYG14KETf ASYG14KETf-B										
ASYG14KMCF										
	ASYG18KMTE		ASYG24KMTE							
				ASYH30KMTB	ASYH36KMTB					
	ASYG18KLCA*		ASYG24KLCA*							
AUXG14KVLA	AUXG18KVLA	AUXG22KVLA	AUXG24KVLA							
	AUXG18KRLB	AUXG22KRLB	AUXG24KRLB	AUXG30KRLB	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB			
ARXG14KLLAP	ARXG18KLLAP									
ARXG14KHTAP	ARXG18KHTAP	ARXG22KHTAP	ARXG24KHTAP	ARXG30KHTAP	ARXG36KHTAP	ARXG45KHTAP	ARXG54KHTAP			
		ARXG22KMLB	ARXG24KMLA	ARXG30KMLA	ARXG36KMLA	ARXG45KMLA				
						ARXG45KHTB	ARXG54KHTB			
								ARYG60LHTA		
									ARYG72LHTA*	ARYG90LHTA*
AGYG14KVCA										
	ABYG18KRTA	ABYG22KRTA	ABYG24KRTA	ABYG30KRTA	ABYG36KRTA	ABYG45KRTA	ABYG54KRTA			

Features

High-Efficiency

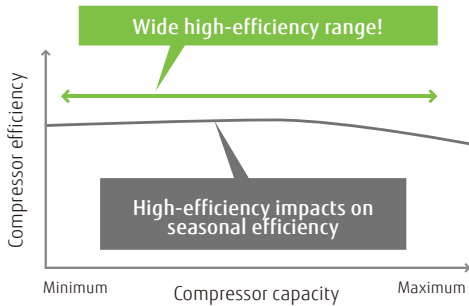
All DC Inverter Technology



DC twin-rotary compressor

DC twin-rotary compressor

A high-efficiency 2-cylinder rotary compressor with a DC inverter optimizes the internal structure of the compressor to achieve higher energy efficiency compared to similar compressors.



DC fan motor

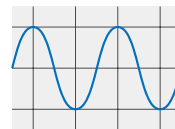
The DC fan motor produces high power, a wide operating range, and high-efficiency.



DC fan motor

Sine-wave DC inverter control

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



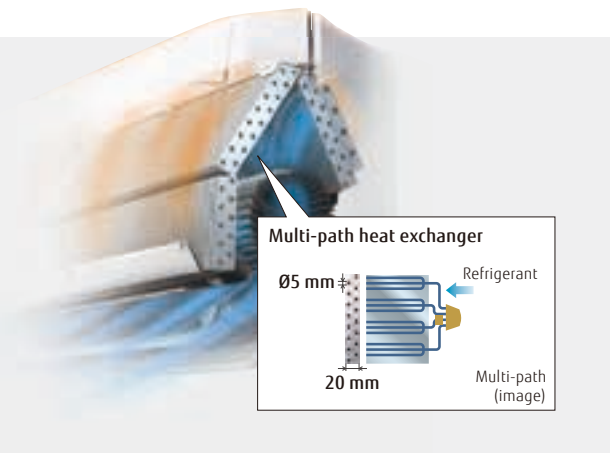
Heat Exchanger for Wall-mounted type

High-density multipath heat exchanger

Thinner and denser heat exchangers and multipath efficiency technology have substantially improved heat exchange performance.

High-performance sub-cool heat exchanger

A counter-type bypass circuit has been incorporated to achieve a higher performance. (Large multi-split type, VRF)

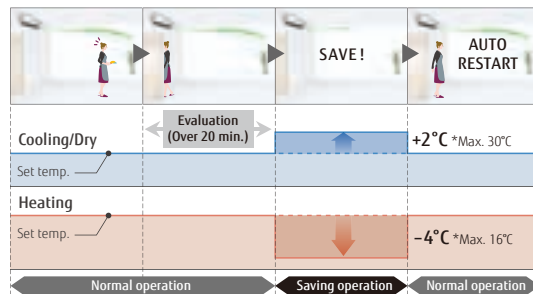


High Energy Saving



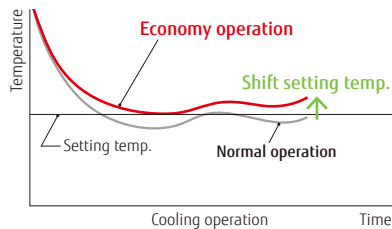
Occupancy sensor control

The Occupancy sensor monitors the movements of people in a room and operates the air conditioner at a lower capacity when people leave the room. When people come back to the room, it automatically returns to the previous operating mode.



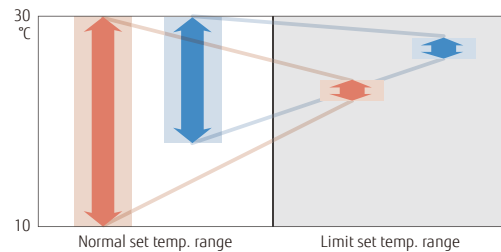
Economy operation

Limits maximum operation, reducing the power consumption, and thereby suppressing the maximum load.



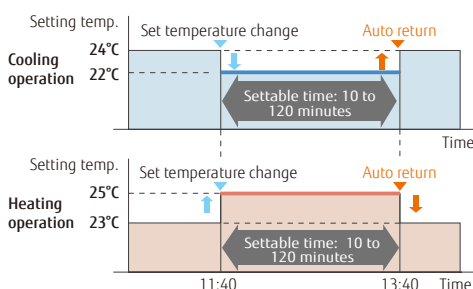
Setting temperature range limitation

The minimum and maximum temperature range can be set giving further energy savings while considering the comfort of the occupants.



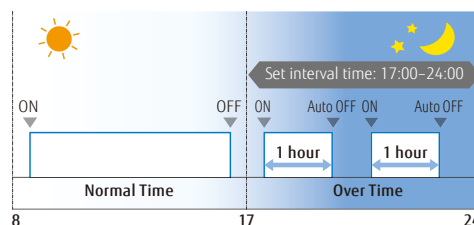
Set temperature auto return

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



Auto-off timer

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

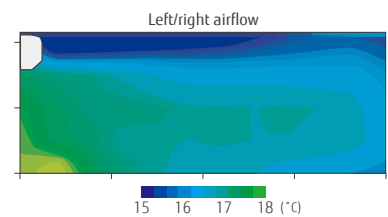
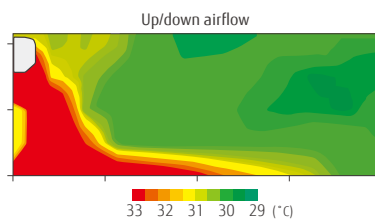


More Comfort



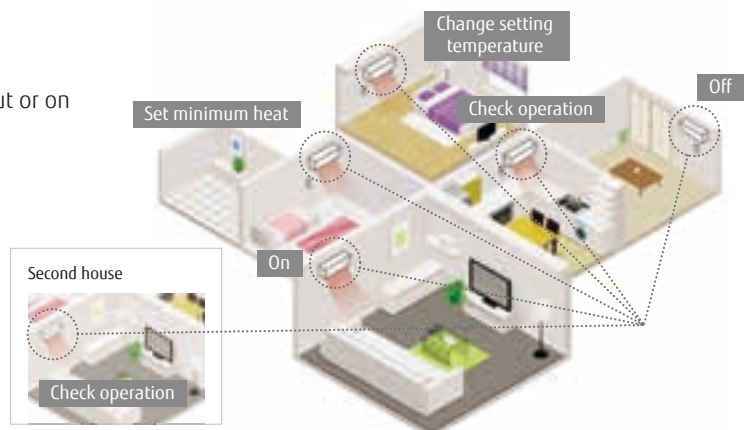
Power diffuser

These three technologies enable precise wind direction control and improve ventilation efficiency; our airflow control offers a more comfortable environment.



Wireless LAN control

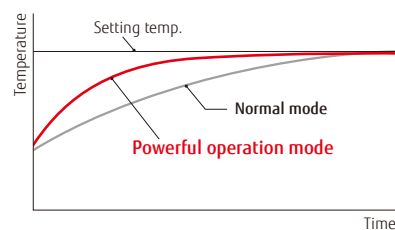
Users can control their air conditioners from anywhere with their mobile devices while out or on the move.





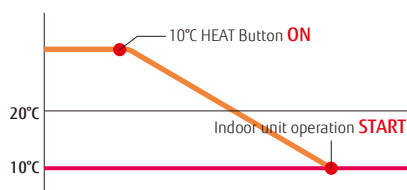
Powerful operation

Maximum airflow and maximum compressor speed are maintained for the period necessary to reach the set temperature quickly.



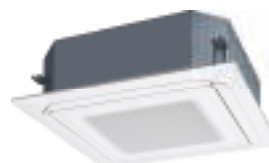
10°C heat

After a person has left the room, the system switches to minimum heating operation to maintain the room temperature. (Maintained at 10°C)



Uniform air conditioning

Circular airflow to achieve uniform air conditioning without temperature unevenness in workspaces



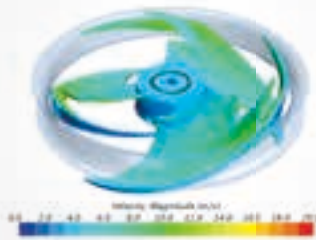
Quiet and Comfort Control



Low Noise Technology

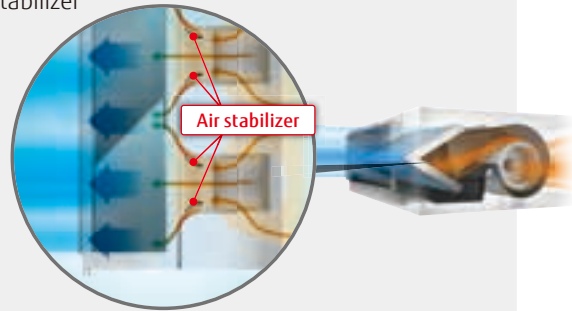
Outdoor unit fan

Outdoor unit fan design with a small separation vortex, minimized air volume by fan control, and top-class low noise



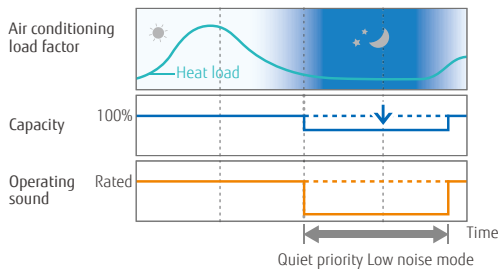
Air stabilizer in Duct

Low-noise duct structure with a built-in air stabilizer



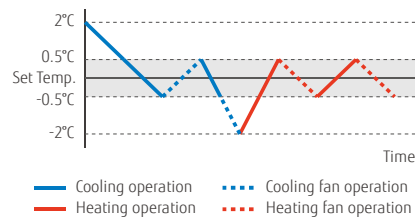
Outdoor unit low noise operation

Users can choose low noise levels, depending on the installation environment. Operation time can be set by timer.



Auto changeover

In an auto setting, the system automatically switches between cooling and heating modes according to the set temperature and room temperature.



Fresh air intake for Cassette, Duct, Ceiling

Fresh air is taken in by a fan connected to an external control unit.



Fresh air intake kit

Feature Explanation

Energy-Saving Features



Save Occupancy sensor

The Occupancy sensor detects the movement of people in the room and determines whether to switch to energy saving operation.



Setting temperature range limitation

Sets the minimum and maximum limits on room temperature to establish the right balance between energy saving and a comfortable environment.



Occupancy sensor control

The Occupancy sensor (option) detects movement of people in the room and decides whether to save energy or stop the unit.



Set temperature auto return

The setting temperature automatically returns to the previously set temperature.



Economy operation

The thermostat setting is adjusted automatically according to the room temperature to avoid unnecessary cooling or heating.

Features for Comfort



Power diffuser

An additional louver that opens based on input from monitoring sensors to quickly enhance immediate comfort needs.



Outdoor unit low noise operation

The noise level of the outdoor unit can be selected.



Double swing automatic

Complex swing action of the louver enables automatic swing in both the left/right and up/down directions.



Connectable fresh air duct

Outside air can be introduced by attaching a locally purchased duct to the fresh air knockout and an optional part.



Individual airflow direction control

Each louver of a 4-way Cassette type can be controlled individually to provide comfortable airflow.



Powerful operation

Operation at maximum air flow and compressor speed, that quickly makes the room comfortable.



Auto changeover

The unit automatically switches between heating and cooling modes based on the temperature setting and the room temperature.



Automatic fan speed

A micro-computer automatically adjusts the airflow to follow the changes in room temperature.



Fresh air intake

Fresh air can be taken in by a fan connected to an external control unit.



10°C Heat

The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.



UP/DOWN swing louver

The vertical louver automatically swings up and down.



Auto restart

In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once the power supply is restored.



Connectable distributing duct

Locally purchased branch ducts can be attached to the systems to distribute the airflow.

Convenience Features



Auto-off timer

Automatically stops operation when a fixed time has elapsed from the start of operation.



Weekly timer

Different ON-OFF times can be set for each day.



External error output



Multi System Control

Operation using "Lead Lag Operation", "Back up operation", "Lag Operation" is possible. (Page C-011)



Sleep timer

A micro-computer gradually changes the room temperature automatically to promote a comfortable night's sleep.



Weekly & Temperature setback timer

Weekly & Temperature setback timer can set the temperature for 2-time spans and for each day of the week.



External ON/OFF input Special Cooling

Special Cooling¹ is a function that supports the operation of "Multi System Control".



Program timer

This digital timer allows selection of one of four options: ON, OFF, ON + OFF, or OFF + ON.



Filter sign

Indicates the filter cleaning period by blinking.



Wireless LAN control

The optional WLAN adapter enables the air conditioner to be operated by smartphone or tablet PC from outside the home.

Clean Features



Ion deodorization filter

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



Washable panel

Since the front panel is easy to remove, maintenance is also easy.



Apple-catechin filter

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



Silver Ion Filter

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



Long-life filter

Installation / Support



Automatic airflow adjustment

Automatically detects required airflow in each application case and adjusts the volume.



Drain pump as standard



Blue fin



Refrigerant cycle monitor

The values of each sensor and actuator can be displayed, and the status of the refrigeration cycle can be checked.



All DC models

NEW

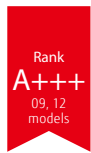
Wall-mounted type

Built-in W-LAN adapter model
Designer Series
High Spec & Design

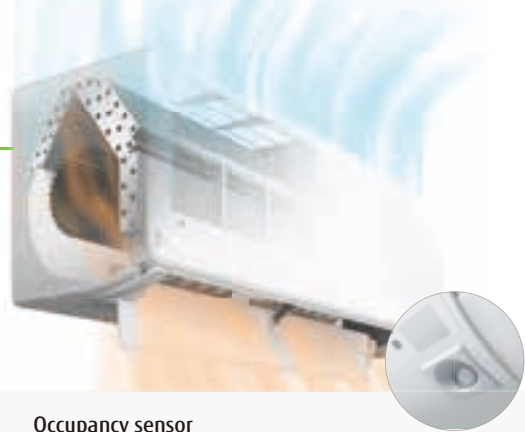


High energy saving

Top class high efficiency is achieved by high efficient lambda-shaped heat exchanger, large cross flow fan and new refrigerant.

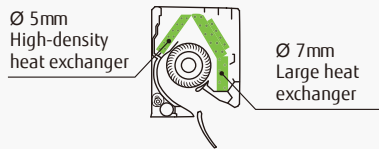


SEER **8.9** SCOP **5.3**
09 model 07 model



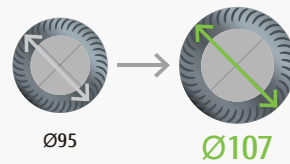
Hybrid-heat exchanger

The large hybrid heat exchanger has greatly improved the heat exchange efficiency to achieve top-level SEER and SCOP.



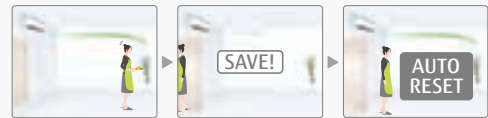
Ø107 Large cross-flow fan

The large-diameter fan generates air volume efficiently even at reduced power.



Occupancy sensor

The Occupancy sensor monitors the movements of people in a room and operates the air conditioner at a lower capacity when people leave the room. When people come back to the room, it automatically returns to the previous operating mode.



Comfortable airflow & Quiet operation

The large louver and the new air-blowing structure create a comfortable air flow that spreads all the way down to the user's feet with quiet operation.

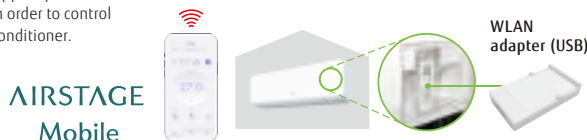


19 dB(A)
(07/09/12 models)
Cooling only

Smart device control

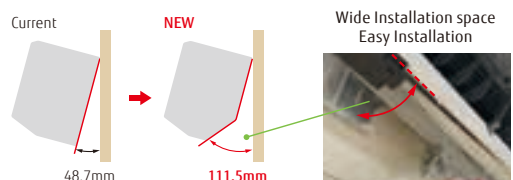
With the WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device.

You need to install the AIRSTAGE Mobile app on your smart device in order to control the air conditioner.



Easy access to the flare pipe connection

Installation when left outlet piping is easier by removable under cover of the indoor unit chassis. Installation when center outlet piping is easier by design change of wall hook bracket.



Model: ASYG07KGTF/ASYG09KGTF/ASYG12KGTF/ASYG14KGTF



WLAN adapter



Wireless RC



Specifications

Model name	Indoor unit		ASYG07KGTF	ASYG09KGTF	ASYG12KGTF	ASYG14KGTF	
	Outdoor unit		AOYG07KGCB	AOYG09KGCB	AOYG12KGCB	AOYG14KGCB	
Power Source	Single phase, ~230 V, 50 Hz						
Capacity	Cooling	kW	2.0 (0.9-3.2)	2.5 (0.9-3.4)	3.4 (0.9-4.1)	4.2 (0.9-4.5)	
	Heating		2.5 (0.9-5.2)	2.8 (0.9-5.4)	4.0 (0.9-6.1)	5.4 (0.9-6.4)	
Input Power	Cooling/Heating	kW	0.400/0.500	0.555/0.560	0.805/0.910	1.175/1.350	
EER	Cooling	W/W	5.00	4.50	4.22	3.57	
COP	Heating		5.00	5.00	4.40	4.00	
Pdesign	Cooling/Heating (-10°C)	kW	2.0/2.3	2.5/2.4	3.4/2.5	4.2/4.0	
SEER	Cooling	W/W	8.10	8.90	8.70	7.90	
SCOP	Heating (Average)		5.30	5.20	5.20	4.50	
Energy Efficiency Class	Cooling	A++		A+++	A+++	A++	
	Heating (Average)	A+++		A+++	A+++	A+	
Max. Operating Current	Cooling/Heating	A	6.5/9.0	6.5/9.0	6.5/9.0	9.0/10.5	
Annual Energy Consumption	Cooling	kWh/a	86	98	137	186	
	Heating		606	645	673	1,242	
Moisture Removal		l/h	1.0	1.3	1.8	2.1	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	38/33/29/19	40/34/29/19	40/35/30/19	43/36/30/20
	Indoor (Heating)	H/M/L/Q		41/35/31/21	42/36/31/21	42/38/33/21	44/39/33/24
	Outdoor (Cooling/Heating)	High		46/46	46/48	50/50	50/50
Sound Power Level	Indoor (Cooling/Heating)	High	54/56	55/57	56/58	57/59	
	Outdoor (Cooling/Heating)	High	61/62	61/63	65/66	65/66	
Airflow Rate	Indoor/Outdoor (Cooling)	High	650/1,610	700/1,610	700/1,680	770/1,680	
	Indoor/Outdoor (Heating)	High	720/1,560	750/1,610	770/1,580	800/1,580	
Net Dimensions H x W x D	Indoor	mm	270 × 834 × 215	270 × 834 × 215	270 × 834 × 215	270 × 834 × 215	
	Outdoor	mm	542 × 799 × 290	542 × 799 × 290	542 × 799 × 290	542 × 799 × 290	
Weight	Indoor	kg (lbs)	10 (22)	10 (22)	10 (22)	10 (22)	
	Outdoor	kg (lbs)	30 (66)	30 (66)	31 (68)	32 (71)	
Connection Pipe Diameter (Liquid/Gas)		mm	6.35/9.52				
Drain Hose Diameter (I.D./O.D.)			13.8/15.0 to 16.8				
Max. Pipe Length (Pre-Charge)		m	20 (15)				
Max. Height Difference			15				
Operating Range	Cooling	°CDB	-10 to 46				
	Heating		-15 to 24				
Refrigerant	Type (Global Warming Potential)		R32 (675)				
	Charge	kg (CO2eq-T)	0.75 (0.506)	0.75 (0.506)	0.85 (0.574)	0.85 (0.574)	

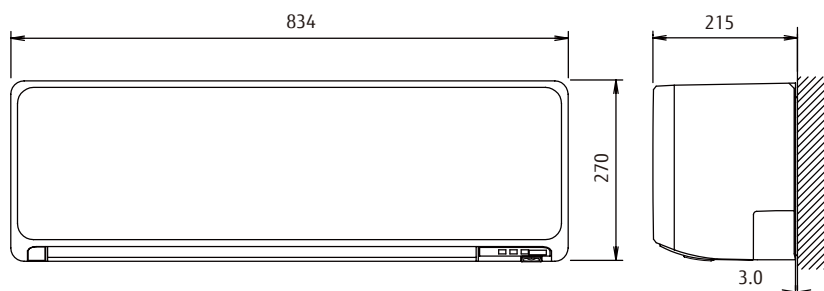
Optional parts

* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-048.

Compact wired remote controller:	UTY-RCRYZ1	External switch controller:	UTY-TERX	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired remote controller (touch panel):	UTY-RNRYZ5	Communication kit:	UTY-TWRXZ2	Network Converter for single split (AC power supply type):	UTY-VTGXV
Wired remote controller:	UTY-RLRY	External input and output PCB:	UTY-XCSXZ2	Silver Ion filter:	UTR-FA16-5
Simple remote controller (without operation mode):	UTY-RHRY	External connect kit:	UTY-XWZX		
Simple remote controller:	UTY-RSRY		UTY-XWZXZ5		

Dimensions

(Unit: mm)



NEW

Wall-mounted type

Built-in W-LAN adapter model
Designer Series
Cool Beauty Design



Cool beauty design

We have designed this series exclusively for the European market. The exterior design harmonizes beautifully with any decor and adds comfortable elegance to the room. The light, elegant and three-dimensional expression achieved by the curved surface is beautiful from any angle.

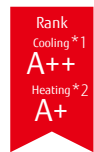


CMF: COLOR MATERIAL FINISH

The texture of the front panel expresses the craftsmanship of Europe, and changes its expression with the changing light of the day.

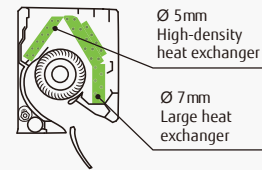
High energy saving

Top class high efficiency is achieved by high efficient lambda-shaped heat exchanger, large cross flow fan and new refrigerant.

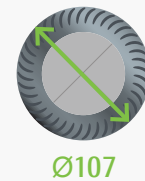


SEER 7.4 *1 SCOP 4.4 *2
*1: 07/09 models *2: 12 model

Hybrid-heat exchanger



Ø107 Large cross-flow fan



Comfortable airflow & Quiet operation

The large louver and the new air-blowing structure create a comfortable air flow that spreads all the way down to the user's feet with quiet operation.

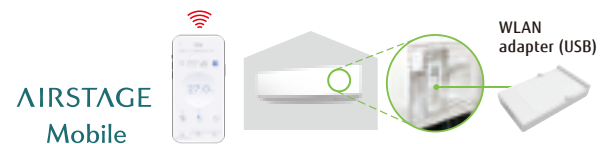


20 dB(A)
Cooling only

Smart device control

With the WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device.

You need to install the AIRSTAGE Mobile app on your smart device in order to control the air conditioner.





**Model: ASYG07KETF/ASYG09KETF/ASYG12KETF/ASYG14KETF (Peal white X White)
ASYG07KETF-B/ASYG09KETF-B/ASYG12KETF-B/ASYG14KETF-B (Silver X Dark gray)**



Peal white X White

Silver X Dark gray



WLAN adapter



Wireless RC



For ASYG07/09/12KETF
ASYG07/09/12KETF-B



For ASYG14KETF
ASYG14KETF-B

Specifications

Model name	Indoor unit		ASYG07KETF ASYG07KETF-B	ASYG09KETF ASYG09KETF-B	ASYG12KETF ASYG12KETF-B	ASYG14KETF ASYG14KETF-B	
	Outdoor unit		AOYG07KETA	AOYG09KETA	AOYG12KETA	AOYG14KETA	
Power Source	Single phase, ~230 V, 50 Hz						
Capacity	Cooling	kW	2.0 (0.9 - 3.0)	2.5 (0.9 - 3.2)	3.4 (0.9 - 3.9)	4.2 (0.9 - 4.4)	
	Heating		2.5 (0.9 - 3.4)	2.8 (0.9 - 4.0)	4.0 (0.9 - 5.3)	5.4 (0.9 - 6.0)	
Input Power	Cooling/Heating		0.450/0.555	0.630/0.620	0.935/0.960	1.220/1.410	
	EER	Cooling	4.43	3.97	3.65	3.44	
COP	Heating		4.52	4.52	4.17	3.83	
	Pdesign	Cooling/Heating (-10°C)	2.0/2.3	2.5/2.4	3.4/2.5	4.2/4.0	
SEER	Cooling		7.40	7.40	7.30	6.90	
	SCOP	Heating (Average)		4.10	4.10	4.40	4.10
Energy Efficiency Class		Cooling		A++	A++	A++	A++
	Heating (Average)		A+	A+	A+	A+	
Max. Operating Current	Cooling/Heating		6.5/9.0	6.5/9.0	6.5/9.0	6.5/9.0	
Annual Energy Consumption	Cooling		95	118	163	213	
	Heating		785	819	795	1,367	
Moisture Removal			l/h	1.0	1.3	1.8	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	38/33/29/20	40/34/29/20	40/35/30/20	43/36/30/20	
	Indoor (Heating)	H/M/L/Q	41/35/31/22	42/36/31/22	42/38/33/22	44/39/33/24	
	Outdoor (Cooling/Heating)	High	46/46	46/46	50/50	50/50	
Sound Power Level	Indoor (Cooling/Heating)	High	54/56	55/57	55/58	57/59	
	Outdoor (Cooling/Heating)	High	61/61	61/62	65/65	65/66	
Airflow Rate	Indoor/Outdoor (Cooling)	High	650/1,650	700/1,650	700/1,700	770/1,680	
	Indoor/Outdoor (Heating)	High	720/1,450	750/1,450	770/1,470	800/1,580	
Net Dimensions H x W x D	Indoor		295 × 950 (wall side: 840) × 230				
	Outdoor		mm	541 × 663 × 290	541 × 663 × 290	541 × 663 × 290	542 × 799 × 290
Weight	Indoor		kg (lbs)	11 (24)	11 (24)	11 (24)	11.5 (25)
	Outdoor		kg (lbs)	23 (51)	23 (51)	25 (55)	31 (68)
Connection Pipe Diameter (Liquid/Gas)			mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52
Drain Hose Diameter (I.D./O.D.)			mm	13.8/15.0 to 16.8	13.8/15.0 to 16.8	13.8/15.0 to 16.8	13.8/15.0 to 16.8
Max. Pipe Length (Pre-Charge)			m	20 (15)	20 (15)	20 (15)	20 (15)
Max. Height Difference				15	15	15	15
	Operating Range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46
Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	
Refrigerant	Type (Global Warming Potential)			R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge		kg (CO2eq-T)	0.6 (0.405)	0.6 (0.405)	0.7 (0.473)	0.85 (0.574)

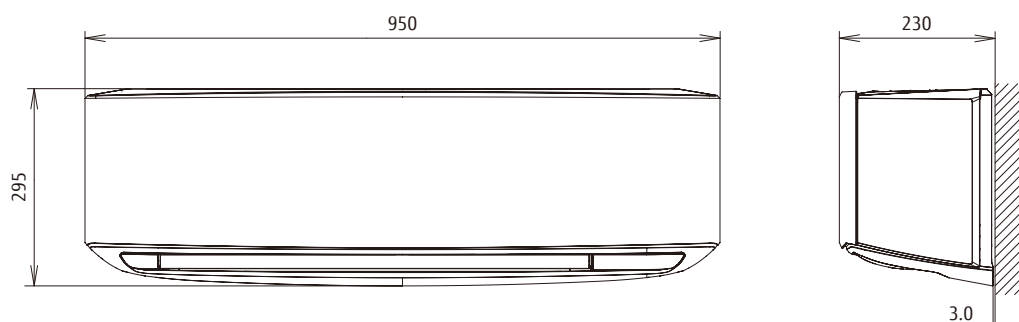
Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-048.

Compact wired remote controller:	UTY-RCRYZ1	Communication kit:	UTY-TWRXZ2	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired remote controller (touch panel):	UTY-RNRYZ5	External input and output PCB:	UTY-XCSXZ2	Network Converter for single split (AC power supply type):	UTY-VTGXV
Wired remote controller:	UTY-RLRY	External connect kit:	UTY-XWZX	Silver Ion filter:	UTR-FA16-5
Simple remote controller (without operation mode):	UTY-RHRY		UTY-XWZXZ5		
Simple remote controller:	UTY-RSRY	External switch controller:	UTY-TERX		

Dimensions

(Unit: mm)



NEW

Wall-mounted type

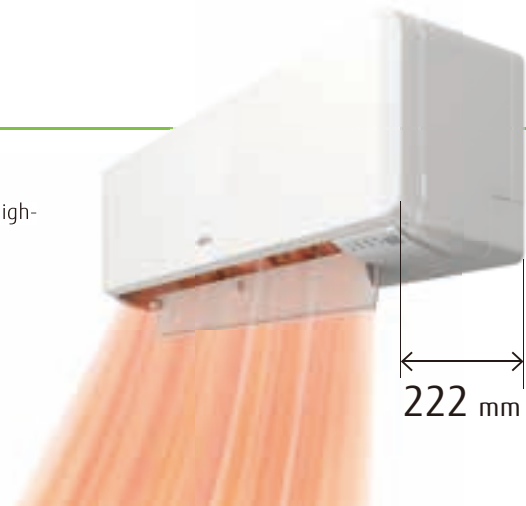
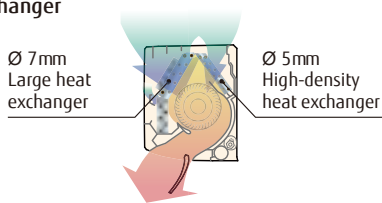
Built-in W-LAN adapter model
Standard Series
High-Efficiency & Comfort



Slim & stylish square design

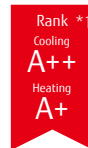
The slim and stylish square design of this indoor unit is realized by using a high-density, multipath heat exchanger and a high-efficiency wind blower.

Hybrid-heat exchanger



High energy saving

High-efficiency has been achieved by the lambda-shaped heat exchanger, large cross-flow fan, and the new refrigerant.



SEER **7.4** *1
*1: 07/09 models

SCOP **4.4** *2
*2: 12 model

Comfortable airflow & Quiet operation

The large louver and the new air-blowing structure create a comfortable air flow that spreads all the way down to the user's feet with quiet operation.



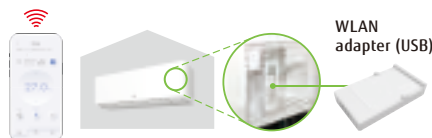
20 dB(A)
Cooling only

Smart device control

With the WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device.

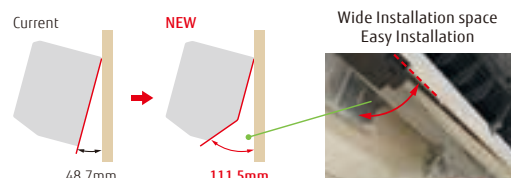
You need to install the AIRSTAGE Mobile app on your smart device in order to control the air conditioner.

AIRSTAGE Mobile



Easy access to the flare pipe connection

Installation when left outlet piping is easier by removable under cover of the indoor unit chassis. Installation when center outlet piping is easier by design change of wall hook bracket.





Model: ASYG07KMCF/ASYG09KMCF/ASYG12KMCF/ASYG14KMCF



WLAN adapter



Wireless RC



For ASYG07/09/12KMCF



For ASYG14KMCF

Specifications

Model name	Indoor unit		ASYG07KMCF	ASYG09KMCF	ASYG12KMCF	ASYG14KMCF	
	Outdoor unit		AOYG07KMCC	AOYG09KMCC	AOYG12KMCC	AOYG14KMCC	
Power Source	Single phase, ~230 V, 50 Hz						
Capacity	Cooling	kW	2.0 (0.9-3.0)	2.5 (0.9-3.2)	3.4 (0.9-3.9)	4.2 (0.9-4.4)	
	Heating		2.5 (0.9-3.4)	2.8 (0.9-4.0)	4.0 (0.9-5.3)	5.4 (0.9-6.0)	
Input Power	Cooling/Heating	kW	0.450/0.555	0.630/0.620	0.935/0.960	1.220/1.410	
	Cooling		EER	4.43	3.97	3.65	3.44
COP	Heating	W/W	4.52	4.52	4.17	3.83	
	Cooling/Heating (-10°C)		Pdesign	2.0/2.3	2.5/2.4	3.4/2.5	4.2/4.0
SEER	Cooling	W/W	7.40	7.40	7.30	6.90	
	Heating (Average)		SCOP	4.10	4.10	4.40	4.10
Energy Efficiency Class	Cooling		A++	A++	A++	A++	
	Heating (Average)		A+	A+	A+	A+	
Max. Operating Current	Cooling/Heating	A	6.5/9.0	6.5/9.0	6.5/9.0	6.5/9.0	
Annual Energy Consumption	Cooling	kWh/a	95	118	163	213	
	Heating		785	819	795	1,366	
Moisture Removal			l/h	1.0	1.3	1.8	
	Indoor (Cooling)	H/M/L/Q	dB(A)	38/33/29/20	40/34/29/20	40/35/30/20	43/36/30/20
Indoor (Heating)	H/M/L/Q	41/35/31/22		42/36/31/22	42/38/31/22	44/39/33/24	
Sound Power Level	Outdoor (Cooling/Heating)	High	46/46	46/46	50/50	50/50	
	Indoor (Cooling/Heating)	High	54/56	55/57	55/58	57/59	
Airflow Rate	Indoor/Outdoor (Cooling)	High	650/1,650	700/1,650	700/1,700	770/1,680	
	Indoor/Outdoor (Heating)	High	720/1,450	750/1,450	780/1,470	820/1,580	
Net Dimensions H x W x D	Indoor	mm	270 × 834 × 222	270 × 834 × 222	270 × 834 × 222	270 × 834 × 222	
	Outdoor	mm	541 × 663 × 290	541 × 663 × 290	541 × 663 × 290	542 × 799 × 290	
Weight	Indoor	kg (lbs)	10 (22)	10 (22)	10 (22)	10 (22)	
	Outdoor	kg (lbs)	22 (49)	22 (49)	24 (53)	31 (68)	
Connection Pipe Diameter (Liquid/Gas)			mm	6.35/9.52	6.35/9.52	6.35/9.52	
Drain Hose Diameter (I.D./O.D.)			mm	13.8/15.0 to 16.8	13.8/15.0 to 16.8	13.8/15.0 to 16.8	
Max. Pipe Length (Pre-Charge)			m	20 (15)	20 (15)	20 (15)	
Max. Height Difference			m	15	15	15	
Operating Range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	
Refrigerant	Type (Global Warming Potential)			R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge	kg (CO2eq-T)	0.6 (0.405)	0.6 (0.405)	0.7 (0.473)	0.85 (0.574)	

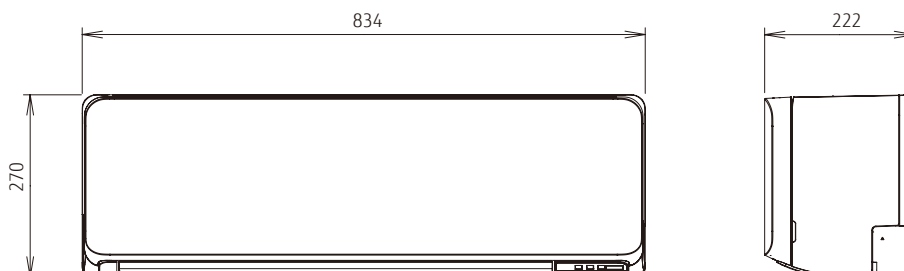
Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-048.

Compact wired remote controller:	UTY-RCRYZ1	Communication kit:	UTY-TWRXZ2	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired remote controller (touch panel):	UTY-RNRYZ5	External input and output PCB:	UTY-XCSXZ2	Network Converter for single split (AC power supply type):	UTY-VTGXV
Wired remote controller:	UTY-RLRY	External connect kit:	UTY-XWZX	Silver Ion filter:	UTR-FA16-5
Simple remote controller (without operation mode):	UTY-RHRY		UTY-XWZXZ5		
Simple remote controller:	UTY-RSRY	External switch controller:	UTY-TERX		

Dimensions

(Unit: mm)



Wall-mounted type

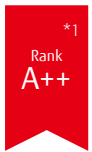
Standard Series

High-Efficiency & Large Rooms



High energy saving

Top class high efficiency is achieved by high efficient lambda-shaped heat exchanger, large cross flow fan and new refrigerant.

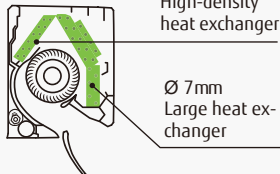


SEER ^{*1} 7.8 SCOP ^{*1} 4.6

^{*18} model

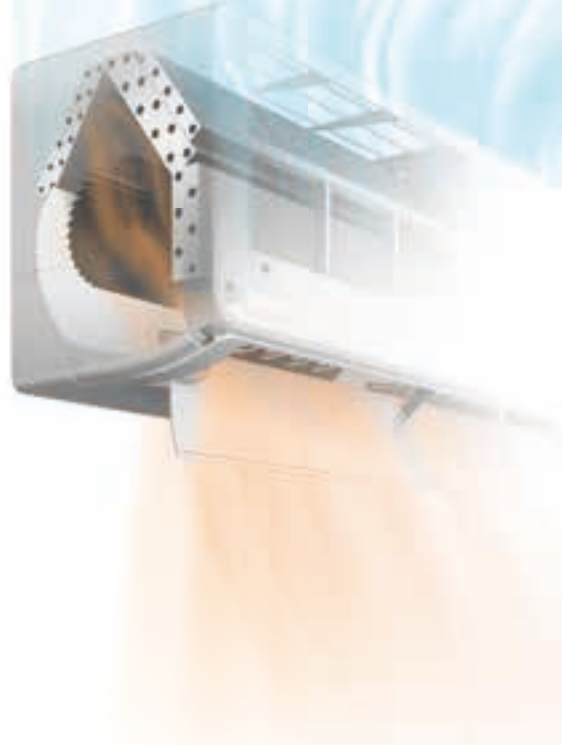
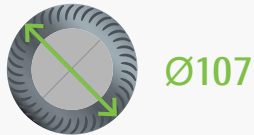
Hybrid-heat exchanger

The large hybrid heat exchanger has greatly improved the heat exchange efficiency to achieve top-level SEER and SCOP.



Ø107 Large cross-flow fan

The large-diameter fan generates air volume efficiently even at reduced power.

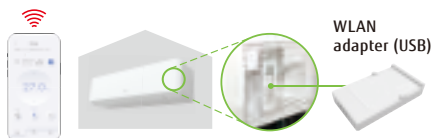


Smart device control (Option)

With the optional WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device. WLAN adapter can be installed easily without specialized installation work.

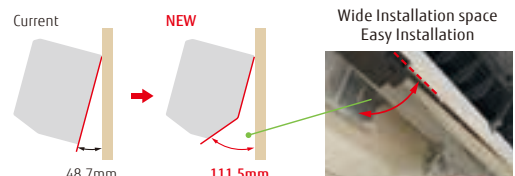
You need to install the AIRSTAGE Mobile app on your smart device in order to control the air conditioner.

AIRSTAGE Mobile



Easy access to the flare pipe connection

Installation when left outlet piping is easier by removable under cover of the indoor unit chassis. Installation when center outlet piping is easier by design change of wall hook bracket.



Model: ASYG18KMTE/ASYG24KMTE



Wireless RC



For ASYG18KMTE



For ASYG24KMTE

Specifications

Model name	Indoor unit		Outdoor unit		ASYG18KMTE	ASYG24KMTE		
					AOYG18KMTA	AOYG24KMTA		
Power Source					Single phase, ~230 V, 50 Hz			
Capacity	Cooling	kW			5.2 (0.9-6.0)	7.1 (0.9-8.3)		
	Heating				6.3 (0.9-8.7)	8.0 (0.9-10.1)		
Input Power	Cooling/Heating	kW			1.39/1.56	2.08/1.91		
	EER		Cooling	W/W			3.74	3.41
COP	Heating				4.04	4.19		
	Pdesign	Cooling/Heating (-10°C)	kW			5.2/4.8	7.1/7.1	
SEER	Cooling			7.77	7.30			
	SCOP	Heating (Average)	W/W			4.60	4.20	
Energy Efficiency Class		Cooling				A++	A++	
Max. Operating Current	Heating (Average)			A++	A+			
	Cooling/Heating	A			9.5/13.5	13.5/16.0		
Annual Energy Consumption	Cooling		kWh/a			234	340	
	Heating			1,460	2,362			
Moisture Removal			l/h			1.7	2.7	
	Sound Pressure Level	Indoor (Cooling)		H/M/L/Q			45/40/35/29	49/40/35/29
Indoor (Heating)		H/M/L/Q			46/40/35/29	49/40/35/29		
	Sound Power Level	Outdoor (Cooling/Heating)	High	dB(A)			50/50	54/52
Indoor (Cooling/Heating)		High			60/61	65/65		
Airflow Rate	Outdoor (Cooling/Heating)	High			65/65	67/66		
	Indoor/Outdoor (Cooling)	High	m³/h			980/2,350	1,170/3,240	
Net Dimensions H x W x D	Indoor/Outdoor (Heating)	High				1,020/2,100	1,170/2,820	
	Indoor			mm			280 × 980 × 240	280 × 980 × 240
Outdoor							632 × 799 × 290	716 × 820 × 315
Weight	Indoor			kg (lbs)			12.5 (28)	12.5 (28)
	Outdoor						36 (79)	42 (93)
Connection Pipe Diameter (Liquid/Gas)			mm			6.35/12.70	6.35/12.70	
Drain Hose Diameter (I.D./O.D.)						13.8/15.8 to 16.7	13.8/15.8 to 16.7	
Max. Pipe Length (Pre-Charge)			m			25 (15)	30 (15)	
Max. Height Difference						20	25	
Operating Range	Cooling	°CDB			-10 to 46	-10 to 46		
	Heating				-15 to 24	-15 to 24		
Refrigerant	Type (Global Warming Potential)					R32 (675)	R32 (675)	
	Charge	kg (CO2eq-T)					1.02 (0.689)	1.32 (0.891)

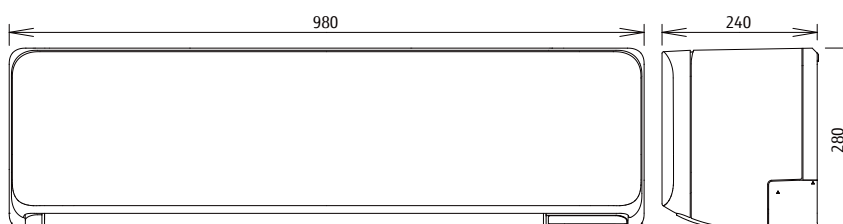
Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-048.

Compact wired remote controller:	UTY-RCRYZ1	Communication kit:	UTY-TWRXZ2	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired remote controller (touch panel):	UTY-RNRYZ5	External input and output PCB:	UTY-XCSXZ2	Network Converter for single split (AC power supply type):	UTR-FA16-5
Wired remote controller:	UTY-RLRY	WLAN adapter:	UTY-TFSXF2	Silver Ion filter:	UTY-TERX
Simple remote controller (without operation mode):	UTY-RHRY		UTY-TFSXH3	External switch controller:	UTY-TERX
Simple remote controller:	UTY-RSRY		FG-AC-WIFIZ1	External connect kit:	UTY-XWZXZ5

Dimensions

(Unit: mm)



NEW

Wall-mounted type

Standard Series

High-Efficiency & Large Rooms



NEW Multi-system control (option)

*Wired remote controller (UTY-RNRYZ5) is required.
*It is ideal for server room/technical room applications.

1) Lead Lag Operation

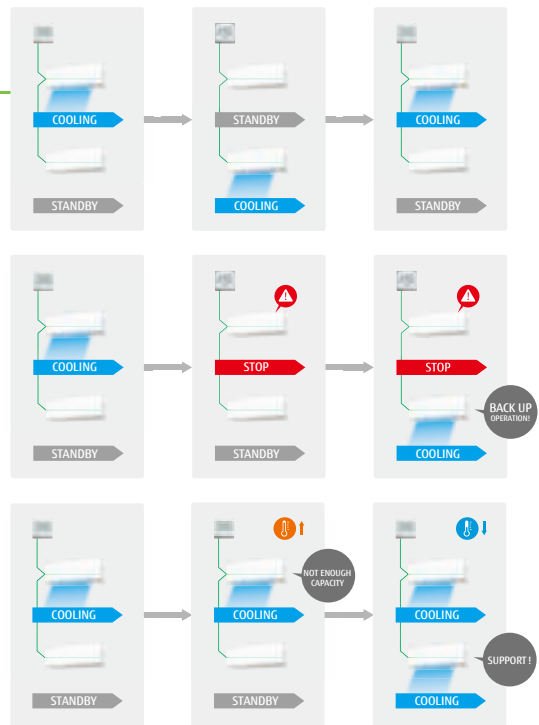
It is an easy-to-use function for room temperature control when using multiple indoor units, while reducing the burden placed on each indoor unit. Standby Indoor Unit can be selected in lead-lag operation. By this, the Indoor units will last longer than operating by nonstop.

2) Back up Operation

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

3) Lag Operation

In case of unexpected room temperature rise, other Indoor Units will start providing lag operation.



Occupancy sensor

The Occupancy sensor monitors the movements of people in a room and operates the air conditioner at a lower capacity when people leave the room. When people come back to the room, it automatically returns to the previous operating mode.



NEW Refrigerant cycle monitor (option)

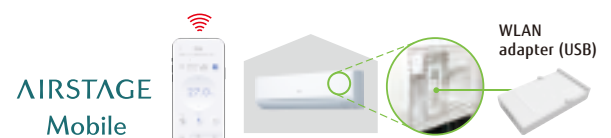
Wired Remote Controller (Touch Panel) will support to display some sensor values for maintenance and service support.
*Wired remote controller (UTY-RNRYZ5) is required.



Smart device control

With the WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device.

You need to install the AIRSTAGE Mobile app on your smart device in order to control the air conditioner.





Model: ASYH30KMTB/ASYH36KMTB



Wireless RC



Specifications

Model name	Indoor unit		Outdoor unit		ASYH30KMTB	ASYH36KMTB	
					AOYH30KMTB	AOYH36KMTB	
Power Source					Single phase, ~230V, 50Hz		
Capacity	Cooling	kW			8.0 (2.9-9.0)	9.4(2.9-10.0)	
	Heating				8.8(2.2-11.8)	10.1(2.7-12.6)	
Input Power	Cooling/Heating	kW			2.33/2.20	3.16/2.73	
	EER		Cooling	W/W			3.43
COP	Heating				4.00	3.70	
	Pdesign	Cooling/Heating (-10°C)	kW			8.0/6.5	9.4/7.1
SEER	Cooling			6.68	6.10		
SCOP	Heating (Average)	W/W			4.50	4.50	
	Energy Efficiency Class		Cooling			A++	A++
Max. Operating Current	Heating (Average)			A+	A+		
	Cooling/Heating	A			21.0/21.0	21.5/21.5	
Annual Energy Consumption	Cooling		kWh/a			419	534
	Heating			1,994	2,189		
Moisture Removal			l/h			2.6	3.8
	Indoor (Cooling)	H/M/L/Q				50/44/40/33	50/44/40/33
Sound Pressure Level	Indoor (Heating)	H/M/L/Q	dB(A)			49/44/39/33	49/44/39/33
	Outdoor (Cooling/Heating)	High				53/55	55/55
Sound Power Level	Indoor (Cooling/Heating)	High			65/65	65/65	
	Outdoor (Cooling/Heating)	High			68/69	70/70	
Airflow Rate	Indoor/Outdoor (Cooling)	High	m³/h			1,330/3,750	1,330/3,750
	Indoor/Outdoor (Heating)	High				1,330/3,750	1,330/3,750
Net Dimensions H x W x D	Indoor	mm			340 x 1,150 x 280	340 x 1,150 x 280	
	Outdoor	mm			788 x 940 x 320	788 x 940 x 320	
Weight	Indoor	kg (lbs)			18.5(41)	18.5(41)	
	Outdoor	kg (lbs)			52.0(115)	52.0(115)	
Connection Pipe Diameter (Liquid/Gas)			mm			9.52/15.88	9.52/15.88
Drain Hose Diameter (I.D./O.D.)						13.8/15.8 to 16.7	13.8/15.8 to 16.7
Max. Pipe Length (Pre-Charge)			m			50(30)	50(30)
Max. Height Difference						30	30
Operating Range	Cooling	°CDB			-15to46	-15to46	
	Heating				-15to24	-15to24	
Refrigerant	Type (Global Warming Potential)			R32(675)	R32(675)		
	Charge	kg (CO2eq-T)			1.90(1.283)	1.90(1.283)	

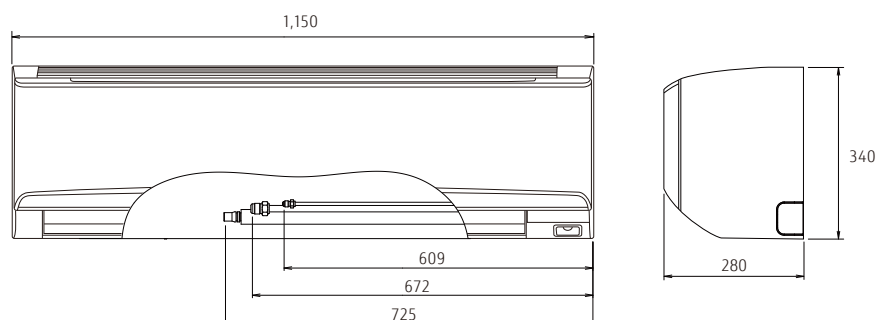
Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-048.

Compact wired remote controller:	UTY-RCRYZ1	External connect kit:	UTY-XWZXZ5	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired remote controller (touch panel):	UTY-RNRYZ5	External Input and Output PCB:	UTY-XCSXZ2	Network Converter for single split (AC power supply type):	UTY-VTGXV
Wired remote controller:	UTY-RLRY	WLAN adapter:	UTY-TFSXF2	Silver Ion Filter:	UTR-FA13-3
Simple remote controller (without operation mode):	UTY-RHRY		UTY-TFSXH3	External switch controller:	UTY-TERX
Simple remote controller:	UTY-RSRY		FG-AC-WIF1Z1	Communication kit:	UTY-TWRXZ2

Dimensions

(Unit: mm)



Wall-mounted type

ECO Series

Compact Size



Slim & stylish square design

The slim and stylish square design of this indoor unit is realized by using a high-density, multipath heat exchanger and a high-efficiency wind blower.



High energy saving

High-efficiency has been achieved by the lambda-shaped heat exchanger, large cross-flow fan, and the new refrigerant.



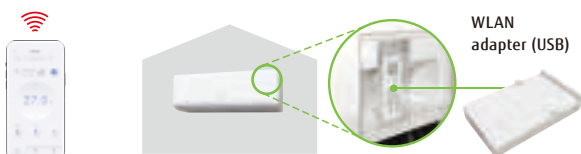
Comfortable airflow & Quiet operation

The large louver and the new air-blowing structure create a comfortable air flow that spreads all the way down to the user's feet with quiet operation.



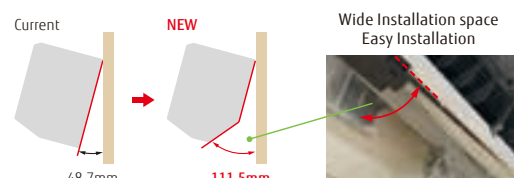
Smart device control (Option)

With the optional WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device. WLAN adapter can be installed easily without specialized installation work.



Easy access to the flare pipe connection

Installation when left outlet piping is easier by removable under cover of the indoor unit chassis. Installation when center outlet piping is easier by design change of wall hook bracket.



Model: ASYG07KPCE/ASYG09KPCE/ASYG12KPCE



Wireless RC



Specifications

Model name	Indoor unit		ASYG07KPCE	ASYG09KPCE	ASYG12KPCE
	Outdoor unit		AOYG07KPCA	AOYG09KPCA	AOYG12KPCA
Power Source			Single phase, ~230 V, 50 Hz		
Capacity	Cooling	kW	2.0 (0.9-2.8)	2.5 (0.9-3.0)	3.4 (0.9-3.7)
	Heating		2.5 (0.9-3.4)	2.8 (0.9-3.8)	3.8 (0.9-4.8)
Input Power	Cooling/Heating	kW	0.48/0.63	0.71/0.79	1.00/1.14
EER	Cooling	W/W	4.17	3.52	3.40
COP	Heating		3.97	3.54	3.33
Pdesign	Cooling/Heating (-10°C)	kW	2.0/2.2	2.5/2.4	3.4/2.5
SEER	Cooling	W/W	6.70	6.70	6.30
SCOP	Heating (Average)		4.00	4.00	4.10
Energy Efficiency Class	Cooling		A++	A++	A++
	Heating (Average)		A+	A+	A+
Max. Operating Current	Cooling/Heating	A	6.5/9.0	6.5/9.0	6.5/9.0
Annual Energy Consumption	Cooling	kWh/a	104	131	189
	Heating		769	840	853
Moisture Removal		l/h	1.0	1.3	1.8
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	45/38/31/22	46/40/33/22
	Indoor (Heating)	H/M/L/Q		45/40/36/26	46/40/35/27
	Outdoor (Cooling/Heating)	High		45/46	49/51
Sound Power Level	Indoor (Cooling/Heating)	High	57/58	58/58	59/59
	Outdoor (Cooling/Heating)	High	57/58	59/59	62/62
Airflow Rate	Indoor/Outdoor (Cooling)	High	m³/h	580/1,650	630/1,700
	Indoor/Outdoor (Heating)	High		580/1,450	630/1,470
Net Dimensions H x W x D	Indoor	mm	270 × 784 × 224	270 × 784 × 224	270 × 784 × 224
	Outdoor	mm	541 × 663 × 290	541 × 663 × 290	541 × 663 × 290
Weight	Indoor	kg (lbs)	8 (18)	8 (18)	8 (18)
	Outdoor	kg (lbs)	23 (51)	23 (51)	25 (55)
Connection Pipe Diameter (Liquid/Gas)		mm	6.35/9.52	6.35/9.52	6.35/9.52
Drain Hose Diameter (I.D./O.D.)			11.8/15.0 to 16.8	11.8/15.0 to 16.8	11.8/15.0 to 16.8
Max. Pipe Length (Pre-Charge)		m	20 (15)	20 (15)	20 (15)
Max. Height Difference			15	15	15
Operating Range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R32 (675)	R32 (675)	R32 (675)
	Charge	kg (CO2eq-T)	0.55 (0.371)	0.55 (0.371)	0.59 (0.398)

Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-048.

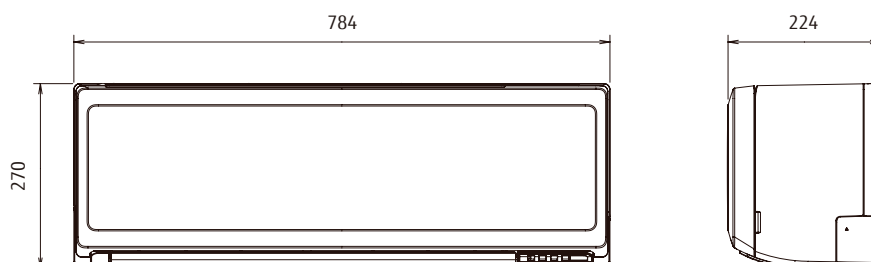
WLAN adapter: UTY-TFSXF2

UTY-TFSXH3

Silver Ion Filter: UTR-FA16-5

Dimensions

(Unit: mm)



Wall-mounted type

ECO Series

Comfort for Large Rooms



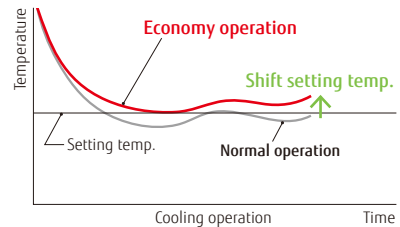
Narrow width & Compact design

Compact and versatile. Powerful airflow is realized despite the 790-mm width compact design for small spaces such as bedrooms or home offices.



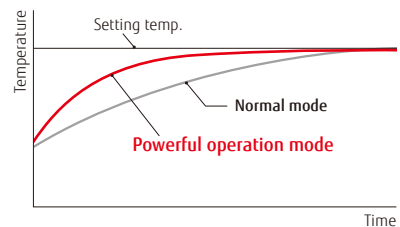
Economy operation

Set temperature automatically increases or decreases by 1°C. The thermostat setting is adjusted automatically according to the room temperature to avoid unnecessary cooling or heating.



Powerful operation

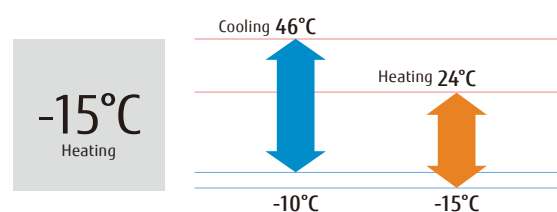
In powerful operation mode, the compressor operates at maximum speed for 20 minutes to provide a powerful airflow. Rapid cooling and heating makes the room comfortable quickly.



ON-OFF programmable timer

You can set ON/OFF or OFF/ON times depending on your lifestyle needs. (Setting time: 0.5, 1, 1.5, 2, 2.5, ----9.5, 10, 11, 12 hours)

Low ambient operation



Model: ASYG18KLCA/ASYG24KLCA



Wireless RC



For ASYG18KLCA



For ASYG24KLCA

Specifications

Model name	Indoor unit		Outdoor unit		ASYG18KLCA	ASYG24KLCA	
					AOYG18KLCA	AOYG24KLCA	
Power Source					Single phase, ~230 V, 50 Hz		
Capacity	Cooling	kW			5.2 (0.9-5.5)	7.1 (0.9-7.7)	
	Heating				6.3 (0.6-7.6)	8.0 (0.9-9.0)	
Input Power	Cooling/Heating	kW			1.685/1.80	2.42/2.225	
EER	Cooling	W/W			3.09	2.93	
COP	Heating				3.50	3.60	
Pdesign	Cooling/Heating (-10°C)	kW			5.20/4.80	7.10/7.10	
SEER	Cooling	W/W			7.20	7.10	
SCOP	Heating (Average)				4.30	4.00	
Energy Efficiency Class	Cooling			A++	A++		
	Heating (Average)			A+	A+		
Max. Operating Current	Cooling/Heating	A			9.5/13.5	13.5/17.5	
Annual Energy Consumption	Cooling	kWh/a			253	350	
	Heating				1563	2485	
Moisture Removal			l/h			1.9	3.1
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)			47/44/40/35	51/45/38/33
	Indoor (Heating)	H/M/L/Q				50/45/41/37	52/45/41/37
Sound Power Level	Outdoor (Cooling/Heating)	High			50/56	55/57	
	Indoor (Cooling/Heating)	High			60/65	64/65	
Airflow Rate	Outdoor (Cooling/Heating)	High			61/66	65/67	
	Indoor/Outdoor (Cooling)	High	m ³ /h			865/1,830	1,040/2,885
Net Dimensions H x W x D	Indoor/Outdoor (Heating)	High			995/2,265	1,040/3,030	
	Indoor	mm			293 × 790 × 249	293 × 790 × 249	
Weight	Outdoor	mm			542 × 799 × 290	632 × 799 × 290	
	Indoor	kg (lbs)			9.5 (21)	10.0 (22)	
Connection Pipe Diameter (Liquid/Gas)	Outdoor	kg (lbs)			33 (73)	38 (84)	
	Indoor	mm			6.35/9.52	6.35/12.70	
Drain Hose Diameter (I.D./O.D.)			mm			13.8/15.8 to 16.7	13.8/15.8 to 16.7
Max. Pipe Length (Pre-Charge)			m			25 (15)	30 (15)
Max. Height Difference			m			20	25
Operating Range	Cooling	°CDB			-10 to 46	-10 to 46	
	Heating				-15 to 24	-15 to 24	
Refrigerant	Type (Global Warming Potential)			R32 (675)	R32 (675)		
	Charge	kg (CO ₂ eq-T)			0.85 (0.574)	1.10 (0.743)	

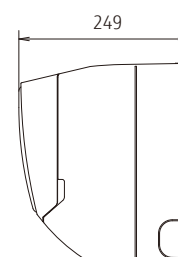
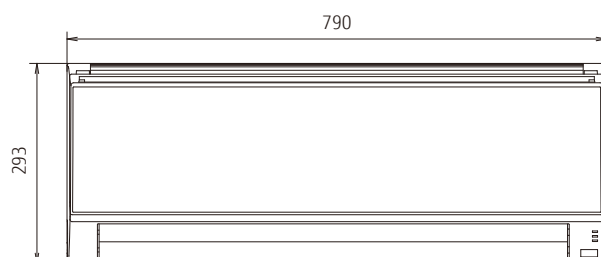
Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-048.

Silver Ion Filter: UTR-FA16-5

Dimensions

(Unit: mm)



Compact Cassette

Compact 4-way Flow Series

Compact Size



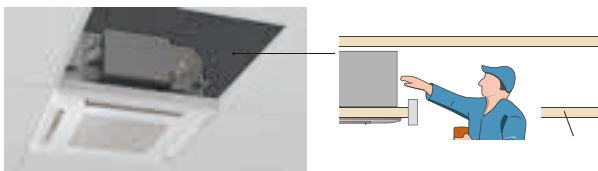
Compact and stylish panel design

The compact and stylish panel fits nicely into a grid-type ceiling. Its linear design is a perfect fit into a grid of 620 mm x 620 mm in the ceiling.

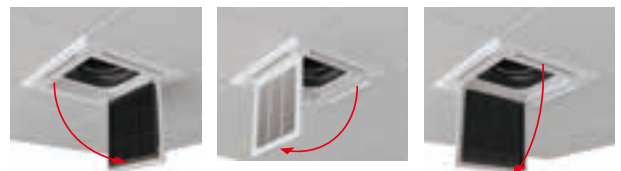


Easy maintenance

You can access the unit for maintenance simply by removing a ceiling panel next to the grille. As no inspection hole needs to be cut through the ceiling, no additional construction cost is incurred.



The air inlet grille can be installed to open in any direction for easy maintenance.



Flexible installation

The unit fits nicely into the decor of a grid-type ceiling and can be installed near the lighting or a ventilation opening.



Link up with a variety of central control system (Option)

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





Model: AUXG09KVLA /AUXG12KVLA/AUXG14KVLA/AUXG18KVLA/AUXG22KVLA/AUXG24KVLA



For AUXG9/12/14KVLA

For AUXG18/22KVLA

For AUXG24KVLA

Specifications

Model name	Indoor unit		AUXG09KVLA	AUXG12KVLA	AUXG14KVLA	AUXG18KVLA	AUXG22KVLA	AUXG24KVLA
	Outdoor unit		AOYG09KBTB	AOYG12KBTB	AOYG14KBTB	AOYG18KBTB	AOYG22KBTB	AOYG24KBTB
Power Source	Single phase, ~230 V, 50 Hz							
Capacity	Cooling	kW	2.5 (0.9-3.2)	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)	6.0 (0.9-6.7)	6.8 (0.9-8.0)
	Heating		3.2 (0.9-4.7)	4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)	7.0 (0.9-8.0)	7.5 (0.9-9.1)
Input Power	Cooling/Heating	kW	0.55/0.79	0.93/1.08	1.28/1.32	1.60/1.66	1.82/1.87	2.21/2.03
EER	Cooling	W/W	4.57	3.76	3.36	3.25	3.30	3.08
	Heating		4.05	3.80	3.79	3.61	3.74	3.69
Pdesign	Cooling/Heating (-10°C)	kW	2.5/2.6	3.5/3.4	4.3/3.8	5.2/4.4	6.0/4.8	6.8/6.0
SEER	Cooling	W/W	6.70	6.60	6.50	6.60	6.60	6.10
SCOP	Heating (Average)		4.40	4.30	4.40	4.20	4.30	4.00
Energy Efficiency Class	Cooling	A++						
	Heating (Average)	A+						
Max. Operating Current	Cooling/Heating	A	7.9/7.9	9.7/9.7	10.2/10.2	12.1/12.1	12.6/12.6	13.6/13.6
Annual Energy Consumption	Cooling	kWh/a	131	186	231	275	318	390
	Heating		826	1,106	1,208	1,466	1,562	2,097
Moisture Removal		l/h	0.6	1.2	1.5	2.2	2.6	2.7
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	33/31/29/27					
	Indoor (Heating)		34/32/29/27					
Sound Power Level	Outdoor (Cooling/Heating)	High	46/46					
	Indoor (Cooling/Heating)		46/47					
Airflow Rate	Indoor/Outdoor (Cooling)	High	540/1,480					
	Indoor/Outdoor (Heating)		540/1,410					
Net Dimensions H x W x D	Indoor	mm	245 x 570 x 570					
	Outdoor		542 x 799 x 290					
Weight	Indoor	kg (lbs)	15 (33)					
	Outdoor		32 (71)					
Connection Pipe Diameter (Liquid/Gas)		mm	6.35/9.52					
Drain Hose Diameter (I.D./O.D.)			25/32					
Max. Pipe Length (Pre-Charge)		m	20 (15)					
Max. Height Difference			15					
Operating Range	Cooling	°CDB	-15 to 46					
	Heating		-15 to 24					
Refrigerant	Type (Global Warming Potential)	kg (CO2eq-T)	R32 (675)					
	Charge		0.85 (0.574)					
Cassette Grille	Model name	UTG-UFYF-W						
	Dimensions (H x W x D)	49 x 620 x 620						
	Weight	2.3 (5)						

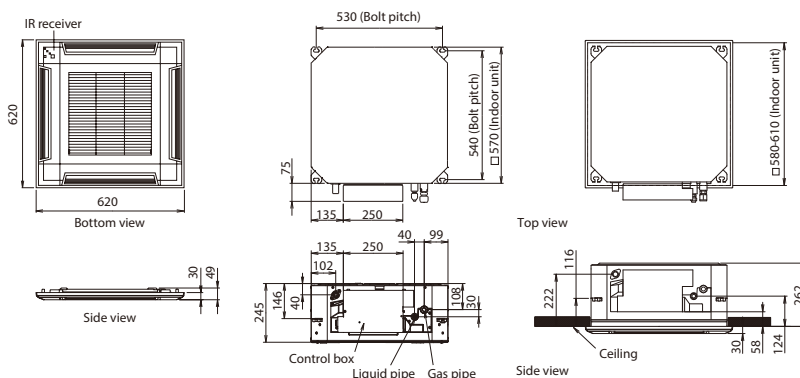
Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-048.

- | | | |
|---|--------------------------------------|---|
| Compact wired remote controller: UTY-RCRYZ1 | External switch controller: UTY-TERX | Network Converter for single split (DC power supply type): UTY-VTGX |
| Wired remote controller (touch panel): UTY-RNRYZ5 | WLAN adapter: UTY-TFSXZ1 | Network Converter for single split (AC power supply type): UTY-VTGV |
| Wired remote controller: UTY-RLRY | FG-RC-WIF1Z2 | Insulation kit for high humidity: UTY-KXGC |
| UTY-RNNYM | UTY-TFSXJ3 | External input and output PCB: UTY-XCSX |
| UTY-RVNYM | FG-AC-WIF1Z1 | External input and output PCB box: UTZ-GXRA |
| Simple remote controller (without operation mode): UTY-RHRY | Air Outlet Shutter Plate: UTR-YDZB | Silver Ion Filter: UTD-HFAA |
| Simple remote controller: UTY-RSRY | External connect kit: UTY-XWZXZG | |
| UTY-RSNYM | Cassette Grille: UTG-UFYF-W | |
| Wireless remote controller: UTY-LNTY | Fresh air intake kit: UTZ-VXAA | |

Dimensions

(Unit: mm)



Cassette

Circular Flow Series

Comfort for Large Rooms



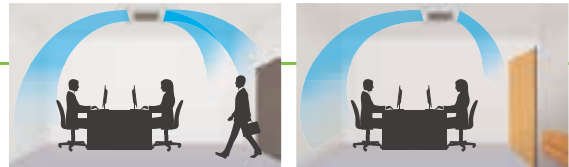
UTG-UKYA-B
Black Grille



(30/36/
45/54)

Unique circular flow design

The Cassette model realizes a Circular Flow to blow a large airflow in a 360° direction by using a high-performance DC fan motor, turbo fan, and a unique seamless airflow louver design.



Airflows avoid blowing cool air directly at the occupants in the room, providing more comfortable air conditioning.

Provides efficient air conditioning based on the room layout

Individual louver control

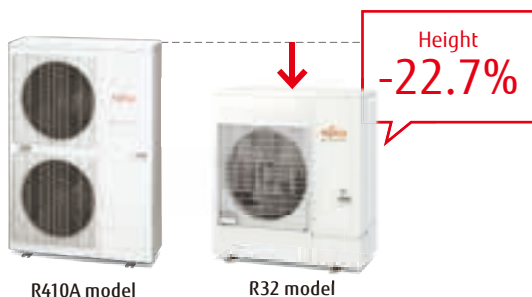
Each louver can be controlled individually with a wired remote controller equipped with a touch panel to provide different directional airflows according to the room layout.

*Wired remote controller (touch panel) (UTY-RNRYZ3) only

The Occupancy sensor yields more energy savings.
Energy saving operation starts automatically by detecting the motion of a person. Two modes of save operation mode and stop mode can be selected.

Compact and lightweight outdoor unit

The outdoor units for the 45,000 BTU and 54,000 BTU models have been completely redesigned. Easier installation is achieved for this compact and lightweight outdoor unit.



R410A model

R32 model

Link up with a variety of central control system (Option)

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



Central Control System

Various cassette grilles

Both black and white grilles are available. Three types of grilles are available: a white grille with a remote controller; a white grille without a remote controller; and a black grille without a remote controller. Select to match the atmosphere and/or usage of the room.



UTG-UKYA-W
White Grille
Wired remote controller
(touch panel)



UTG-UKYA-B
Black Grille



UTG-UKYC-W
White Grille



**Model: AUXG18KRLB/AUXG22KRLB/AUXG24KRLB/AUXG30KRLB/AUXG36KRLB/AUXG45KRLB/AUXG54KRLB
AUXG36KRLB [3-phase]/AUXG45KRLB [3-phase]/AUXG54KRLB [3-phase]**



Specifications

Model name	Indoor unit		AUXG18KRLB	AUXG22KRLB	AUXG24KRLB	AUXG30KRLB	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB
	Outdoor unit		AOYG18KRTB	AOYG22KRTB	AOYG24KRTB	AOYG30KRTB	AOYG36KRTB	AOYG45KRTB	AOYG54KRTB	AOYG36KRTA	AOYG45KRTA	AOYG54KRTA
Power Source			Single phase, ~230 V, 50 Hz						3-phase, ~400 V, 50 Hz			
Capacity	Cooling	kW	5.2 (0.9-5.9)	6.0 (0.9-6.7)	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.5 (2.8-11.2)	12.1 (4.0-14.0)	13.4 (4.5-14.5)	9.5 (2.8-11.2)	12.1 (4.0-14.0)	13.4 (4.5-14.5)
	Heating		6.0 (0.9-7.5)	7.0 (0.9-8.0)	7.5 (0.9-9.1)	10.0 (2.7-11.2)	10.8 (2.7-12.7)	13.5 (4.2-16.2)	15.5 (4.7-16.5)	10.8 (2.7-12.7)	13.5 (4.2-16.2)	15.5 (4.7-16.5)
Input Power	Cooling/Heating	kW	1.36/1.58	1.71/1.82	1.89/1.90	2.44/2.51	2.91/2.45	3.61/3.21	4.41/4.16	2.91/2.45	3.61/3.21	4.41/4.16
	EER		W/W	3.82	3.51	3.60	3.49	3.26	3.35	3.04	3.26	3.35
COP	Cooling	W/W		3.80	3.85	3.95	3.98	4.40	4.20	3.73	4.40	4.20
	Heating		4.30	4.40	4.20	4.30	4.30	-	-	4.30	-	-
Pdesign	Cooling/Heating (-10°C)	kW	5.2/4.4	6.0/4.8	6.8/6.0	8.5/8.0	9.5/8.7	-	-	9.5/8.7	-	-
SEER	Cooling	W/W	7.00	7.00	6.60	6.70	6.55	-	-	6.55	-	-
SCOP	Heating (Average)	W/W	4.30	4.40	4.20	4.30	4.30	-	-	4.30	-	-
	Energy Efficiency Class		Cooling	A++	A++	A++	A++	A++	-	-	A++	-
Max. Operating Current	Cooling/Heating	A	12.1/12.1	12.6/12.6	13.6/13.6	22.6/22.6	22.6/22.6	28.5/28.5	28.5/28.5	10.5/10.5	14.0/14.0	14.0/14.0
	Annual Energy Consumption		Cooling	260	300	360	444	507	-	-	507	-
Moisture Removal	Heating	kWh/a	1,431	1,527	1,999	2,601	2,828	-	-	2,828	-	-
	Moisture Removal		I/h	1.5	2.2	2.7	2.5	3.3	4.5	5.0	3.3	4.5
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	33/32/31/28	33/32/31/28	35/33/32/29	40/38/36/33	44/41/38/34	46/42/39/35	47/43/40/36	44/41/38/34	46/42/39/35	47/43/40/36
	Indoor (Heating)		H/M/L/Q	33/32/31/28	33/32/31/28	35/33/32/29	40/38/36/33	44/41/38/34	46/42/39/35	47/43/40/36	44/41/38/34	46/42/39/35
Sound Power Level	Outdoor (Cooling/Heating)	High	50/50	51/51	53/54	53/55	55/55	57/57	57/59	55/55	57/57	57/59
	Indoor (Cooling/Heating)		High	47/47	49/49	49/49	54/54	58/58	60/60	61/61	58/58	60/60
Airflow Rate	Indoor/Outdoor (Cooling)	High	1,050/2,160	1,050/2,240	1,150/2,700	1,600/3,750	1,870/3,750	2,000/4,450	2,100/4,450	1,870/3,750	2,000/4,450	2,100/4,450
	Indoor/Outdoor (Heating)		High	1,050/1,830	1,050/1,960	1,150/2,700	1,600/3,750	1,870/3,750	2,000/4,450	2,100/4,450	1,870/3,750	2,000/4,450
Net Dimensions H x W x D	Indoor	mm	246 × 840 × 840	246 × 840 × 840	246 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840
	Outdoor		mm	632 × 799 × 290	632 × 799 × 290	716 × 820 × 315	788 × 940 × 320	788 × 940 × 320	788 × 940 × 320	998 × 940 × 320	788 × 940 × 320	998 × 940 × 320
Weight	Indoor	kg (lbs)	23 (51)	23 (51)	24 (53)	26 (57)	29 (64)	29 (64)	29 (64)	29 (64)	29 (64)	29 (64)
	Outdoor		kg (lbs)	36 (79)	38 (84)	42 (93)	52 (115)	52 (115)	67 (148)	67 (148)	53 (117)	67 (148)
Connection Pipe Diameter (Liquid/Gas)			6.35/12.70	6.35/12.70	6.35/12.70	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain Hose Diameter (I.D./O.D.)			25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32
Max. Pipe Length (Pre-Charge)			30 (20)	30 (20)	30 (20)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)
Max. Height Difference			20	25	25	30	30	30	30	30	30	30
Operating Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge	kg (CO2eq-t)	1.02 (0.689)	1.25 (0.844)	1.25 (0.844)	1.90 (1.283)	1.90 (1.283)	2.70 (1.823)	2.70 (1.823)	1.90 (1.283)	2.70 (1.823)	2.70 (1.823)
Cassette Grille	Variation	UTG-UKYA-W: White wired remote controller (touch panel) UTG-UKYC-W: White/UTG-UKYA-B*1: Black						UTG-UKYA-W: White wired remote controller (touch panel) UTG-UKYC-W: White/UTG-UKYA-B*1: Black				
	Dimensions (H × W × D)	mm	53 × 950 × 950	53 × 950 × 950	53 × 950 × 950	53 × 950 × 950	53 × 950 × 950	53 × 950 × 950	53 × 950 × 950	53 × 950 × 950	53 × 950 × 950	53 × 950 × 950
Weight			6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)

*1: IR Receiver kit and Occupancy sensor kit cannot be connected.

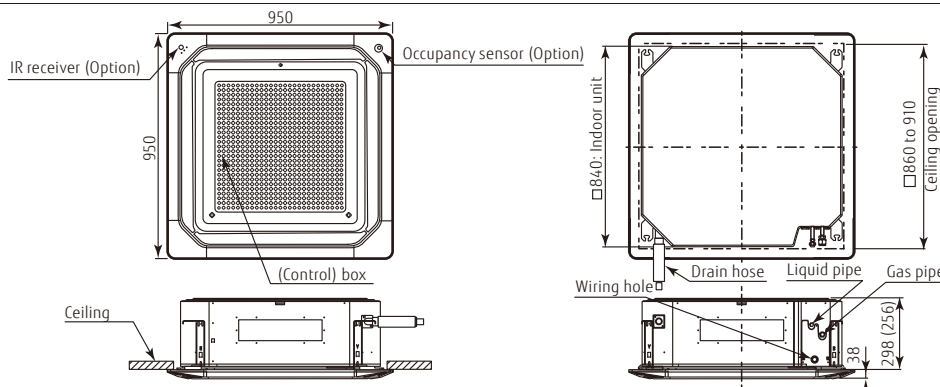
Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-048.

Compact wired remote controller:	UTY-RCRYZ1	WLAN adapter:	UTY-TFSXZ1	Cassette Grille:	UTG-UKYA-B
Wired remote controller (touch panel):	UTY-RNRYZ5		FG-RC-WIF1Z2		UTG-UKYA-W
Wired remote controller:	UTY-RLRY		UTY-TFSXJ3		UTG-UKYC-W
	UTY-RNNYM		FG-AC-WIF1Z1	Air Outlet Shutter Plate:	UTR-YDZK
	UTY-RVNYM	External input and output PCB:	UTY-XCSX	Network Converter for single split (DC power supply type):	UTY-VTGX
Simple remote controller (without operation mode):	UTY-RHRY	External input and output PCB box:	UTZ-GXRA	Network Converter for single split (AC power supply type):	UTY-VTGXV
Simple remote controller:	UTY-RSRY	Insulation kit for high humidity:	UTZ-KXRA	Silver Ion Filter:	UTD-HFRA
	UTY-RSNYM	Fresh air intake kit:	UTZ-VXRA		
Occupancy sensor kit:	UTY-SHZXC	Wide Panel:	UTG-AKXA-W	(Outdoor unit 30/36/45/54)	
External switch controller:	UTY-TERX	Panel Spacer:	UTG-BKXA-W	External connect kit:	UTY-XWZXZ3
IR receiver unit	UTY-LBTYC	External connect kit:	UTY-XWZXZG		

Dimensions

(Unit: mm)



(): AUXG18/22/24KRLB

Slim Duct

Slim Design



Slim design

The slim design fits nicely into narrow spaces under the ceiling. Drain hose as standard accessory



Compact and lightweight outdoor unit

The compact and lightweight outdoor unit offers greater flexibility in the choice of installation location. This makes it easier to use this outdoor unit.



Wide range of static pressures

The use of a DC fan motor makes it possible to adjust the static pressure between 0 and 90 Pa. The static pressure range can be changed by a remote controller.



Static pressure range
0 to 90 Pa

Auto louver grille kit (Option)

The optional clean-looking flat Auto louver blends into any interior and provides a comfortable airflow.



Link up with a variety of central control system (Option)

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





Model: ARXG09KLLAP/ARXG12KLLAP/ARXG14KLLAP/ARXG18KLLAP



ARXG09/12/14KLLAP



ARXG18KLLAP



For ARXG09/12/14KLLAP



For ARXG18KLLAP

Specifications

Model name	Indoor unit		ARXG09KLLAP	ARXG12KLLAP	ARXG14KLLAP	ARXG18KLLAP	
	Outdoor unit		AOYG09KBTB	AOYG12KBTB	AOYG14KBTB	AOYG18KBTB	
Power Source	Single phase, ~230 V, 50 Hz						
Capacity	Cooling	kW	2.5 (0.9-3.2)	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)	
	Heating		3.2 (0.9-4.7)	4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)	
Input Power	Cooling/Heating	kW	0.60/0.79	0.93/1.08	1.28/1.32	1.55/1.62	
EER	Cooling	W/W	4.17	3.76	3.36	3.35	
	Heating		4.05	3.80	3.79	3.70	
Pdesign	Cooling/Heating (-10°C)	kW	2.5/2.6	3.5/3.4	4.3/3.8	5.2/4.4	
SEER	Cooling	W/W	6.20	6.10	5.80	6.20	
SCOP	Heating		4.30	4.00	3.90	4.10	
Energy Efficiency Class	Cooling	A++		A+		A++	
	Heating	A+		A+		A+	
Max. Operating Current	Cooling/Heating	A	7.9/7.9	9.7/9.7	10.2/10.2	12.1/12.1	
Annual Energy Consumption	Cooling	kWh/a	141	201	259	293	
	Heating		845	1,189	1,362	1,501	
Moisture Removal		l/h	0.7	1.3	1.5	2.0	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	28/27/26/25	29/28/26/25	32/30/28/26	32/30/29/27
	Indoor (Heating)	H/M/L/Q		28/26/25/24	29/28/26/24	32/30/28/25	32/30/29/27
	Outdoor (Cooling/Heating)	High		46/46	47/47	49/49	50/50
Sound Power Level	Indoor (Cooling/Heating)	High	dB(A)	57/57	58/58	60/60	58/58
	Outdoor (Cooling/Heating)	High		59/59	61/61	62/62	62/62
	Indoor/Outdoor (Cooling)	High		600/1,480	650/1,580	800/1,670	940/2,160
Airflow Rate	Indoor/Outdoor (Heating)	High	m³/h	600/1,410	650/1,520	800/1,580	940/1,830
	Indoor/Outdoor (Cooling)	High		600/1,480	650/1,580	800/1,670	940/2,160
Static pressure range (Standard)		Pa	0 to 90 (25)	0 to 90 (25)	0 to 90 (25)	0 to 90 (25)	
Net Dimensions H x W x D	Indoor	mm	198 x 700 x 620	198 x 700 x 620	198 x 700 x 620	198 x 900 x 620	
	Outdoor	mm	542 x 799 x 290	542 x 799 x 290	542 x 799 x 290	632 x 799 x 290	
Weight	Indoor	kg (lbs)	17 (37)	17 (37)	17 (37)	20 (44)	
	Outdoor	kg (lbs)	32 (71)	33 (73)	33 (73)	36 (79)	
Connection Pipe Diameter (Liquid/Gas)		mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70	
Drain Hose Diameter (I.D./O.D.)		mm	25/32	25/32	25/32	25/32	
Max. Pipe Length (Pre-Charge)		m	20 (15)	25 (15)	25 (15)	30 (20)	
Max. Height Difference		m	15	20	20	20	
Operating Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	
Refrigerant	Type (Global Warming Potential)		R32 (675)	R32 (675)	R32 (675)	R32 (675)	
	Charge	kg (CO2eq-T)	0.85 (0.574)	0.85 (0.574)	0.85 (0.574)	1.02 (0.689)	

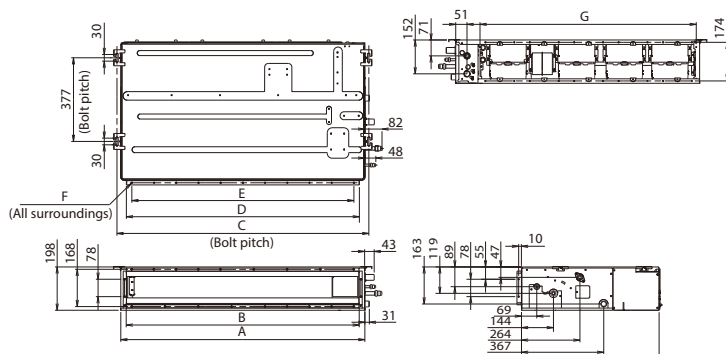
Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-048.

Compact wired remote controller:	UTY-RCRYZ1	WLAN adapter:	UTY-TFSXZ1	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired remote controller (touch panel):	UTY-RNRYZ5		FG-RC-WIF12Z	Network Converter for single split (AC power supply type):	UTY-VTGXV
Wired remote controller:	UTY-RLRY		UTY-TFSXJ3	External connect kit:	UTY-XWZXZG
	UTY-RNNYM		FG-AC-WIF1Z1	Remote sensor unit:	UTY-XSZXZ1
	UTY-RVNYM	Silver Ion Filter:	UTD-HFTA (09-14)	IR receiver unit:	UTY-LBTYM
Simple remote controller (without operation mode):	UTY-RHRY		UTD-HFTB (18)	External switch controller:	UTY-TERX
Simple remote controller:	UTY-RSRY	Auto Louver Grille Kit:	UTD-GXTA-W (09-14)		
	UTY-RSNYM		UTD-GXTB-W (18)		

Dimensions

(Unit: mm)



	ARXG09/12/14KLLAP	ARXG18KLLAP
A	700	900
B	650	850
C	734	934
D	650	850
E	P100 x 6 = 600	P100 x 8 = 800
F	18 x Ø5	22 x Ø5
G	574	774

Medium Static Pressure Duct

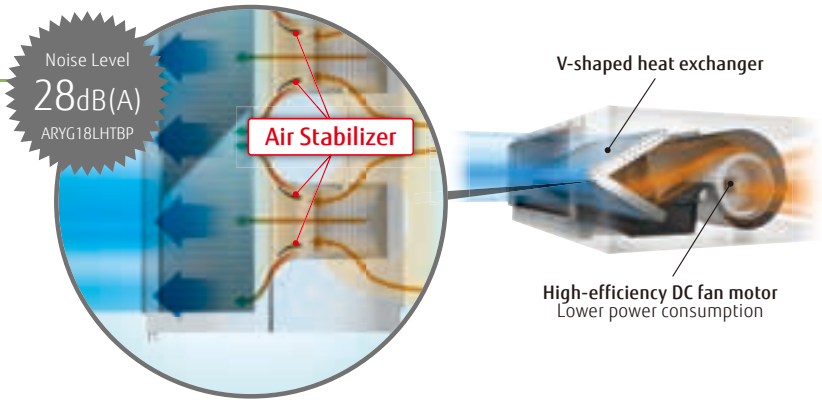
Compact Size



(30/36/45/54)

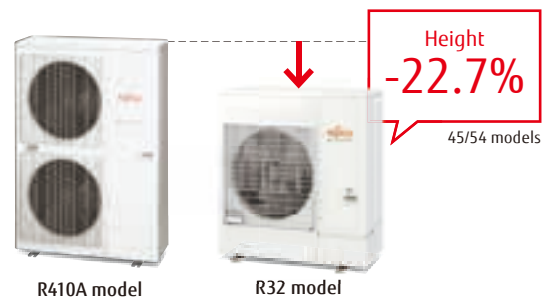
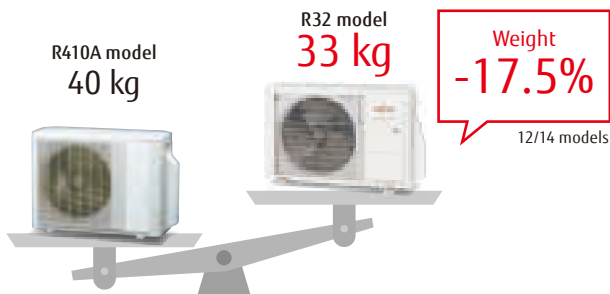
High-efficiency & Quiet operation

The combination of the V-shaped heat exchanger, air stabilizer, and the high-efficiency DC fan motor enable high-efficiency and quiet operation.



Small, lightweight outdoor unit

The outdoor unit in this series is smaller and lighter than previous-generation outdoor units. It can be installed in a narrow space.



Automatic airflow adjustment function

This unique and innovative function detects required air flow in each application case and automatically adjust the volume.



Link up with a variety of central control system (Option)

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



**Model: ARXG12KHTAP/ARXG14KHTAP/ARXG18KHTAP/ARXG22KHTAP/ARXG24KHTAP
ARXG30KHTAP/ARXG36KHTAP/ARXG45KHTAP/ARXG54KHTAP
ARXG36KHTAP [3-phase]/ARXG45KHTAP [3-phase]/ARXG54KHTAP [3-phase]**



Specifications

Model name	Indoor unit		ARXG12KHTAP	ARXG14KHTAP	ARXG18KHTAP	ARXG22KHTAP	ARXG24KHTAP	ARXG30KHTAP	ARXG36KHTAP	ARXG45KHTAP	ARXG54KHTAP	ARXG36KHTAP	ARXG45KHTAP	ARXG54KHTAP
	Outdoor unit		A0YG12KBTB	A0YG14KBTB	A0YG18KBTB	A0YG22KBTB	A0YG24KBTB	A0YG30KBTB	A0YG36KBTB	A0YG45KBTB	A0YG54KBTB	A0YG36KRTA	A0YG45KRTA	A0YG54KRTA
Power Source	Single phase, ~230 V, 50 Hz											3-phase, ~400 V, 50 Hz		
Capacity	Cooling	kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)	6.0 (0.9-6.7)	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.5 (2.8-11.2)	12.1 (4.0-14.0)	13.4 (4.5-14.5)	9.5 (2.8-11.2)	12.1 (4.0-14.0)	13.4 (4.5-14.5)
	Heating		4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)	7.0 (0.9-8.0)	7.5 (0.9-9.1)	10.0 (2.7-11.2)	10.8 (2.7-12.7)	13.5 (4.2-16.2)	15.5 (4.7-16.5)	10.8 (2.7-12.7)	13.5 (4.2-16.2)	15.5 (4.7-16.5)
Input Power	Cooling/Heating	kW	0.87/1.00	1.17/1.25	1.36/1.56	1.71/1.81	1.89/1.85	2.65/2.63	2.86/2.48	3.53/3.37	4.42/3.89	2.86/2.48	3.53/3.37	4.42/3.89
EER	Cooling		W/W	4.02	3.68	3.82	3.51	3.60	3.21	3.32	3.43	3.03	3.32	3.43
COP	Heating	W/W		4.10	4.00	3.85	3.87	4.06	3.80	4.35	4.01	3.98	4.35	4.01
Pdesign	Cooling/Heating (-10°C)		kW	3.5/3.4	4.3/3.8	5.2/4.4	6.0/4.8	6.8/6.0	8.5/8.0	9.5/8.7	-	-	9.5/8.7	-
SEER	Cooling	W/W		6.30	6.20	6.50	6.50	6.50	6.23	6.10	-	-	6.10	-
SCOP	Heating (Average)		W/W	4.10	4.00	4.10	4.20	4.10	4.00	4.20	-	-	4.20	-
Energy Efficiency Class	Cooling	Class		A++	A++	A++	A++	A++	A++	A++	-	-	A++	-
	Heating (Average)		A+	A+	A+	A+	A+	A+	A+	-	-	A+	-	-
Max. Operating Current	Cooling/Heating	A	9.7/9.7	10.2/10.2	12.1/12.1	12.6/12.6	13.6/13.6	22.6/22.6	22.6/22.6	28.5/28.5	28.5/28.5	10.5/10.5	14.0/14.0	14.0/14.0
Annual Energy Consumption	Cooling		kWh/a	194	243	280	323	366	477	544	-	-	544	-
	Heating	kWh/a		1,159	1,328	1,501	1,597	2,048	2,796	2,898	-	-	2,898	-
Moisture Removal			l/h	0.7	0.9	1.2	1.5	1.8	2.3	2.0	2.6	3.7	2.0	2.6
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q		32/27/26/24	33/28/27/25	28/25/22/20	28/25/22/20	32/28/24/21	36/33/30/29	36/31/28/26	39/35/31/29	39/35/31/29	36/31/28/26	39/35/31/29
	Indoor (Heating)	H/M/L/Q	32/27/26/24	33/28/27/25	28/25/22/20	28/25/22/20	32/28/24/21	36/33/30/29	33/31/28/26	39/35/31/29	39/35/31/29	33/31/28/26	39/35/31/29	39/35/31/29
Sound Power Level	Outdoor (Cooling/Heating)	High	47/47	49/49	50/50	51/51	53/54	53/55	55/55	57/57	57/59	55/55	57/57	57/59
	Indoor (Cooling/Heating)	High	57/58	59/60	54/54	57/57	57/57	63/65	64/63	67/69	67/69	64/63	67/69	67/69
Airflow Rate	Indoor (Cooling/Heating)	High	61/61	62/62	62/62	63/63	65/66	68/69	70/70	71/71	73/73	70/70	71/71	73/73
	Outdoor/Outdoor (Cooling)	High	850/1,580	950/1,670	1,050/2,160	1,050/2,240	1,360/2,700	1,700/3,750	2,050/3,750	2,550/4,450	2,550/4,450	1,850/3,750	2,550/4,450	2,550/4,450
Static pressure range (Standard)	Indoor	Pa	30 to 200 (35)	30 to 200 (35)	30 to 200 (35)	30 to 200 (35)	30 to 200 (35)	30 to 200 (47)	30 to 200 (47)	30 to 200 (60)	30 to 200 (60)	30 to 200 (47)	30 to 200 (60)	30 to 200 (60)
	Outdoor		300 × 700 × 700	300 × 700 × 700	300 × 1,000 × 700	300 × 1,000 × 700	300 × 1,000 × 700	300 × 1,000 × 700	300 × 1,400 × 700	300 × 1,400 × 700	300 × 1,400 × 700	300 × 1,400 × 700	300 × 1,400 × 700	300 × 1,400 × 700
Net Dimensions H × W × D	Indoor	mm	542 × 799 × 290	542 × 799 × 290	632 × 799 × 290	632 × 799 × 290	716 × 820 × 315	788 × 940 × 320	788 × 940 × 320	998 × 940 × 320	998 × 940 × 320	788 × 940 × 320	998 × 940 × 320	998 × 940 × 320
	Outdoor		mm	542 × 799 × 290	542 × 799 × 290	632 × 799 × 290	632 × 799 × 290	716 × 820 × 315	788 × 940 × 320	788 × 940 × 320	998 × 940 × 320	998 × 940 × 320	788 × 940 × 320	998 × 940 × 320
Weight	Indoor	kg (lbs)	27 (60)	27 (60)	35 (77)	35 (77)	36 (79)	36 (79)	46 (101)	46 (101)	46 (101)	46 (101)	46 (101)	46 (101)
	Outdoor		kg (lbs)	33 (73)	33 (73)	36 (79)	38 (84)	42 (93)	52 (115)	52 (115)	67 (148)	67 (148)	53 (117)	67 (148)
Connection Pipe Diameter (Liquid/Gas)			6.35/9.52	6.35/9.52	6.35/12.70	6.35/12.70	6.35/12.70	6.35/12.70	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain Hose Diameter (I.D./O.D.)			25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32
Max. Pipe Length (Pre-Charge)			25 (15)	25 (15)	30 (20)	30 (20)	30 (20)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)
Max. Height Difference			20	20	20	25	25	30	30	30	30	30	30	30
Operating Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)	Charge	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
			kg (CO ₂ eq-T)	0.85 (0.574)	0.85 (0.574)	1.02 (0.689)	1.25 (0.844)	1.25 (0.844)	1.90 (1.283)	1.90 (1.283)	2.70 (1.823)	2.70 (1.823)	1.90 (1.283)	2.70 (1.823)

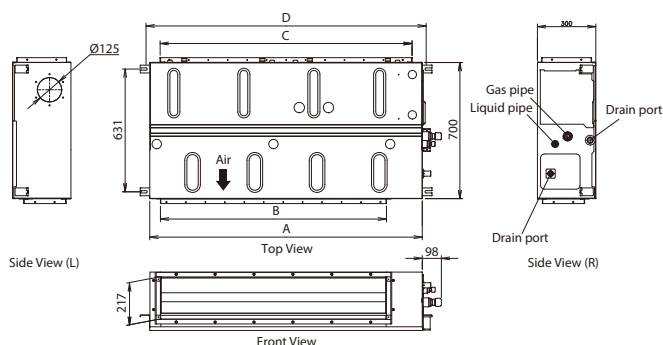
Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-048.

Compact wired remote controller:	UTY-RCRYZ1	External input and output PCB:	UTY-XCSX	WLAN adapter:	UTY-TFSXZ1
Wired remote controller (touch panel):	UTY-RNRYZ5	External connect kit:	UTY-XWZXZG		FG-RC-WIF1Z2
Wired remote controller:	UTY-RLRY	External input and output PCB:	UTZ-GXNA		UTY-TFSXJ3
	UTY-RNNYM	Long-life filter:	UTD-LFNA (36-54)		FG-AC-WIF1Z1
	UTY-RVNYM		UTD-LFNB (18-30)	Network Converter for single split (DC power supply type):	UTY-VTGX
Simple remote controller (without operation mode):	UTY-RHRY		UTD-LFNC (12-14)	Network Converter for single split (AC power supply type):	UTY-VTGVX
Simple remote controller:	UTY-RSRY	Silver Ion Filter:	UTD-HFNC (12/14)		
	UTY-RSNYM		UTD-HFNB (18-30)	(Outdoor unit 30/36/45/54)	
Remote sensor unit:	UTY-XSZXZ1		UTD-HFNA (36-54)	External connect kit:	UTY-XWZXZ3
External switch controller:	UTY-TERX	IR receiver unit:	UTY-LBTYM		

Dimensions

(Unit: mm)



	ARXG12/14KHTAP	ARXG18/22/24/30KHTAP	ARXG36/45/54KHTAP
A	700	1,000	1,400
B	462	762	1,162
C	650	895	1,295
D	740	1,040	1,440

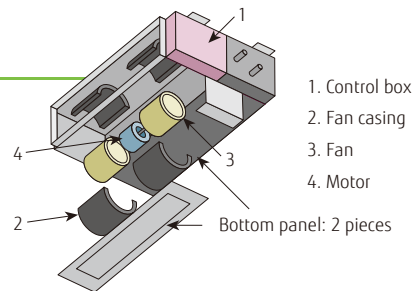
Medium Static Pressure Duct Standard



(30/36/45)

Easy maintenance

Structural improvement is attained by making the bottom panel in two pieces—front and rear. The internal fan casing is also manufactured in two pieces—upper and lower. As a result, the motor and fan can be easily accessed and maintained by removing the rear panel and the lower casing while leaving the main chassis in place.

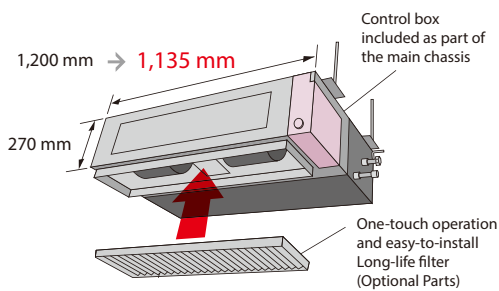


See below for case of rear-suction type

Slim & Compact design

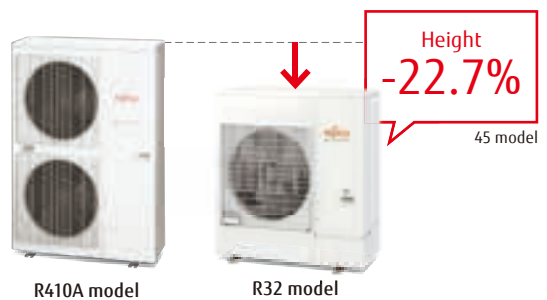
Indoor Unit

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

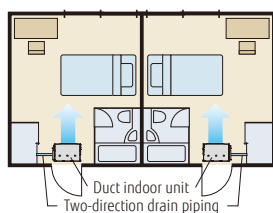


Outdoor Unit

The outdoor units for the 45,000 BTU and 54,000 BTU models have been completely redesigned. Easier installation is achieved for this compact and lightweight outdoor unit.



Two-direction drain piping



Link up with a variety of central control system (Option)

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



**Model: ARXG22KMLB/ARXG24KMLA/ARXG30KMLA/ARXG36KMLA/ARXG45KMLA
ARXG36KMLA [3-phase]/ARXG45KMLA [3-phase]**



For ARXG22KMLB For ARXG24KMLA For ARXG30/36KMLA For ARXG45KMLA

Specifications

Model name	Indoor unit		ARXG22KMLB	ARXG24KMLA	ARXG30KMLA	ARXG36KMLA	ARXG45KMLA	ARXG36KMLA	ARXG45KMLA	
	Outdoor unit		AOYG22KBTB	AOYG24KBTB	AOYG30KBTB	AOYG36KBTB	AOYG45KBTB	AOYG36KRTA	AOYG45KRTA	
Power Source	Single phase, ~230 V, 50 Hz						3-phase, ~400 V, 50 Hz			
Capacity	Cooling	kW	6.0 (0.9-6.7)	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.5 (2.8-11.2)	12.1 (4.0-13.0)	9.5 (2.8-11.2)	12.1 (4.0-13.0)	
	Heating		7.0 (0.9-8.0)	7.5 (0.9-9.1)	10.0 (2.7-11.2)	10.8 (2.7-12.7)	13.5 (4.2-15.2)	10.8 (2.7-12.7)	13.5 (4.2-15.2)	
Input Power	Cooling/Heating	kW	1.78/1.87	2.14/1.97	2.65/2.63	2.97/2.88	4.22/3.84	2.97/2.88	4.22/3.84	
EER	Cooling	W/W	3.37	3.18	3.21	3.20	2.87	3.20	2.87	
	Heating		3.74	3.80	3.80	3.75	3.52	3.75	3.52	
Pdesign	Cooling/Heating (-10°C)	kW	6.0/4.8	6.8/6.0	8.5/8.0	9.5/8.7	-	9.5/8.7	-	
SEER	Cooling	W/W	6.10	6.20	6.23	6.10	-	6.10	-	
	Heating		4.10	4.10	4.00	4.00	-	4.00	-	
Energy Efficiency Class	Cooling	A++		A++		A++		A++		
	Heating	A+		A+		A+		A+		
Max. Operating Current	Cooling/Heating	A	12.6/12.6	13.6/13.6	22.6/22.6	22.6/22.6	28.5/28.5	10.5/10.5	14.0/14.0	
Annual Energy Consumption	Cooling	kWh/a	344	384	477	545	-	545	-	
	Heating		1,637	2,045	2,797	3,044	-	3,044	-	
Moisture Removal		l/h	2.1	2.5	2.5	3.0	4.0	3.0	4.0	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	31/29/27/25		39/35/30/26		42/38/32/28		39/35/30/26	
	Indoor (Heating)	H/M/L/Q	31/29/27/25		42/35/30/26		42/38/32/28		42/35/30/26	
	Outdoor (Cooling/Heating)	High	51/51	53/54	53/55	55/55	57/57	55/55	57/57	
Sound Power Level	Indoor (Cooling/Heating)	High	60/62	60/62	65/69	65/70	68/70	65/70	68/70	
	Outdoor (Cooling/Heating)	High	63/63	65/66	68/69	70/70	71/71	70/70	71/71	
Airflow Rate	Indoor/Outdoor (Cooling)	High	1,100/2,240	1,100/2,700	1,900/3,750	1,900/3,750	2,100/4,450	1,900/3,750	2,100/4,450	
	Indoor/Outdoor (Heating)	High	1,100/1,960	1,100/2,700	2,100/3,750	2,100/3,750	2,100/4,450	2,100/3,750	2,100/4,450	
Static pressure range (Standard)		Pa	30 to 150 (35)	30 to 150 (35)	30 to 150 (47)	30 to 150 (47)	30 to 150 (60)	30-150 (47)	30-150 (60)	
Net Dimensions H x W x D	Indoor	mm	270 x 1,135 x 700	270 x 1,135 x 700	270 x 1,135 x 700	270 x 1,135 x 700	270 x 1,135 x 700	270 x 1,135 x 700	270 x 1,135 x 700	
	Outdoor	mm	632 x 799 x 290	716 x 820 x 315	788 x 940 x 320	788 x 940 x 320	998 x 940 x 320	788 x 940 x 320	998 x 940 x 320	
Weight	Indoor	kg (lbs)	35 (77)	35 (77)	38 (84)	38 (84)	39 (86)	38 (84)	39 (86)	
	Outdoor	kg (lbs)	38 (84)	42 (93)	52 (115)	52 (115)	67 (148)	53 (117)	67 (148)	
Connection Pipe Diameter (Liquid/Gas)		mm	6.35/12.70	6.35/12.70	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	
Drain Hose Diameter (I.D./O.D.)		mm	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1	
Max. Pipe Length (Pre-Charge)		m	30 (20)	30 (20)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)	
Max. Height Difference			25	25	30	30	30	30	30	
Operating Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	
Refrigerant	Type (Global Warming Potential)		R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	
	Charge	kg (CO2eq-T)	1.25 (0.844)	1.25 (0.844)	1.90 (1.283)	1.90 (1.283)	2.70 (1.823)	1.90 (1.283)	2.70 (1.823)	

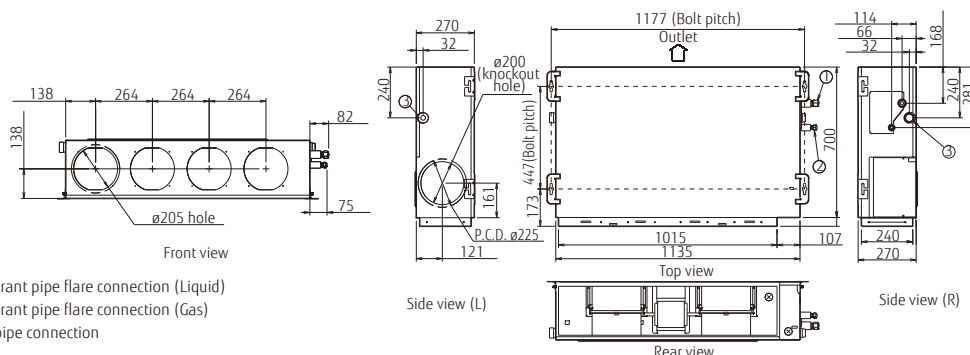
Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-048.

Compact wired remote controller:	UTY-RCRYZ1	WLAN adapter:	UTY-TFSXZ1	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired remote controller (touch panel):	UTY-RNRYZ5		FG-RC-WIF1Z2	Network Converter for single split (AC power supply type):	UTY-VTGVX
Wired remote controller:	UTY-RLRY		UTY-TFSXJ3	Drain pump unit:	UTZ-PX1NBA
	UTY-RNNYM	Flange (Round):	FG-AC-WIF1Z	Long-life filter:	UTD-LF25NA
	UTY-RVNYM	Flange (Square):	UTD-RF204	Silver Ion Filter:	UTD-HFND
Simple remote controller (without operation mode):	UTY-RHRY	IR receiver unit:	UTY-LBTY1	(Outdoor unit 30/36/45)	
Simple remote controller:	UTY-RSRY	Remote sensor unit:	UTY-XSZXZ1	External connect kit:	UTY-XWZXZ3
	UTY-RSNYM	External connect kit:	UTY-XWZXZG		
External switch controller:	UTY-TERX				

Dimensions

(Unit: mm)

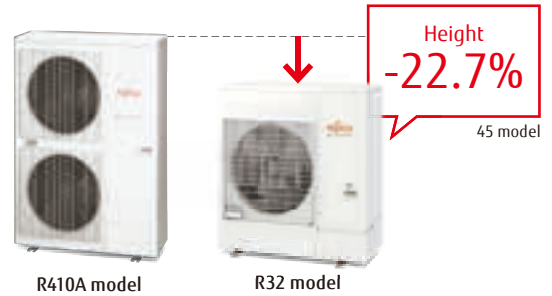
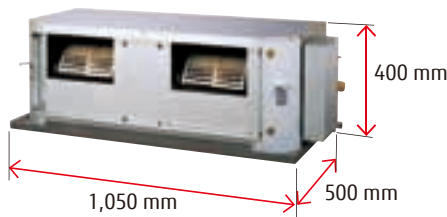


High Static Pressure Duct

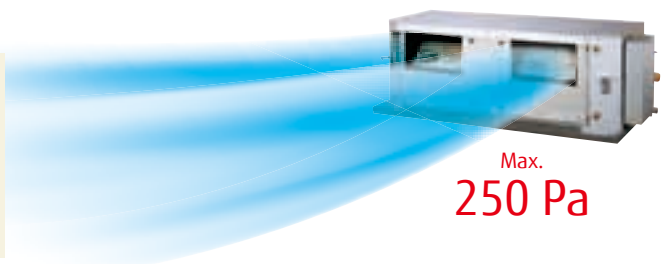
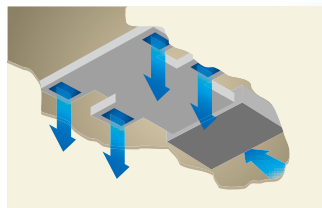


Easy installation (Compact & Lightweight)

The indoor and outdoor units are designed to be compact and light by reducing the basic chassis size and the overall material weight.

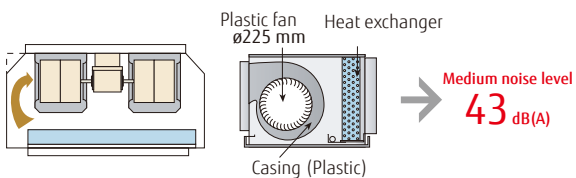


Design also suits high static pressure



Low noise

Slanted corners at the top help reduce turbulent airflow. Low noise is realized by adopting a plastic case and a plastic fan.



Link up with a variety of central control system (Option)

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



**Model: ARXG45KHTB/ARXG54KHTB
ARXG45KHTB [3-phase]/ARXG54KHTB [3-phase]**



Specifications

Model name	Indoor unit		ARXG45KHTB	ARXG54KHTB	ARXG45KHTB	ARXG54KHTB
	Outdoor unit		AOYG45KBTB	AOYG54KBTB	AOYG45KRTA	AOYG54KRTA
Power Source	Single phase, ~230 V, 50 Hz			3-phase, ~400 V, 50 Hz		
Capacity	Cooling	kW	12.1 (4.0-14.0)	13.4 (5.0-14.5)	12.1 (4.0-14.0)	13.4 (5.0-14.5)
	Heating		13.5 (5.0-16.2)	15.5 (5.5-18.0)	13.5 (5.0-16.2)	15.5 (5.5-18.0)
Input Power	Cooling/Heating		4.16/3.61	4.77/4.18	4.16/3.61	4.77/4.18
	Cooling	W/W	2.91	2.81	2.91	2.81
COP	Heating		3.74	3.71	3.74	3.71
Pdesign	Cooling/Heating (-10°C)		-	-	-	-
SEER	Cooling		-	-	-	-
SCOP	Heating		-	-	-	-
Energy Efficiency Class	Cooling		-	-	-	-
	Heating		-	-	-	-
Max. Operating Current	Cooling/Heating		28.5/28.5	28.5/28.5	14.0/14.0	14.0/14.0
Annual Energy Consumption	Cooling		-	-	-	-
	Heating		-	-	-	-
Moisture Removal			1.5	2.0	1.5	2.0
Sound Pressure Level	Indoor (Cooling)	H/M/L	47/43/40	47/43/40	47/43/40	47/43/40
	Indoor (Heating)	H/M/L	47/43/40	47/43/40	47/43/40	47/43/40
	Outdoor (Cooling/Heating)	High	57/57	57/59	57/57	57/59
Sound Power Level	Indoor (Cooling/Heating)	High	75/74	75/74	75/74	75/74
	Outdoor (Cooling/Heating)	High	71/71	73/73	71/71	73/73
Airflow Rate	Indoor/Outdoor (Cooling)	High	3,350/4,450	3,350/4,450	3,350/4,450	3,350/4,450
	Indoor/Outdoor (Heating)	High	3,350/4,450	3,350/4,450	3,350/4,450	3,350/4,450
Static pressure range (Standard)			100 to 250 (100)	100 to 250 (100)	100to250 (100)	100to250 (100)
Net Dimensions H x W x D	Indoor	mm	400 × 1,050 × 500	400 × 1,050 × 500	400 × 1,050 × 500	400 × 1,050 × 500
	Outdoor	mm	998 × 940 × 320	998 × 940 × 320	998 × 940 × 320	998 × 940 × 320
Weight	Indoor	kg (lbs)	46 (101)	46 (101)	46 (101)	46 (101)
	Outdoor	kg (lbs)	67 (148)	67 (148)	67 (148)	67 (148)
Connection Pipe Diameter (Liquid/Gas)			9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain port Diameter (I.D./O.D.)			23.4/25.4	23.4/25.4	23.4/25.4	23.4/25.4
Max. Pipe Length (Pre-Charge)			50 (30)	50 (30)	50 (30)	50 (30)
Max. Height Difference			30	30	30	30
Operating Range	Cooling		-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge		2.70 (1.823)	2.70 (1.823)	2.70 (1.823)	2.70 (1.823)

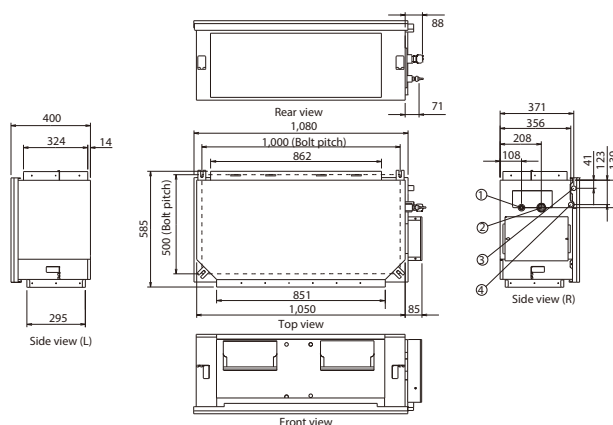
Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-048.

Compact wired remote controller:	UTY-RCRYZ1	Remote sensor unit:	UTY-XSZXZ1	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired remote controller (touch panel):	UTY-RNRYZ5	Long-life filter:	UTD-LF60KA	Network Converter for single split (AC power supply type):	UTY-VTGXV
Wired remote controller:	UTY-RLRY	External switch controller:	UTY-TERX	Silver Ion Filter:	UTD-HFKB
Simple remote controller:	UTY-RSRY	WLAN adapter:	UTY-TFSXZ1		
	UTY-RHRY		UTY-TFSXJ3	(Outdoor unit)	
IR Receiver unit:	UTY-LBTYM		FG-AC-WIF1Z1	External connect kit:	UTY-XWZXZ3
External connect kit:	UTY-XWZXZG	External input and output PCB:	UTY-XCSX+UTZ-GXEA		

Dimensions

(Unit: mm)



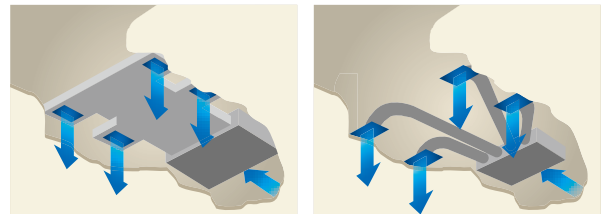
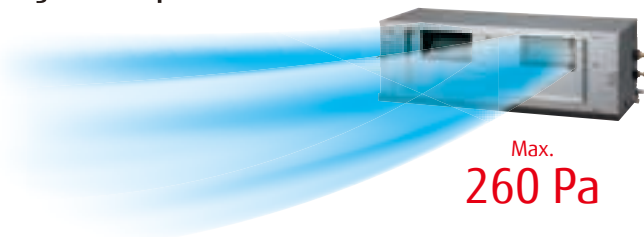
High Static Pressure Duct



High energy efficiency

Much greater efficiency is achieved by the use of all-DC inverter technology.

Design also corresponding to high static pressure



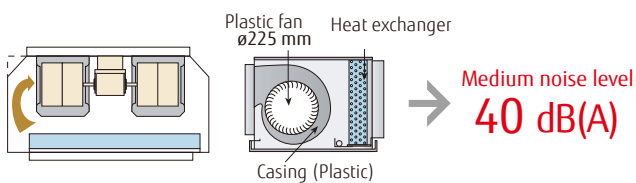
Easy installation (Compact & Lightweight)

The indoor unit is designed to be compact and light by reducing the basic chassis size and the overall material weight.



Low noise

Slanted corners at the top help reduce turbulent airflow. Low noise is realized by adopting a plastic case and a plastic fan.



Link up with a variety of central control system (Option)

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



Model: ARYG60LHTA [3-phase]



Wired RC



Specifications

Model name	Indoor unit		Outdoor unit		ARYG60LHTA
	AOYG60LATT				
Power Source					3-phase, ~400 V, 50 Hz
Capacity	Cooling		kW	15.0 (6.2-17.5)	
	Heating			18.0 (6.2-20.0)	
Input Power	Cooling/Heating		kW	4.70/5.15	
EER	Cooling			3.19	
COP	Heating		W/W	3.50	
Max. Operating Current	Cooling/Heating		A	12.5 /12.5	
Moisture Removal			l/h	2.0	
Sound Pressure	Indoor (Cooling)	H/M/L/Q	dB(A)	45/40/36/-	
	Indoor (Heating)	H/M/L/Q		45/40/36/-	
	Outdoor (Cooling/Heating)	High		56/58	
Airflow Rate	Indoor/Outdoor (Cooling)	High	m ³ /h	3,550/6,900	
	Indoor/Outdoor (Heating)	High		3,550/7,300	
Static pressure range (Standard)			Pa	60 to 260 (60)	
Net Dimensions H x W x D	Indoor		mm	425 x 1,250 x 490	
	Outdoor		mm	1,290 x 900 x 330	
Weight	Indoor		kg (lbs)	54 (119)	
	Outdoor		kg (lbs)	104 (229)	
Connection Pipe Diameter (Liquid/Gas)				9.52/15.88	
Drain Hose Diameter (I.D./O.D.)			mm	23.4/25.4	
Max. Pipe Length (Pre-Charge)			m	75 (30)	
Max. Height Difference				30	
Operating Range	Cooling		°CDB	-15 to 46	
	Heating			-15 to 24	
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	
	Charge		kg (CO2eq-T)	3.45 (7.204)	

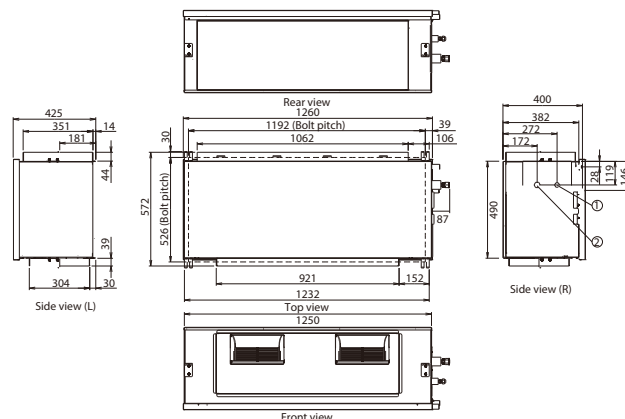
Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-048.

- | | |
|--------------------------------------|--|
| Wired remote controller: UTY-RNNYM | Network Converter for single split (DC power supply type): UTY-VTGX |
| Wired remote controller: UTY-RVNYM | Network Converter for single split (AC power supply type): UTY-VTGXV |
| Simple remote controller: UTY-RSNYM | External connect kit: UTD-ECSSA |
| External switch controller: UTY-TERX | IR receiver unit: UTY-LRHYM |
| WLAN adapter: UTY-TFNXZ1 | |
| FG-RC-WIF1Z2 | |
| Remote sensor unit: UTY-XSZXZ1 | (Outdoor unit) |
| | External connect kit: UTY-XWZXZ2 |

Dimensions

(Unit: mm)

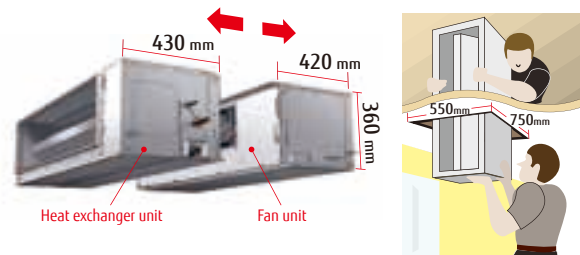


Big Duct



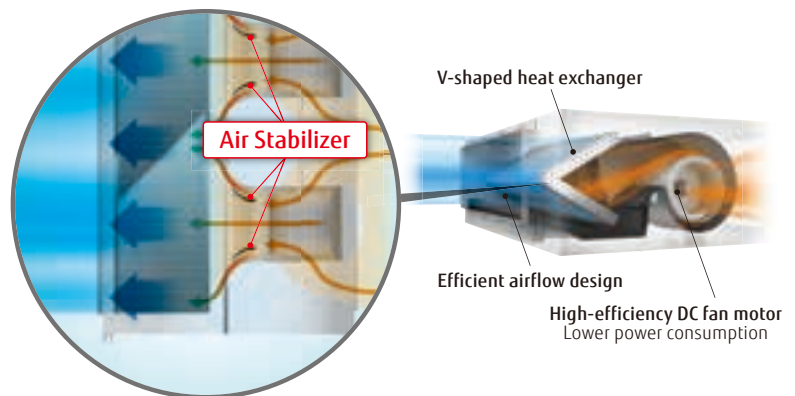
Splittable, lightweight, and compact design

The indoor unit can be split into a fan unit and a heat exchanger unit to make installation easier.



Quiet operation

The combination of a V-shaped heat exchanger, an air stabilizer, and a high-efficiency DC fan motor enables this compact unit to operate quietly.



Automatic airflow adjustment function

The optimum airflow can be set automatically to facilitate faster installation.

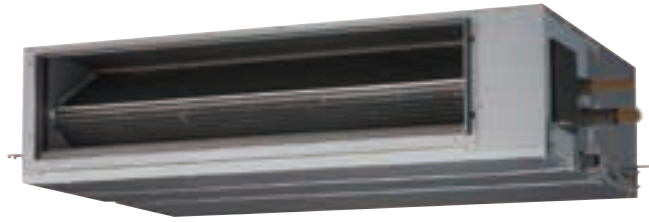


Link up with a variety of central control system (Option)

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



Model: ARYG72LHTA/ARYG90LHTA



Wired RC



Specifications

Model name	Indoor unit		ARYG72LHTA	ARYG90LHTA
	Outdoor unit		AOYG72LRLA	AOYG90LRLA
Power Source	Indoor		Single phase, ~230 V, 50 Hz	
	Outdoor		3-phase, ~400 V, 50 Hz	
Capacity	Cooling	kW	19.0 (8.4-20.9)	22.0 (10.3-24.2)
	Heating		22.4 (7.2-24.6)	27.0 (8.5-29.7)
Input Power	Cooling/Heating	kW	6.46/6.59	7.77/8.18
EER	Cooling	W/W	2.94	2.83
	Heating		3.40	3.30
COP	Cooling/Heating	A	-	-
	Cooling/Heating		-	-
Moisture Removal		l/h	4.5	6.0
Sound Pressure	Indoor (Cooling)	H/M/L/Q	46/43/41/39	47/44/42/40
	Indoor (Heating)	H/M/L/Q	46/43/41/39	47/44/42/40
	Outdoor (Cooling/Heating)	High	55/55	55/57
Airflow Rate	Indoor/Outdoor (Cooling)	High	4,300/8,400	4,300/8,400
	Indoor/Outdoor (Heating)	High	4,300/8,400	4,300/9,000
Static pressure range (Standard)		Pa	50 to 150 (72)	50 to 200 (72)
Net Dimensions H x W x D	Indoor	mm	360 x 1,400 x 850	360 x 1,400 x 850
	Outdoor	mm	1,428 x 1,080 x 480	1,428 x 1,080 x 480
Weight	Indoor	kg (lbs)	69 (152)	80 (176)
	Outdoor	kg (lbs)	165 (364)	174 (384)
Connection Pipe Diameter (Liquid/Gas)		mm	12.7/25.4	12.7/25.4
Drain Hose Diameter (I.D./O.D.)		mm	25/32	25/32
Max. Pipe Length (Pre-Charge)		m	100 (30)	100 (30)
Max. Height Difference			30	30
Operating Range	Cooling	°CDB	-15 to 46	-15 to 46
	Heating		-20 to 24	-20 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)
	Charge	kg (CO2eq-T)	5.6 (11.693)	7.1 (14.825)

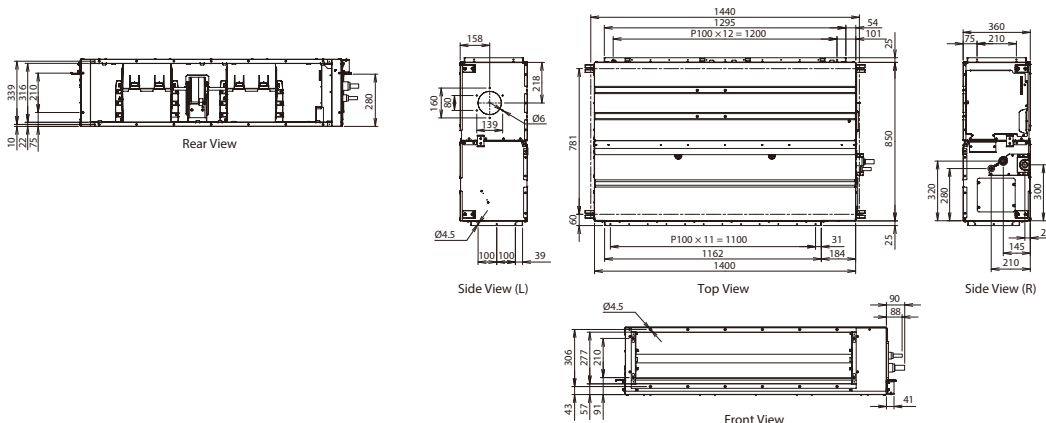
Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-048.

Compact wired remote controller:	UTY-RCRYZ1	WLAN adapter:	UTY-TFSXZ1	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired remote controller (touch panel):	UTY-RNRYZ5		FG-RC-WIF1Z2	Network Converter for single split (AC power supply type):	UTY-VTGXV
Wired remote controller:	UTY-RLRY		UTY-TFSXJ3	IR receiver unit:	UTY-LBTYM
	UTY-RNNYM		FG-AC-WIF1Z1		UTY-LRHYM
	UTY-RVNYM	External input and output PCB:	UTY-XCSX	Silver Ion Filter:	UTD-HFKA
Simple remote controller (without operation mode):	UTY-RHRY	Remote sensor unit:	UTY-XSZXZ1		
Simple remote controller:	UTY-RSRY	Long-life filter	UTD-LFKA	(Outdoor unit)	
	UTY-RSNYM	External connect kit:	UTY-XWZXZG	External connect kit:	UTY-XWZXZ3
External switch controller:	UTY-TERX	Drain pump unit:	UTZ-PX1NAB		

Dimensions

(Unit: mm)



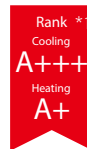
Floor

Compact Size



High energy saving

The Floor 09 class achieves a top-class SEER of 8.50 and an A+++ seasonal efficiency rank for cooling. The Floor 09 class achieves an improved SCOP of 4.30 and an A+ seasonal efficiency rank for heating.

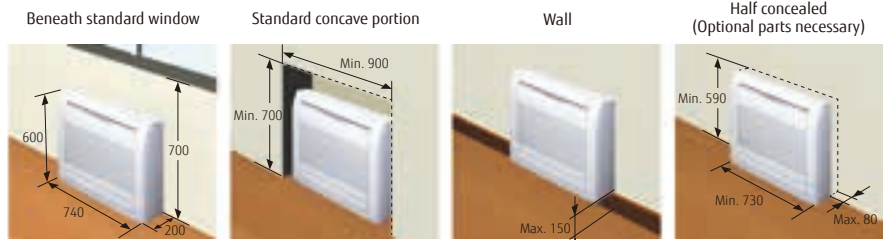


SEER 8.50^{*1} SCOP 4.30^{*1}

*1: 09 model

Flexible & easy installation

The compact and whole-surface suction design provides flexible installation options, including floor-standing, embedded, half concealed, and wall mount installation to match the room layout.

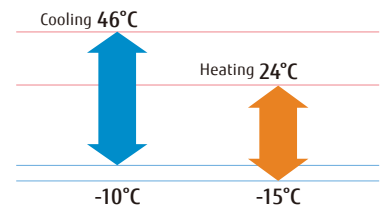


(Unit: mm)

* Concaved position installation with concealment is prohibited.

Low ambient operation

Factory-guaranteed cooling operation down to -10°C ambient temperature.



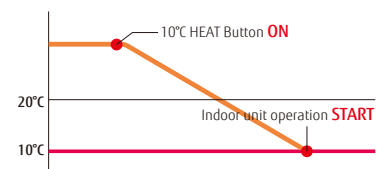
Smart device control (Option)

With the optional WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device. WLAN adapter can be installed easily without specialized installation work.



10°C heat

The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.





Model: AGYG09KVCA/AGYG12KVCA/AGYG14KVCA



Wireless RC



For AGYG09/12KVCA



For AGYG14KVCA

Specifications

Model name	Indoor unit		AGYG09KVCA	AGYG12KVCA	AGYG14KVCA
	Outdoor unit		A0YG09KVCA	A0YG12KVCA	A0YG14KVCA
Power Source			Single phase, ~230 V, 50 Hz		
Capacity	Cooling	kW	2.5 (0.9-3.5)	3.5 (0.9-4.0)	4.2 (0.9-5.2)
	Heating		3.5 (0.9-5.1)	4.5 (0.9-5.3)	5.2 (0.9-6.3)
Input Power	Cooling/Heating	kW	0.53/0.81	0.88/1.22	1.06/1.41
	Cooling		EER	4.70	4.00
COP	Heating	W/W	4.30	3.70	3.70
	Cooling/Heating (-10°C)		Pdesign	2.50/2.60	3.50/3.50
SEER	Cooling	W/W	8.50	8.20	8.10
	Heating (Average)		SCOP	4.30	4.10
Energy Efficiency Class	Cooling	A+++		A++	A++
	Heating (Average)	A+		A+	A+
Max. Operating Current	Cooling/Heating	A	7.0/8.5	7.0/8.5	11.0/12.0
	Cooling		kWh/a	103	149
Annual Energy Consumption	Heating (Average)	845		1,192	1,466
	Moisture Removal		l/h	1.3	1.8
Indoor (Cooling)		H/M/L/Q		40/35/29/22	40/35/29/22
Sound Pressure Level	Indoor (Heating)		dB(A)	41/35/29/22	41/35/29/22
	Outdoor (Cooling/Heating)	High		43/47	45/51
Sound Power Level	Indoor (Cooling/Heating)	High	53/54	53/54	57/56
	Outdoor (Cooling/Heating)		High	58/61	61/64
Airflow Rate	Indoor/Outdoor (Cooling)	High	570/1,530	570/1,530	650/2,210
	Indoor/Outdoor (Heating)		High	600/1,510	600/1,510
Net Dimensions H x W x D	Indoor	mm	600 x 740 x 200	600 x 740 x 200	600 x 740 x 200
	Outdoor		542 x 799 x 290	542 x 799 x 290	632 x 799 x 290
Weight	Indoor	kg (lbs)	14 (31)	14 (31)	14 (31)
	Outdoor		31 (68)	31 (68)	38 (83)
Connection Pipe Diameter (Liquid/Gas)			6.35/9.52	6.35/9.52	6.35/9.52
Drain Hose Diameter (I.D./O.D.)			13.8/15.8 to 16.7	13.8/15.8 to 16.7	13.8/15.8 to 16.7
Max. Pipe Length (Pre-Charge)			20 (15)	20 (15)	20 (15)
Max. Height Difference			15	15	15
Operating Range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)	R32 (675)		R32 (675)	R32 (675)
	Charge	kg (CO2eq-T)	0.85 (0.574)	0.85 (0.574)	0.94 (0.635)

Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-048.

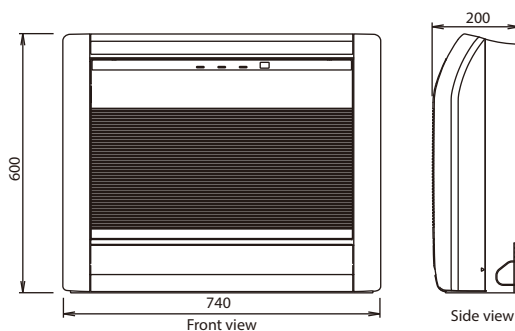
Compact wired remote controller: UTY-RCRYZ1
 Wired remote controller (touch panel): UTY-RNRYZ5
 Wired remote controller: UTY-RLRY
 Simple remote controller (without operation mode): UTY-RHRY
 Simple remote controller: UTY-RSRY

External switch controller: UTY-TERX
 WLAN adapter: UTY-TFSXZ1
 FG-AC-WIF1Z1
 UTY-TFSXJ3
 Half concealed kit: UTR-STA

Network Converter for single split (DC power supply type): UTY-VTGX
 Network Converter for single split (AC power supply type): UTY-VTGXV
 UTR-FA03-5
 Silver Ion Filter:
 External connect kit: UTY-XWZXZ5
 Communication kit: UTY-TWRXZ3

Dimensions

(Unit: mm)



Ceiling



reddot winner 2020



(30/36/45/54)

Light elegant design

The light-elegant, gently curved surface gives a sense of comfort and well-being.



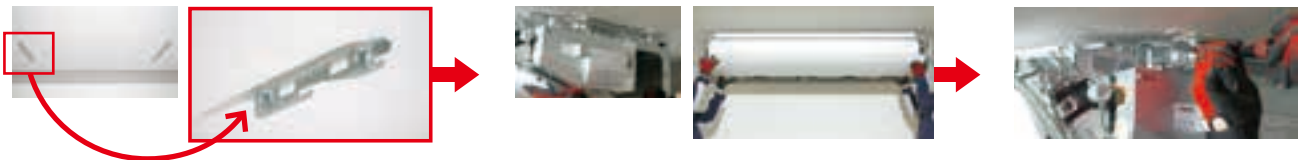
Easy installation

The indoor unit can be easily installed under the ceiling thanks to the uniquely designed mounting kit.

1. Set mounting brackets

2. Hold up the ceiling unit and fit to the mounting brackets

3. Attach with screws



Easy maintenance

The front panel can be opened without removing it for safe & speedy maintenance.



The drain pan can be removed for cleaning.



Components in the control box can be easily accessed from the wide side opening.



Flexible installation

The drain hose and pipe can be contained in the casing and connected in the right, left, angled, or downward direction.



Link up with a variety of central control system (Option)

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



Central Control System

**Model: ABYG18KRTA/ABYG22KRTA/ABYG24KRTA/ABYG30KRTA/ABYG36KRTA/ABYG45KRTA
ABYG36KRTA [3-phase] /ABYG45KRTA [3-phase] /ABYG54KRTA [3-phase]**



Specifications

Model name	Indoor unit		ABYG18KRTA	ABYG22KRTA	ABYG24KRTA	ABYG30KRTA	ABYG36KRTA	ABYG45KRTA	ABYG36KRTA	ABYG45KRTA	ABYG54KRTA
	Outdoor unit		AOYG18KBTB	AOYG22KBTB	AOYG24KBTB	AOYG30KBTB	AOYG36KBTB	AOYG45KBTB	AOYG36KRTA	AOYG45KRTA	AOYG54KRTA
Power Source			Single phase, ~230 V, 50 Hz						3-phase, ~400 V, 50 Hz		
Capacity	Cooling	kW	5.2 (0.9-5.9)	6.0 (0.9-6.7)	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.5 (2.8-11.2)	12.1 (4.0-13.5)	9.5 (2.8-11.2)	12.1 (4.0-13.5)	13.4 (4.5-14.5)
	Heating		6.0 (0.9-7.5)	7.0 (0.9-8.0)	7.5 (0.9-9.1)	10.0 (2.7-11.2)	10.8 (2.7-12.7)	13.5 (4.2-16.2)	10.8 (2.7-12.7)	13.5 (4.2-16.2)	15.5 (4.7-16.5)
Input Power	Cooling/Heating	kW	1.55/1.62	1.87/1.95	2.14/1.97	2.65/2.77	2.96/2.88	4.22/3.84	2.96/2.88	4.22/3.84	4.45/4.43
	EER		3.35	3.21	3.18	3.21	3.21	2.87	3.21	2.87	3.01
COP	Cooling	W/W	3.70	3.59	3.81	3.61	3.75	3.52	3.75	3.52	3.50
	Heating		5.2/4.4	6.0/4.8	6.8/6.0	8.5/8.0	9.5/8.7	-	9.5/8.7	-	-
Pdesign	Cooling/Heating (-10°C)	kW	6.2	6.1	6.2	6.1	6.37	-	6.37	-	-
	SEER		4.1	4.0	4.1	4.0	4.21	-	4.21	-	-
SCOP	Heating (Average)	W/W	A+	A+	A+	A+	A+	-	A+	-	-
	Class		A+	A+	A+	A+	A+	-	A+	-	-
Max. Operating Current	Cooling/Heating	A	12.1/12.1	12.6/12.6	13.6/13.6	22.6/22.6	22.6/22.6	28.5/28.5	10.5/10.5	14.0/14.0	14.0/14.0
	Annual Energy Consumption		kWh/a	293	344	384	486	524	-	524	-
Moisture Removal	Cooling	l/h	1,501	1,677	2,042	2,796	2,904	-	2,904	-	-
	Heating		2.0	2.5	2.2	3.0	2.6	4.5	2.6	4.5	5.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	38/36/33/31	42/37/34/31	41/36/32/29	45/40/35/32	44/40/37/32	45/41/39/34	44/40/37/32	45/41/39/34	48/44/41/38
	Indoor (Heating)		38/36/33/31	42/37/34/31	41/36/32/29	45/40/35/32	44/40/37/32	45/41/39/34	44/40/37/32	45/41/39/34	48/44/41/38
Sound Power Level	Outdoor (Cooling/Heating)	High	50/50	51/51	53/54	53/55	55/55	57/57	55/55	57/57	57/59
	Indoor (Cooling/Heating)		53/53	57/57	56/56	60/60	59/59	60/60	59/59	60/60	63/63
Airflow Rate	Indoor/Outdoor (Cooling)	High	62/62	63/63	65/66	68/69	70/70	71/71	70/70	71/71	73/73
	Indoor/Outdoor (Heating)		840/2,160	900/2,240	1,230/2,700	1,400/3,750	1,850/3,750	1,900/4,450	1,850/3,750	1,900/4,450	2,100/4,450
Net Dimensions H x W x D	Indoor	mm	840/1,830	900/1,960	1,230/2,700	1,400/3,750	1,800/3,750	1,850/4,450	1,800/3,750	1,850/4,450	2,100/4,450
	Outdoor		235 × 1,080 × 705	235 × 1,080 × 705	235 × 1,390 × 705	235 × 1,390 × 705	235 × 1,700 × 705	235 × 1,700 × 705	235 × 1,700 × 705	235 × 1,700 × 705	235 × 1,700 × 705
Weight	Indoor	kg (lbs)	632 × 799 × 290	632 × 799 × 290	716 × 820 × 315	788 × 940 × 320	788 × 940 × 320	998 × 940 × 320	788 × 940 × 320	998 × 940 × 320	998 × 940 × 320
	Outdoor		24 (53)	24 (53)	31 (68)	31 (68)	38 (84)	38 (84)	53 (117)	67 (148)	67 (148)
Connection Pipe Diameter (Liquid/Gas)	Indoor	mm	36 (79)	38 (84)	42 (93)	52 (115)	52 (115)	67 (148)	53 (117)	67 (148)	67 (148)
	Outdoor		6.35/12.7	6.35/12.7	6.35/12.7	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain Hose Diameter (I.D./O.D.)	Indoor	mm	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32
	Outdoor		30 (20)	30 (20)	30 (20)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)
Max. Pipe Length (Pre-Charge)	Indoor	m	20	25	25	30	30	30	30	30	30
	Outdoor		-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
Operating Range	Cooling	°CDB	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)	kg (CO2eq-T)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge		1.02 (0.689)	1.25 (0.844)	1.25 (0.844)	1.90 (1.283)	1.90 (1.283)	2.70 (1.823)	1.90 (1.283)	2.70 (1.823)	2.70 (1.823)

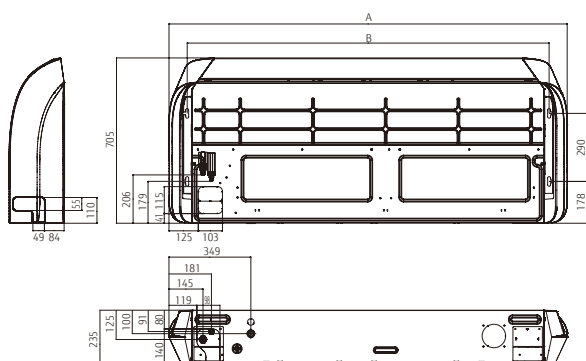
Optional parts

* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-048.

- Compact wired remote controller: UTY-RCRYZ1
- Wired remote controller (touch panel): UTY-RNRYZ5
- Wired remote controller: UTY-RLRY
- Simple remote controller (without operation mode): UTY-RHRY
- Simple remote controller: UTY-RSRY
- External input and output PCB: UTY-XCSX
- External input and output PCB box: UTZ-GXEA
- External connect kit: UTY-XWZXZG
- WLAN adapter: UTY-TFSXZ1
- UTY-TFSXJ3
- FG-AC-WIF1Z1
- Drain pump unit: UTR-DBP24T
- IR receiver unit: UTY-LBTYH
- L-type piping kit: UTP-FX24A (18/22/24)
- UTP-FX35A (30/36/45/54)
- Communication kit: UTY-TWRXZ3
- Network Converter for single split (DC power supply type): UTY-VTGX
- Network Converter for single split (AC power supply type): UTY-VTGVX
- External switch controller: UTY-TERX
- (Outdoor unit 30/36/45/54)
- External connect kit: UTY-XWZXZ3

Dimensions

(Unit: mm)



	ABYG18/22KRTA	ABYG24/30KRTA	ABYG36/45/54KRTA
A	1,080	1,390	1,700
B	923	1,233	1,543

ECO Series Lineup Specifications



Compact Cassette



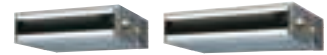
Model name	Indoor unit		AUXG09KVLA	AUXG12KVLA	AUXG14KVLA	AUXG18KVLA	AUXG22KVLA	AUXG24KVLA		
	Outdoor unit		AOYG09KATA	AOYG12KATA	AOYG14KATA	AOYG18KATA	AOYG22KATA	AOYG24KATA		
Power Source			Single phase, ~230 V, 50 Hz							
Capacity	Cooling	kW	2.5 (0.9-2.7)	3.5 (0.9-3.7)	4.3 (0.9-4.5)	5.2 (0.9-5.4)	6.0 (0.9-6.3)	6.8 (0.9-7.4)		
	Heating		3.2 (0.9-3.9)	4.1 (0.9-4.4)	5.0 (0.9-5.3)	6.0 (0.9-6.3)	7.0 (0.9-7.4)	7.5 (0.9-8.6)		
Input Power	Cooling/Heating		kW	0.68/0.88	1.09/1.17	1.37/1.42	1.69/1.72	1.95/2.00	2.26/2.08	
	EER	Cooling		W/W	3.68	3.21	3.14	3.08	3.08	3.01
Heating		3.64	3.50		3.52	3.49	3.50	3.61		
Pdesign	Cooling/Heating (-10°C)		kW	2.5/2.3	3.5/2.8	4.3/3.2	5.2/3.8	6.0/4.4	6.8/5.4	
	SEER	Cooling		W/W	6.2	6.1	6.1	6.1	6.1	5.9
Heating		4.0	4.0		4.0	3.9	3.9	3.8		
Energy Efficiency Class	Cooling		A++							
	Heating		A+							
Max. Operating Current	Cooling/Heating		A		6.9/6.9	7.7/7.7	9.2/9.2	10.1/10.1	11.6/11.6	12.6/12.6
Annual Energy Consumption	Cooling		kWh/a	141	201	247	298	344	403	
	Heating			804	979	1,120	1,362	1,578	1,988	
Moisture Removal			l/h		0.6	1.2	1.5	2.2	2.6	2.7
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	33/31/29/27							
	Indoor (Heating)	H/M/L/Q	34/32/29/27							
Sound Power Level	Outdoor (Cooling/Heating)	High	47/48							
	Indoor (Cooling/Heating)	High	46/47							
Airflow Rate	Outdoor (Cooling/Heating)	High	60/60							
	Indoor/Outdoor (Cooling)	High	54/01,610							
Net Dimensions H x W x D	Indoor		mm		245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570
	Outdoor		mm		541 × 663 × 290	541 × 663 × 290	542 × 799 × 290	542 × 799 × 290	632 × 799 × 290	632 × 799 × 290
Weight	Indoor		kg (lbs)		15 (33)	15 (33)	15 (33)	15 (33)	16 (35)	16 (35)
	Outdoor		kg (lbs)		23 (51)	25 (55)	32 (71)	33 (73)	36 (79)	38 (84)
Connection Pipe Diameter (Liquid/Gas)			mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70	6.35/12.70	6.35/12.70
Drain port Diameter (I.D./O.D.)			mm		25/32	25/32	25/32	25/32	25/32	25/32
Max. Pipe Length (Pre-Charge)			m		15 (15)	15 (15)	20 (15)	20 (15)	25 (15)	25 (20)
Max. Height Difference			°CDB		15	15	15	15	20	20
Operating Range	Cooling		-10 to 46							
	Heating		-15 to 24							
Refrigerant	Type (Global Warming Potential)		R32 (675)							
	Charge		kg (CO2eq-T)		0.6 (0.405)	0.7 (0.473)	0.85 (0.574)	0.9 (0.608)	1.1 (0.743)	1.25 (0.844)
Cassette Grille	Model name		mm		49 × 620 × 620	49 × 620 × 620	49 × 620 × 620	49 × 620 × 620	49 × 620 × 620	49 × 620 × 620
	Dimensions (H × W × D)		mm		49 × 620 × 620	49 × 620 × 620	49 × 620 × 620	49 × 620 × 620	49 × 620 × 620	49 × 620 × 620
	Weight		kg (lbs)		2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)

Circular Cassette



Model name	Indoor unit		AUXG18KRLB	AUXG22KRLB	AUXG24KRLB	AUXG30KRLB	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB		
	Outdoor unit		AOYG18KATA	AOYG22KATA	AOYG24KATA	AOYG30KATA	AOYG36KATA	AOYG45KATA	AOYG54KATA	AOYG36KATA	AOYG45KATA	AOYG54KATA		
Power Source			Single phase, ~230 V, 50 Hz						3-phase, ~400 V, 50 Hz					
Capacity	Cooling	kW	5.2 (0.9-5.4)	6.0 (0.9-6.3)	6.8 (0.9-7.4)	8.5 (2.8-9.6)	9.5 (2.8-10.6)	12.1 (4.0-12.6)	13.4 (4.5-13.8)	9.5 (2.8-10.6)	12.1 (4.0-12.6)	13.4 (4.5-13.8)		
	Heating		6.0 (0.9-6.3)	7.0 (0.9-7.4)	7.5 (0.9-8.6)	10.0 (2.7-10.8)	10.8 (2.7-12.5)	13.5 (4.2-15.0)	15.5 (4.7-16.0)	10.8 (2.7-12.5)	13.5 (4.2-15.0)	15.5 (4.7-16.0)		
Input Power	Cooling/Heating		kW	1.60/1.66	1.85/1.93	2.12/1.97	2.56/2.64	3.06/2.58	4.32/3.77	4.87/4.86	3.06/2.58	4.32/3.77	4.87/4.86	
	EER	Cooling		W/W	3.25	3.24	3.21	3.32	3.10	2.80	2.75	3.10	2.80	2.75
Heating		3.61	3.63		3.81	3.79	4.19	3.58	3.19	4.19	3.58	3.19		
Pdesign	Cooling/Heating (-10°C)		kW	5.2/3.8	6.0/4.4	6.8/5.4	8.5/8.0	9.5/8.7	-	-	9.5/8.7	-	-	
	SEER	Cooling		W/W	6.2	6.2	6.1	6.1	6.1	-	-	6.1	-	-
Heating		4.1	4.1		4.0	4.0	4.0	-	-	4.0	-	-		
Energy Efficiency Class	Cooling		A++											
	Heating		A+											
Max. Operating Current	Cooling/Heating		A		10.1/10.1	11.6/11.6	12.6/12.6	22.5/22.5	22.5/22.5	28.1/28.1	28.1/28.1	10.5/10.5	13.6/13.6	13.6/13.6
Annual Energy Consumption	Cooling		kWh/a	293	338	390	488	545	-	-	545	-	-	
	Heating			1,297	1,502	1,887	2,794	3,044	-	-	3,044	-	-	
Moisture Removal			l/h		1.5	2.2	2.7	2.5	3.3	4.5	5.0	3.3	4.5	5.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	33/32/31/28											
	Indoor (Heating)	H/M/L/Q	33/32/31/28											
Sound Power Level	Outdoor (Cooling/Heating)	High	51/52											
	Indoor (Cooling/Heating)	High	47/47											
Airflow Rate	Indoor/Outdoor (Cooling)	High	1,050/1,710											
	Indoor/Outdoor (Heating)	High	1,050/1,840											
Net Dimensions H x W x D	Indoor		mm		246 × 840 × 840	246 × 840 × 840	246 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840		
	Outdoor		mm		542 × 799 × 290	632 × 799 × 290	632 × 799 × 290	788 × 940 × 320	788 × 940 × 320	998 × 940 × 320	998 × 940 × 320	788 × 940 × 320	998 × 940 × 320	
Weight	Indoor		kg (lbs)		23 (51)	23 (51)	24 (53)	26 (57)	29 (64)	29 (64)	29 (64)	29 (64)		
	Outdoor		kg (lbs)		33 (73)	36 (79)	38 (84)	52 (115)	52 (115)	61 (134)	63 (139)	53 (117)		
Connection Pipe Diameter (Liquid/Gas)			mm		6.35/12.70	6.35/12.70	6.35/12.70	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88		
Drain port Diameter (I.D./O.D.)			mm		25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32		
Max. Pipe Length (Pre-Charge)			m		20 (15)	25 (15)	25 (20)	30 (30)	30 (30)	30 (30)	30 (30)	30 (30)		
Max. Height Difference			°CDB		15	20	20	30	30	30	30	30		
Operating Range	Cooling		-10 to 46											
	Heating		-15 to 24											
Refrigerant	Type (Global Warming Potential)		R32 (675)											
	Charge		kg (CO2eq-T)		0.9 (0.608)	1.1 (0.743)	1.25 (0.844)	1.90 (1.283)	1.90 (1.283)	2.4 (1.620)	2.4 (1.620)	1.90 (1.283)	2.4 (1.620)	2.4 (1.620)
Cassette Grille	Model name		UTG-UKYA-W: White wired remote controller (touch panel) UTG-UKY-W: White/UTG-UKYA-B*: Black											
	Dimensions (H × W × D)		mm		53 × 950 × 950	53 × 950 × 950	53 × 950 × 950	53 × 950 × 950	53 × 950 × 950	53 × 950 × 950	53 × 950 × 950	53 × 950 × 950		
	Weight		kg (lbs)		6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)		

Slim Duct



Model name	Indoor unit		ARXG09KLLAP	ARXG12KLLAP	ARXG14KLLAP	ARXG18KLLAP	
	Outdoor unit		AOYG09KATA	AOYG12KATA	AOYG14KATA	AOYG18KATA	
Power Source			Single phase, ~230 V, 50 Hz				
Capacity	Cooling	kW	2.5 (0.9-2.7)	3.5 (0.9-3.7)	4.3 (0.9-4.5)	5.2 (0.9-5.4)	
	Heating		3.2 (0.9-3.9)	4.1 (0.9-4.4)	5.0 (0.9-5.3)	6.0 (0.9-6.3)	
Input Power	Cooling/Heating	kW	0.69/0.88	1.09/1.17	1.37/1.42	1.66/1.71	
EER	Cooling	W/W	3.62	3.21	3.14	3.13	
COP	Heating		3.64	3.50	3.52	3.51	
Pdesign	Cooling/Heating (-10°C)	kW	2.5/2.3	3.5/2.8	4.3/3.2	5.2/3.8	
SEER	Cooling	W/W	5.9	5.8	5.6	5.8	
SCOP	Heating		3.8	3.8	3.8	3.8	
Energy Efficiency Class	Cooling	A+		A+	A+	A+	
	Heating	A		A	A	A	
Max. Operating Current	Cooling/Heating	A	6.9/6.9	7.7/7.7	9.2/9.2	10.1/10.1	
Annual Energy Consumption	Cooling	kWh/a	148	211	269	313	
	Heating		847	1,031	1,177	1,398	
Moisture Removal		l/h	0.7	1.3	1.5	2.0	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	28/27/26/25	29/28/26/25	32/30/28/26	32/30/29/27
	Indoor (Heating)	H/M/L/Q		28/26/25/24	29/28/26/24	32/30/28/25	32/30/29/27
Sound Power Level	Outdoor (Cooling/Heating)	High	47/48	49/50	50/51	51/52	
	Indoor (Cooling/Heating)	High	57/57	58/58	60/60	58/58	
Airflow Rate	Indoor/Outdoor (Cooling)	High	600/1,610	650/1,630	800/1,670	940/1,710	
	Indoor/Outdoor (Heating)	High	600/1,550	650/1,410	800/1,580	940/1,840	
Static pressure range (Standard)		Pa	0 to 90 (25)	0 to 90 (25)	0 to 90 (25)	0 to 90 (25)	
Net Dimensions H x W x D	Indoor	mm	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 900 × 620	
	Outdoor	mm	541 × 663 × 290	541 × 663 × 290	542 × 799 × 290	542 × 799 × 290	
Weight	Indoor	kg (lbs)	17 (37)	17 (37)	17 (37)	20 (44)	
	Outdoor	kg (lbs)	23 (51)	25 (55)	32 (71)	33 (73)	
Connection Pipe Diameter (Liquid/Gas)		mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70	
Drain port Diameter (I.D./O.D.)		mm	25/32	25/32	25/32	25/32	
Max. Pipe Length (Pre-Charge)		m	15 (15)	15 (15)	20 (15)	20 (15)	
Max. Height Difference			15	15	15	15	
Operating Range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	
Refrigerant	Type (Global Warming Potential)		R32 (675)	R32 (675)	R32 (675)	R32 (675)	
	Charge	kg (CO2eq-T)	0.6 (0.405)	0.7 (0.473)	0.85 (0.574)	0.9 (0.608)	

Medium Static Pressure Duct



Model name	Indoor unit		ARXG22KMLB	ARXG24KMLA	ARXG30KMLA	ARXG36KMLA	ARXG45KMLA	ARXG36KMLA	ARXG45KMLA	
	Outdoor unit		AOYG22KATA	AOYG24KATA	AOYG30KATA	AOYG36KATA	AOYG45KATA	AOYG36KQTA	AOYG45KQTA	
Power Source			Single phase, ~230 V, 50 Hz					3-phase, ~400 V, 50 Hz		
Capacity	Cooling	kW	6.0 (0.9-6.3)	6.8 (0.9-7.4)	8.5 (2.8-9.6)	9.5 (2.8-10.6)	12.1 (4.0-12.6)	9.5 (2.8-10.6)	12.1 (4.0-12.6)	
	Heating		7.0 (0.9-7.4)	7.5 (0.9-8.6)	10.0 (2.7-10.8)	10.8 (2.7-12.5)	13.5 (4.2-15.0)	10.8 (2.7-12.5)	13.5 (4.2-15.0)	
Input Power	Cooling/Heating	kW	1.92/2.00	2.19/2.00	2.78/2.77	3.13/3.03	4.84/4.18	3.13/3.03	4.84/4.18	
EER	Cooling	W/W	3.13	3.11	3.06	3.04	2.50	3.04	2.50	
COP	Heating		3.50	3.75	3.61	3.56	3.23	3.56	3.23	
Pdesign	Cooling/Heating (-10°C)	kW	6.0/4.4	6.8/5.4	8.5/8.0	9.5/8.7	-	9.5/8.7	-	
SEER	Cooling	W/W	5.8	5.9	5.8	5.6	-	5.6	-	
SCOP	Heating		3.8	3.9	3.9	3.9	-	3.9	-	
Energy Efficiency Class	Cooling	A+		A+	A+	A+	-	A+	-	
	Heating	A		A	A	A	-	A	-	
Max. Operating Current	Cooling/Heating	A	11.6/11.6	12.6/12.6	22.5/22.5	22.5/22.5	28.1/28.1	10.5/10.5	13.6/13.6	
Annual Energy Consumption	Cooling	kWh/a	362	403	513	594	-	594	-	
	Heating		1,620	1,935	2,871	3,122	-	3,122	-	
Moisture Removal		l/h	2.1	2.5	2.5	3.0	4.0	3.0	4.0	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	31/29/27/25	31/29/27/25	39/35/30/26	39/35/30/26	42/38/32/28	39/35/30/26	42/38/32/28
	Indoor (Heating)	H/M/L/Q		31/29/27/25	31/29/27/25	42/35/30/26	42/35/30/26	42/38/32/28	42/35/30/26	42/38/32/28
Sound Power Level	Outdoor (Cooling/Heating)	High	52/53	54/55	53/55	55/55	58/59	55/55	58/59	
	Indoor (Cooling/Heating)	High	60/62	60/62	65/69	65/70	68/70	65/70	68/70	
Airflow Rate	Outdoor (Cooling/Heating)	High	64/65	66/67	68/69	70/70	72/73	70/70	72/73	
	Indoor/Outdoor (Cooling)	High	1,100/2,240	1,100/2,885	1,900/3,750	1,900/3,750	2,100/4,450	1,900/3,750	2,100/4,450	
Static pressure range (Standard)	Indoor/Outdoor (Heating)	High	1,100/2,240	1,100/2,350	2,100/3,750	2,100/3,750	2,100/4,450	1,900/3,750	2,100/4,450	
		Pa	30 - 150 (35)	30 - 150 (35)	30 - 150 (47)	30 - 150 (47)	30 - 150 (60)	30 - 150 (47)	30 - 150 (60)	
Net Dimensions H x W x D	Indoor	mm	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	
	Outdoor	mm	632 × 799 × 290	632 × 799 × 290	788 × 940 × 320	788 × 940 × 320	998 × 940 × 320	788 × 940 × 320	998 × 940 × 320	
Weight	Indoor	kg (lbs)	35 (77)	35 (77)	38 (84)	38 (84)	39 (86)	38 (84)	39 (86)	
	Outdoor	kg (lbs)	36 (79)	38 (84)	52 (115)	52 (115)	61 (134)	53 (117)	62 (137)	
Connection Pipe Diameter (Liquid/Gas)		mm	6.35/12.70	6.35/12.70	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	
Drain port Diameter (I.D./O.D.)		mm	25/32	25/32	25/32	25/32	25/32	35.7/38.1	35.7/38.1	
Max. Pipe Length (Pre-Charge)		m	25 (15)	25 (20)	30 (30)	30 (30)	30 (30)	30 (30)	30 (30)	
Max. Height Difference			20	20	30	30	30	30	30	
Operating Range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	
Refrigerant	Type (Global Warming Potential)		R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	
	Charge	kg (CO2eq-T)	1.1 (0.743)	1.25 (0.844)	1.90 (1.283)	1.90 (1.283)	2.4 (1.620)	1.9 (1.283)	2.4 (1.620)	

Ceiling



Model name	Indoor unit		ABYG18KRTA	ABYG22KRTA	ABYG24KRTA	ABYG30KRTA	ABYG36KRTA	ABYG45KRTA	ABYG36KQTA	ABYG45KQTA
	Outdoor unit		AOYG18KATA	AOYG22KATA	AOYG24KATA	AOYG30KATA	AOYG36KATA	AOYG45KATA	AOYG36KQTA	AOYG45KQTA
Power Source			Single phase, ~230 V, 50 Hz						3-phase, ~400 V, 50 Hz	
Capacity	Cooling	kW	5.2 (0.9-5.4)	6.0 (0.9-6.3)	6.8 (0.9-7.4)	8.5 (2.8-9.6)	9.5 (2.8-10.6)	12.1 (4.0-12.6)	9.5 (2.8-10.6)	12.1 (4.0-12.6)
	Heating		6.0 (0.9-6.3)	7.0 (0.9-7.4)	7.5 (0.9-8.6)	10.0 (2.7-10.8)	10.8 (2.7-12.5)	13.5 (4.2-15.0)	10.8 (2.7-12.5)	13.5 (4.2-15.0)
Input Power	Cooling/Heating	kW	1.66/1.71	1.95/2.09	2.19/2.00	2.78/2.86	3.13/3.03	4.84/4.18	3.13/3.03	4.84/4.18
EER	Cooling	W/W	3.13	3.08	3.11	3.06	3.04	2.50	3.04	2.50
COP	Heating		3.51	3.35	3.75	3.5	3.56	3.23	3.56	3.23
Pdesign	Cooling/Heating (-10°C)	kW	5.2/3.8	6.0/4.4	6.8/5.4	8.5/8.0	9.5/8.7	-	9.5/8.7	-
SEER	Cooling	W/W	5.8	5.6	6.0	5.8	5.6	-	5.6	-
SCOP	Heating		3.8	3.8	3.9	3.9	3.9	-	3.9	-
Energy Efficiency Class	Cooling		A+	A+	A+	A+	A+	-	A+	-
	Heating		A	A	A	A	A	-	A	-
Max. Operating Current	Cooling/Heating	A	10.1/10.1	11.6/11.6	12.6/12.6	22.5/22.5	22.5/22.5	28.1/28.1	10.5/10.5	13.6/13.6
Annual Energy Consumption	Cooling	kWh/a	538	375	679	512	594	-	594	-
	Heating		1,398	1,618	1,935	2,871	3,117	-	3,117	-
Moisture Removal		l/h	2.0	2.5	2.2	3.0	2.6	4.5	2.6	4.5
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	38/36/33/31	42/37/34/31	41/36/32/29	45/40/35/32	44/40/37/32	45/41/39/34	44/40/37/32	45/41/39/34
	Indoor (Heating)	H/M/L/Q	38/36/33/31	42/37/34/31	41/36/32/29	45/40/35/32	44/40/37/32	45/41/39/34	44/40/37/32	45/41/39/34
Sound Power Level	Outdoor (Cooling/Heating)	High	51/52	52/53	54/55	53/55	55/55	58/59	55/55	58/59
	Indoor (Cooling/Heating)	High	53/53	57/57	56/56	60/60	59/59	60/60	59/59	60/60
	Outdoor (Cooling/Heating)	High	63/64	64/65	66/67	68/69	70/70	72/73	70/70	72/73
Airflow Rate	Indoor/Outdoor (Cooling)	High	840/1,710	900/2,240	1,230/2,885	1,400/3,750	1,850/3,750	1,900/4,450	1,850/3,750	1,900/4,450
	Indoor/Outdoor (Heating)	High	840/1,840	900/2,240	1,230/2,350	1,400/3,750	1,800/3,750	1,850/4,450	1,800/3,750	1,850/4,450
Net Dimensions H x W x D	Indoor	mm	235 × 1,080 × 705	235 × 1,080 × 705	235 × 1,390 × 705	235 × 1,390 × 705	235 × 1,700 × 705	235 × 1,700 × 705	235 × 1,700 × 705	235 × 1,700 × 705
	Outdoor	mm	542 × 799 × 290	632 × 799 × 290	632 × 799 × 290	788 × 940 × 320	788 × 940 × 320	988 × 940 × 320	788 × 940 × 320	988 × 940 × 320
Weight	Indoor	kg (lbs)	24 (53)	24 (53)	31 (68)	31 (68)	38 (84)	38 (84)	38 (84)	38 (84)
	Outdoor	kg (lbs)	33 (73)	36 (79)	38 (84)	52 (115)	52 (115)	61 (134)	53 (117)	62 (137)
Connection Pipe Diameter (Liquid/Gas)		mm	6.35/12.7	6.35/12.7	6.35/12.7	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain port Diameter (I.D./O.D.)		mm	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32
Max. Pipe Length (Pre-Charge)		m	20 (15)	25 (15)	25 (20)	30 (30)	30 (30)	30 (30)	30 (30)	30 (30)
Max. Height Difference		m	15	20	20	30	30	30	30	30
Operating Range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge	kg (CO2eq-T)	0.9 (0.608)	1.1 (0.743)	1.25 (0.844)	1.90 (1.283)	1.90 (1.283)	2.40 (1.620)	1.90 (1.283)	2.40 (1.620)

SPLIT
























































































Feature Summary

Type		Wall-mounted type		
Series		Designer Series		Standard Series
Model name		ASYG07/09/12/14KGTf	ASYG07/09/12/14KETf, ASYG07/09/12/14KETf-B	ASYG07/09/12/14KMCF
Energy-saving Features	Save Occupancy sensor	<input checked="" type="checkbox"/>		
	Occupancy sensor control			
	Economy operation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Setting temperature range limitation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Set temperature auto return	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Features for Comfort	Power diffuser			
	Powerful operation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	10°C Heat	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Outdoor unit low noise operation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Auto changeover	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	UP/DOWN swing louver	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Double swing automatic			
	Automatic fan speed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Auto restart	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Connectable fresh air duct			
	Fresh air intake			
	Connectable distributing duct			
	Individual airflow direction control			
	Convenience Features	Auto-off timer	<input type="checkbox"/>	<input type="checkbox"/>
Sleep timer		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Program timer		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Weekly timer		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Weekly & Temperature setback timer		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Filter sign		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
External error output		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
External ON/OFF input		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wireless LAN control		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Multi system control				
Clean Features	Special cooling			
	Ion deodorization filter	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Apple-catechin filter	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Long-life filter			
	Washable panel	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Installation/Support	Silver Ion Filter	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Automatic airflow adjustment			
	Drain pump as standard			
	Blue fin			
	Refrigerant cycle monitor			

*1 For details of Multi System Control function, refer to G-011.

*2 Wired remote controller (UTY-RNRYZ5) is required to use Special Cooling function.

Wall-mounted type

Standard Series		ECO Series	
			
ASYG18/24KMTE	ASYH30/36KMTB	ASYG07/09/12KPCE	ASYG18/24KLCA
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			
			











































































































































○: Optional function

Feature Summary

Type	Cassette		Duct	
Series	Compact 4-way Flow Series	Circular Flow Series	Slim (With drain pump)	Medium Static Pressure (Compact & Comfort)
Model name	AUXG 09/12/14/18/22/24 KVLA	AUXG 18/22/24/30/36/45/54 KRLB	ARXG09/12/14/18KLLAP	ARXG 12/14/18/22/24/30/36/45/54 KHTAP
Energy-saving Features	Save Occupancy sensor			
	Occupancy sensor control		<input type="radio"/>	
	Economy operation	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Setting temperature range limitation	<input type="radio"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Set temperature auto return	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Features for Comfort	Power diffuser			
	Powerful operation			
	10°C Heat	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
	Outdoor unit low noise operation		<input type="radio"/> (45/54)	<input type="radio"/> (45/54)
	Auto changeover	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	UP/DOWN swing louver	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="radio"/>
	Double swing automatic			
	Automatic fan speed	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Auto restart	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Connectable fresh air duct		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Fresh air intake	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Connectable distributing duct		<input checked="" type="checkbox"/>	
	Individual airflow direction control		<input checked="" type="checkbox"/>	
Convenience Features	Auto-off timer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Sleep timer	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
	Program timer	<input checked="" type="checkbox"/>	<input type="radio"/>	<input type="radio"/>
	Weekly timer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Weekly & Temperature setback timer	<input type="radio"/>		
	Filter sign	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	External error output		<input type="radio"/>	<input type="radio"/>
	External ON/OFF input	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Wireless LAN control	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Multi system control			
Clean Features	Special cooling			
	Ion deodorization filter			
	Apple-catechin filter			
	Long-life filter			<input type="radio"/>
	Washable panel			
Installation/Support	Silver Ion Filter	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
	Automatic airflow adjustment			<input checked="" type="checkbox"/>
	Drain pump as standard	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Blue fin		<input checked="" type="checkbox"/> (30/36/45/54)	<input checked="" type="checkbox"/> (30/36/45/54)
	Refrigerant cycle monitor			

*1 For details of Multi System Control function, refer to C-011.

*2 Wired remote controller (UTY-RNRYZ5) is required to use Special Cooling function.

Medium Static Pressure (Standard)	Duct			Floor	Ceiling
	High Static Pressure		Big		
					
ARXG22KMLB ARXG24/30/36/45KMLA	ARXG45/54KHTB	ARYG60LHTA	ARYG72/90LHTA	AGYG09/12/14KVCA	ABYG 18/22/24/30/36/45/54 KRTA
					
					
					
					
					
					
 (45) (36/MLA)					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
					
 (30/36/45)					 (30/36/45/54)

○: Optional function



Light Commercial & Residential MULTI-SPLIT

- M-002 Multi-split Overview
- M-004 Multi-split Outdoor Units Lineup
- M-006 2-unit to 5-unit Multi-split Connectable Indoor Units
- M-007 6-unit Multi-split Connectable Indoor Units
- M-008 Simultaneous Multi-split Connectable Indoor Units
- M-040 Feature Summary



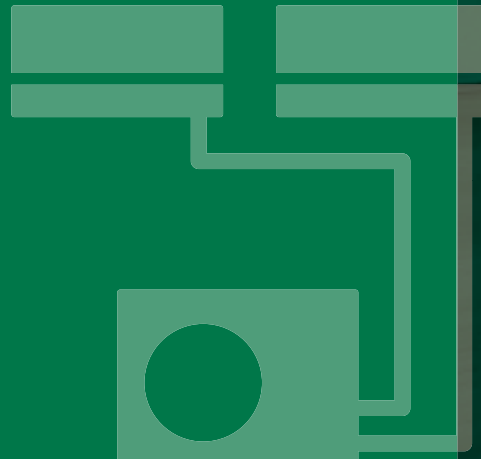
Refrigerant type R32 models

- M-010 2-unit to 5-unit Multi-split
- M-016 Simultaneous Multi-split Twin/Triple
-
- M-020 2-unit to 5-unit Multi-split Indoor Units Specifications
-
- M-024 2-unit to 5-unit Multi-split Combination Table



Refrigerant type R410A models

- 6-unit Multi-split**
- M-014 6-unit Multi-split
- Simultaneous Multi-split Type**
- M-018 Simultaneous Multi-split Twin/Triple/Double Twin
-
- M-022 6-unit Multi-split Indoor Units Specifications
-
- M-034 6-unit Multi-split Combination Table





A single outdoor unit drives multiple indoor units, offering greater flexibility in system configuration.

If you wish to keep an entire floor or two or more rooms comfortable, we recommend you choose a multi-split air conditioning system with a single outdoor unit. Choose one that meets your air conditioning requirements from the variety of models we offer. You can mix and match indoor and outdoor units as you wish to build the system that best suits your needs.

Multi-split Overview

Multi-split's space-saving outdoor unit allows for connections of up to eight indoor units for multiple rooms. Added to the lineup are models compatible with the new R32 refrigerant, offering environmentally friendly comfort in homes, offices, stores, and various other settings.



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



3-unit 18/24 class



4-unit 30 class
5-unit 36 class



2-unit Multi-split



14 class



18 class

2-unit to 6-unit Multi-split

Recommended for residences, offices, and other situations where multiple rooms require air conditioning. Each of the 2 to 6 connected indoor units can also be operated individually. Operation control, time scheduling for each room, and energy-saving options can be set on both individual and central remote controllers. The outdoor unit is designed to save space and is flexible enough to be installed on a balcony or underneath a waist-high window.

6-unit Multi-split



6-unit 45 class

Twin/Triple



Twin 36 class
(Single-phase/3-phase)



Twin/Triple 45/54 class
(Single-phase/3-phase)



Twin/Triple/Double Twin



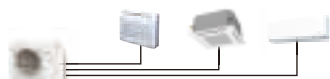



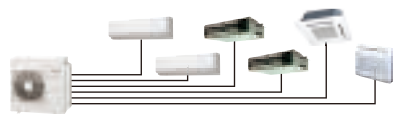



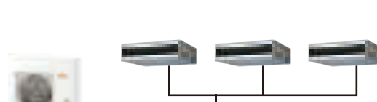
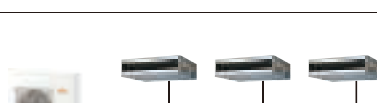




72/90 class
(3-phase)

Simultaneous Multi-split Type

Suitable for a small building, the entrance hall of a small office, meeting rooms, educational facilities, and other roomy areas where multiple indoor units need to be operated simultaneously. Up to 4 indoor units can be operated simultaneously, making the system perfect for air conditioning not only offices with large spaces, but also spaces with atypical layouts.

Multi-split Outdoor Units Lineup

				Class	14	18
				Cooling rated capacity (kW)	4.0	5.0
2-unit, 3-unit, 4-unit, 5-unit Multi-split	2-unit Multi-split Up to 2 units			AOYG14KBTA2	AOYG18KBTA2	
	3-unit Multi-split Up to 3 units					
	4-unit Multi-split Up to 4 units					
	5-unit Multi-split Up to 5 units					
6-unit Multi-split	6-unit Multi-split Up to 6 units					
Simultaneous Multi-split	Twin Single-phase					
	Twin 3-phase					
	Twin/Triple Single-phase					
	Twin/Triple 3-phase					
	Twin/Triple/ Double Twin 3-phase					

Notes: **1. 2-unit Multi-split:** Connectable indoor units are 2 units.
 AOYG14KBTA2: Total capacity of indoor units connected must be between 4.0 kW and 6.0 kW.
 AOYG18KBTA2: Total capacity of indoor units connected must be between 4.0 kW and 7.5 kW.
2. 3-unit Multi-split: Connectable indoor units are 2 to 3 units.
 AOYG18KBTA3: Total capacity of indoor units connected must be between 4.0 kW and 8.5 kW.
 AOYG24KBTA3: Total capacity of indoor units connected must be between 4.0 kW and 10.5 kW.

3. 4-unit Multi-split: Connectable indoor units are 2 to 4 units.
 AOYG30KBTA4: Total capacity of indoor units connected must be between 7.5 kW and 14.0 kW.
4. 5-unit Multi-split: Connectable indoor units are 2 to 5 units.
 AOYG36KBTA5: Total capacity of indoor units connected must be between 7.5 kW and 15.5 kW.



FUJITSU GENERAL (Euro) GmbH participates in the ECP program for VRF. Check ongoing validity of certificate: www.eurovent-certification.com
*Models so marked are not ECC certified.

18 5.4	24 6.8	30 8.0	36 10.0	45 12.5	45 14.0	54 14.0	72 19.0	90 22.0
AOYG18KBTA3	AOYG24KBTA3							
		AOYG30KBTA4						
			AOYG36KBTA5*1					
				AOYG45LBLA6*				
			AOYG36KBTB	AOYG45KBTB				
			AOYG36KRTA	AOYG45KRTA				
						AOYG54KBTB		
						AOYG54KRTA		
							AOYG72LRLA	AOYG90LRLA

MULTI-SPLIT

5. 6-unit Multi-split: Connectable indoor units are 2 to 6 units
AOYG45LBLA6: Total capacity of indoor units connected must be between 9.5 kW and 18.0 kW.

Cooling rated capacity: *1: 9.5 kW

2-unit to 5-unit Multi-split Connectable Indoor Units




Type	2-unit		3-unit		4-unit	5-unit	
Model name	AOYG14KBT2	AOYG18KBT2	AOYG18KBT3	AOYG24KBT3	AOYG30KBT4	AOYG36KBT5	
Multi-split Type Outdoor Unit							
Capacity (kW)	Cooling	4.0	5.0	5.4	6.8	8.0	9.5
	Heating	4.4	5.6	6.8	8.0	9.6	10.6

Indoor Unit	BTU	kW Class	2-unit	3-unit	3-unit	4-unit	5-unit
 ASYG07/09/12/14KGTF ASYG07/09/12/14KETF	7,000	2.0	●	●	●	●	●
	9,000	2.5	●	●	●	●	●
 ASYG07/09/12/14KMCF ASYG07/09/12/14KETF-B	12,000	3.5	●	●	●	●	●
	14,000	4.0	–	●	●	●	●
 ASYG18/22/24KMTE	18,000	5.0	–	–	–	●	●
	22,000	6.0	–	–	–	●	●
	24,000	7.0	–	–	–	●	●
 AGYG09/12/14KVCA	9,000	2.5	●	●	●	●	●
	12,000	3.5	●	●	●	●	●
	14,000	4.0	–	●	●	●	●
 AUXG07/09/12/14/18/22KVLA	7,000	2.0	●	●	●	●	●
	9,000	2.5	●	●	●	●	●
	12,000	3.5	●	●	●	●	●
	14,000	4.0	–	●	●	●	●
	18,000	5.0	–	–	–	●	●
	22,000	6.0	–	–	–	●	●
 ARXG07/09/12/14/18KSLAP	7,000	2.0	●	●	●	●	●
	9,000	2.5	●	●	●	●	●
	12,000	3.5	●	●	●	●	●
	14,000	4.0	–	●	●	●	●
	18,000	5.0	–	–	–	●	●
 ARXG07/09/12/14/18KLLAP	7,000	2.0	●	●	●	●	●
	9,000	2.5	●	●	●	●	●
	12,000	3.5	●	●	●	●	●
	14,000	4.0	–	●	●	●	●
	18,000	5.0	–	–	–	●	●
 ARXG22KMLB	22,000	6.0	–	–	–	●	●
 ABYG18/22KRTA	18,000	5.0	–	–	–	●	●
	22,000	6.0	–	–	–	●	●

6-unit Multi-split Connectable Indoor Units



Type	6-unit	
Model name	AOYG45LBLA6	
Multi-split Type Outdoor Unit		
Capacity (kW)	Cooling	12.5
	Heating	13.5

Indoor Unit	BTU	kW Class	
 ASYG07/09/12/14LMCE	7,000	2.0	●
	9,000	2.5	●
 ASYG07/09/12/14LUCA	12,000	3.5	●
	14,000	4.0	●
 ASYG18/24LF	18,000	5.0	●
	24,000	7.0	●
 AGYG09/12/14LV	9,000	2.5	●
	12,000	3.5	●
	14,000	4.0	●
 AUYG07/09/12/14/18LV	7,000	2.0	●
	9,000	2.5	●
	12,000	3.5	●
	14,000	4.0	●
 ABYG14LVTA ABYG18LVTB	14,000	4.0	●
	18,000	5.0	●
 ARYG07/09/12/14/18SLAP	7,000	2.0	●
	9,000	2.5	●
	12,000	3.5	●
	14,000	4.0	●
 ARYG07/09/12/14/18LL	18,000	5.0	●
	7,000	2.0	●
	9,000	2.5	●
	12,000	3.5	●
 ARYG07/09/12/14/18LL	14,000	4.0	●
	18,000	5.0	●
	7,000	2.0	●

Simultaneous Multi-split Connectable Indoor Units



Type	4HP		5HP		6HP	
Model name	AOYG36KBTB	AOYG36KRTA	AOYG45KBTB	AOYG45KRTA	AOYG54KBTB	AOYG54KRTA
Simultaneous Multi-split Type Outdoor Unit						
Capacity (kW)	Cooling	9.5	12.1	13.4	13.4	
	Heating	10.8	13.5	15.5	15.5	

Indoor Unit	BTU	kW Class	Twin			Triple
 AUXG18/22/24KVLA	18,000	5.0	● × 2	–	–	● × 3
	22,000	6.5	–	● × 2	–	–
	24,000	7.0	–	–	● × 2	–
 ARXG18KLLAP	18,000	5.0	● × 2	–	–	● × 3
	 ARXG22KMLB ARXG24KMLA	22,000	6.5	–	● × 2	–
24,000		7.0	–	–	● × 2	–
Separation tube				UTP-SX236A (18/22/24)		UTP-SX354A (18)

Note : Please be aware that 2-wired group control is not possible with Simultaneous Multi-split.



Type	8HP	10HP	
Model name	AOYG72LRLA	AOYG90LRLA	
Simultaneous Multi-split Outdoor Unit			
Capacity (kW)	Cooling	19.0	22.0
	Heating	22.4	27.0

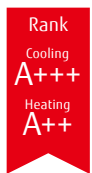
Indoor Unit	BTU	kW Class	Twin	Triple	Double Twin	Twin	Triple	Double Twin	
 AUYG18/22/24LV	18,000	5.0	-	-	● × 4	-	-	-	
	22,000	6.5	-	-	-	-	-	● × 4	
	24,000	7.0	-	● × 3	-	-	-	-	
 AUYG30/36/45LR	30,000	8.8	-	-	-	-	● × 3	-	
	36,000	10.6	● × 2	-	-	-	-	-	
	45,000	12.5	-	-	-	● × 2	-	-	
 ARYG24/30/36/45LM	18,000	5.0	-	-	● × 4	-	-	-	
	24,000	7.0	-	● × 3	-	-	-	-	
	30,000	8.8	-	-	-	-	● × 3	-	
	36,000	10.6	● × 2	-	-	-	-	-	
 ARYG30/36/45LR	45,000	12.5	-	-	-	● × 2	-	-	
	 ABYG18/22/24LV	18,000	5.0	-	-	● × 4	-	-	-
		22,000	6.5	-	-	-	-	-	● × 4
		24,000	7.0	-	● × 3	-	-	-	-
 ABYG30/36/45LR	30,000	8.8	-	-	-	-	● × 3	-	
	36,000	10.6	● × 2	-	-	-	-	-	
	45,000	12.5	-	-	-	● × 2	-	-	
Separation tube			UTP-SX272A × 1	UTP-SX372A × 1	UTP-SX272A × 1, UTP-SX236A × 2	UTP-SX272A × 1	UTP-SX372A × 1	UTP-SX272A × 1, UTP-SX254A × 2	

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



High energy saving

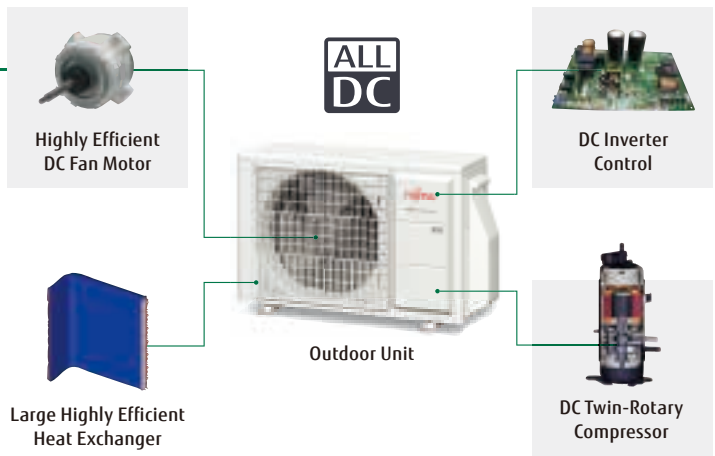
With the adoption of a high-efficiency DC twin-rotary compressor, all models achieved an energy efficiency scale of A+++ for cooling and A++ for heating.



SEER 8.7*

SCOP 4.7

*: 2-unit 14 class



R32 refrigerant model

In addition to its high energy efficiency, the R32 refrigerant has a larger volumetric capacity than the R410A refrigerant, which means the R32 refrigerant models require less refrigerant charge than the R410A models.

	Pre-charge refrigerant amount (kg)	
	R32	R410A
2-unit 14 class	0.9	1.25
2-unit 18 class	1.02	1.30
3-unit 18 class	1.8	2.2
3-unit 24 class	1.8	2.2
4-unit 30 class	2.2	3.3
5-unit 36 class	2.5	4.0

Quiet operation

The sound power level is reduced by up to 7 dB compared to the current R410 models.

Sound Power Level

*3-unit 24 class (cooling)

61 dB(A)

68 dB(A)

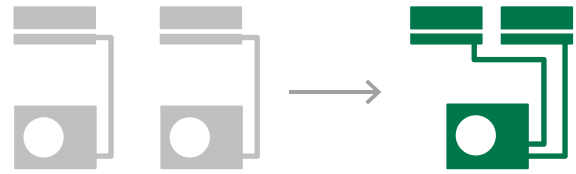


R32 model

R410 model

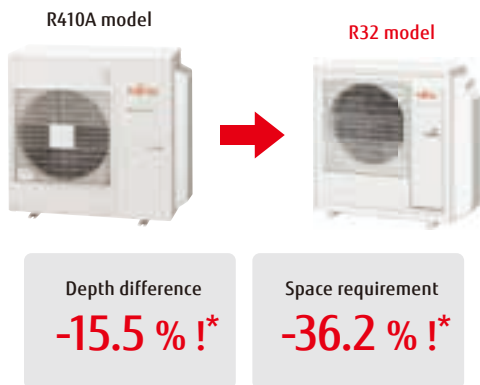
Space-saving installation

Multiple indoor units can be connected to 1 outdoor unit by long piping as well. Unlike a single type, the outdoor unit can be installed in the most space-saving location.



Compact design

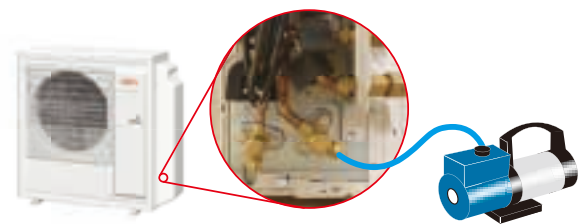
Unlike a single type, the outdoor unit can be installed in the most space-saving location.



*: Compared with current 5-unit multi models

Easy evacuation

All connected pipes and indoor units can be evacuated quickly via our centralized valve method. Requires evacuation only once.



Wide range of indoor units with various models

We offer 41 models in 5 types in a capacity range from 2.0 kW to 6.0 kW. Wide range of requirements can be realized from private homes through to large shops and hotels



Models equipped with the New R32 Refrigerant

Wall-mounted type with sophisticated design

Designer Series



Cool Beauty Design
07/09/12/14 kBTU



High Spec & Design
07/09/12/14 kBTU

Standard Series



High Efficiency & Comfort
07/09/12/14 kBTU



High Efficiency & Large Rooms
18/22/24 kBTU

Middle and small capacity models are available. This makes installation easier in small spaces.



Mini Duct
07/09/12/14/18 kBTU



Slim Duct
07/09/12/14/18 kBTU



Medium static pressure duct
22 kBTU



Compact Cassette
07/09/12/14/18/22 kBTU



Floor
09/12/14/ kBTU



Ceiling
18/22 kBTU

MULTI-SPLIT

2-unit: AOYG14KBTA2/AOYG18KBTA2

3-unit: AOYG18KBTA3/AOYG24KBTA3

4-unit: AOYG30KBTA4

5-unit: AOYG36KBTA5



Specifications (2-unit)

Model name			AOYG14KBTA2	AOYG18KBTA2
Power Source			Single phase, ~230 V, 50 Hz	
Rated Capacity (Min. - Max.)	Cooling	kW	4.0 (1.4-4.6)	5.0 (1.7-5.8)
	Heating		4.4 (1.1-5.5)	5.6 (1.8-6.6)
EER	Cooling	W/W	4.12	4.03
	Heating		4.63	4.59
COP	Cooling	dB(A)	47	47
	Heating		49	50
Sound Pressure Level (High)	Cooling	dB(A)	60	60
	Heating		62	62
Airflow Rate	Cooling/Heating	m ³ /h	1,670/1,670	1,960/2,020
Net Dimensions H × W × D			542 × 799 × 290	632 × 799 × 290
Weight			33 (73)	37 (82)
Connection Pipe Diameter	Liquid	mm	6.35 × 2	6.35 × 2
	Gas		9.52 × 2	9.52 × 2
Max. Pipe Length			30/20	30/20
Max. Height Difference	Between Outdoor Unit and Each Indoor Unit	m	15	15
	Between Indoor Units		10	10
Operating Range	Cooling	°CDB	-10 to 46	-10 to 46
	Heating		-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R32 (675)	R32 (675)
	Charge	kg (CO ₂ eq-T)	0.9 (0.608)	1.02 (0.689)

Specifications (3-unit)

Model name			AOYG18KBTA3	AOYG24KBTA3
Power Source			Single phase, ~230 V, 50 Hz	
Rated Capacity (Min. - Max.)	Cooling	kW	5.4 (1.8-7.0)	6.8 (1.8-8.5)
	Heating		6.8 (2.0-8.0)	8.0 (2.0-9.2)
EER	Cooling	W/W	4.78	3.90
	Heating		4.89	4.40
COP	Cooling	dB(A)	46	48
	Heating		49	53
Sound Pressure Level (High)	Cooling	dB(A)	59	61
	Heating		61	67
Airflow Rate	Cooling/Heating	m ³ /h	2,220/2,160	2,270/2,730
Net Dimensions H × W × D			716 × 820 × 315	716 × 820 × 315
Weight			46 (102)	46 (102)
Connection Pipe Diameter	Liquid	mm	6.35 × 3	6.35 × 3
	Gas		9.52 × 3	9.52 × 2, 12.70 × 1 adapter [12.70 → 9.52] × 1
Max. Pipe Length			50/25	50/25
Max. Height Difference	Between Outdoor Unit and Each Indoor Unit	m	15	15
	Between Indoor Units		10	10
Operating Range	Cooling	°CDB	-10 to 46	-10 to 46
	Heating		-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R32 (675)	R32 (675)
	Charge	kg (CO ₂ eq-T)	1.8 (1.215)	1.8 (1.215)

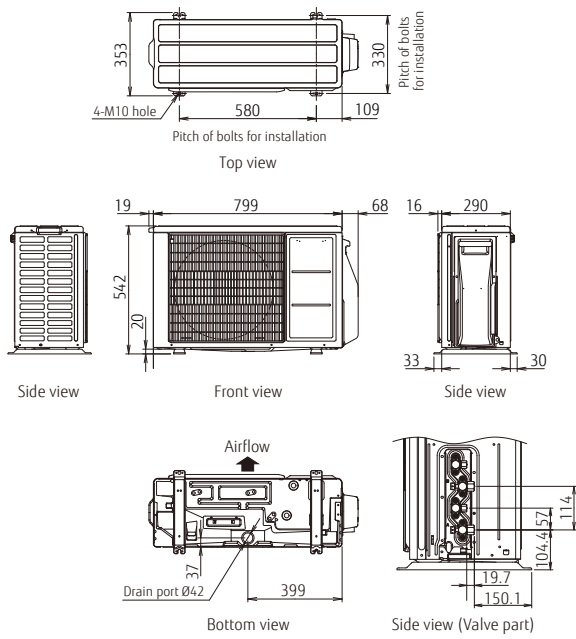
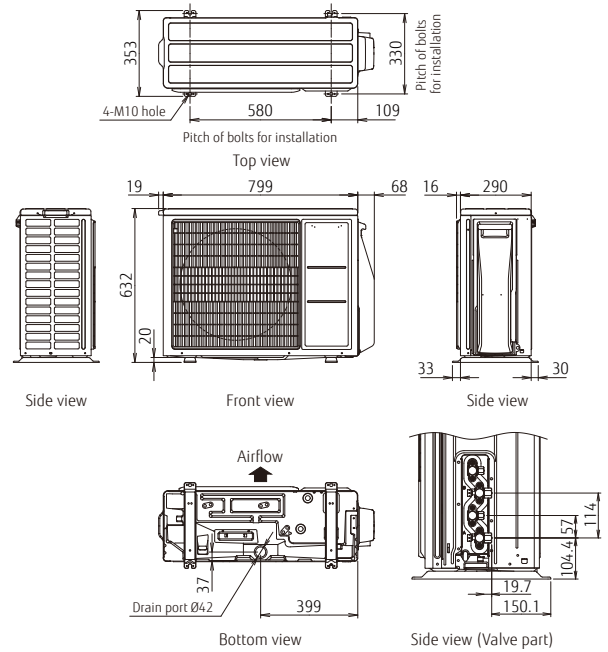
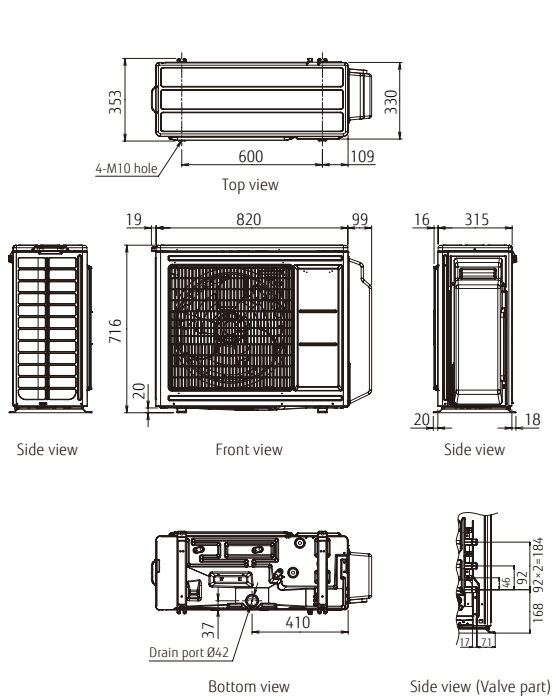
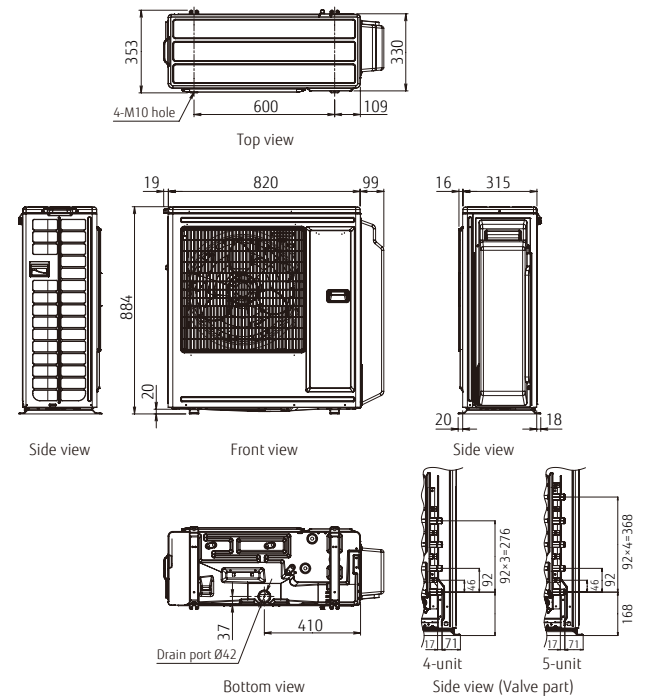
Specifications (4-unit, 5-unit)

Model name			AOYG30KBTA4	AOYG36KBTA5
Power Source			Single phase, ~230 V, 50 Hz	
Rated Capacity (Min. - Max.)	Cooling	kW	8.0 (2.4-10.1)	9.5 (3.0-11.0)
	Heating		9.6 (3.0-11.2)	10.6 (3.5-12.0)
EER	Cooling	W/W	3.90	3.80
	Heating		4.55	4.50
COP	Cooling	dB(A)	50	52
	Heating		54	55
Sound Pressure Level (High)	Cooling	dB(A)	63	65
	Heating		66	68
Airflow Rate	Cooling/Heating	m ³ /h	2,400/2,950	2,450/2,900
Net Dimensions H × W × D			884 × 820 × 315	884 × 820 × 315
Weight			55 (121)	59 (130)
Connection Pipe Diameter	Liquid	mm	6.35 × 4	6.35 × 5
	Gas		9.52 × 2, 12.70 × 2 adapter [12.70 → 9.52] × 2	9.52 × 3, 12.70 × 2 adapter [12.70 → 9.52] × 2 adapter [9.52 → 12.70] × 1
Max. Pipe Length*			70/25	75/25
Max. Height Difference	Between Outdoor Unit and Each Indoor Unit	m	15	15
	Between Indoor Units		10	10
Operating Range	Cooling	°CDB	-10 to 46	-10 to 46
	Heating		-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R32 (675)	R32 (675)
	Charge	kg (CO ₂ eq-T)	2.2 (1.485)	2.5 (1.688)

*Length not applicable when floor units are connected. For details, refer to the installation manual.

Dimensions

(Unit: mm)

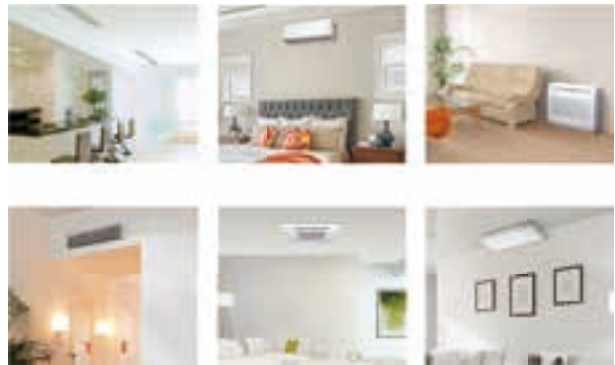
2-unit: AOYG14KBTA2

2-unit: AOYG18KBTA2

3-unit: AOYG18KBTA3/AOYG24KBTA3

**4-unit: AOYG30KBTA4
5-unit: AOYG36KBTA5**


6-unit Multi-split



A wide variety of models to choose from

We offer 16 models in 4 types in a capacity range from 2.0 kW to 4.0 kW. Wide range of requirements can be realized from private homes through to large shops and hotels.



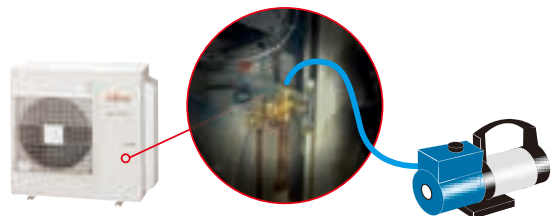
Compact design

Multiple indoor units can be connected to 1 outdoor unit by long piping as well. Unlike a single type, the outdoor unit can be installed in the most space-saving location.



Easy installation

All connected pipes and indoor units can be evacuated quickly via our centralized valve method. Requires evacuation only once.

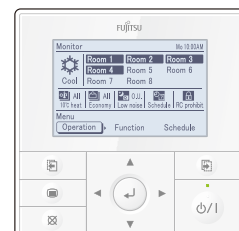


Central & Individual control

- Batched control of up to 8 indoor units. Unified setting of room temperature, airflow volume, and local control restrictions across units.
- Language can be selected from English, French, German, Greek, Italian, Portuguese, Russian, Spanish, or Turkish.
- Large backlit LED screen
- Large easy-to-see operation panel

Max. Controllable
1 multi-system

Max. Controllable
8 indoor units



6-unit: AOYG45LBLA6

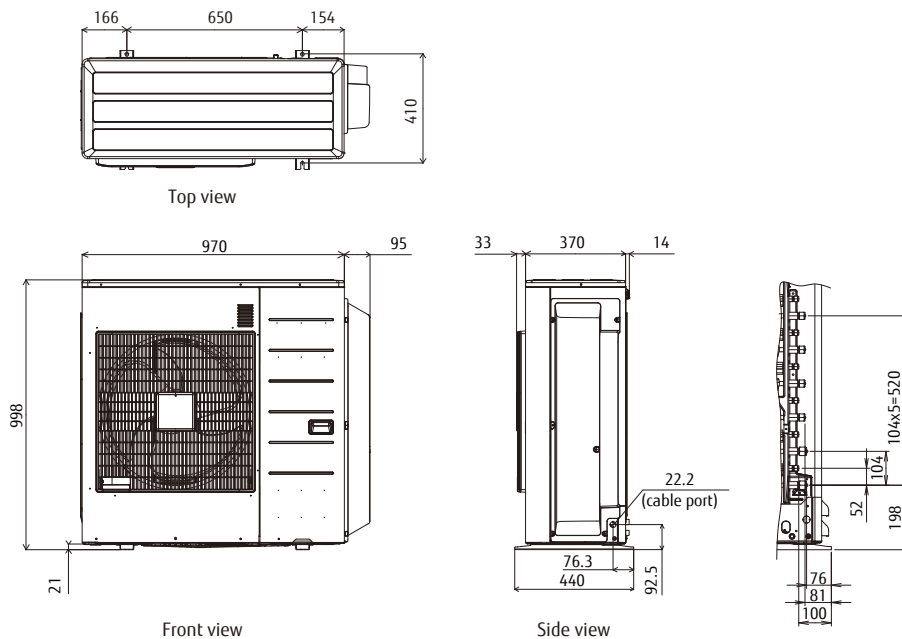


Specifications (5-unit, 6-unit)

Model name		AOYG45LBLA6		
Power Source		Single phase, ~230 V, 50 Hz		
Rated Capacity (Min. - Max.)	Cooling	kW	12.5 (3.5-14.0)	
	Heating		13.5 (3.5-16.0)	
EER	Cooling	W/W	3.50	
COP	Heating		4.00	
Sound Pressure Level (High)	Cooling	dB(A)	53	
	Heating		55	
Sound Power Level (High)	Cooling		-	
	Heating		-	
Airflow Rate	Cooling/Heating	m ³ /h	4,200/4,200	
Net Dimensions H × W × D		mm	998 × 970 × 370	
Weight		kg (lbs)	94 (207)	
Connection Pipe Diameter	Liquid	mm	6.35 × 6	
	Gas		9.52 × 4, 12.70 × 2	
Max. Pipe Length		Total/Each	80/25	
Max. Height Difference	Between Outdoor Unit and Each Indoor Unit.		m	15
	Between Indoor Units.			10
Operating Range	Cooling	°CDB	-10 to 46	
	Heating		-15 to 24	
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	
	Charge	kg (CO ₂ eq-T)	4.00 (8.352)	

Dimensions

(Unit: mm)



Simultaneous Multi-split Type Twin/Triple



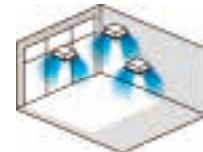
Meets a variety of installation needs from offices to commercial spaces, with up to 3 indoor units in the same room connected to an outdoor unit.

Select indoor units according to floor layout and heat load estimated by the number of people working in the room and the direction and intensity of sunlight entering the room. Perfect airflow distribution can be achieved for optimum comfort.

Installation according to floor layout



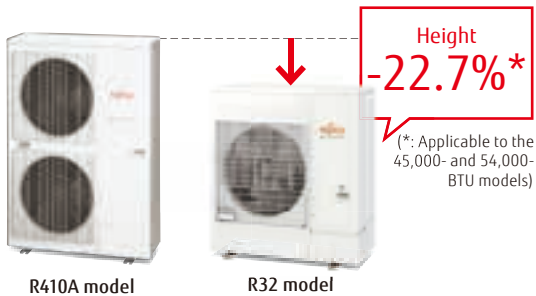
Installation according to lighting conditions



Design flexibility

Slim & Compact Design

The outdoor unit in this series is 22.7% shorter* than a twin-fan outdoor unit. The reduced height makes it easy to install in tight spaces.

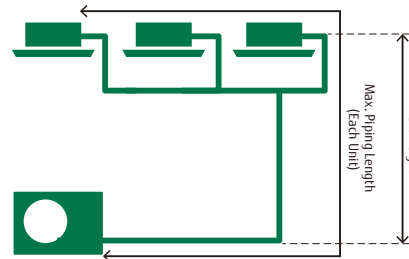


R410A model

R32 model

Flexible installation

Pipe length of up to 50 m and a height difference of up to 30 m can be accommodated. Multi-split systems can be installed in large residences and multi-story buildings.



Max.

Pipe Length

(Each Unit):

50 m

Max. Height:

30 m

New lineup of indoor units

The indoor units, available in 6 models of 3 types, can be selected according to room size and conditions.



Compact Cassette



Slim Duct



Duct

Note : Please be aware that 2-wired group control is not possible with Simultaneous Multi-split.

**Model: AOYG36KBTB/AOYG45KBTB/AOYG54KBTB
AOYG36KRTA [3-phase]/AOYG45KRTA [3-phase]/AOYG54KRTA [3-phase]**



36

45/54

Specifications (Indoor units/Outdoor units)

Indoor Units Model name				Compact Cassette		
				AUXG18KVLA	AUXG22KVLA	AUXG24KVLA
Power Source				Single phase, ~230 V, 50 Hz		
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	680/580/490/410	830/740/600/450	930/830/600/450
	Heating	H/M/L/Q		800/680/580/450	860/760/700/530	930/850/700/530
Net Dimensions H × W × D				mm		
				245 × 570 × 570		
Weight				kg (lbs)		
				15 (33)		
Cassette Grille				UTG-UFYF-W		

Indoor Units Model name				Duct		
				ARXG18KLLAP	ARXG22KMLB	ARXG24KMLA
Power Source				Single phase, ~230 V, 50 Hz		
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	940/880/820/750	1,100/910/750/580	1,100/910/750/580
	Heating	H/M/L/Q		940/880/820/750	1,100/910/750/580	1,100/910/750/580
Net Dimensions H × W × D				mm		
				198 × 900 × 620		
Weight				kg (lbs)		
				20 (44)		

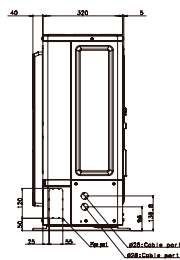
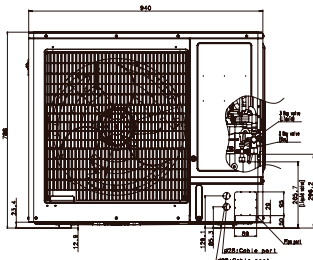
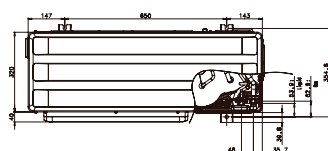
Outdoor Units Model name			AOYG36KBTB	AOYG45KBTB	AOYG54KBTB	AOYG36KRTA	AOYG45KRTA	AOYG54KRTA
Capacity	Cooling	kW	9.5	12.1	13.4	9.5	12.1	13.4
	Heating		10.8	13.5	15.5	10.8	13.5	15.5
Power Source			Single phase, ~230 V, 50 Hz			3-phase, ~400 V, 50 Hz		
Pdesign	Cooling	kW	9.5	-	-	9.5	-	-
	Heating (-10°C)		8.7	-	-	8.7	-	-
SEER	Cooling	W/W	6.10	-	-	6.10	-	-
	Heating		4.00	-	-	4.00	-	-
Annual Energy Consumption	Cooling	kWh/a	545	-	-	545	-	-
	Heating		3,044	-	-	3,044	-	-
Energy Efficiency Class			Cooling			Heating		
			A++			A+		
Sound Pressure Level (High)	Cooling	dB(A)	55	57	57	55	57	57
	Heating		55	57	59	55	57	59
Sound Power Level (High)	Cooling	dB(A)	70	71	73	70	71	73
	Heating		70	71	73	70	71	73
Airflow Rate	Cooling/Heating	m ³ /h	3,750/3,750	4,450/4,450	4,450/4,450	3,750/3,750	4,450/4,450	4,450/4,450
Net Dimensions H × W × D			mm			mm		
			788 × 940 × 320			788 × 940 × 320		
Weight			kg (lbs)			kg (lbs)		
			52 (115)			67 (148)		
Connection Pipe Diameter (Liquid/Gas)			mm			mm		
			9.52/15.88			9.52/15.88		
Max. Pipe Length (Pre-Charge)			m			m		
			50 (30)			50 (30)		
Max. Height Difference			m			m		
			30			30		
Operating Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)	kg (CO ₂ eq-T)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge		1.90 (1.283)	2.70 (1.823)	2.70 (1.823)	1.90 (1.283)	2.70 (1.823)	2.70 (1.823)
Separation tube			UTP-SX236A (Twin)	UTP-SX236A (Twin)	UTP-SX236A (Twin) UTP-SX354A (Triple)	UTP-SX236A (Twin)	UTP-SX236A (Twin)	UTP-SX236A (Twin) UTP-SX354A (Triple)

- Indoor units of different types and capacity cannot be connected.
- The above specifications apply when used with a cassette type indoor unit.

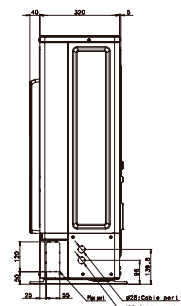
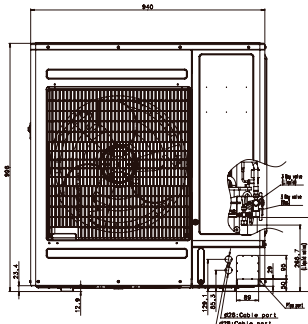
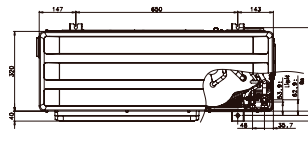
Dimensions

(Unit: mm)

AOYG36KBTB/AOYG36KRTA



**AOYG45KBTB/AOYG54KBTB
AOYG45KRTA/AOYG54KRTA**



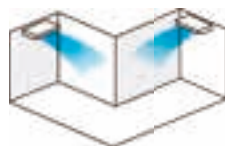
Simultaneous Multi-split Type Twin/Triple/Double Twin



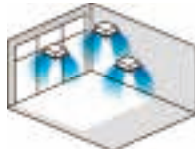
Meets a variety of installation needs from an open-plan office to a retail store, with up to 4 indoor units connected to an outdoor unit.

Select indoor units according to floor layout and heat load estimated by the number of people working in the room and the direction and intensity of sunlight entering the room. Perfect airflow distribution can be achieved for optimum comfort.

Installation according to floor layout



Installation according to lighting conditions



Installation according to layout and lighting conditions

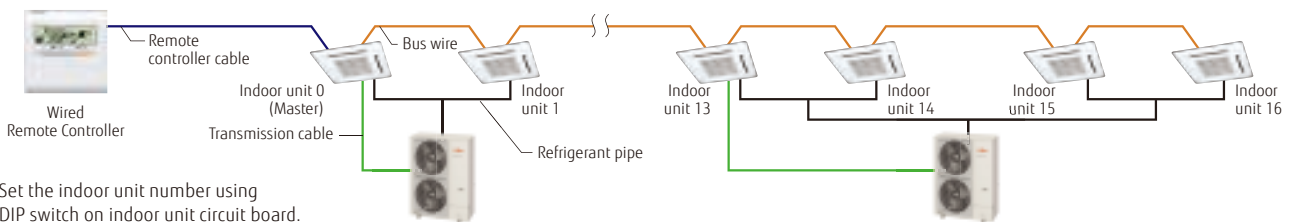


Installation according to large space



Simultaneous control

Up to 16 indoor units can be controlled simultaneously with a wired remote controller.



Set the indoor unit number using DIP switch on indoor unit circuit board.

*The following functions are not provided by a wireless remote controller: Timer operation, Sleep Timer operation, 10°C Heat operation

Indoor unit lineup

The indoor units, available in 18 models of 6 types, can be selected according to room size and conditions.



Compact Cassette



Cassette



Slim Duct



Duct



Floor/Ceiling Universal



Ceiling

Model: AOYG72LRLA [3-phase]/AOYG90LRLA [3-phase]



Specifications (Indoor units/Outdoor units)

Indoor Units Model name				Compact Cassette, Cassette					
				AUYG18LVLB	AUYG22LVLA	AUYG24LVLA	AUYG30LRLE	AUYG36LRLE	AUYG45LRLA
Power Source				Single phase, ~230 V, 50 Hz					
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	750/610/520/410	930/830/600/450	930/830/600/450	1,600/1,400/1,270/1,150	1,800/1,400/1,270/1,150	1,900/1,640/1,460/1,250
	Heating	H/M/L/Q		800/710/600/450	930/860/700/530	930/830/600/450	1,800/1,400/1,270/1,150	1,800/1,400/1,270/1,150	1,900/1,640/1,460/1,250
Net Dimensions H × W × D			mm	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840
Weight			kg (lbs)	15 (33)	16 (35)	16 (35)	26 (57)	26 (57)	26 (57)
Cassette Grille				UTG-UFYD-W			UTG-UGYA-W		

Indoor Units Model name				Duct				
				ARYG18LLTB	ARYG24LMLA	ARYG30LMLE	ARYG36LMLE	ARYG45LMLA
Power Source				Single phase, ~230 V, 50 Hz				
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	940/880/820/750	1,100/910/750/580	1,900/1,620/1,270/980	1,900/1,620/1,270/980	2,100/1,750/1,350/1,070
	Heating	H/M/L/Q		940/880/820/750	1,100/910/750/580	2,100/1,620/1,270/980	2,100/1,620/1,270/980	2,100/1,750/1,350/1,070
Net Dimensions H × W × D			mm	198 × 900 × 620	270 × 1135 × 700	270 × 1135 × 700	270 × 1135 × 700	270 × 1135 × 700
Weight			kg (lbs)	23 (51)	38 (84)	40 (88)	40 (88)	40 (88)

Indoor Units Model name				Floor/Ceiling, Ceiling					
				ABYG18LVTB	ABYG22LVTA	ABYG24LVTA	ABYG30LRTE	ABYG36LRTE	ABYG45LRTE
Power Source				Single phase, ~230 V, 50 Hz					
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	780/700/560/500	980/820/680/540	980/820/680/540	1,660/1,500/1,200/1,000	1,900/1,500/1,200/1,000	2,100/1,700/1,400/1,100
	Heating	H/M/L/Q		780/700/560/500	980/820/680/540	980/820/680/540	1,660/1,500/1,200/1,000	1,900/1,500/1,200/1,000	2,100/1,700/1,400/1,100
Net Dimensions H × W × D			mm	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655	240 × 1660 × 700	240 × 1660 × 700	240 × 1660 × 700
Weight			kg (lbs)	27 (60)	27 (60)	27 (60)	46 (101)	46 (101)	46 (101)

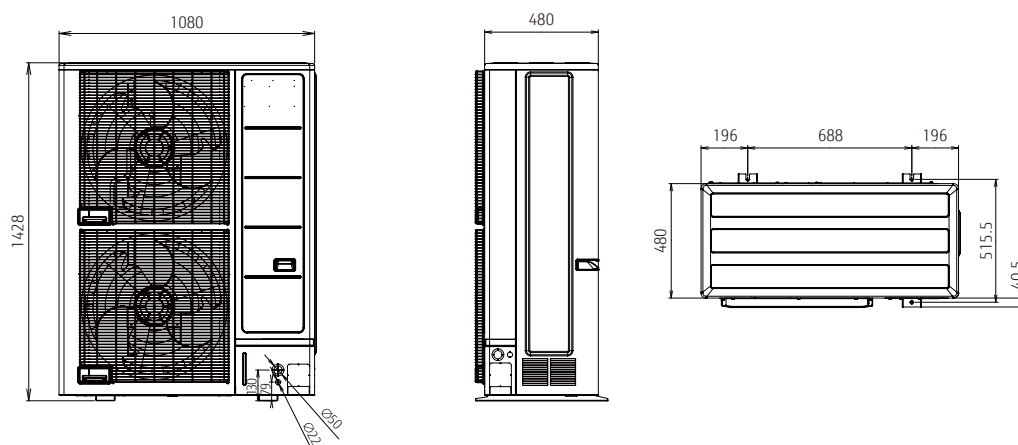
Outdoor Units Model name			AOYG72LRLA		AOYG90LRLA	
Capacity	Cooling	kW	19.0		22.0	
	Heating		22.4		27.0	
Power Source			3-phase, ~400 V, 50 Hz			
Sound Pressure Level (High)	Cooling/Heating	dB(A)	55/55		55/57	
Airflow Rate	Cooling/Heating	m ³ /h	8,400/8,400		8,400/9,000	
Net Dimensions H × W × D			1,428 × 1,080 × 480		1,428 × 1,080 × 480	
Weight			163 (359)		172 (379)	
Connection Pipe Diameter (Liquid/Gas)			12.7/25.4		12.7/25.4	
Max. Pipe Length (Pre-Charge)			100 (30)		100 (30)	
Max. Height Difference			30		30	
Operating Range	Cooling	°CDB	-15 to 46		-15 to 46	
	Heating		-20 to 24		-20 to 24	
Refrigerant	Type (Global Warming Potential)	R410A (2,088)		R410A (2,088)		
	Charge	kg (CO ₂ eq-T)	5.6 (11.693)		7.1 (14.825)	
Separation tube			UTP-SX272A × 1 (Twin)	UTP-SX372A × 1 (Triple)	UTP-SX272A × 1 (Twin) UTP-236A × 2 (Double Twin)	UTP-SX272A × 1 (Triple) UTP-SX254A × 2 (Double Twin)

*: That specification is not fixed yet.

- Indoor units of different types and capacity cannot be connected.
- The above specifications apply when used with a cassette type indoor unit.

Dimensions

(Unit: mm)



2-unit to 5-unit Multi-split Indoor Units Specifications

Wall-mounted type

NEW



Model name	Indoor unit			ASYG07KGTf	ASYG09KGTf	ASYG12KGTf	ASYG14KGTf
kW Class				2.0	2.5	3.5	4.0
Power Source				Single phase, ~230 V, 50 Hz			
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	38/33/29/21	40/34/29/21	40/35/30/21	43/36/30/21
	Heating			41/35/31/22	42/36/31/22	42/38/33/22	44/39/33/24
Sound Power Level	Cooling	H	dB(A)	54	55	56	57
	Heating			56	57	58	59
Airflow Rate	Cooling	H/M/L/Q	m³/h	650/540/430/270	700/560/430/270	700/560/430/270	770/600/450/280
	Heating			720/580/460/330	750/610/470/330	770/640/520/330	800/660/520/340
Net Dimensions				mm	270 × 834 × 215	270 × 834 × 215	270 × 834 × 215
Weight				kg (lbs)	10 (22)	10 (22)	10 (22)
Connection Pipe Diameter	Liquid/Gas			mm	6.35/9.52	6.35/9.52	6.35/9.52

Wall-mounted type

NEW



Model name	Indoor unit			ASYG07KETF ASYG07KETF-B	ASYG09KETF ASYG09KETF-B	ASYG12KETF ASYG12KETF-B	ASYG14KETF ASYG14KETF-B
kW Class				2.0	2.5	3.5	4.0
Power Source				Single phase, ~230 V, 50 Hz			
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	38/33/29/21	40/34/29/21	40/35/30/21	43/36/30/21
	Heating			41/35/31/22	42/36/31/22	42/38/33/22	44/39/33/24
Sound Power Level	Cooling	H	dB(A)	54	55	55	57
	Heating			56	57	58	59
Airflow Rate	Cooling	H/M/L/Q	m³/h	650/540/430/270	700/560/430/270	700/560/430/270	770/600/450/280
	Heating			720/580/460/330	750/610/470/330	770/640/520/330	800/660/520/340
Net Dimensions				mm	295 × 950 (wall side: 840) × 230	295 × 950 (wall side: 840) × 230	295 × 950 (wall side: 840) × 230
Weight				kg (lbs)	11(24)	11 (24)	11.5 (25)
Connection Pipe Diameter	Liquid/Gas			mm	6.35/9.52	6.35/9.52	6.35/9.52

Wall-mounted type

NEW



Model name	Indoor unit			ASYG07KMCF	ASYG09KMCF	ASYG12KMCF	ASYG14KMCF
kW Class				2.0	2.5	3.5	4.0
Power Source				Single phase, ~230 V, 50 Hz			
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	38/33/29/21	40/34/29/21	40/35/30/21	43/36/30/21
	Heating			41/35/31/22	42/36/31/22	42/38/33/22	44/39/33/24
Sound Power Level	Cooling	H	dB(A)	54	55	55	57
	Heating			56	57	58	59
Airflow Rate	Cooling	H/M/L/Q	m³/h	650/540/430/320	700/560/430/320	700/560/430/320	770/600/450/310
	Heating			720/580/460/330	750/610/470/330	780/640/520/330	820/660/520/340
Net Dimensions				mm	270 × 834 × 222	270 × 834 × 222	270 × 834 × 222
Weight				kg (lbs)	10 (22)	10 (22)	10 (22)
Connection Pipe Diameter	Liquid/Gas			mm	6.35/9.52	6.35/9.52	6.35/9.52

Wall-mounted type



Model name	Indoor unit			ASYG18KMTE	ASYG22KMTE	ASYG24KMTE
kW Class				5.0	6.0	7.0
Power Source				Single phase, ~230 V, 50 Hz		
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	45/40/35/29	48/40/35/29	49/40/35/29
	Heating			46/40/35/29	48/40/35/29	49/40/35/29
Sound Power Level	Cooling	H	dB(A)	60	62	65
	Heating			61	62	65
Airflow Rate	Cooling	H/M/L/Q	m³/h	980/810/640/510	1,060/810/640/510	1,170/850/640/510
	Heating			1,020/850/640/510	1,060/850/640/510	1,170/850/640/510
Net Dimensions				mm	280 × 980 × 240	280 × 980 × 240
Weight				kg (lbs)	12.5 (27)	12.5 (27)
Connection Pipe Diameter	Liquid/Gas			mm	6.35/12.70	6.35/12.70

Floor



Model name	Indoor unit			AGYG09KVCA	AGYG12KVCA	AGYG14KVCA
kW Class				2.5	3.5	4.0
Power Source				Single phase, ~230 V, 50 Hz		
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	39/34/28/22	42/36/30/22	44/38/31/22
	Heating			39/35/30/22	42/38/32/22	44/39/33/22
Sound Power Level	Cooling	H	dB(A)	52	55	56
	Heating			52	55	56
Airflow Rate	Cooling	H/M/L/Q	m³/h	530/440/360/270	600/490/380/270	650/520/400/270
	Heating			530/460/380/270	600/510/410/270	650/540/430/270
Net Dimensions				mm	600 × 740 × 200	600 × 740 × 200
Weight				kg (lbs)	14 (31)	14 (31)
Connection Pipe Diameter	Liquid/Gas			mm	6.35/9.52	6.35/9.52

Ceiling


Model name	Indoor unit			ABYG18KRTA	ABYG22KRTA
kW Class	kW			5.0	6.0
Power Source				Single phase, ~230 V, 50 Hz	
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	38/36/33/31	42/37/34/31
	Heating			38/36/33/31	42/37/34/31
Sound Power Level	Cooling	H	dB(A)	53	57
	Heating			53	57
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	840/790/710/650	900/790/710/650
	Heating			840/790/710/650	900/790/710/650
Net Dimensions	mm			235 × 1,080 × 705	235 × 1,080 × 705
Weight	kg (lbs)			24(52)	24(52)
Connection Pipe Diameter	Liquid/Gas	mm		6.35/12.70	6.35/12.70

Compact Cassette Grid Type


Model name	Indoor unit			AUXG07KVLA	AUXG09KVLA	AUXG12KVLA	AUXG14KVLA	AUXG18KVLA	AUXG22KVLA
kW Class	kW			2.0	2.5	3.5	4.0	5.0	6.0
Power Source				Single phase, ~230 V, 50 Hz					
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	33/31/29/27	33/31/29/27	37/34/31/28	38/35/32/29	38/35/32/29	44/42/36/30
	Heating			34/32/29/27	34/32/29/27	37/34/31/29	43/38/34/30	43/38/34/30	45/43/40/33
Sound Power Level	Cooling	H	dB(A)	46	46	49	50	50	56
	Heating			47	47	49	55	55	57
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	540/490/440/390	540/490/440/390	610/530/470/410	680/580/490/410	680/580/490/410	830/740/600/450
	Heating			540/490/440/390	540/490/440/390	610/530/470/410	790/680/580/450	790/680/580/450	860/760/700/530
Net Dimensions	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)	15 (33)	16 (35)
Panel				UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W
Connection Pipe Diameter	Liquid/Gas	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70	6.35/12.70

Mini duct


Model name	Indoor unit			ARXG07KSLAP	ARXG09KSLAP	ARXG12KSLAP	ARXG14KSLAP	ARXG18KSLAP	
kW Class	kW			2.0	2.5	3.5	4.0	5.0	
Power Source				Single phase, ~230 V, 50 Hz					
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	29/26/24/23	29/26/24/23	31/27/25/23	35/30/27/23	33/29/26/23	
	Heating			29/26/24/23	29/26/24/23	31/27/25/23	35/30/27/23	33/29/26/23	
Sound Power Level	Cooling	H	dB(A)	52	54	55	60	58	
	Heating			53	56	57	62	59	
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	550/440/390/360	600/450/400/360	650/490/430/360	800/640/530/360	940/750/540/480	
	Heating			550/440/390/360	600/450/400/360	650/490/430/360	800/640/530/360	940/750/540/480	
Net Dimensions	mm			198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 900 × 450	
Weight	kg (lbs)			15.5 (34)	15.5 (34)	15.5 (34)	15.5 (34)	18.5 (40)	
Connection Pipe Diameter	Liquid/Gas	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70	
External static pressure	Pa			0 to 30	0 to 30	0 to 30	0 to 50	0 to 50	
Drain pump				Standard	Standard	Standard	Standard	Standard	

Slim duct


Model name	Indoor unit			ARXG07KLLAP	ARXG09KLLAP	ARXG12KLLAP	ARXG14KLLAP	ARXG18KLLAP	
kW Class	kW			2.0	2.5	3.5	4.0	5.0	
Power Source				Single phase, ~230 V, 50 Hz					
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	28/26/25/24	28/27/26/25	29/28/27/26	32/30/28/26	32/30/29/27	
	Heating			28/26/25/24	28/26/25/24	29/28/27/24	32/30/28/25	32/30/29/27	
Sound Power Level	Cooling	H	dB(A)	57	57	58	60	58	
	Heating			57	57	58	60	58	
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	550/490/470/440	600/550/500/450	650/600/550/480	800/700/600/480	940/880/820/750	
	Heating			550/490/470/440	600/550/500/450	650/600/550/480	800/700/600/480	940/880/820/750	
Net Dimensions	mm			198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 900 × 620	
Weight	kg (lbs)			16 (35)	17 (37)	17 (37)	17 (37)	20 (44)	
Connection Pipe Diameter	Liquid/Gas	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70	
External static pressure	Pa			0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	
Drain pump				Standard	Standard	Standard	Standard	Standard	

Medium Static Pressure Duct


Model name	Indoor unit			ARXG22KMLB
kW Class	kW			6.0
Power Source				Single phase, ~230 V, 50 Hz
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	31/29/27/25
	Heating			31/29/27/25
Sound Power Level	Cooling	H	dB(A)	60
	Heating			62
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	1,100/910/750/580
	Heating			1,100/910/750/580
Net Dimensions	mm			270 × 1,135 × 700
Weight	kg (lbs)			35 (77)
Connection Pipe Diameter	Liquid/Gas	mm		6.35/12.70
External static pressure	Pa			30 to 150
Drain pump				Standard

6-unit Multi-split Indoor Units Specifications

Compact wall-mounted



Model name	Indoor unit			ASYG07LUCA	ASYG09LUCA	ASYG12LUCA	ASYG14LUCA
kW Class	kW			2.0	2.5	3.5	4.0
Power Source	Single phase, ~230 V, 50 Hz						
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	35/30/28/21	36/32/28/21	37/34/31/21	41/36/33/25
	Heating			35/30/28/21	36/32/28/21	37/34/31/21	41/36/34/27
Sound Power Level	Cooling	H	dB(A)	53	54	55	59
	Heating			53	54	55	59
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	570/520/470/330	600/550/470/330	660/600/530/330	710/640/570/390
	Heating			570/520/470/330	600/550/470/330	660/600/530/330	710/640/590/430
Net Dimensions	mm			282 × 870 × 185	282 × 870 × 185	282 × 870 × 185	282 × 870 × 185
Weight	kg (lbs)			9.5 (21)	9.5 (21)	9.5 (21)	9.5 (21)
Connection Pipe Diameter	Liquid/Gas	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70

Wall-mounted type



Model name	Indoor unit			ASYG18LFCA	ASYG24LFCC
kW Class	kW			5.0	7.0
Power Source	Single phase, ~230 V, 50 Hz				
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	43/37/33/26	49/42/37/33
	Heating			42/37/33/25	48/42/37/33
Sound Power Level	Cooling	H	dB(A)	58	64
	Heating			58	64
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	900/740/620/550	1,120/900/740/620
	Heating			900/740/620/550	1,100/900/740/620
Net Dimensions	mm			320 × 998 × 238	320 × 998 × 238
Weight	kg (lbs)			14 (31)	14 (31)
Connection Pipe Diameter	Liquid/Gas	mm		6.35/12.70	6.35/15.88

Compact wall-mounted



Model name	Indoor unit			ASYG07LMCE	ASYG09LMCE	ASYG12LMCE	ASYG14LMCE
kW Class	kW			2.0	2.5	3.5	4.0
Power Source	Single phase, ~230 V, 50 Hz						
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	36/32/29/21	37/33/29/21	40/36/30/21	42/38/33/25
	Heating			36/32/29/22	37/33/29/22	40/36/31/22	42/38/35/27
Sound Power Level	Cooling	H	dB(A)	51	52	54	56
	Heating			51	52	55	57
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	560/500/430/310	600/520/430/310	660/560/450/310	730/600/530/360
	Heating			560/500/430/330	600/520/430/330	660/560/470/330	730/615/560/375
Net Dimensions	mm			270 × 870 × 204	270 × 870 × 204	270 × 870 × 204	270 × 870 × 204
Weight	kg (lbs)			8.5 (19)	8.5 (19)	8.5 (19)	8.5 (19)
Connection Pipe Diameter	Liquid/Gas	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70

Floor



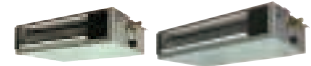
Model name	Indoor unit			AGYG09LVCA	AGYG12LVCA	AGYG14LVCA
kW Class	kW			2.5	3.5	4.0
Power Source	Single phase, ~230 V, 50 Hz					
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	39/34/28/22	42/36/30/22	44/38/31/22
	Heating			39/35/30/22	42/38/32/22	44/39/33/22
Sound Power Level	Cooling	H	dB(A)	52	55	56
	Heating			52	55	56
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	530/440/360/270	600/490/380/270	650/520/400/270
	Heating			530/460/380/270	600/510/410/270	650/540/430/270
Net Dimensions	mm			600 × 740 × 200	600 × 740 × 200	600 × 740 × 200
Weight	kg (lbs)			14 (31)	14 (31)	14 (31)
Connection Pipe Diameter	Liquid/Gas	mm		6.35/9.52	6.35/9.52	6.35/12.70

Floor ceiling

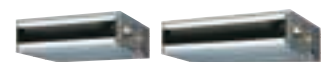

Model name	Indoor unit			ABYG14LVTA	ABYG18LVTB
kW Class		kW		4.0	5.0
Power Source	Single phase, ~230 V, 50 Hz				
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	36/34/33/29 (Under ceiling) 39/37/36/32 (Floor console)	41/38/34/32 (Under ceiling) 44/41/37/35 (Floor console)
	Heating			36/34/33/29 (Under ceiling) 39/37/36/32 (Floor console)	41/38/34/32 (Under ceiling) 44/41/37/35 (Floor console)
Sound Power Level	Cooling	H	dB(A)	51	55
	Heating			51	55
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	640/590/540/480	780/700/560/500
	Heating			640/590/540/480	780/700/560/500
Net Dimensions				mm	199 × 990 × 655
Weight				kg (lbs)	27 (60)
Connection Pipe Diameter	Liquid/Gas	mm		6.35/12.70	6.35/12.70

Compact cassette


Model name	Indoor unit			AUYG07LVLA	AUYG09LVLA	AUYG12LVLB	AUYG14LVLB	AUYG18LVLB
kW Class		kW		2.0	2.5	3.5	4.0	5.0
Power Source	Single phase, ~230 V, 50 Hz							
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	33/31/29/27	33/31/29/27	37/33/31/28	40/35/32/29	42/37/33/29
	Heating			34/32/29/27	34/32/29/27	37/33/31/28	40/37/34/29	44/40/37/30
Sound Power Level	Cooling	H	dB(A)	46	46	49	52	54
	Heating			47	47	49	52	56
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	540/490/440/390	540/490/440/390	610/530/470/410	680/580/490/410	750/610/520/410
	Heating			540/490/440/390	540/490/440/390	610/530/470/410	700/620/550/430	800/710/600/450
Net Dimensions				mm	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570
Weight				kg (lbs)	15 (33)	15 (33)	15 (33)	15 (33)
Panel	UTG-UFYD-W							
Connection Pipe Diameter	Liquid/Gas	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70	6.35/12.70

Mini duct


Model name	Indoor unit			ARYG07LSLAP	ARYG09LSLAP	ARYG12LSLAP	ARYG14LSLAP	ARYG18LSLAP
kW Class		kW		2.0	2.5	3.5	4.0	5.0
Power Source	Single phase, ~230 V, 50 Hz							
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	29/26/24/23	29/26/24/23	31/27/25/23	35/30/27/23	33/29/26/23
	Heating			29/26/24/23	29/26/24/23	31/27/25/23	35/30/27/23	33/29/26/23
Sound Power Level	Cooling	H	dB(A)	52	54	55	60	58
	Heating			53	56	57	62	59
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	550/440/390/360	600/450/400/360	650/490/430/360	800/640/530/360	940/750/540/480
	Heating			550/440/390/360	600/450/400/360	650/490/430/360	800/640/530/360	940/750/540/480
Net Dimensions				mm	198 × 700 × 450	198 × 700 × 450	198 × 700 × 450	198 × 900 × 450
Weight				kg (lbs)	15.5 (33)			18.5 (41)
Connection Pipe Diameter	Liquid/Gas	mm		6.35/9.52			6.35/12.70	
External static pressure				Pa	0 to 30			0 to 50
Drain pump	Standard							

Slim duct


Model name	Indoor unit			ARYG07LLTA	ARYG09LLTA	ARYG12LLTB	ARYG14LLTB	ARYG18LLTB
kW Class		kW		2.0	2.5	3.5	4.0	5.0
Power Source	Single phase, ~230 V, 50 Hz							
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	28/26/25/24	28/27/26/25	29/28/27/26	32/30/28/26	32/31/30/29
	Heating			28/26/25/24	28/26/25/24	29/28/27/24	33/30/28/25	33/32/31/29
Sound Power Level	Cooling	H	dB(A)	57	57	58	60	58
	Heating			57	57	58	61	59
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	550/490/470/440	600/550/500/450	650/600/550/480	800/700/600/480	940/880/820/750
	Heating			550/490/470/440	600/550/500/450	650/600/550/480	800/700/600/480	940/880/820/750
Net Dimensions				mm	198 × 700 × 620	198 × 700 × 620	198 × 700 × 620	198 × 900 × 620
Weight				kg (lbs)	17 (37)	19 (42)	19 (42)	23 (51)
Connection Pipe Diameter	Liquid/Gas	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7	6.35/12.70
External static pressure				Pa	0 to 90			
Drain pump	Standard							

2-unit Multi-split Combination Table-Cooling/Heating

2-unit Multi-split cooling

AOYG14KBTA2	Combination of Indoor Units		Cooling Operation							
			Cooling Capacity			Input Power (Min. - Max.)	EER	Seasonal Data		
			Unit 1	Unit 2	Total Capacity (Min. - Max.)			Pdesign	SEER	Energy efficiency class
			kW	kW	kW	kW				
2-unit connection	7	7	2.00	2.00	4.00 (1.4-4.6)	0.97 (0.25-1.20)	4.12	4.0	8.7	A+++
	7	9	1.75	2.25	4.00 (1.4-4.6)	0.97 (0.25-1.20)	4.12	4.0	8.7	A+++
	7	12	1.47	2.53	4.00 (1.4-4.6)	0.97 (0.25-1.20)	4.12	4.0	8.7	A+++
	9	9	2.00	2.00	4.00 (1.4-4.6)	0.97 (0.25-1.20)	4.12	4.0	8.7	A+++
	9	12	1.71	2.29	4.00 (1.4-4.6)	0.97 (0.25-1.20)	4.12	4.0	8.7	A+++

- Notes: •7: 7000 Btu/h/9: 9000 Btu/h/12: 12000 Btu/h models
- The above specifications apply when connected with a wall-mounted [KG] unit.
 - 2 or more indoor units should be connected.
 - Cooling capacity is determined based on 27°CDB/19°CWB (indoor temperature) and 35°CDB (outdoor temperature).
 - Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
 - Total capacity of indoor units connected must be between 4.0 kW and 6.0 kW.

AOYG18KBTA2	Combination of Indoor Units		Cooling Operation							
			Cooling Capacity			Input Power (Min. - Max.)	EER	Seasonal Data		
			Unit 1	Unit 2	Total Capacity (Min. - Max.)			Pdesign	SEER	Energy efficiency class
			kW	kW	kW	kW				
2-unit connection	7	7	2.00	2.00	4.00 (1.7-5.0)	0.92 (0.25-1.23)	4.35	4.0	8.8	A+++
	7	9	2.00	2.50	4.50 (1.7-5.7)	1.07 (0.25-1.45)	4.22	4.5	8.7	A+++
	7	12	1.84	3.16	5.00 (1.7-5.8)	1.24 (0.25-1.55)	4.03	5.0	8.6	A+++
	7	14	1.67	3.33	5.00 (1.7-5.8)	1.24 (0.25-1.55)	4.03	5.0	8.6	A+++
	9	9	2.50	2.50	5.00 (1.7-5.8)	1.24 (0.25-1.55)	4.03	5.0	8.6	A+++
	9	12	2.14	2.86	5.00 (1.7-5.8)	1.24 (0.25-1.55)	4.03	5.0	8.6	A+++
	9	14	1.96	3.04	5.00 (1.7-5.8)	1.24 (0.25-1.55)	4.03	5.0	8.6	A+++
	12	12	2.50	2.50	5.00 (1.7-5.8)	1.24 (0.25-1.55)	4.03	5.0	8.6	A+++
	12	14	2.31	2.69	5.00 (1.7-5.8)	1.24 (0.25-1.55)	4.03	5.0	8.6	A+++

- Notes: •7: 7000 Btu/h/9:9000 Btu/h/12: 12000 Btu/h/14: 14000 Btu/h models
- The above specifications apply when connected with a wall-mounted [KG] unit.
 - 2 or more indoor units should be connected.
 - Cooling capacity is determined based on 27°CDB/19°CWB (indoor temperature) and 35°CDB (outdoor temperature).
 - Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
 - Total capacity of indoor units connected must be between 4.0 kW and 7.5 kW.

2-unit Multi-split heating

AOYG14KBTA2	Combination of Indoor Units		Heating Operation								
			Heating Capacity			Input Power (Min. - Max.)	COP	Seasonal Data			
			Unit 1	Unit 2	Total Capacity (Min. - Max.)			Pdesign	SCOP	Energy efficiency class	
2-unit connection		7	7	2.20	2.20	4.40 (1.1-5.5)	0.95 (0.25-1.65)	4.63	3.5	4.7	A++
		7	9	1.92	2.48	4.40 (1.1-5.5)	0.95 (0.25-1.65)	4.63	3.5	4.7	A++
		7	12	1.62	2.78	4.40 (1.1-5.5)	0.95 (0.25-1.65)	4.63	3.5	4.7	A++
		9	9	2.20	2.20	4.40 (1.1-5.5)	0.95 (0.25-1.65)	4.63	3.5	4.7	A++
		9	12	1.89	2.51	4.40 (1.1-5.5)	0.95 (0.25-1.65)	4.63	3.5	4.7	A++

Notes: •7: 7000 Btu/h/9: 9000 Btu/h/12: 12000 Btu/h models

- The above specifications apply when connected with a wall-mounted [KG] unit.
- 2 or more indoor units should be connected.
- Heating capacity is determined based on 20°CDB (indoor temperature) and 7°CDB/6°CWB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- Total capacity of indoor units connected must be between 4.0 kW and 6.0 kW.

AOYG18KBTA2	Combination of Indoor Units		Heating Operation								
			Heating Capacity			Input Power (Min. - Max.)	COP	Seasonal Data			
			Unit 1	Unit 2	Total Capacity (Min. - Max.)			Pdesign	SCOP	Energy efficiency class	
2-unit connection		7	7	2.40	2.40	4.80 (1.7-5.6)	0.99 (0.25-1.35)	4.85	3.8	4.7	A++
		7	9	2.40	3.00	5.40 (1.7-6.4)	1.15 (0.25-1.60)	4.70	4.0	4.7	A++
		7	12	2.06	3.54	5.60 (1.7-7.0)	1.22 (0.25-1.80)	4.59	4.2	4.7	A++
		7	14	1.87	3.73	5.60 (1.7-7.0)	1.22 (0.25-1.80)	4.59	4.2	4.7	A++
		9	9	2.80	2.80	5.60 (1.7-7.0)	1.22 (0.25-1.80)	4.59	4.2	4.7	A++
		9	12	2.40	3.20	5.60 (1.7-7.0)	1.22 (0.25-1.80)	4.59	4.2	4.7	A++
		9	14	2.19	3.41	5.60 (1.7-7.0)	1.22 (0.25-1.80)	4.59	4.2	4.7	A++
		12	12	2.80	2.80	5.60 (1.7-7.0)	1.22 (0.25-1.80)	4.59	4.2	4.7	A++
		12	14	2.58	3.02	5.60 (1.7-7.0)	1.22 (0.25-1.80)	4.59	4.2	4.7	A++

Notes: •7: 7000 Btu/h/9:9000 Btu/h/12: 12000 Btu/h/14: 14000 Btu/h models

- The above specifications apply when connected with a wall-mounted [KG] unit.
- 2 or more indoor units should be connected.
- Heating capacity is determined based on 20°CDB (indoor temperature) and 7°CDB/6°CWB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- Total capacity of indoor units connected must be between 4.0 kW and 7.5 kW.

3-unit Multi-split Combination Table-Cooling/Heating

3-unit Multi-split cooling

AOYG18KBTA3	Combination of Indoor Units			Cooling Operation							Seasonal Data		
				Cooling Capacity				Input Power (Min. - Max.)	EER	Pdesign kW	SEER	Energy efficiency	
				Unit 1 kW	Unit 2 kW	Unit 3 kW	Total Capacity (Min. - Max.) kW						
2-unit connection	7	7	-	2.00	2.00	-	4.00 (1.8-5.0)	0.86 (0.35-1.35)	4.65	4.0	8.3	A++	
	7	9	-	2.00	2.50	-	4.50 (1.8-5.7)	1.03 (0.35-1.54)	4.36	4.5	8.2	A++	
	7	12	-	1.99	3.41	-	5.40 (1.8-6.8)	1.41 (0.35-1.85)	3.83	5.4	8.0	A++	
	7	14	-	1.80	3.60	-	5.40 (1.8-7.0)	1.41 (0.35-1.90)	3.83	5.4	8.0	A++	
	9	9	-	2.50	2.50	-	5.00 (1.8-6.4)	1.23 (0.35-1.74)	4.06	5.0	8.1	A++	
	9	12	-	2.31	3.09	-	5.40 (1.8-7.0)	1.41 (0.35-1.90)	3.83	5.4	8.0	A++	
	9	14	-	2.11	3.29	-	5.40 (1.8-7.0)	1.41 (0.35-1.90)	3.83	5.4	8.0	A++	
	12	12	-	2.70	2.70	-	5.40 (1.8-7.0)	1.41 (0.35-1.90)	3.83	5.4	8.0	A++	
3-unit connection	12	14	-	2.49	2.91	-	5.40 (1.8-7.0)	1.41 (0.35-1.90)	3.83	5.4	8.0	A++	
	14	14	-	2.70	2.70	-	5.40 (1.8-7.0)	1.41 (0.35-1.90)	3.83	5.4	8.0	A++	
	7	7	7	1.80	1.80	1.80	5.40 (1.8-7.0)	1.13 (0.35-1.90)	4.78	5.4	8.6	A+++	
	7	7	9	1.64	1.64	2.12	5.40 (1.8-7.0)	1.13 (0.35-1.90)	4.78	5.4	8.6	A+++	
	7	7	12	1.45	1.45	2.50	5.40 (1.8-7.0)	1.13 (0.35-1.90)	4.78	5.4	8.6	A+++	
	7	7	14	1.35	1.35	2.70	5.40 (1.8-7.0)	1.13 (0.35-1.90)	4.78	5.4	8.6	A+++	
	7	9	9	1.52	1.94	1.94	5.40 (1.8-7.0)	1.13 (0.35-1.90)	4.78	5.4	8.6	A+++	
	7	9	12	1.35	1.74	2.31	5.40 (1.8-7.0)	1.13 (0.35-1.90)	4.78	5.4	8.6	A+++	
	7	9	14	1.26	1.62	2.52	5.40 (1.8-7.0)	1.13 (0.35-1.90)	4.78	5.4	8.6	A+++	
9	9	9	1.80	1.80	1.80	5.40 (1.8-7.0)	1.13 (0.35-1.90)	4.78	5.4	8.6	A+++		
9	9	12	1.62	1.62	2.16	5.40 (1.8-7.0)	1.13 (0.35-1.90)	4.78	5.4	8.6	A+++		

AOYG24KBTA3	Combination of Indoor Units			Cooling Operation							Seasonal Data		
				Cooling Capacity				Input Power (Min. - Max.)	EER	Pdesign kW	SEER	Energy efficiency	
				Unit 1 kW	Unit 2 kW	Unit 3 kW	Total Capacity (Min. - Max.) kW						
2-unit connection	7	7	-	2.00	2.00	-	4.00 (1.8-5.0)	0.86 (0.35-1.35)	4.65	4.0	8.3	A++	
	7	9	-	2.00	2.50	-	4.50 (1.8-5.7)	1.03 (0.35-1.54)	4.36	4.5	8.2	A++	
	7	12	-	2.00	3.50	-	5.50 (1.8-6.8)	1.46 (0.35-1.85)	3.77	5.5	8.0	A++	
	7	14	-	2.00	4.00	-	6.00 (1.8-7.5)	1.73 (0.35-2.20)	3.48	6.0	7.6	A++	
	7	18	-	1.90	4.90	-	6.80 (1.8-8.5)	2.26 (0.35-2.65)	3.01	6.8	6.9	A++	
	9	9	-	2.50	2.50	-	5.00 (1.8-6.4)	1.23 (0.35-1.74)	4.06	5.0	8.1	A++	
	9	12	-	2.50	3.50	-	6.00 (1.8-7.5)	1.73 (0.35-2.20)	3.48	6.0	7.6	A++	
	9	14	-	2.50	4.00	-	6.50 (1.8-8.2)	2.04 (0.35-2.46)	3.19	6.5	7.2	A++	
	9	18	-	2.27	4.53	-	6.80 (1.8-8.5)	2.26 (0.35-2.65)	3.01	6.8	6.9	A++	
	12	12	-	3.40	3.40	-	6.80 (1.8-8.5)	2.26 (0.35-2.65)	3.01	6.8	6.9	A++	
	12	14	-	3.14	3.66	-	6.80 (1.8-8.5)	2.26 (0.35-2.65)	3.01	6.8	6.9	A++	
	12	18	-	2.72	4.08	-	6.80 (1.8-8.5)	2.26 (0.35-2.65)	3.01	6.8	6.9	A++	
	14	14	-	3.40	3.40	-	6.80 (1.8-8.5)	2.26 (0.35-2.65)	3.01	6.8	6.9	A++	
	14	18	-	2.98	3.82	-	6.80 (1.8-8.5)	2.26 (0.35-2.65)	3.01	6.8	6.9	A++	
3-unit connection	7	7	7	2.00	2.00	2.00	6.00 (1.8-7.5)	1.37 (0.35-2.20)	4.37	6.0	8.6	A+++	
	7	7	9	2.00	2.00	2.50	6.50 (1.8-8.2)	1.59 (0.35-2.46)	4.08	6.5	8.5	A+++	
	7	7	12	1.83	1.83	3.14	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++	
	7	7	14	1.70	1.70	3.40	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++	
	7	7	18	1.49	1.49	3.82	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++	
	7	9	9	1.90	2.45	2.45	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++	
	7	9	12	1.70	2.19	2.91	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++	
	7	9	14	1.59	2.04	3.17	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++	
	7	9	18	1.40	1.80	3.60	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++	
	7	12	12	1.54	2.63	2.63	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++	
	7	12	14	1.44	2.47	2.89	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++	
	7	14	14	1.36	2.72	2.72	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++	
	9	9	9	2.27	2.27	2.27	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++	
	9	9	12	2.04	2.04	2.72	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++	
	9	9	14	1.91	1.91	2.98	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++	
	9	9	18	1.70	1.70	3.40	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++	
	9	12	12	1.86	2.47	2.47	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++	
	9	12	14	1.75	2.33	2.72	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++	
12	12	12	2.27	2.27	2.27	6.80 (1.8-8.5)	1.74 (0.35-2.65)	3.90	6.8	8.5	A+++		

- Notes: •7: 7000 Btu/h/9: 9000 Btu/h/12: 12000 Btu/h/14: 14000 Btu/h/18: 18000 Btu/h models
 •The above specifications apply when connected with a wall-mounted unit.
 •2 or more indoor units should be connected.
 •Cooling capacity is determined based on 27°CDB/19°CWB (indoor temperature) and 35°CDB (outdoor temperature).
 •Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
 •Total capacity of indoor units connected must be between 4.0 kW and 10.5 kW.

3-unit Multi-split heating

AOYG18KBTA3	Combination of Indoor Units			Heating Operation								
				Heating Capacity				Input Power (Min. - Max.)	COP	Seasonal Data		
				Unit 1 kW	Unit 2 kW	Unit 3 kW	Total Capacity (Min. - Max.) kW			Pdesign kW	SCOP	Energy efficiency
2-unit connection	7	7	-	2.40	2.40	-	4.80 (2.0-5.6)	1.00 (0.25-1.30)	4.80	4.0	4.2	A+
	7	9	-	2.40	3.00	-	5.40 (2.0-6.4)	1.21 (0.25-1.48)	4.45	4.0	4.2	A+
	7	12	-	2.40	4.20	-	6.60 (2.0-7.6)	1.66 (0.25-1.76)	3.98	5.0	4.0	A+
	7	14	-	2.27	4.53	-	6.80 (2.0-8.0)	1.77 (0.25-1.85)	3.84	5.0	4.0	A+
	9	9	-	3.00	3.00	-	6.00 (2.0-7.2)	1.44 (0.25-1.67)	4.17	4.5	4.1	A+
	9	12	-	2.91	3.89	-	6.80 (2.0-8.0)	1.77 (0.25-1.85)	3.84	5.0	4.0	A+
	9	14	-	2.66	4.14	-	6.80 (2.0-8.0)	1.77 (0.25-1.85)	3.84	5.0	4.0	A+
	12	12	-	3.40	3.40	-	6.80 (2.0-8.0)	1.77 (0.25-1.85)	3.84	5.0	4.0	A+
	12	14	-	3.14	3.66	-	6.80 (2.0-8.0)	1.77 (0.25-1.85)	3.84	5.0	4.0	A+
3-unit connection	14	14	-	3.40	3.40	-	6.80 (2.0-8.0)	1.77 (0.25-1.85)	3.84	5.0	4.0	A+
	7	7	7	2.27	2.27	2.27	6.80 (2.0-8.0)	1.39 (0.25-1.85)	4.89	5.0	4.7	A++
	7	7	9	2.07	2.07	2.66	6.80 (2.0-8.0)	1.39 (0.25-1.85)	4.89	5.0	4.7	A++
	7	7	12	1.83	1.83	3.14	6.80 (2.0-8.0)	1.39 (0.25-1.85)	4.89	5.0	4.7	A++
	7	7	14	1.70	1.70	3.40	6.80 (2.0-8.0)	1.39 (0.25-1.85)	4.89	5.0	4.7	A++
	7	9	9	1.90	2.45	2.45	6.80 (2.0-8.0)	1.39 (0.25-1.85)	4.89	5.0	4.7	A++
	7	9	12	1.70	2.19	2.91	6.80 (2.0-8.0)	1.39 (0.25-1.85)	4.89	5.0	4.7	A++
	7	9	14	1.59	2.04	3.17	6.80 (2.0-8.0)	1.39 (0.25-1.85)	4.89	5.0	4.7	A++
	9	9	9	2.27	2.27	2.27	6.80 (2.0-8.0)	1.39 (0.25-1.85)	4.89	5.0	4.7	A++
9	9	12	2.04	2.04	2.72	6.80 (2.0-8.0)	1.39 (0.25-1.85)	4.89	5.0	4.7	A++	

AOYG24KBTA3	Combination of Indoor Units			Heating Operation								
				Heating Capacity				Input Power (Min. - Max.)	COP	Seasonal Data		
				Unit 1 kW	Unit 2 kW	Unit 3 kW	Total Capacity (Min. - Max.) kW			Pdesign kW	SCOP	Energy efficiency
2-unit connection	7	7	-	2.40	2.40	-	4.80 (2.0-5.6)	1.00 (0.25-1.30)	4.80	4.0	4.2	A+
	7	9	-	2.40	3.00	-	5.40 (2.0-6.4)	1.21 (0.25-1.48)	4.45	4.0	4.2	A+
	7	12	-	2.40	4.20	-	6.60 (2.0-7.6)	1.66 (0.25-1.76)	3.98	5.0	4.0	A+
	7	14	-	2.40	4.80	-	7.20 (2.0-8.4)	1.86 (0.25-2.07)	3.87	5.4	4.0	A+
	7	18	-	2.16	5.54	-	7.70 (2.0-9.2)	2.01 (0.25-2.35)	3.83	5.8	4.0	A+
	9	9	-	3.00	3.00	-	6.00 (2.0-7.2)	1.44 (0.25-1.67)	4.17	4.5	4.1	A+
	9	12	-	3.00	4.20	-	7.20 (2.0-8.4)	1.86 (0.25-2.07)	3.87	5.4	4.0	A+
	9	14	-	2.96	4.74	-	7.70 (2.0-9.2)	2.01 (0.25-2.35)	3.83	5.8	4.0	A+
	9	18	-	2.57	5.13	-	7.70 (2.0-9.2)	2.01 (0.25-2.35)	3.83	5.8	4.0	A+
	12	12	-	3.85	3.85	-	7.70 (2.0-9.2)	2.01 (0.25-2.35)	3.83	5.8	4.0	A+
	12	14	-	3.55	4.15	-	7.70 (2.0-9.2)	2.01 (0.25-2.35)	3.83	5.8	4.0	A+
	12	18	-	3.08	4.62	-	7.70 (2.0-9.2)	2.01 (0.25-2.35)	3.83	5.8	4.0	A+
	14	14	-	3.85	3.85	-	7.70 (2.0-9.2)	2.01 (0.25-2.35)	3.83	5.8	4.0	A+
	14	18	-	3.37	4.33	-	7.70 (2.0-9.2)	2.01 (0.25-2.35)	3.83	5.8	4.0	A+
3-unit connection	7	7	7	2.40	2.40	2.40	7.20 (2.0-8.4)	1.61 (0.25-2.07)	4.48	5.4	4.7	A++
	7	7	9	2.40	2.40	3.00	7.80 (2.0-9.2)	1.76 (0.25-2.35)	4.42	5.8	4.6	A++
	7	7	12	2.15	2.15	3.70	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++
	7	7	14	2.00	2.00	4.00	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++
	7	7	18	1.75	1.75	4.50	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++
	7	9	9	2.24	2.88	2.88	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++
	7	9	12	2.00	2.57	3.43	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++
	7	9	14	1.87	2.40	3.73	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++
	7	9	18	1.65	2.12	4.23	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++
	7	12	12	1.80	3.10	3.10	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++
	7	12	14	1.70	2.91	3.39	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++
	7	14	14	1.60	3.20	3.20	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++
	9	9	9	2.67	2.67	2.67	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++
	9	9	12	2.40	2.40	3.20	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++
	9	9	14	2.25	2.25	3.50	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++
	9	9	18	2.00	2.00	4.00	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++
	9	12	12	2.18	2.91	2.91	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++
	9	12	14	2.06	2.74	3.20	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++
12	12	12	2.67	2.67	2.67	8.00 (2.0-9.2)	1.82 (0.25-2.35)	4.40	6.0	4.6	A++	

Notes: •7: 7000 Btu/h/9: 9000 Btu/h/12: 12000 Btu/h/14: 14000 Btu/h/18: 18000 Btu/h models

•The above specifications apply when connected with a wall-mounted unit.

•2 or more indoor units should be connected.

•Heating capacity is determined based on 20°CDB (indoor temperature) and 7°CDB/6°CWB (outdoor temperature).

•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)

•Total capacity of indoor units connected must be between 4.0 kW and 10.5 kW.

6-unit Multi-split Multi Combination Table-Cooling/Heating

6-unit Multi-split cooling

AOYG45LBLA6	Combination of Indoor Units						Cooling Operation					EER		
							Cooling Capacity						Input Power (Min. - Max.)	
							Unit 1 kW	Unit 2 kW	Unit 3 kW	Unit 4 kW	Unit 5 kW			Unit 6 kW
7	7	7	7	7	7	2.00	2.00	2.00	2.00	2.00	2.00	12.0 (3.5-13.4)	3.32 (0.8-4.46)	3.61
7	7	7	7	7	9	2.00	2.00	2.00	2.00	2.00	2.50	12.5 (3.5-14.0)	3.57 (0.8-4.84)	3.50
7	7	7	7	7	12	1.86	1.86	1.86	1.86	1.86	3.20	12.5 (3.5-14.0)	3.55 (0.8-4.84)	3.52
7	7	7	7	7	14	1.79	1.79	1.79	1.79	1.79	3.55	12.5 (3.5-14.0)	3.54 (0.8-4.84)	3.53
7	7	7	7	7	18	1.65	1.65	1.65	1.65	1.65	4.25	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
7	7	7	7	7	24	1.48	1.48	1.48	1.48	1.48	5.10	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
7	7	7	7	9	9	1.90	1.90	1.90	1.90	2.45	2.45	12.5 (3.5-14.0)	3.56 (0.8-4.84)	3.51
7	7	7	7	9	12	1.79	1.79	1.79	1.79	2.29	3.05	12.5 (3.5-14.0)	3.54 (0.8-4.84)	3.53
7	7	7	7	9	14	1.72	1.72	1.72	1.72	2.20	3.42	12.5 (3.5-14.0)	3.53 (0.8-4.84)	3.54
7	7	7	7	9	18	1.59	1.59	1.59	1.59	2.05	4.09	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
7	7	7	7	9	24	1.43	1.43	1.43	1.43	1.85	4.93	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
7	7	7	7	12	12	1.68	1.68	1.68	1.68	2.89	2.89	12.5 (3.5-14.0)	3.52 (0.8-4.84)	3.55
7	7	7	7	12	14	1.62	1.62	1.62	1.62	2.78	3.24	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
7	7	7	7	12	18	1.51	1.51	1.51	1.51	2.59	3.87	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
7	7	7	7	14	14	1.56	1.56	1.56	1.56	3.13	3.13	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
7	7	7	7	14	18	1.46	1.46	1.46	1.46	2.92	3.74	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
7	7	7	9	9	9	1.82	1.82	1.82	2.34	2.34	2.34	12.5 (3.5-14.0)	3.55 (0.8-4.84)	3.52
7	7	7	9	9	12	1.72	1.72	1.72	2.21	2.21	2.92	12.5 (3.5-14.0)	3.53 (0.8-4.84)	3.54
7	7	7	9	9	14	1.65	1.65	1.65	2.12	2.12	3.31	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
7	7	7	9	9	18	1.54	1.54	1.54	1.97	1.97	3.94	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
7	7	7	9	12	12	1.62	1.62	1.62	2.08	2.78	2.78	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
7	7	7	9	12	14	1.56	1.56	1.56	2.01	2.68	3.13	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
7	7	7	9	12	18	1.46	1.46	1.46	1.88	2.50	3.74	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
7	7	7	9	14	14	1.51	1.51	1.51	1.93	3.02	3.02	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
7	7	7	12	12	12	1.54	1.54	1.54	2.63	2.63	2.63	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
7	7	7	12	12	14	1.48	1.48	1.48	2.54	2.54	2.98	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
7	7	7	12	14	14	1.43	1.43	1.43	2.47	2.87	2.87	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
7	7	9	9	9	9	1.75	1.75	2.25	2.25	2.25	2.25	12.5 (3.5-14.0)	3.53 (0.8-4.84)	3.54
7	7	9	9	9	12	1.65	1.65	2.12	2.12	2.12	2.84	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
7	7	9	9	9	14	1.59	1.59	2.05	2.05	2.05	3.17	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
7	7	9	9	9	18	1.48	1.48	1.91	1.91	1.91	3.81	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
7	7	9	9	12	12	1.56	1.56	2.01	2.01	2.68	2.68	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
7	7	9	9	12	14	1.51	1.51	1.94	1.94	2.59	3.01	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
7	7	9	9	12	18	1.41	1.41	1.81	1.81	2.42	3.64	12.5 (3.5-14.0)	3.46 (0.8-4.84)	3.61
7	7	9	9	14	14	1.46	1.46	1.88	1.88	2.91	2.91	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
7	7	9	12	12	12	1.48	1.48	1.92	2.54	2.54	2.54	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
7	7	9	12	12	14	1.43	1.43	1.85	2.46	2.46	2.87	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
7	7	12	12	12	12	1.41	1.41	2.42	2.42	2.42	2.42	12.5 (3.5-14.0)	3.46 (0.8-4.84)	3.61
7	9	9	9	9	9	1.70	2.16	2.16	2.16	2.16	2.16	12.5 (3.5-14.0)	3.52 (0.8-4.84)	3.55
7	9	9	9	9	12	1.59	2.05	2.05	2.05	2.05	2.71	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
7	9	9	9	9	14	1.54	1.97	1.97	1.97	1.97	3.08	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
7	9	9	9	12	12	1.50	1.94	1.94	1.94	2.59	2.59	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
7	9	9	9	12	14	1.46	1.88	1.88	1.88	2.50	2.90	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
7	9	9	12	12	12	1.44	1.84	1.84	2.46	2.46	2.46	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
9	9	9	9	9	9	2.08	2.08	2.08	2.08	2.08	2.08	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
9	9	9	9	9	12	1.97	1.97	1.97	1.97	2.65	2.65	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
9	9	9	9	12	12	1.88	1.88	1.88	1.88	2.49	2.49	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60





















- Notes:
- 7: 7000 Btu/h/9: 9000 Btu/h/12: 12000 Btu/h/14: 14000 Btu/h/18: 18000 Btu/h/24: 24000 Btu/h models
 - The above specifications apply when connected with a wall-mounted unit.
 - 2 or more indoor units should be connected.
 - Cooling capacity is determined based on 27°CDB/19°CWB (indoor temperature) and 35°CDB (outdoor temperature).
 - Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
 - Total capacity of indoor units connected must be between 9.5 kW and 18.0 kW.

6-unit Multi-split heating

AOYG45LBLA6	Combination of Indoor Units	Heating Operation									
		Heating Capacity						Total Capacity (Min. - Max.)	Input Power (Min. - Max.)	COP	
		Unit 1 kW	Unit 2 kW	Unit 3 kW	Unit 4 kW	Unit 5 kW	Unit 6 kW				
7 7 7 7 7 7	2.20	2.20	2.20	2.20	2.20	2.20	13.2 (3.5-15.3)	3.28 (0.7-4.20)	4.02		
7 7 7 7 7 9	2.15	2.15	2.15	2.15	2.15	2.15	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 7 7 12	2.01	2.01	2.01	2.01	2.01	3.45	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 7 7 14	1.93	1.93	1.93	1.93	1.93	3.85	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 7 7 18	1.78	1.78	1.78	1.78	1.78	4.60	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 7 7 24	1.60	1.60	1.60	1.60	1.60	5.50	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 7 9 9	2.05	2.05	2.05	2.05	2.65	2.65	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 7 9 12	1.93	1.93	1.93	1.93	2.48	3.30	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 7 9 14	1.85	1.85	1.85	1.85	2.38	3.72	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 7 9 18	1.72	1.72	1.72	1.72	2.21	4.41	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 7 9 24	1.55	1.55	1.55	1.55	1.99	5.31	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 7 12 12	1.82	1.82	1.82	1.82	3.11	3.11	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 7 12 14	1.75	1.75	1.75	1.75	3.00	3.50	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 7 12 18	1.63	1.63	1.63	1.63	2.79	4.19	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 7 14 14	1.69	1.69	1.69	1.69	3.37	3.37	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 7 14 18	1.58	1.58	1.58	1.58	3.15	4.03	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 9 9 9	1.97	1.97	1.97	2.53	2.53	2.53	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 9 9 12	1.85	1.85	1.85	2.38	2.38	3.19	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 9 9 14	1.78	1.78	1.78	2.29	2.29	3.58	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 9 9 18	1.66	1.66	1.66	2.13	2.13	4.26	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 9 12 12	1.75	1.75	1.75	2.25	3.00	3.00	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 9 12 14	1.69	1.69	1.69	2.17	2.89	3.37	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 9 12 18	1.58	1.58	1.58	2.03	2.70	4.03	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 9 14 14	1.63	1.63	1.63	2.09	3.26	3.26	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 12 12 14	1.66	1.66	1.66	2.84	2.84	2.84	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 12 12 14	1.60	1.60	1.60	2.75	2.75	3.20	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 7 12 14 14	1.55	1.55	1.55	2.65	3.10	3.10	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 9 9 9 9	1.89	1.89	2.43	2.43	2.43	2.43	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 9 9 9 12	1.78	1.78	2.29	2.29	2.29	3.07	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 9 9 9 14	1.72	1.72	2.21	2.21	2.21	3.43	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 9 9 9 18	1.60	1.60	2.06	2.06	2.06	4.12	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 9 9 12 12	1.69	1.69	2.17	2.17	2.89	2.89	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 9 9 12 14	1.63	1.63	2.09	2.09	2.79	3.27	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 9 9 12 18	1.52	1.52	1.96	1.96	2.61	3.93	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 9 9 14 14	1.58	1.58	2.03	2.03	3.14	3.14	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 9 12 12 12	1.60	1.60	2.05	2.75	2.75	2.75	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 9 12 12 14	1.55	1.55	1.99	2.66	2.66	3.09	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 7 12 12 12 12	1.53	1.53	2.61	2.61	2.61	2.61	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 9 9 9 9 9	1.80	2.34	2.34	2.34	2.34	2.34	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 9 9 9 9 12	1.72	2.21	2.21	2.21	2.21	2.94	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 9 9 9 9 14	1.66	2.13	2.13	2.13	2.13	3.32	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 9 9 9 9 12	1.65	2.09	2.09	2.09	2.79	2.79	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 9 9 9 9 12	1.58	2.03	2.03	2.03	2.69	3.14	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
7 9 9 12 12 12	1.54	1.99	2.66	2.66	2.66	2.66	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
9 9 9 9 9 9	2.25	2.25	2.25	2.25	2.25	2.25	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
9 9 9 9 9 12	2.13	2.13	2.13	2.13	2.13	2.85	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		
9 9 9 9 9 12	2.03	2.03	2.03	2.03	2.69	2.69	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00		

- Notes:
- 7: 7000 Btu/h/9: 9000 Btu/h/12: 12000 Btu/h/14: 14000 Btu/h/18: 18000 Btu/h/24: 24000 Btu/h models
 - The above specifications apply when connected with a wall-mounted unit.
 - 2 or more indoor units should be connected.
 - Heating capacity is determined based on 20°CDB (indoor temperature) and 7°CDB/6°CWB (outdoor temperature).
 - Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
 - Total capacity of indoor units connected must be between 7.5 kW and 15.5 kW.

Feature Summary

Type		Wall-mounted type						Cassette	
Series	Designer Series	Standard Series		Designer Series	Standard Series		Compact 4-way Flow Grid type Series		
Model name									
Refrigerant	ASYG 07/09/12/14 KGTF	ASYG 07/09/12/14 KETF, ASYG 07/09/12/14 KETF-B	ASYG 07/09/12/14 KMCF	ASYG 18/22/24 KMTE	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG18LFCA, ASYG24LFCC	AUXG 07/09/12/ 14/18/22/24 KVLA	
Energy-saving Features	 Save Occupancy sensor	●							
	 Economy operation	●	●	●	●	●	●	●	
	 Setting temperature range limitation	○	○	○	○	○	○	○	
	 Set temperature auto return	○	○	○	○	○	○	●	
Features for Comfort	 Power diffuser					●	●		
	 Powerful operation	●	●	●	●				
	 10°C Heat	●	●	●	●	●	●	●	
	 Outdoor unit low noise operation	●	●	●	●				
	 Auto changeover	●	●	●	●	●	●	●	
	 UP/DOWN swing louver	●	●	●		●	●	●	
	 Double swing automatic				●		●		
	 Automatic fan speed	●	●	●	●	●	●	●	
	 Auto restart	●	●	●	●	●	●	●	
	 Connectable fresh air duct								
	 Fresh air intake							○	
	 Connectable distributing duct								
	Convenience Features	 Auto-off timer	○	○	○	○	○	○	●
		 Sleep timer	●	●	●	●	●	●	●
 Program timer		●	●	●	●	●	●	●	
 Weekly timer		●	●	○	●	●	●	●	
 Weekly & Temperature setback timer		○	○	○	○	○	○	○	
 Filter sign		●	●	●	●	●	●	●	
 External error output		○	○	○	○	○	○		
 External ON/OFF input		○	○	○	○	○	○	●	
Clean Features	 Wireless LAN control	●	●	●	○	○	○	○	
	 Ion deodorization filter	●	●	●	●	●	●		
	 Apple-catechin filter	●	●	●	●	●	●		
	 Long-life filter								
	 Washable panel	●	●	●	●		●	●	
Installation	 Silver Ion Filter	○	○	○	○	○	○	○	
	 Drain pump as standard							●	
	 Blue fin						●		

Cassette		Duct						Floor		Floor/Ceiling	Ceiling	
Compact 4-way Flow Series	4-way Flow Series	Mini (With drain pump)		Slim (With drain pump)		Medium Static Pressure						
AUYG 07/09LVLA, AUYG 12/14/18LVLB, AUYG 22/24LVLA	AUYG 30/36LRLE, AUYG 36/45LRLA	ARXG 07/09/12/14/18 KSLAP	ARYG 07/09/12/14/18 LSLAP	ARXG 07/09/12/14/18 KLLAP	ARYG 07/09/12/14/18 LLTB	ARXG22KMLB, ARXG24KMLA	ARYG 24/36/45 LMLA, ARYG 30/36LMLE	AGYG 09/12/14 KVCA	AGYG 09/12/14 LVCA	ABYG 14/22/24 LVTA, ABYG18LVTB	ABYG 18/22KRTA	ABYG 30/36LRTE, ABYG 36/45LRTA
●	●	●	●	●	●	●	●	●	●	●	●	●
○	○	●	●	○	○	○	○	○	○	○	●	○
○	○	●	●	●	○	●	○	○	○	○	●	○
●	○	○	○	○	○	○	○	●	●	●	○	●
●	●	●	●	●	●	●	○ (45) (36LMLA)	●	●	●	○	○ (45/54) (36LRTA)
●	●	●	●	●	●	●	●	●	●	●	●	●
●	●	●	●	●	●	●	●	●	●	●	●	●
○	●					●	●				●	●
○	○			○	○	○	○				○	○
						●	●					
○	○	●	●	●	○	●	○	○	○	○	●	○
●	○	○	○	○	○	○	○	●	●	●	○	●
●	●	●	●	●	●	●	●	●	●	●	●	●
○	●	○	○	○	○	○	○	○	○	○	○	○
○	○	○	○	○	○	○	○	○	○	○	○	○
								●	●			
						○	○	●	●			
○	○	○	○	○	○	○	○	○	○			
●	●	●	●	●	●	○	○				○	○
	● (45/54)						● (45)				● (30/36/45/54)	● (45)

○ : Optional function

Light Commercial & Commercial, Residential VRF

VRF systems provide air conditioning solutions that meet the requirements of a diverse range of buildings.

VRF systems provide air conditioning solutions for large residences as well as large commercial buildings.

- V-002 VRF J Series Overview
- V-004 VRF V Series Overview
- V-006 VRF Outdoor Units Lineup
- V-008 Features

VRF Outdoor Units



VRF J Series Heat Pump for Small-Capacity Type

- V-022 VRF J-IVL
- V-028 VRF J-IV
- V-032 VRF J-IVS



VRF V Series Heat Recovery Modular Type

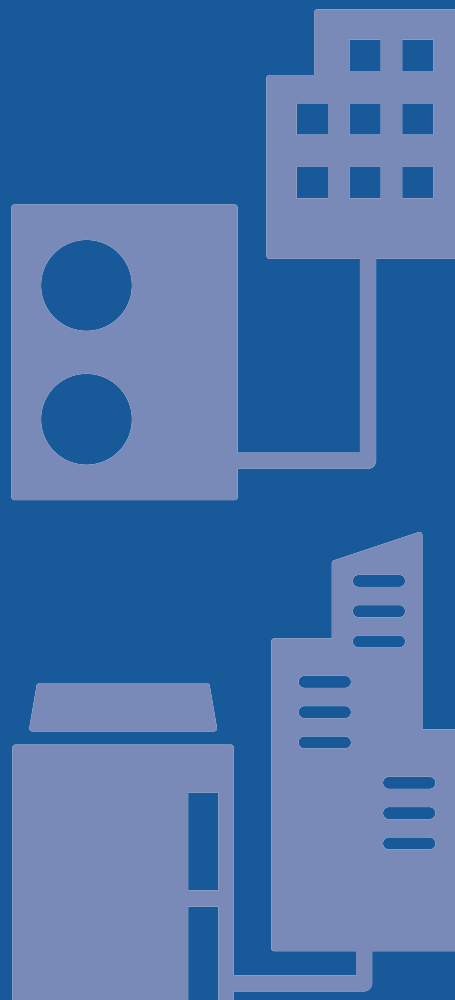
- V-036 VRF VR-IV

Heat Pump Modular Type

- V-046 VRF V-IV

VRF INDOOR UNITS

- V-054 VRF Indoor Units Lineup
- V-056 VRF Indoor Units





VRF

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 J Series Overview

Fujitsu General provides air conditioning systems for a wide range of applications, from residences, small offices, hotels, to large retailers.





Maximum 18 HP Heat Pump

VRF J-IVL

J-IVL is an outdoor unit with a slim design. Its flexibility in installation makes it ideal for midsize office buildings and hotels. With the newly added 14/16/18 HP models, up to 42 indoor units* are connectable, making them ideal for hospitals and educational facilities with many rooms.

*: 18 HP model

Slim Outdoor Unit

Although the new 14/16/18 HP models support slightly higher capacities, they have a slim depth of just 480 mm. This means they can be installed even in tight spaces.

Small room application

The optimum heat exchanger structure allows up to 20-42 indoor units to be connected to an outdoor unit, easily accommodating a number of small rooms

Class-leading Low Operating Sound

The top-class low operating noise makes it ideal for use in densely populated areas.



8/10/12 HP models

14/16/18 HP models

*Actual product's design may be different from the images.

Maximum 6 HP Heat Pump

VRF J-IV

J-IV is connectable with up to 14 indoor units, making it suitable for commercial facilities housing a number of small stores.

High energy efficiency

Heat pump inverter control achieves efficient cooling and heating operation for any combination of indoor units.

Flexible system configuration for small and midsize buildings

The space saving design and long pipe connection enable flexible installation on the roof or balcony of a small or midsize building. Multiple indoor units of various capacities and types can be connected.



Maximum 6 HP Heat Pump, Compact Design

VRF J-IVS

The 998 mm compact design does not obstruct the view even when installed underneath a waist-high window, ideal for large houses and retail stores.

Spaces 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, despite the compact size.

Flexible system configuration for homes, stores, and small buildings

The compact size and flexible pipe design make the J-IVS Series an ideal choice for installation in tight spaces in residences, stores, and small offices. Multiple indoor units of various capacities and types can be connected.



VRF V Series Overview

VRF V provides air conditioning solutions for large residences as well as large commercial buildings.



Maximum 48 HP Heat Recovery

VRF VR-IV

Smart, cutting-edge design
Extensive lineup from 8 HP to 48 HP
with the capacity ratio of indoor units connectable up to 150%.

Simultaneous cooling and heating operation using a single refrigerant system

Cooling and heating operations can be selected individually for each indoor unit to provide a comfortable room environment in each room by accommodating widely varying temperatures requirements.

Annual cooling operation

Choose the annual cooling option for rooms and other spaces that require constant temperature control throughout the year.

Accommodating changes in temperature difference

When there are large temperature differences during the day, such as with the change of seasons, the operation mode can be readily changed between heating and cooling.



Maximum 48 HP Heat Pump

VRF V-IV

Smart, cutting-edge design
Available in a wide range of models from 8 to 48 HP in 2 HP increments with the capacity ratio of indoor units connectable up to 150%.

Excellent energy saving

The inverter heat pump model achieves high energy savings for individual cooling or heating operation by making full use of inverter technology to achieve seasonal efficiency.

































High design flexibility for placement in any building

















































Superb design flexibility meets the diverse installation needs of high-rise buildings for air conditioners, such as a concentrated rooftop installation of outdoor units combined with individual floor installation of indoor units. This flexibility is achieved by large-capacity combination, ample connection capacity, and high static pressure design.

Easy installation and maintenance

The flexible communication method and pipe connections make installation and maintenance easy—even for large systems.

VRF Outdoor Units Lineup

Capacity (kW)		12.1	14.0	15.1-15.5	22.4	28.0	33.5	40.0	45.0	50.0-50.4	55.9	61.5
HP		4	5	6	8	10	12	14	16	18	20	22
J-IVL Series												
					AJY072 LELDH	AJY090 LELDH	AJY108 LELDH	AJY126 LELDH	AJY144 LELDH	AJY162 LELDH		
J-IV Series												
		AJY040 LBLDH, AJY040 LELDH	AJY045 LBLDH, AJY045 LELDH	AJY054 LBLDH, AJY054 LELDH								
J-IVS Series												
		AJY040 LCLDH	AJY045 LCLDH	AJY054 LCLDH								
VR-IV Series Heat Recovery	Space Saving											
	Set Model				AJY072 GALDH	AJY090 GALDH	AJY108 GALDH	AJY126 GALDH	AJY144 GALDH	AJY162 GALDH	AJY180 GALDH	AJY198 GALDH
	Energy Efficiency											
	Set Model								AJY144 GALDHH			AJY198 GALDHH
V-IV Series Heat Pump	Space Saving											
	Set Model				AJY072 LALDH	AJY090 LALDH	AJY108 LALDH	AJY126 LALDH	AJY144 LALDH	AJY162 LALDH	AJY180 LALDH	AJY198 LALDH
	Energy Efficiency											
	Set Model								AJY144 LALDHH		AJY180 LALDHH	

	67.0 24	73.5 26	78.5 28	85.0 30	90.0 32	95.0 34	100.5 36	107.0 38	112.0 40	118.5 42	123.5 44	130.0 46	135.0 48
													
	AJY216 GALDH	AJY234 GALDH	AJY252 GALDH	AJY270 GALDH	AJY288 GALDH	AJY306 GALDH	AJY324 GALDH	AJY342 GALDH	AJY360 GALDH	AJY378 GALDH	AJY396 GALDH	AJY414 GALDH	AJY432 GALDH
													
	AJY216 GALDHH	AJY234 GALDHH	AJY252 GALDHH	AJY270 GALDHH	AJY288 GALDHH	AJY306 GALDHH	AJY324 GALDHH	AJY342 GALDHH	AJY360 GALDHH	AJY378 GALDHH	AJY396 GALDHH		
													
	AJY216 LALDH	AJY234 LALDH	AJY252 LALDH	AJY270 LALDH	AJY288 LALDH	AJY306 LALDH	AJY324 LALDH	AJY342 LALDH	AJY360 LALDH	AJY378 LALDH	AJY396 LALDH	AJY414 LALDH	AJY432 LALDH
													
	AJY216 LALDHH	AJY234 LALDHH	AJY252 LALDHH	AJY270 LALDHH	AJY288 LALDHH	AJY306 LALDHH	AJY324 LALDHH	AJY342 LALDHH	AJY360 LALDHH	AJY378 LALDHH	AJY396 LALDHH		

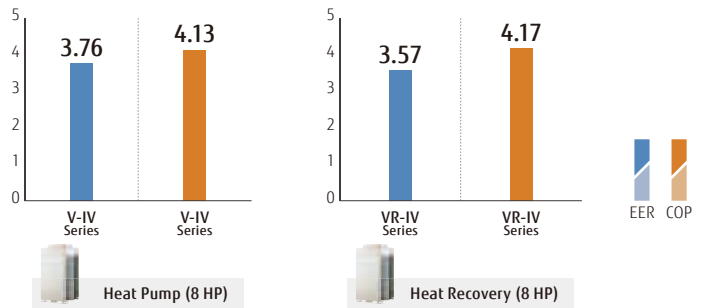
Features

High-efficiency

High-efficiency is achieved significantly by the use of a DC twin-rotary compressor, inverter technology, and a 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 the VRF Series, including the J-IVL Series, have DC technology to achieve high-efficiency operation. This enhances the durability and reliability of the VRF Series.



J-IVL Series

J-IV Series

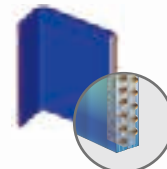
J-IVS Series



1 DC fan motor



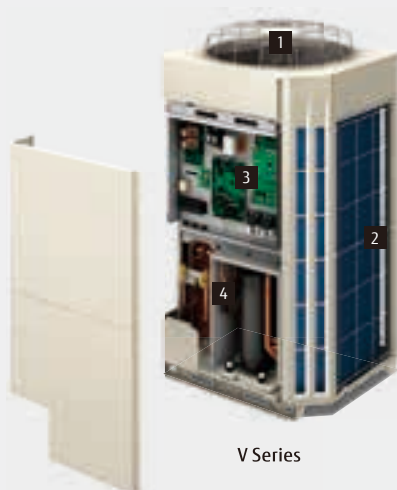
3 DC inverter control



2 Large heat exchanger



4 Subcooling heat exchanger



V Series



1 3-phase DC fan motor



3 Sine-wave DC inverter control



2 Large heat exchanger



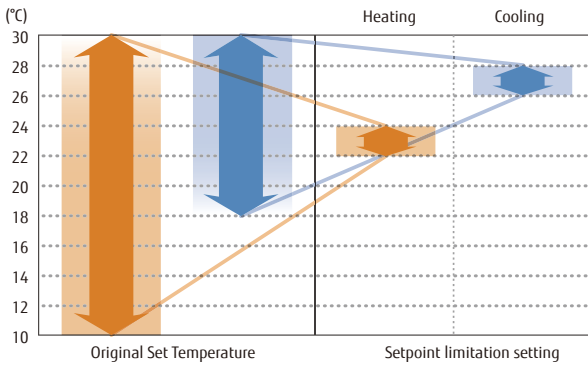
4 Subcooling heat exchanger

Efficient control of operation



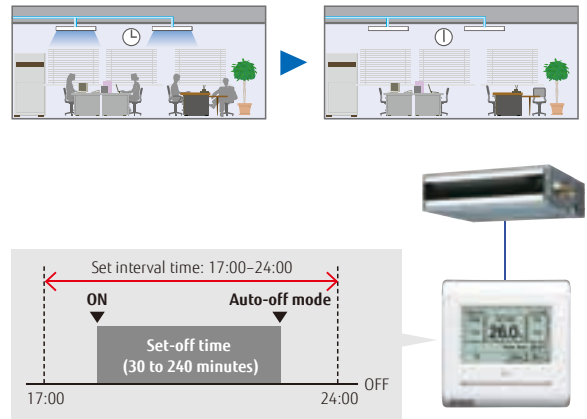
Setting temperature range limitation

Sets the minimum and maximum limits on room temperature to establish an optimum balance between energy-saving performance and a comfortable environment.



Auto-off timer

The wired remote controller is equipped with an auto-off timer function that automatically stops operation after a fixed period of time has elapsed from the start of operation to avoid wasting energy. The function also allows you to set the interval for stopping operations.

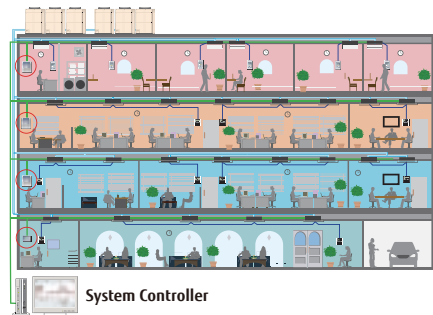


Energy-saving management

A variety of energy-saving operations can be set and managed depending on the season, climate, and time period. Excellent energy-saving operation using the system controller.

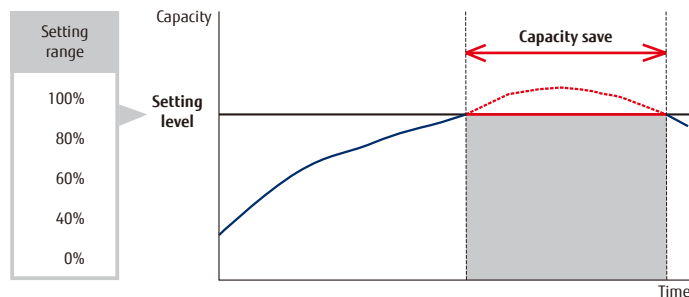


Screen image shows Energy Manager software (option)



Capacity-saving mode

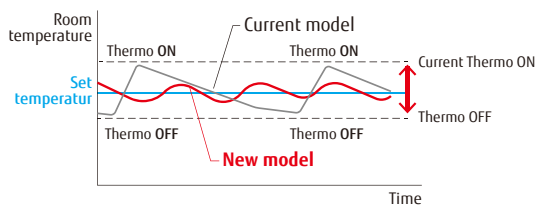
Operation capacity can be reduced in 5 steps from the rated capacity. This mode cuts down on peak power consumption and eases the maximum load on the unit.





Intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function. The refrigerant control operates with subtle control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.

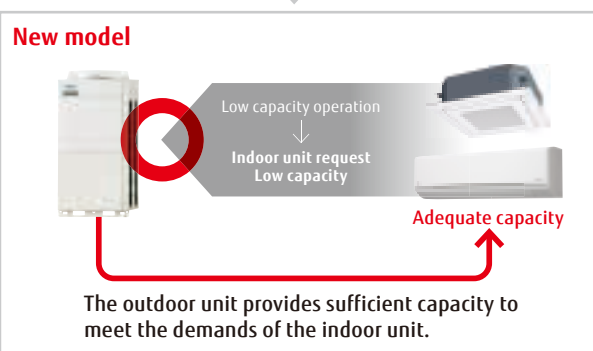
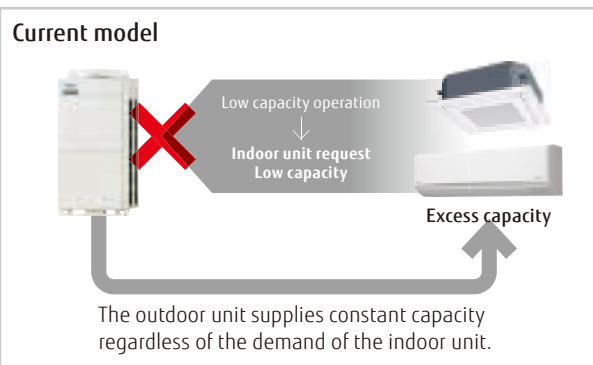


Current refrigerant control

Thermostat-ON/OFF occurs frequently.
 → Frequent changes in room temperature interfere with comfort. The compressor starts and stops repeatedly, wasting energy.

New refrigerant control

The thermostat is turned on and off less frequently than under current control to maintain the room temperature at the target temperature. Compared to current control, the compressor will run longer, thus saving energy.



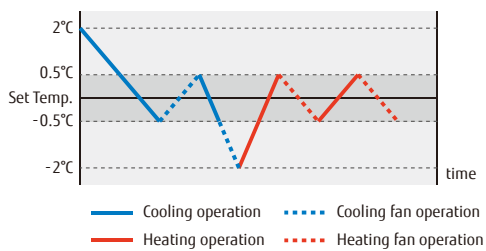
* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

More Comfort



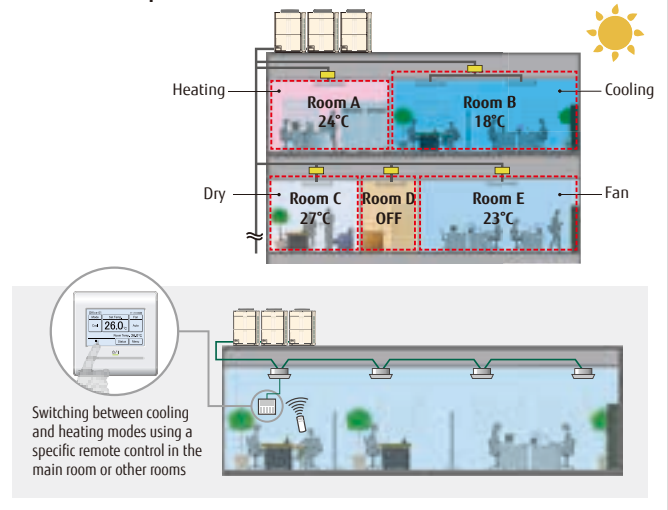
Auto changeover

In Auto setting, the air conditioner switches between cooling and heating modes automatically according to the set temperature and the room temperature.



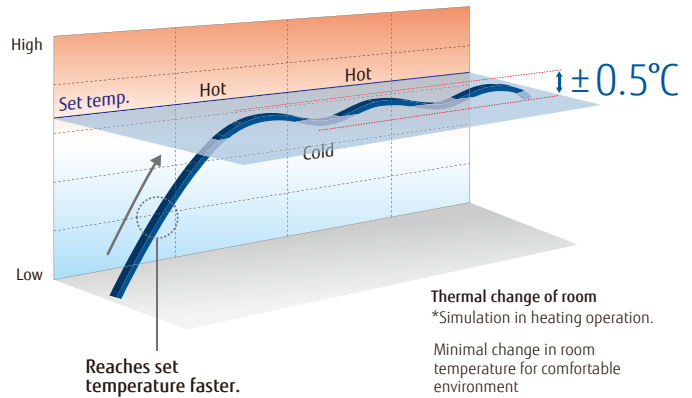
Auto changeover settings enable the indoor unit to easily switch between cooling and heating regardless of the operating mode of other indoor units. These settings can be made using a wired remote controller for a specific indoor unit. Provides a comfortable environment all year round.

Automatic cooling/heating operation for each room is possible



Precise control of refrigerant flow

The combination of DC inverter control and individual control of electronic expansion valves of an indoor unit enables precise and smooth control of the refrigerant flow. This means the room temperature can be set in increments of 0.5°C.

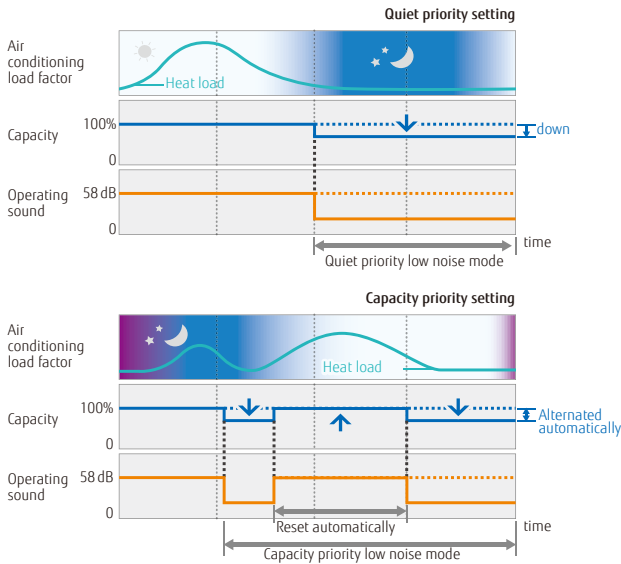


Quiet operation



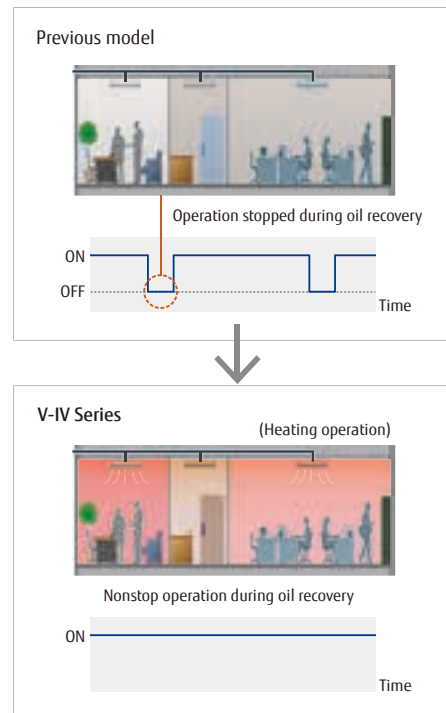
Quiet operation

Two low noise modes can be switched over automatically between one in which low noise is prioritized over performance, and the other in which performance is prioritized over low noise, depending on the room temperature and outdoor temperature. This feature can be controlled by external input from the outdoor unit or a 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 noise design

Small-capacity indoor units meet a variety of applications. Super low noise operations offer greater audibility comfort. In particular, the low static pressure duct (04 model) has a noise level of only 20 dB(A) during quiet mode.

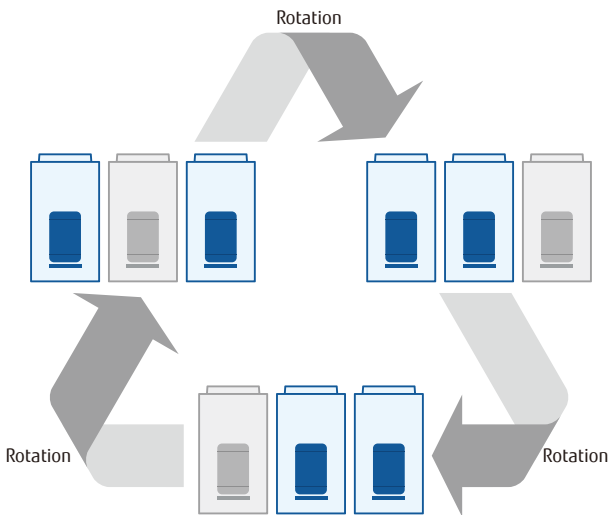


Small-capacity indoor unit

High Reliability

Outdoor unit rotation

The compressor starting order is rotated to equalize the cumulative running time of each unit.

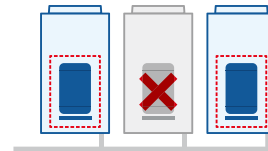


The start and stop timings are alternated among connected compressors.

Backup operation

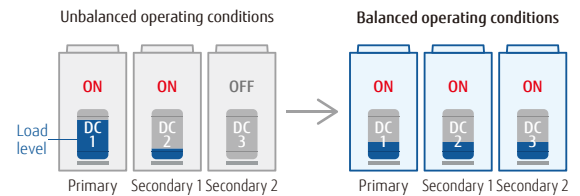
If one compressor fails, the other compressors will initiate backup operation*.

Note: Backup operation may not be possible depending on the cause of failure.



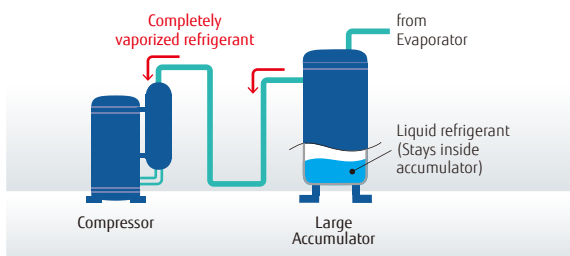
Advanced refrigerant control

Compressor control logic controls the inverter speed to balance the mass airflow rate of refrigerant in each outdoor unit.



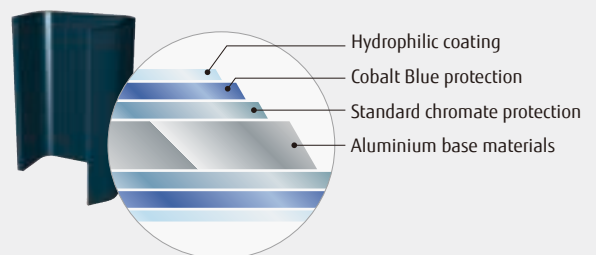
Protection against liquid flowback

The use of a large accumulator means that refrigerant that has not been completely vaporized stays inside the accumulator to ensure no liquid refrigerant is fed into the compressor.



Blue fin heat exchanger

The anti-corrosion blue fin treatment is applied to the heat exchanger of the outdoor unit.





Design flexibility



Class-leading compact design



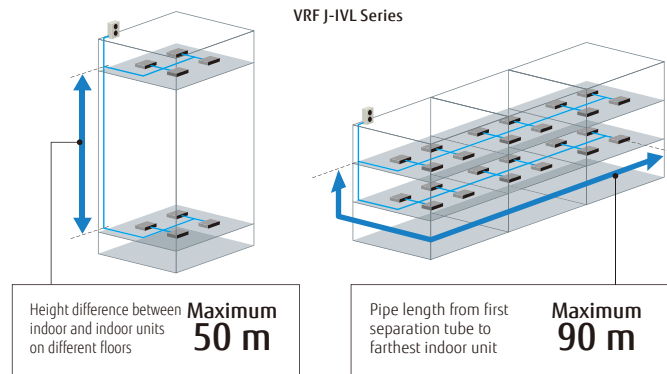
An industry-leading compact outdoor unit with optimal airflow pattern design. (Up to 18 HP)



Long pipe design



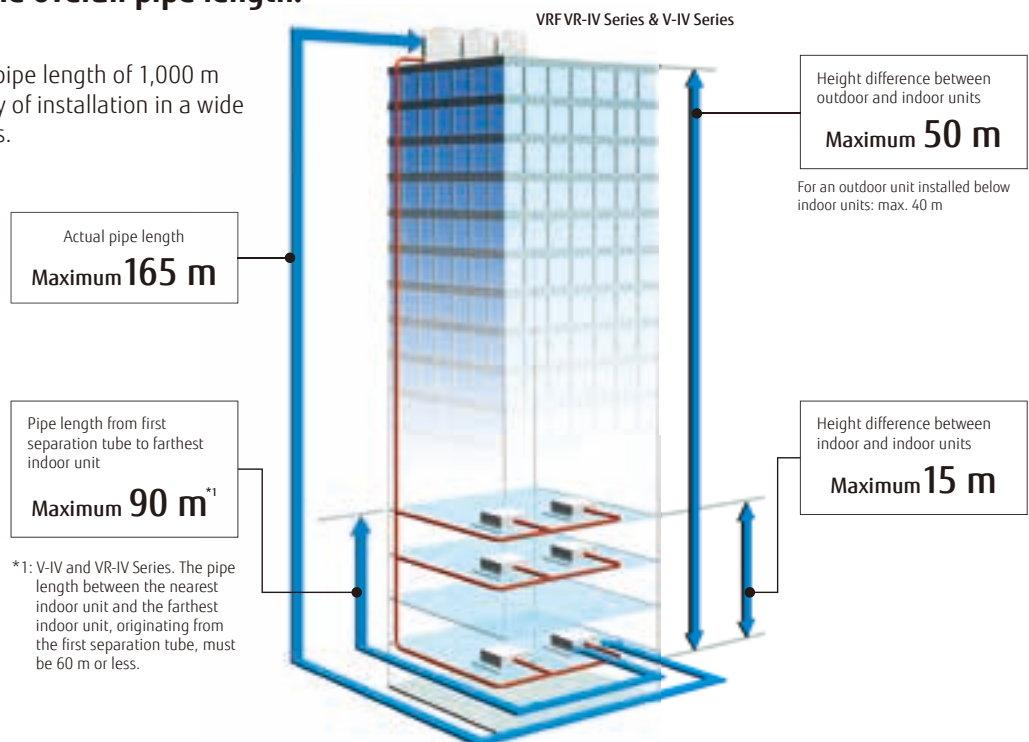
Pipe design suitable for long and narrow office buildings with elevation differences and low-rise stores with long distances (VRF J-IVL Series)









Max. allowable overall pipe length: 1,000 m



The class-leading pipe length of 1,000 m increases flexibility of installation in a wide variety of buildings.



High-capacity connection

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

*2: Conditions for the maximum capacity ratio of connectable indoor units are shown in the chart above.

*3: The maximum capacity of the combination that includes the 18-HP outdoor unit is 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: J-IVS Series 6-HP model only.



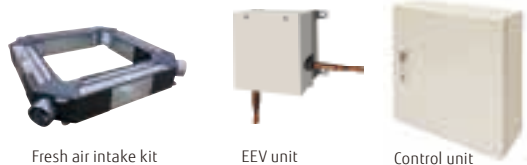
Designed for low refrigerant charge

The optimal design of the indoor and outdoor units reduces the amount of refrigerant required and can be easily installed in a room as small as 15 m².



Various optional parts

- Fresh air intake kit to bring in fresh air
- Comfortable temperature control with a remote sensor
- DX kit links ventilation equipment and air handling units.



Low ambient operation

Our refrigeration cycle technology enables cooling operation even at -15°C.

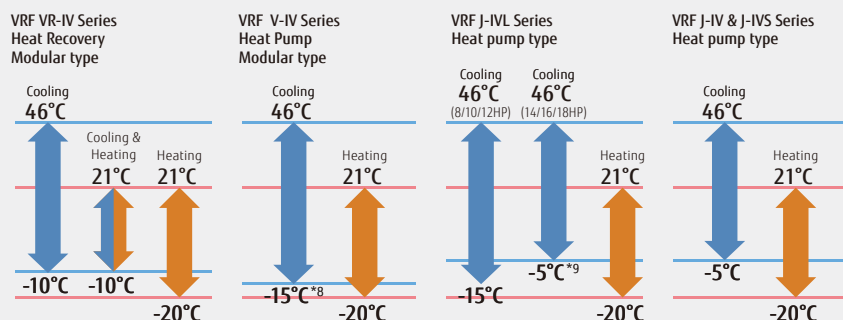


Wide operating temperature range

All outdoor units have a wide operating temperature range and can operate in extreme temperature conditions.

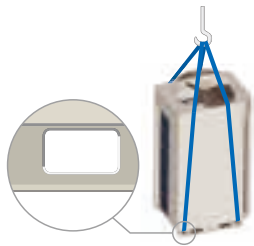
*8: When multiple outdoor units are connected, their operating temperature range is from -5°C to 46°C in cooling.

*9: The operating range is -15°C to 46°C only for systems with all indoor units rated at 5.6 kW or more.

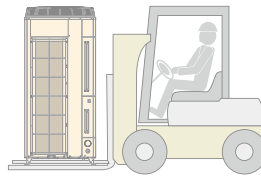


Easy Installation

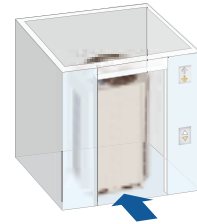
Easily transported



A lifting strap can be hooked onto an outdoor unit
Design of outdoor unit allows for lifting straps to be used



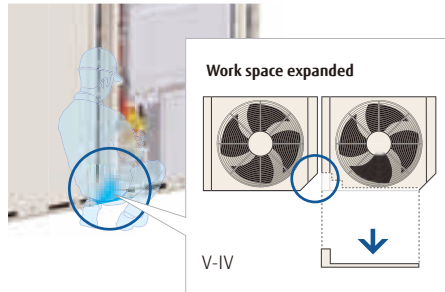
Transportable by forklift
The outdoor unit can be lifted and transported by forklift.



Fits into a small elevator.

Easy access

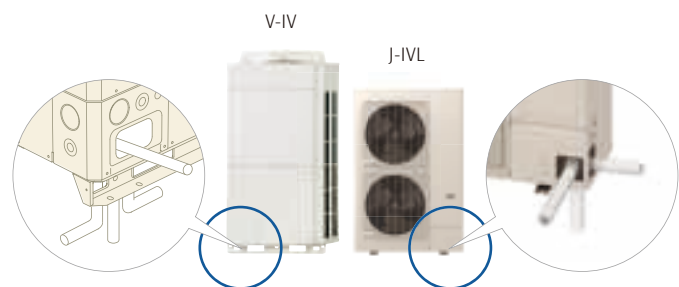
The removable L-shaped front panel provides more room for installation and service work. Multiple installations can be performed easily and efficiently even in tight spaces.



Front access reduces installation intervals

Flexible pipe connection

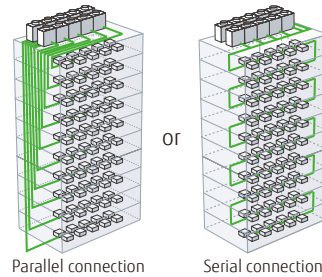
Piping and wiring can be accessed from the front, left, right, and bottom.





Simplified wiring work

The communication wiring can be installed seamlessly among indoor, outdoor, and RB units, which makes the installation of the wiring system easier.

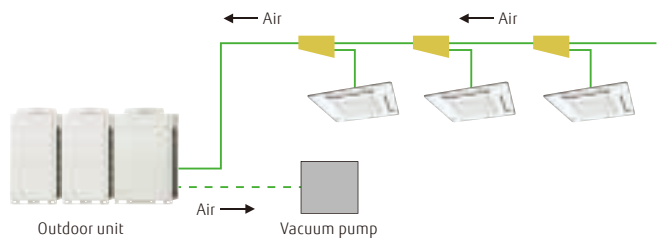


Maximum wiring length:
3,600 m

Note: The automatic address setting is not available on a serially connected multiple refrigerant system.

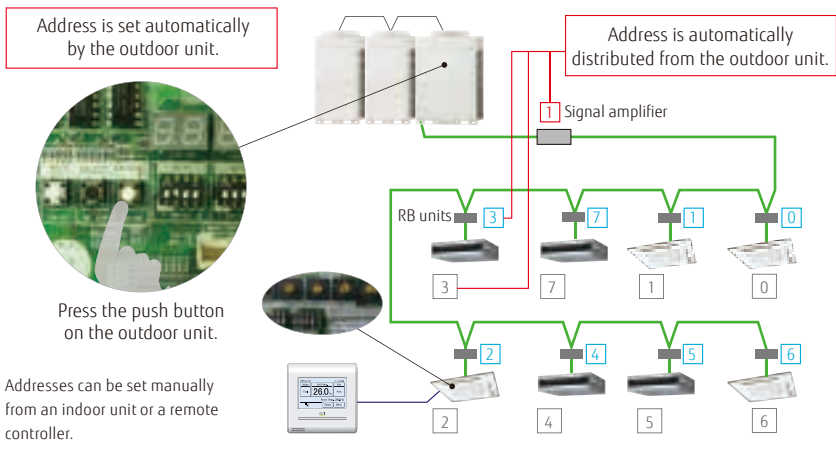
Vacuum mode function for easy evacuation

The vacuum mode function enables all expansion valves of an indoor unit to be opened fully, allowing for easier evacuation of air inside pipe lines and indoor units.



Automatic address setting

Addresses of connected indoor units, RB units, and Signal amplifier can all be set automatically from the PCB in the outdoor unit.



Easy commissioning with Service Tool

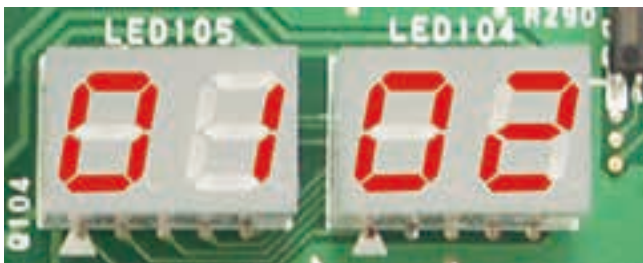
The Service Tool checks the refrigerant temperature and pressure, and the operating status of the electronic expansion valves, making it easy to determine if the units are connected properly.



Easy service and maintenance

Designed for easy maintenance

A 7-segment indicator lamp panel provides detailed information on the function setting status, refrigerant temperature and pressure, compressor operation time, and other factors, facilitating self-diagnosis for each unit.

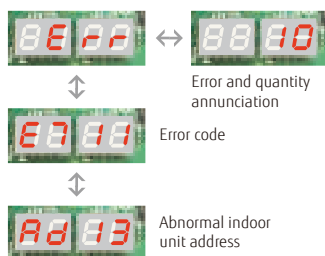


Easy-to-read 7-segment indicator lamp

Shows the following detailed operation and error status without need of any special tools.

Error status can be checked on an outdoor unit's display

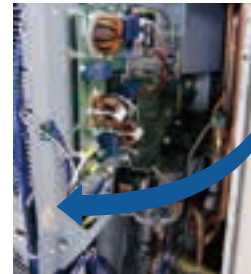
- System operation mode
- Discharge temperature and pressure
- Compressor operation status
- Address, type, and number of outdoor unit



- Error status can easily be checked on an outdoor unit's display.

Movable PCB panel

Enables easier access behind the PCB for maintenance work.





The error status can be checked via a wired remote controller for indoor units.

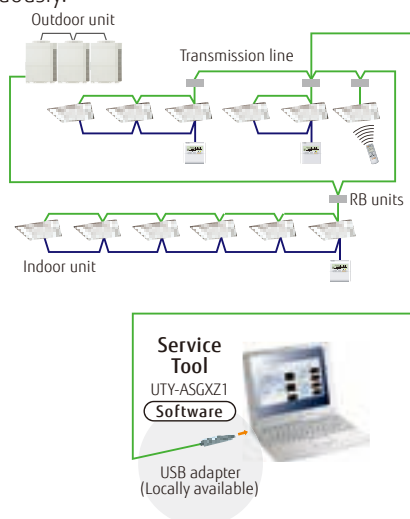
Error codes are displayed on an LCD screen.

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>2012/7/21</td> <td>11:00:00</td> <td>0002-01</td> <td>E01</td> </tr> <tr> <td>2</td> <td>2012/7/20</td> <td>2:00:00</td> <td>0002-01</td> <td>E01</td> </tr> <tr> <td>3</td> <td>2012/7/20</td> <td>8:00:00</td> <td>0002-01</td> <td>E01</td> </tr> <tr> <td>4</td> <td>2012/7/20</td> <td>11:00:00</td> <td>0002-01</td> <td>E01</td> </tr> <tr> <td>5</td> <td>2012/7/20</td> <td>11:00:00</td> <td>0002-01</td> <td>E01</td> </tr> <tr> <td>6</td> <td>2012/7/21</td> <td>11:00:00</td> <td>0002-01</td> <td>E01</td> </tr> </tbody> </table> <p>Back Next Page Erase All</p>	No.	Date	Time	Address	Code	1	2012/7/21	11:00:00	0002-01	E01	2	2012/7/20	2:00:00	0002-01	E01	3	2012/7/20	8:00:00	0002-01	E01	4	2012/7/20	11:00:00	0002-01	E01	5	2012/7/20	11:00:00	0002-01	E01	6	2012/7/21	11:00:00	0002-01	E01
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6	2012/7/21	11:00:00	0002-01	E01																																	

Error diagnosis by Service tool

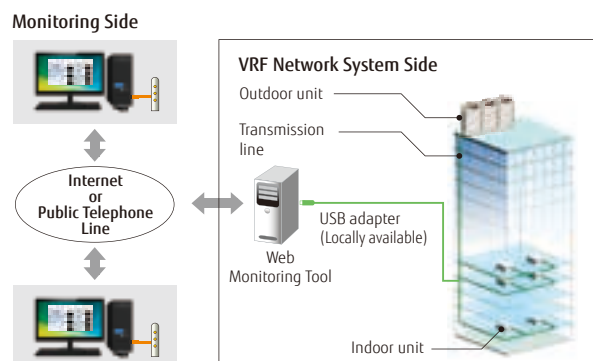
Connection to Service tool

- A detailed operation status and recent error history can be checked and analyzed using Service tool.
- The last 5 minutes of operation status can be recorded continuously.



Remote monitoring

The Web Monitoring system enables the monitoring of the system's operation status at any time via the internet to ensure trouble-free operation. The operating VRF network system in the building can be monitored real time over the internet.



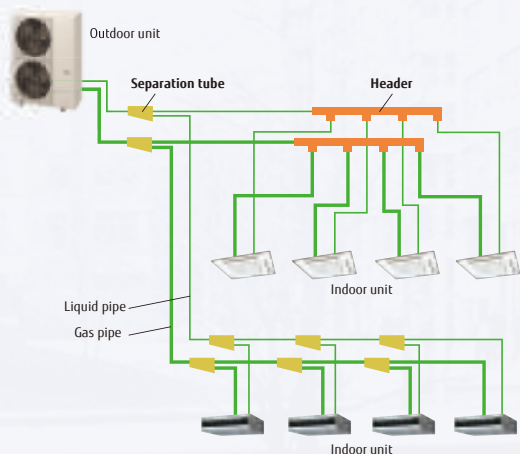
Heat Pump

for Small-capacity type

VRF J-IVL

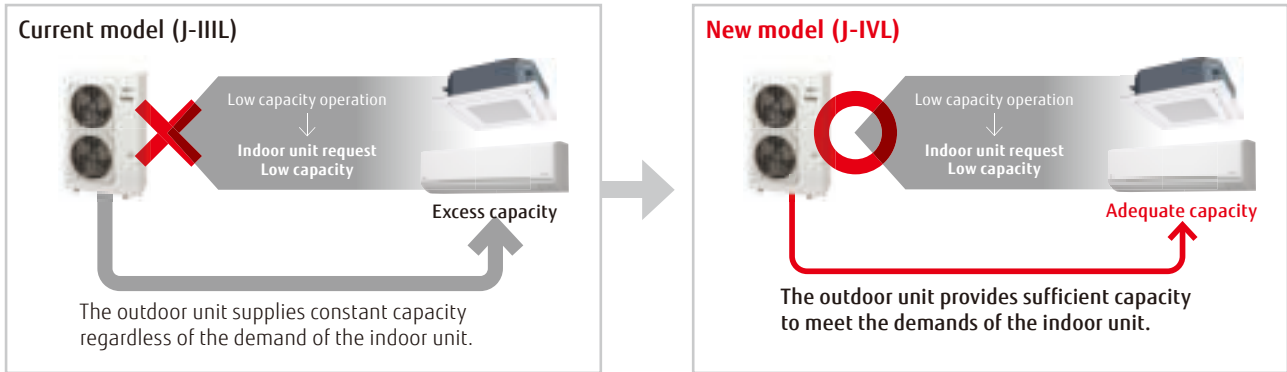
System configuration example

- Suitable for air conditioning small and medium-size buildings. One refrigerant system is used for each outdoor unit.
- Multiple indoor units are connected with separation tubes and headers.



New intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function. The refrigerant control operates with suitable control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.



* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

External static pressure

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

Capacities are slightly decreased relative to the rated values during high static pressure operations.



Advanced high-efficiency technology

Ø570 mm

Large propeller fan

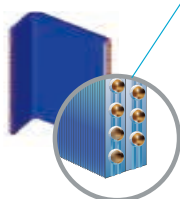
A large-diameter propeller fan with our proprietary blade design reduces draft loss, which results in high-efficiency and low noise operation.

DC fan motor

A small, multi-stage DC fan motor provides high-efficiency and low noise operation.

Large heat exchanger

The large 2.6-row heat exchanger substantially improves heat-exchanging performance.



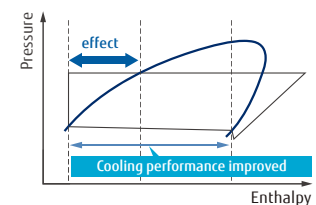
15 to 130 rps

DC inverter control

The active filter module improves efficiency.

Subcooling heat exchanger

The dual-tube heat exchanger improves cooling performance.



Scroll compressor

The combination of a scroll compressor with a wide rotational frequency range from 15 to 130 rps and our proprietary sensorless sine-wave control that smoothly controls the input power into the motor achieves more energy-efficient and quieter operation.

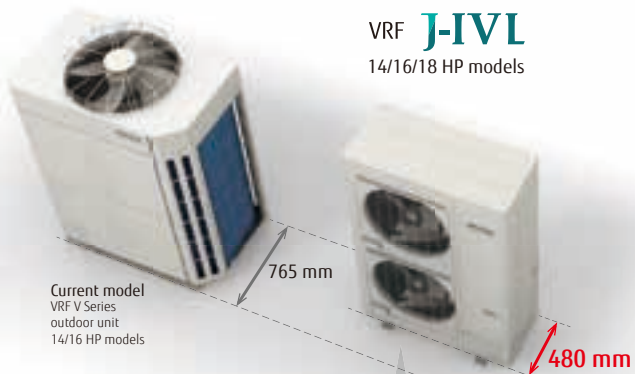


Fujitsu General offers a perfect total air conditioning system for small office buildings with multiple small rooms, taking into consideration energy savings, low noise, comfortable air volume, usage and purpose, and centralized control.

VRF J-IVL

Image: 8/10/12 HP models

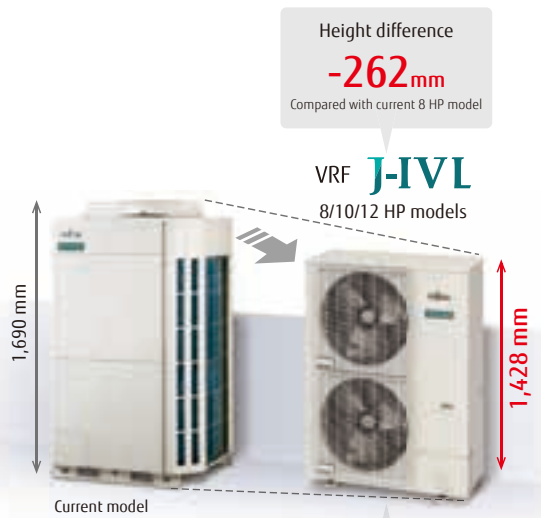
Slim & Compact design



Depth difference
-285 mm
J-IVL all models
Compared with current all models

Space requirement
-45%!
Compared with current
14/16 HP models

Weight
-62 kg!
Compared with
current 16 HP model



Height difference
-262 mm
Compared with current 8 HP model

Space requirement
-26%!
Compared with current
8/10 HP models

Various installation methods



VRF V Series outdoor unit



VRF J Series outdoor unit

Installation

Low noise level in consideration of nearby residents

Front air discharge type with a width of about 1,000 mm, allowing for flexible installation even in narrow spaces.



VRF V Series outdoor unit



VRF J Series outdoor unit

Narrow space behind building

Space saving

Small and thin, allowing for direct ground or wall mounting installations even in narrow alleys.



VRF V Series outdoor unit



VRF J Series outdoor unit

Installation on the back street of a building

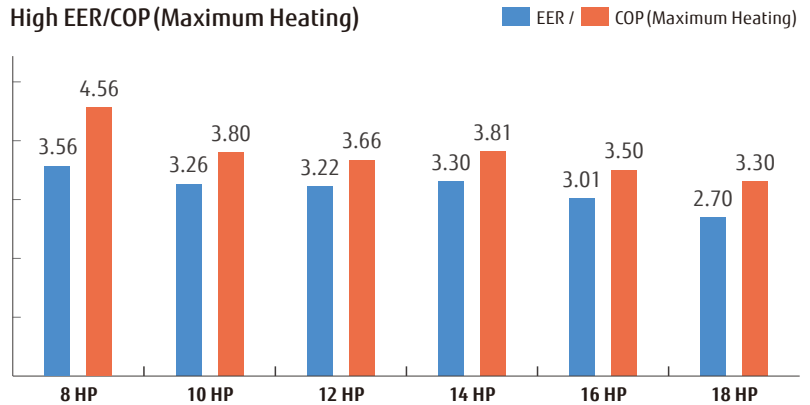
Flexible installation

Slim, low-body front air discharge meets the requirements for installation even in tight spaces. Installation flexibility without blocking the windows of buildings contributes to substantial space savings, even when multiple units are installed.

Efficiency in actual operating conditions

The use of a large heat exchanger and a high-efficiency Scroll compressor achieves class-leading EER/COP (Max. Heating) in all models.

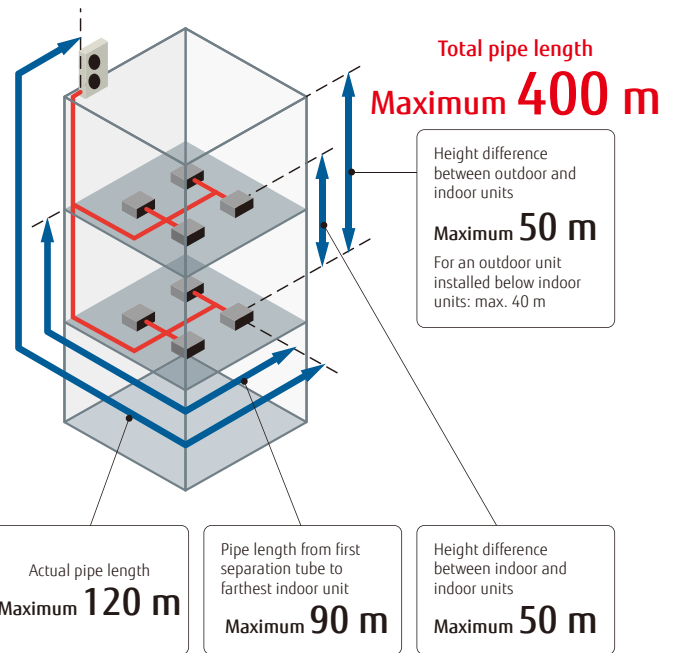
High EER/COP (Maximum Heating)



* These specifications are determined by cassette combination.

Long pipe length

Our advanced refrigerant control technology extends the maximum allowable length of refrigerant piping to 400 m. This provides high flexibility in system design.



Up to 42 indoor units* can be connected.

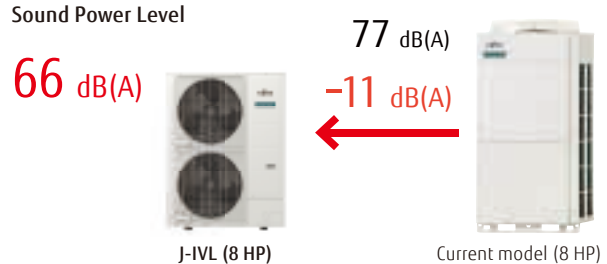
The combination of smaller but sufficiently powerful indoor units and a new outdoor unit with an optimized heat exchanging structure makes it possible to connect up to 42 indoor units, which is the best in its class. *: 18 HP model



Class-leading low operating sound

The top-class low operating noise makes it ideal for use in densely populated areas. These low operating sound models are ideal for installation in densely populated areas.

Sound Power Level



8,10,12 HP: AJY072LELDH/AJY090LELDH/AJY108LELDH
 14,16,18 HP: AJY126LELDH/AJY144LELDH/AJY162LELDH



*Actual product's design may be different from the images.

Specifications

Rated capacity range		HP	8	10	12	14	16	18
Model name			AJY072LELDH	AJY090LELDH	AJY108LELDH	AJY126LELDH	AJY144LELDH	AJY162LELDH
Maximum connectable indoor units			1-20	1-25	1-30	1-36	1-40	1-42
Power source			3-phase, ~400V, 50Hz					
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0
	Nominal Heating		22.4	28.0	33.5	40.0	45.0	50.0
	Max. Heating		25.0	31.5	37.5	45.0	50.0	55.0
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	11.81	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
SEER	Cooling		7.62	7.50	7.27	7.27	7.00	6.29
SCOP	Heating		3.89	3.61	3.63	3.53	3.51	3.54
η_c	Cooling	%	301.8	297.0	287.8	287.8	277.0	248.6
η_h	Heating		152.6	141.4	142.2	138.2	137.4	138.6
Airflow rate		m ³ /h	8,400	9,000	11,000/12,100	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		54/66	57/70	62/75	63/76	65/78	68/82
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 (23.0)	11.0 (23.0)	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	
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.

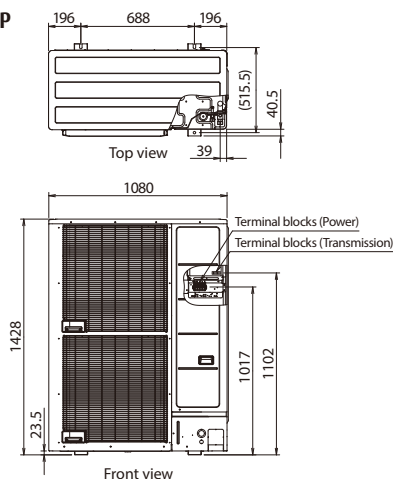
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.

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

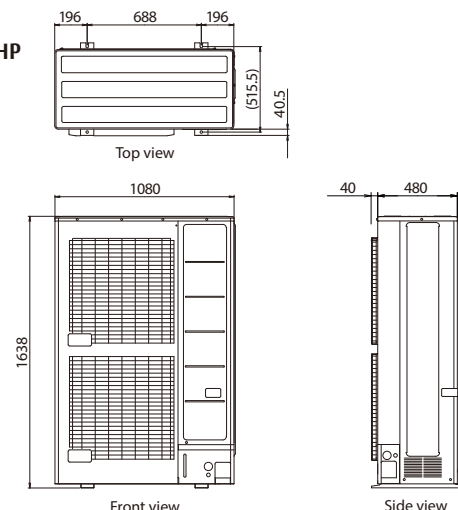
Dimensions

(Unit: mm)

8, 10, 12 HP



14, 16, 18 HP



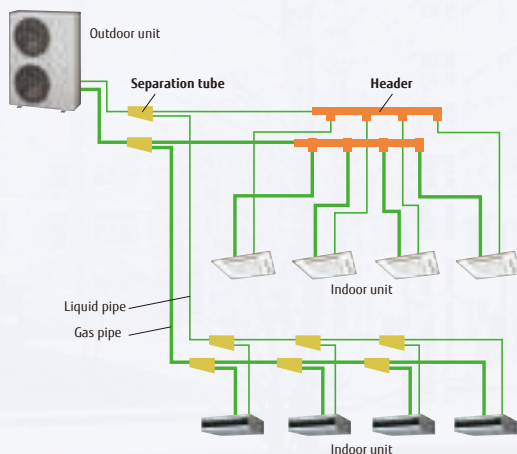
Heat Pump

for Small-capacity type

VRF J-IV

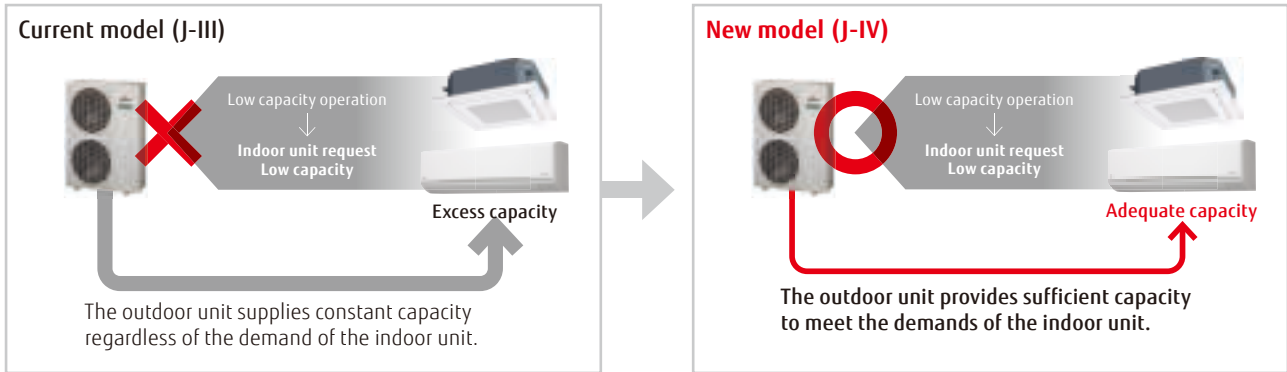
System configuration example

- Suitable for air conditioning small and medium-size buildings. One refrigerant system is used for each outdoor unit.
- Multiple indoor units are connected with separation tubes and headers.



New intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function. The refrigerant control operates with suitable control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.



* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

External static pressure

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



Advanced high-efficiency technology

- Large propeller fan**
A large propeller fan with an optimized blade angle achieves both high performance and low noise operation.
- DC fan motor**
A small, multi-stage DC fan motor contributes to high-efficiency and low noise operation.
- Large heat exchanger**
The large 3-row heat exchanger substantially improves heat-exchanging performance.
- DC inverter control**
The active filter module improves efficiency.
- Subcooling heat exchanger**
The dual-tube heat exchanger improves cooling performance.
- DC twin-rotary compressor**
High-efficiency is achieved across compressor loads. Especially good performance is achieved in the low- to medium-load range.
- High-efficiency compressor motor**
- Optimized refrigerant flow design**
- Highly accurate parts**

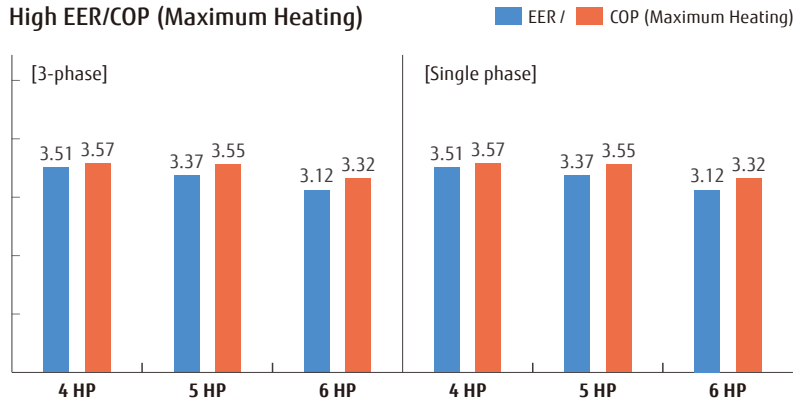
Pressure-Enthalpy Graph: Shows 'effect' and 'Cooling performance improved'.

Compressor Efficiency Graph: Shows 'DC Twin-Rotary Compressor' efficiency across 'Compressor capacity'.

Efficiency in actual operating conditions

The use of a large heat exchanger and a high-efficiency Scroll compressor achieves class-leading EER/COP (Max. Heating) in all models.

High EER/COP (Maximum Heating)



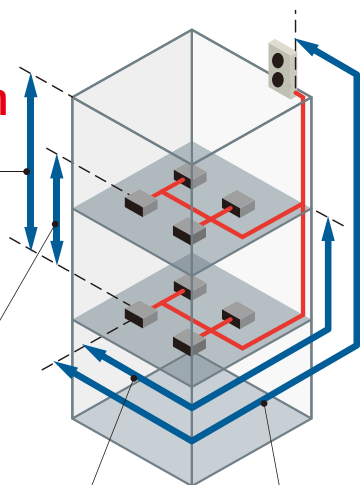
* These specifications are determined by cassette combination.

Long pipe length

Our advanced refrigerant control technology allows us to achieve a total refrigerant pipe length of 180 m. This provides high flexibility in system design.

Total pipe length
Maximum 180 m

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



Height difference between indoor and indoor units
Maximum 15 m

Pipe length from first separation tube to farthest indoor unit
Maximum 40 m

Actual pipe length
Maximum 120 m

Up to 14 indoor units* can be connected

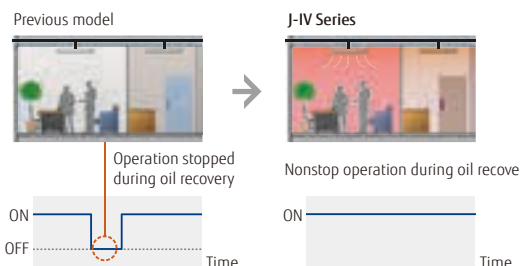
The combination of smaller but sufficiently powerful indoor units and outdoor units with an optimized heat exchanging structure makes it possible to connect up to 14 indoor units, which is the best in its class.

*: 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

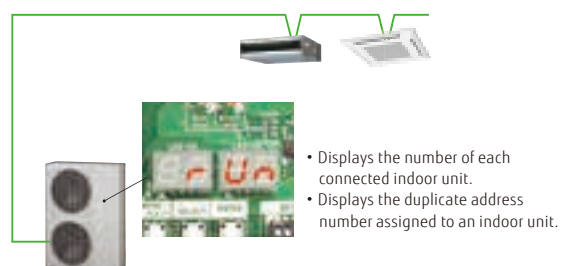
Non-stop oil recovery operation

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: Wiring connections and address settings can be checked thanks to the quick check run function.



4,5,6HP: AJY040LBDH/AJY045LBDH/AJY054LBDH AJY040LELDH [3-phase]/AJY045LELDH [3-phase]/AJY054LELDH [3-phase]



*Actual product's design may be different from the images.

Specifications

Rated capacity range		HP	4	5	6	4	5	6
Model name			AJY040LBDH	AJY045LBDH	AJY054LBDH	AJY040LELDH	AJY045LELDH	AJY054LELDH
Maximum connectable indoor units			1-11	1-12	1-14	1-11	1-12	1-14
Power source			Single phase, ~230 V, 50 Hz			3-phase, ~400 V, 50 Hz		
Capacity	Cooling	kW	12.1	14.0	15.5	12.1	14.0	15.5
	Nominal Heating		12.1	14.0	15.5	12.1	14.0	15.5
	Max. Heating		13.6	16.0	18.0	13.6	16.0	18.0
Input power	Cooling	kW	3.44	4.15	4.96	3.44	4.15	4.96
	Nominal Heating		3.14	3.60	4.17	3.14	3.60	4.17
	Max. Heating		3.80	4.50	5.41	3.80	4.50	5.41
EER	Cooling		3.51	3.37	3.12	3.51	3.37	3.12
COP	Nominal Heating	W/W	3.85	3.88	3.71	3.85	3.88	3.71
	Max. Heating		3.57	3.55	3.32	3.57	3.55	3.32
SEER	Cooling		6.50	6.30	6.08	6.50	6.30	6.08
SCOP	Heating		3.83	3.93	3.94	3.83	3.93	3.94
η_c	Cooling	%	257.0	249.0	240.0	257.0	249.0	240.0
η_h	Heating		150.0	154.0	155.0	150.0	154.0	155.0
Airflow rate		m ³ /h	6,200	6,600	7,000	6,200	6,600	7,000
Sound pressure level/ Power level	Cooling	dB(A)	50 / 65	52 / 66	53 / 67	50 / 65	52 / 66	53 / 67
	Heating		52 / 67	55 / 69	56 / 69	52 / 67	55 / 69	56 / 69
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.

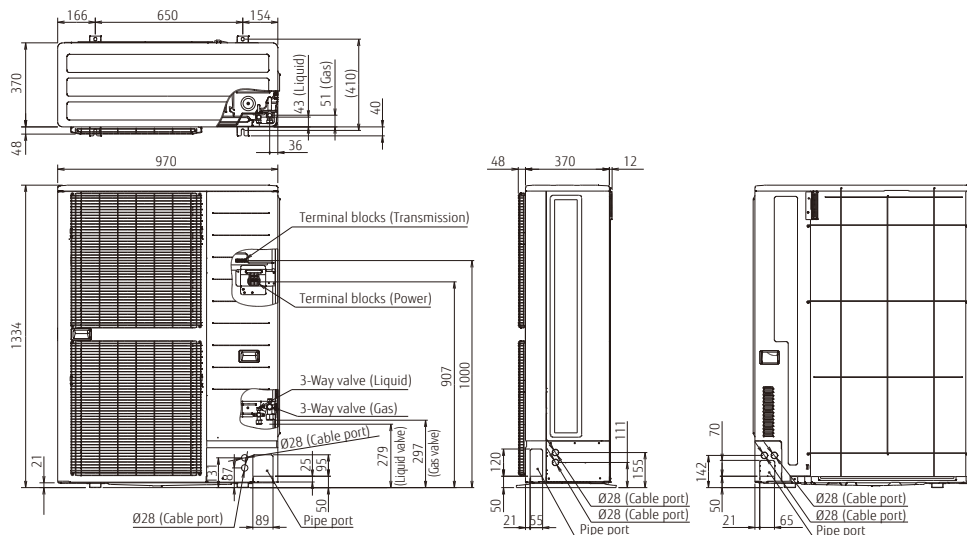
Heating: Indoor temperature of 20°CDB/(15°CWB), and outdoor temperature of 7°CDB/6°CWB.

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 operation range.

Dimensions

(Unit: mm)



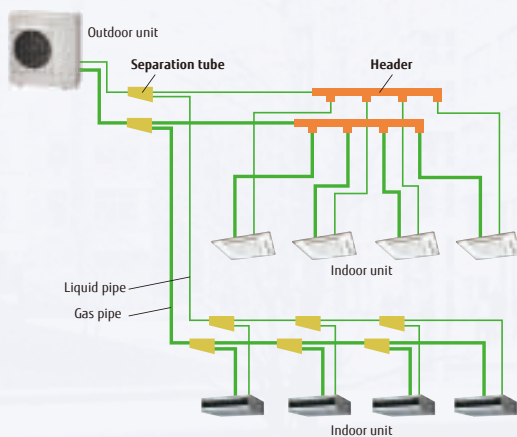
Heat Pump

for Small-capacity type

VRF J-IVS

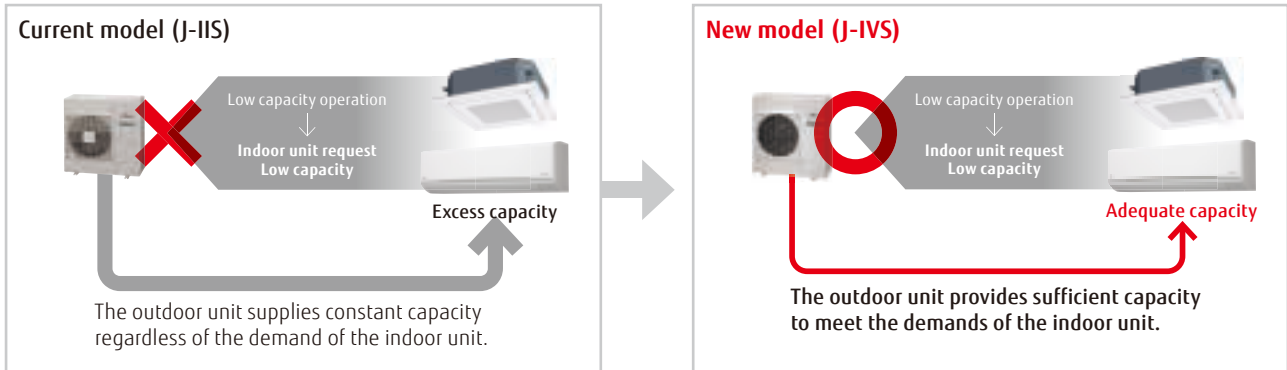
System configuration example

- Suitable for air conditioning small and medium-size buildings. One refrigerant system is used for each outdoor unit.
- Multiple indoor units are connected with separation tubes and headers.



New intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function. The refrigerant control operates with suitable control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.



* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

External static pressure

External static pressure measures up to 25 Pa for 4/5/6 HP models.



Advanced high-efficiency technology

Large propeller fan
A large propeller fan with an optimized blade angle achieves both high performance and low noise operation.

DC fan motor
A small, multi-stage DC fan motor provides high-efficiency and low noise operation.

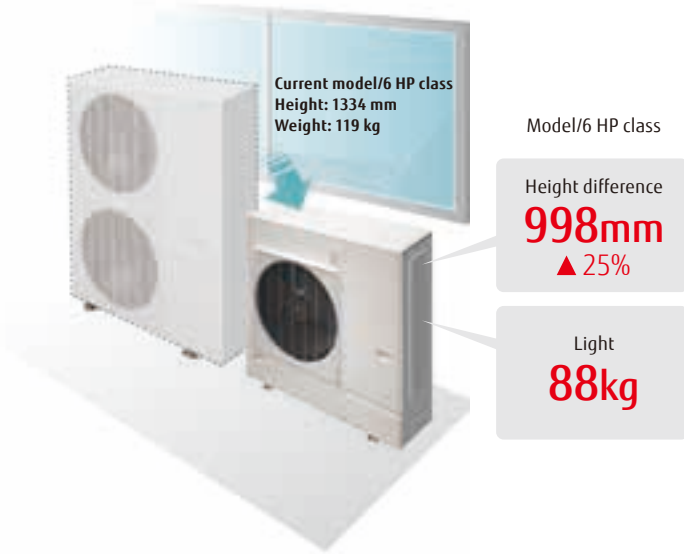
DC inverter control
The active filter module improves efficiency.

Large heat exchanger
The large 3-row heat exchanger substantially improves heat-exchanging performance.

Compact and high-performance DC twin-rotary compressor
High-efficiency is achieved across compressor loads. Especially good performance is achieved in the low- to medium-load range.

High heat-transfer copper tube (Improved lead angle)

Easy to carry, easy to install



Small, lightweight outdoor unit

The outdoor units in this series are much more compact than conventional outdoor units of comparable capacity. They can be installed on a balcony, fitting below the height of the railing. With a height of less than 1 m, they can be installed in tight spaces such as under windows.

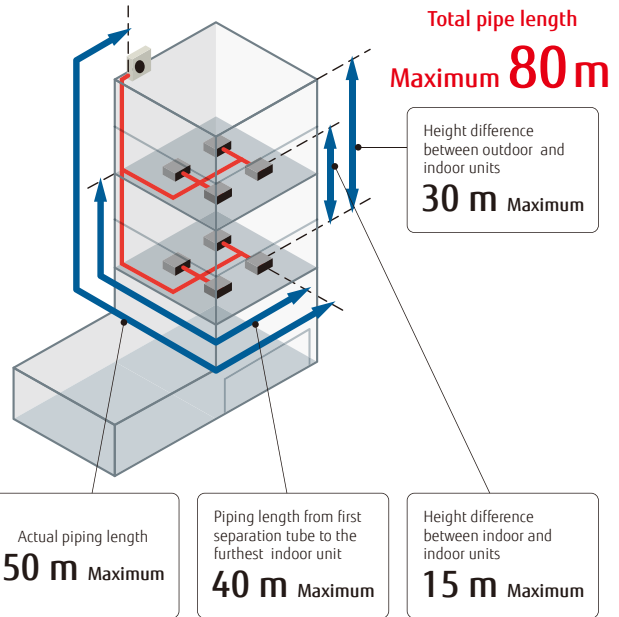


Low noise design

Significantly low noise levels are achieved by the use of a DC twin-rotary compressor, inverter technology, and an advanced airflow pattern design.

Long pipe length

Our advanced refrigerant control technology extends the maximum allowable length of refrigerant piping to 80 m. This provides high flexibility in system design.



Up to 13 indoor units* can be connected

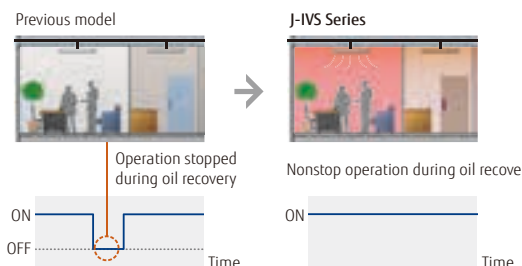
The combination of smaller but sufficiently powerful indoor units and a new outdoor unit with an optimized heat exchanging structure makes it possible to connect up to 13 indoor units, which is the best in its class.

*: 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

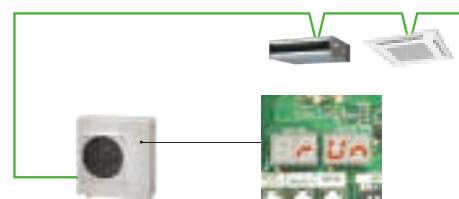
Non-stop oil recovery operation

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: Wiring connections and address settings can be checked thanks to the quick check run function.



- Displays the number of each connected indoor unit.
- Displays the duplicate address number assigned to an indoor unit.



*Actual product's design may be different from the images.

Specifications

Rated capacity range	HP	4	5	6
Model name		AJY040LCLDH	AJY045LCLDH	AJY054LCLDH
Maximum connectable indoor units		1-11	1-12	1-13
Power source		Single phase, ~230 V, 50 Hz		
Capacity	Cooling	12.1	14.0	15.1
	Nominal Heating	12.1	14.0	15.1
	Max. Heating	13.6	16.0	16.5
Input power	Cooling	3.75	4.71	5.55
	Nominal Heating	3.22	3.77	4.33
	Max. Heating	3.99	5.04	5.32
EER	Cooling	3.22	2.97	2.72
COP	Nominal Heating	3.75	3.71	3.48
	Max. Heating	3.40	3.17	3.10
SEER	Cooling	5.83	5.58	5.47
SCOP	Heating	3.82	3.96	3.99
η_c	Cooling	230.2	220.2	215.8
	Heating	149.8	155.4	156.6
η_h	Cooling	4,240	4,400	4,400
	Heating	53 / 67	53 / 69	54 / 70
Airflow rate	Cooling	54 / 68	56 / 69	56 / 70
	Heating	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	998	998	998
	Width	970	970	970
	Depth	370	370	370
Weight		88	88	88
		kg		
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)
Connection pipe diameter	Liquid	9.52	9.52	9.52
	Gas	15.88	15.88	15.88
Total pipe length		80	80	80
Max. height difference		30	30	30
Operating Range	Cooling	-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.

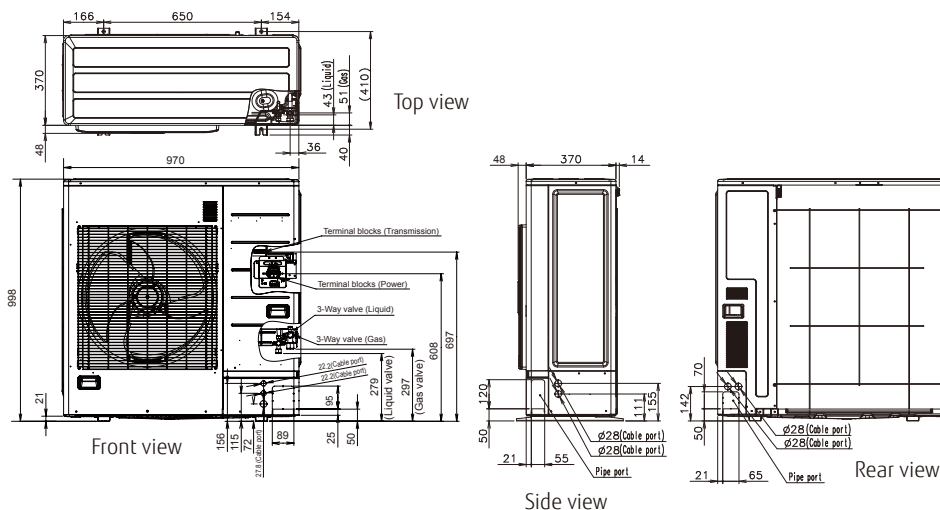
Heating: Indoor temperature of 20°CDB/(15°CWB), and outdoor temperature of 7°CDB/6°CWB.

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 operation range.

Dimensions

(Unit: mm)



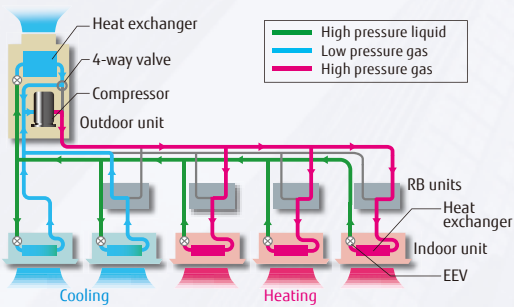
Heat Recovery

Modular Type

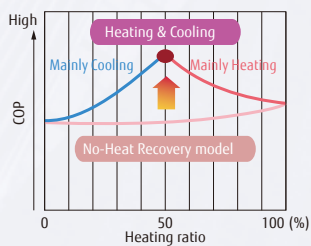
VRF VR-IV

Highly energy-efficient operation

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

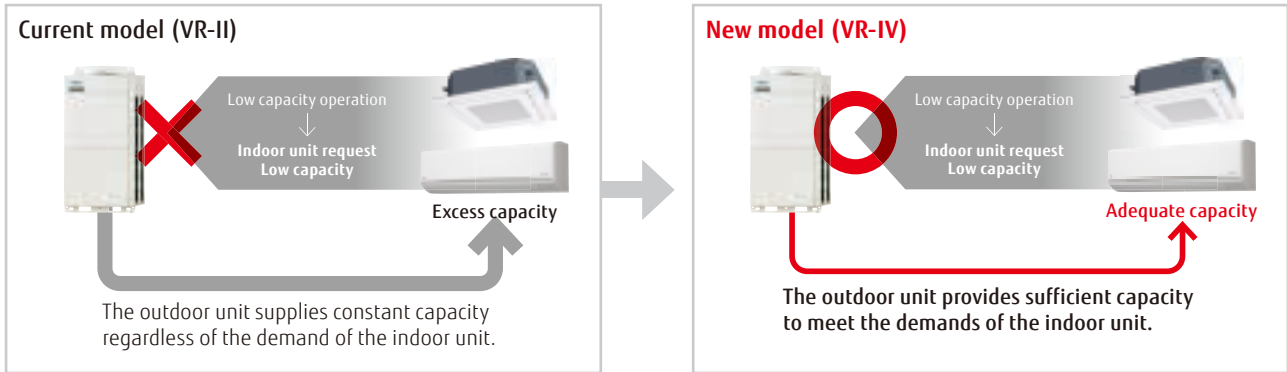


Our heat recovery systems achieve high operating energy efficiency by drawing heat from the room to be cooled and transferring it as energy for rooms that are to be heated.



New intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function. The refrigerant control operates with suitable control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.



* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

Increase in the number of connectable indoor units

Capacity range of connectable indoor units

New model (VR-IV)	25%* to 150%
Current model (VR-II)	50% to 150%

*: For modular type, 25% to 49.9% operation in the entire system is available. (by one unit operation)

Increased number of connectable indoor units and space saving combinations

	(Unit)									
HP	10	12	14	16	...	28	30	32	...	48
New model (VR-IV)	21	26	30	34	...	60	64	64	...	64
Current model (VR-II)	15	16	17	21	...	42	45	48	...	64

The energy-saving technology that boosted operation efficiency

Powerful large propeller fan
The fan uses CFD* technology to achieve both high performance and low noise operation.
*CFD: Computational Fluid Dynamics

3-phase DC fan motor
The use of a DC fan motor with sophisticated driver control improves energy efficiency substantially. In addition, this motor operates quietly.

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

4-face heat exchanger
The 4-face heat exchanger increases the effective surface area and significantly improves heat-exchanging efficiency.

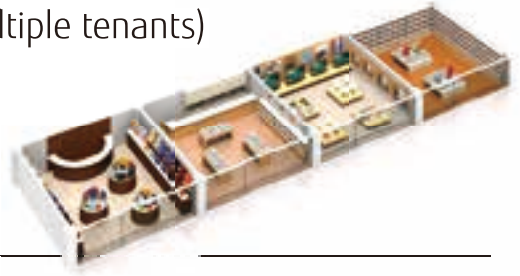
Subcooling heat exchanger
High heat exchange efficiency is achieved by using an internal projection-shape double-pipe construction.

High-efficient, large-capacity DC twin-rotary compressor
Large-capacity high-efficient DC twin-rotary compressor with excellent intermediate capability.

Front intake port (Corner cut air inlet structure)
In multiple outdoor unit installations, the unique front intake design improves airflow into the heat exchanger.

Extended connection ratio (applicable to multiple tenants)

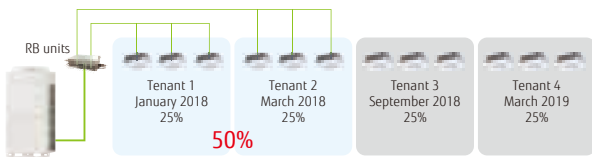
Especially useful when starting partial air conditioning in a building under construction
Installation can be added flexibly for each tenant.



Stand-alone

Current model (VR-II)

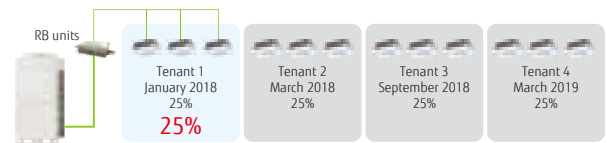
Example) 50% of 12HP minimum connected indoor unit capacity is required



Installation is possible even for tenants who have not yet started operations.

New model (VR-IV)

Example) 25% of 12HP minimum connected indoor unit capacity is required

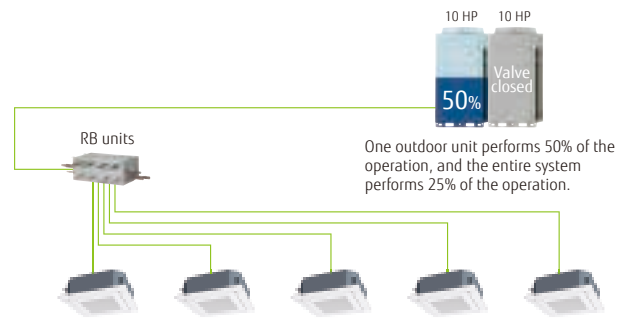


Installation and commissioning can be added flexibly to meet the opening dates of other tenants.

Modular type

One outdoor unit operates effectively for the capacities of connectable indoor units in the entire system. (Each of the multiple outdoor units does not dare operate at 25% capacity: any one of the outdoor units will operate at 50% and the remaining units will each output 0%, i.e., stop operating.)

Example: One 10HP outdoor unit performs 25% of the total 20HP outdoor units system.
One 10HP outdoor unit performs 50% of its capacity
→ Two outdoor units do not perform 25% of the operation.



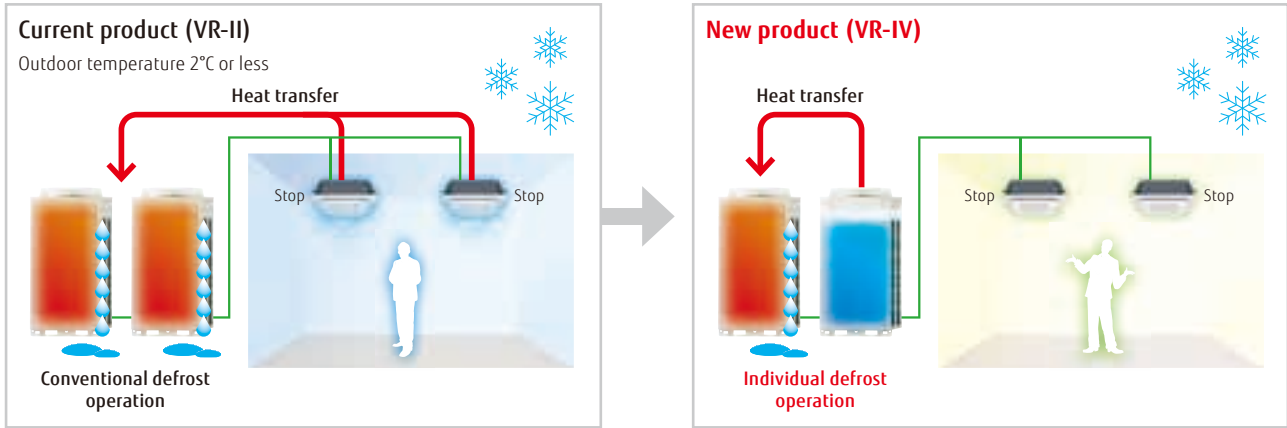
Additional installation is possible without changing the main pipe.

A main pipe of a diameter that can be used for the final system is installed at the beginning of the installation.
Duplication of the work will be avoided as there is no need to change the main pipe as in the previous model.

50% installation		Final system: 150% installation	
<p>Current model (VR-II)</p> <p>Main pipe Gas: Ø22.22, 15.88 Liquid: Ø12.7</p>	<p>For additional installation, the main pipe needs to be changed.</p>	<p>Gas: Ø34.92, 28.58 Liquid: Ø15.88</p>	
<p>New model (VR-IV)</p> <p>Main pipe Gas: Ø34.92, 28.58 Liquid: Ø15.88</p>	<p>The main pipe diameter used in the final system is utilized from the beginning of installation.</p>	<p>The main pipe does not need to be changed.</p>	

New Individual defrost operation

Individual Defrost Operation maintains the room comfortable during defrost operation.

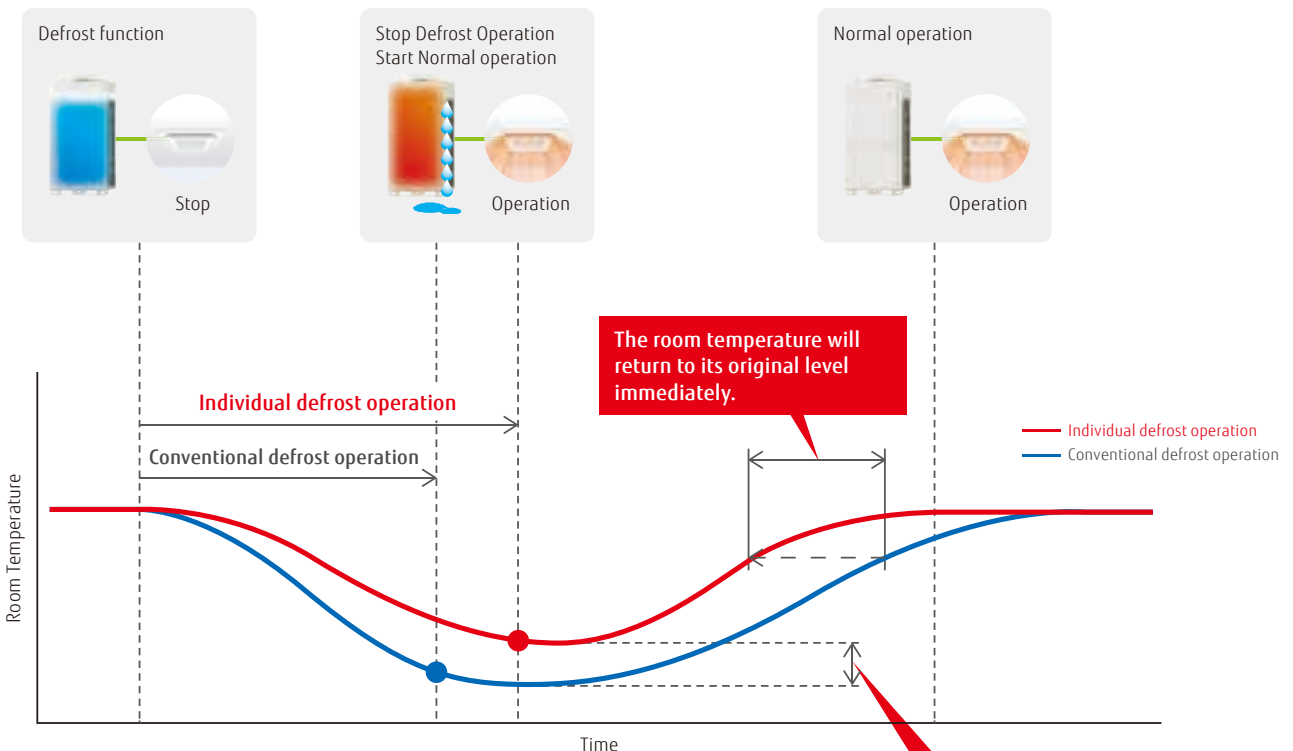


During defrosting operation, the system absorbs heat from the room to lower the room temperature.

Individual Defrost Operation absorbs the heat from the outside by using the remaining units to prevent an excessive drop in room temperature.

*Available only when the outdoor unit is modularly connected

Upon completion of Individual Defrost Operation, the indoor unit returns to normal operation.

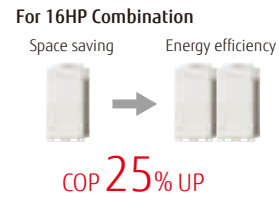
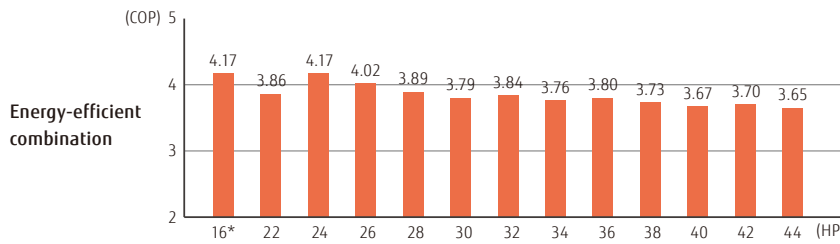
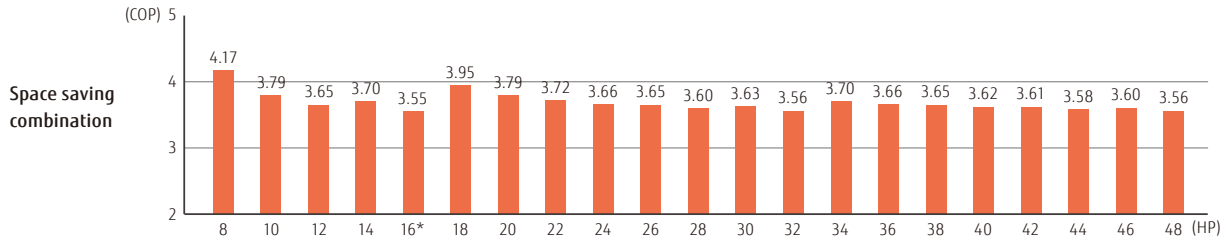


Improvements differ in terms of the system combination, installation condition, and operating environment.

Defrosting operations prevent drops in room temperature to maintain indoor comfort.

Efficiency in actual operating conditions

Class-leading high COP (Maximum) The use of our proprietary heat exchanger structure and high-efficiency DC twin-rotary compressors achieves the class-leading coefficient of performance (COP) in every combination.



* These specifications are determined by Cassette combination.
* Multiple outdoor units are not certified by Eurovent.

All-inverter compressor

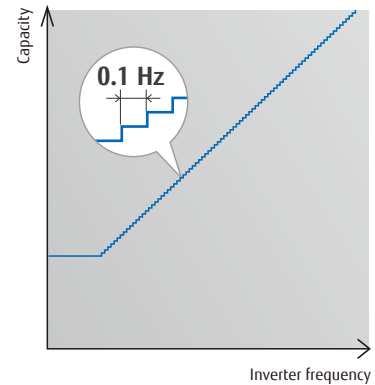
Large-capacity DC inverter compressor

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



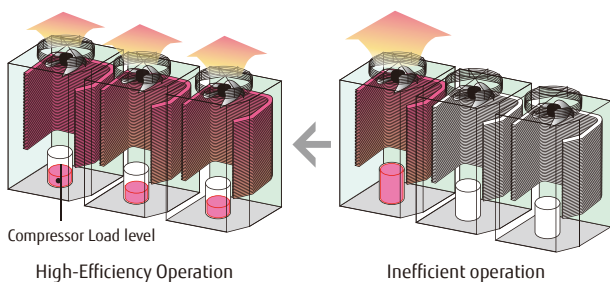
High-efficiency compressor speed control

The compressor speed control in 0.1 Hz increments ensures a comfortable space with less change in room temperature and less energy loss.



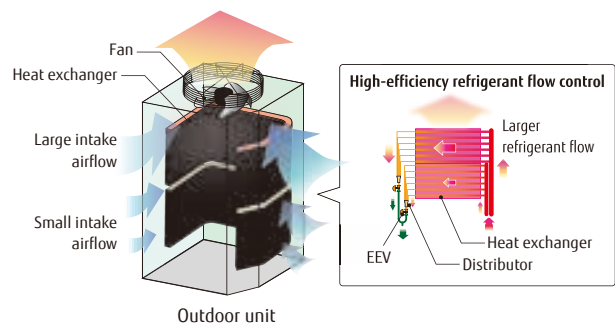
Multiple outdoor operation control

When multiple outdoor units are connected, each compressor carries out sophisticated operation. Instead of operating one compressor at full load to distribute the refrigerant to one heat exchanger, all compressors operate at partial load to distribute the refrigerant to all heat exchangers, thereby improving the efficiency of the entire system.



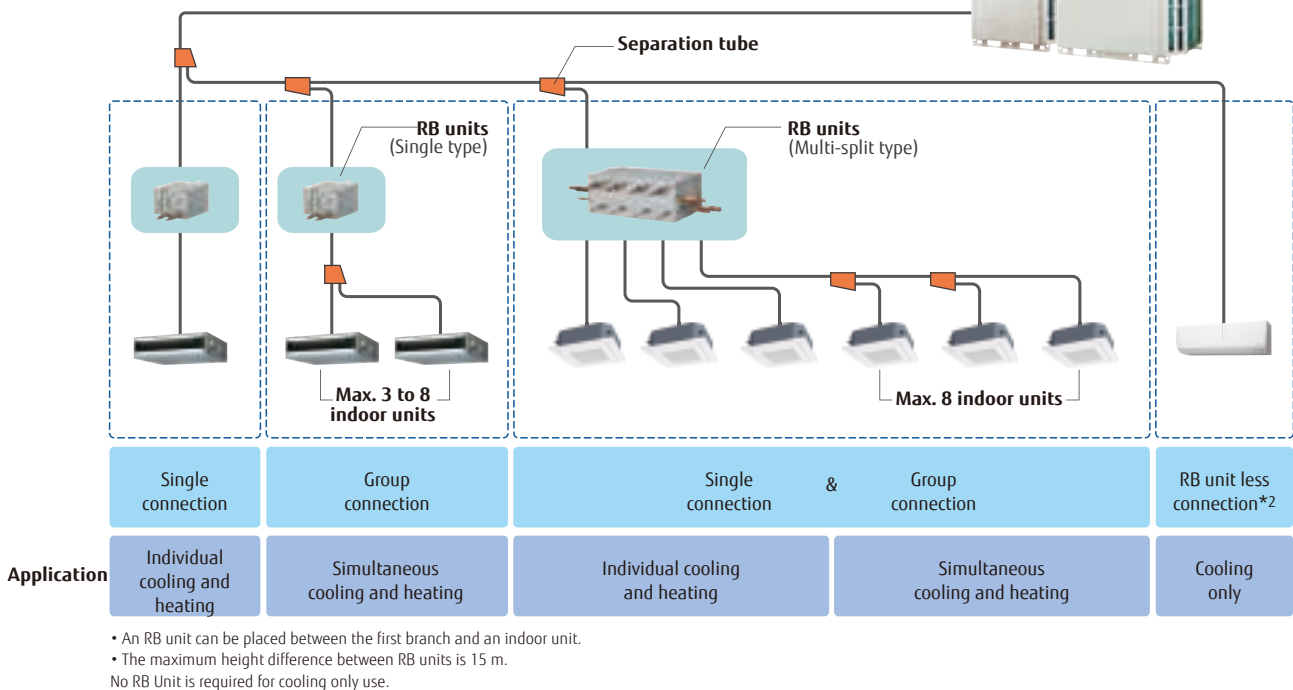
Heat exchanger refrigerant control

The heat exchanger in the outdoor unit is divided into two parts, upper and lower. The efficiency of the heat exchanger has been improved by adopting an optimum refrigerant path control where the refrigerant is distributed more into the top heat exchanger as this is where there is a greater air flow intake.



Flexible pipe connection

More flexible refrigerant pipe work is possible due to the use of various piping and RB unit connections, for adjustments to the floor layout and building structure.



Flexible installation of RB unit

Small and slim design with a height of 198 mm makes it easy to install in tight spaces with height constraints.

- A drain pipe is not required.
- Different positions of a control box can be chosen to accommodate installation conditions.
- Series connection for simplified installation

*: RB unit (single type)



An RB unit can be installed on either side of the control box.



An RB unit can be installed on top of the control box to save space.

*: RB unit (single type)



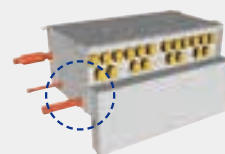
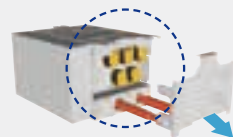
RB units (Multi-split type/8-branch)



RB units (Multi-split type/12-branch)

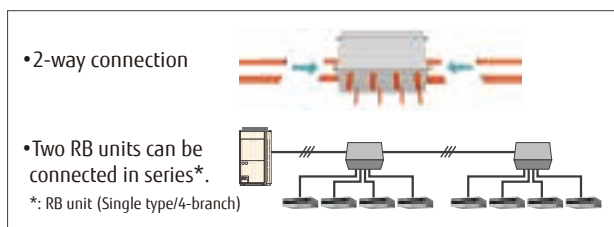
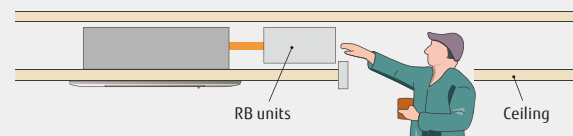
Easy maintenance in tight spaces

Maintenance can be performed from the side.



The electrical box can be accessed and serviced by sliding down the front cover.

Parts can be accessed and replaced easily even in tight spaces inside the ceiling.



Outdoor units lineup • Combinations other than those listed below are not recommended.

Space saving combination

<p>22.4kW (8HP)</p>  <p>AJY072GALDH UNIT : AJY072GALDH</p>	<p>28.0kW (10HP)</p>  <p>AJY090GALDH UNIT : AJY090GALDH</p>	<p>33.5kW (12HP)</p>  <p>AJY108GALDH UNIT : AJY108GALDH</p>	<p>40.0kW (14HP)</p>  <p>AJY126GALDH UNIT : AJY126GALDH</p>	<p>45.0kW (16HP)</p>  <p>AJY144GALDH UNIT : AJY144GALDH</p>
<p>50.4kW (18HP)</p>  <p>AJY162GALDH UNIT : AJY090/072GALDH</p>	<p>56.0kW (20HP)</p>  <p>AJY180GALDH UNIT : AJY090/090GALDH</p>	<p>61.5kW (22HP)</p>  <p>AJY198GALDH UNIT : AJY108/090GALDH</p>	<p>67.0kW (24HP)</p>  <p>AJY216GALDH UNIT : AJY108/108GALDH</p>	<p>73.0kW (26HP)</p>  <p>AJY234GALDH UNIT : AJY144/090GALDH</p>
<p>78.5kW (28HP)</p>  <p>AJY252GALDH UNIT : AJY144/108GALDH</p>	<p>85.0kW (30HP)</p>  <p>AJY270GALDH UNIT : AJY144/126GALDH</p>	<p>90.0kW (32HP)</p>  <p>AJY288GALDH UNIT : AJY144/144GALDH</p>	<p>95.0kW (34HP)</p>  <p>AJY306GALDH UNIT : AJY108/108/090GALDH</p>	<p>100.5kW (36HP)</p>  <p>AJY324GALDH UNIT : AJY108/108/108GALDH</p>
<p>106.5kW (38HP)</p>  <p>AJY342GALDH UNIT : AJY144/108/090GALDH</p>	<p>112.0kW (40HP)</p>  <p>AJY360GALDH UNIT : AJY144/108/108GALDH</p>	<p>118.0kW (42HP)</p>  <p>AJY378GALDH UNIT : AJY144/144/090GALDH</p>	<p>123.5kW (44HP)</p>  <p>AJY396GALDH UNIT : AJY144/144/108GALDH</p>	<p>130.0kW (46HP)</p>  <p>AJY414GALDH UNIT : AJY144/144/126GALDH</p>
<p>135.0kW (48HP)</p>  <p>AJY432GALDH UNIT : AJY144/144/144GALDH</p>				

Energy efficiency combination

<p>44.8kW (16HP)</p>  <p>AJY144GALDHH UNIT : AJY072/072GALDH</p>	<p>62.4kW (22HP)</p>  <p>AJY198GALDHH UNIT : AJY126/072GALDH</p>	<p>67.2kW (24HP)</p>  <p>AJY216GALDHH UNIT : AJY072/072/072GALDH</p>	<p>72.8kW (26HP)</p>  <p>AJY234GALDHH UNIT : AJY090/072/072GALDH</p>	<p>78.4kW (28HP)</p>  <p>AJY252GALDHH UNIT : AJY090/090/072GALDH</p>
<p>84.0kW (30HP)</p>  <p>AJY270GALDHH UNIT : AJY090/090/090GALDH</p>	<p>90.4kW (32HP)</p>  <p>AJY288GALDHH UNIT : AJY126/090/072GALDH</p>	<p>96.0kW (34HP)</p>  <p>AJY306GALDHH UNIT : AJY126/090/090GALDH</p>	<p>102.4kW (36HP)</p>  <p>AJY324GALDHH UNIT : AJY126/126/072GALDH</p>	<p>108.0kW (38HP)</p>  <p>AJY342GALDHH UNIT : AJY126/126/090GALDH</p>
<p>113.0kW (40HP)</p>  <p>AJY360GALDHH UNIT : AJY144/126/090GALDH</p>	<p>120.0kW (42HP)</p>  <p>AJY378GALDHH UNIT : AJY126/126/126GALDH</p>	<p>125.0kW (44HP)</p>  <p>AJY396GALDHH UNIT : AJY144/126/126GALDH</p>		

8,10,12HP : AJY072GALDH / AJY090GALDH / AJY108GALDH
 14,16HP : AJY126GALDH / AJY144GALDH



8, 10, 12 HP

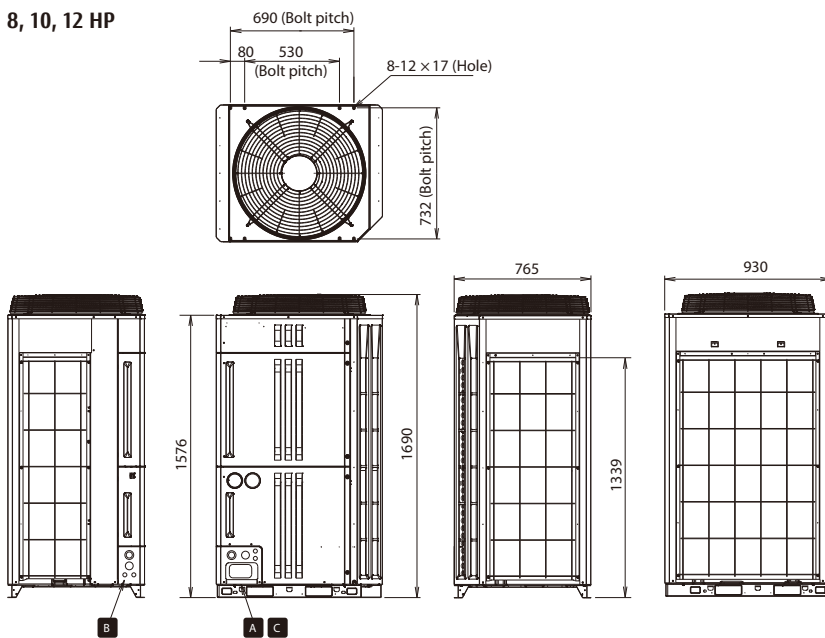
14, 16 HP

*Actual product's design may be different from the images.

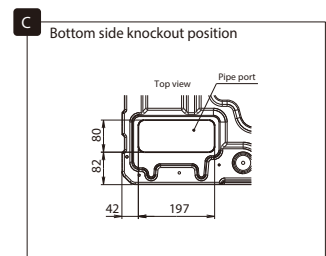
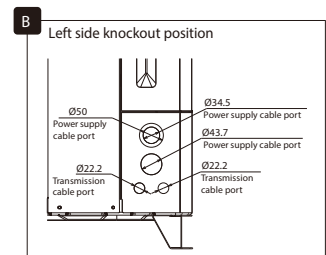
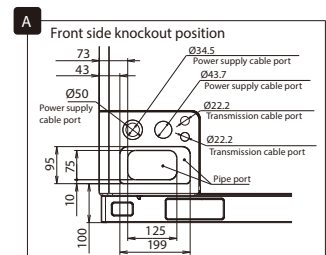
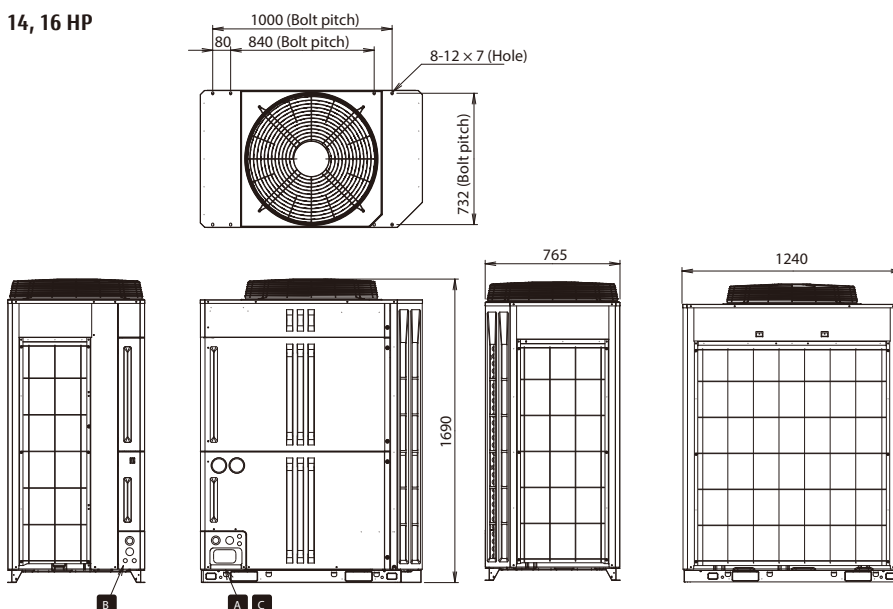
Dimensions

(Unit: mm)

8, 10, 12 HP



14, 16 HP



Outdoor unit specifications

Space saving combination

Rated capacity range		HP	8	10	12	14	16	18	20	22	24
Model name			AJH072GALDH	AJY090GALDH	AJY108GALDH	AJY126GALDH	AJY144GALDH	AJY162GALDH	AJY180GALDH	AJY198GALDH	AJY216GALDH
Unit 1			AJH072GALDH	AJY090GALDH	AJY108GALDH	AJY126GALDH	AJY144GALDH	AJY090GALDH	AJY090GALDH	AJY108GALDH	AJY108GALDH
Unit 2								AJY072GALDH	AJY090GALDH	AJY090GALDH	AJY108GALDH
Unit 3											AJY108GALDH
Maximum connectable indoor units*1			17	21	26	30	34	39	43	47	52
Connectable capacity range of indoor units		kW	5.6-33.6	7.0-42.0	8.4-50.2	10.0-60.0	11.3-67.5	12.6-75.6*3	14.0-84.0*3	15.4-92.2*3	16.8-100.5*3
Power source			3-phase, 4-wire, 400 V, 50Hz								
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0
	Nominal Heating		22.4	28.0	33.5	40.0	42.0	50.4	56.0	61.5	67.0
	Max. Heating		25.0	31.5	37.5	45.0	48.0	56.5	63.0	69.0	75.0
Input power	Cooling	kW	6.26	9.53	11.89	13.16	16.71	15.79	19.06	21.42	23.78
	Nominal Heating		5.37	7.38	9.16	10.80	11.81	12.75	14.76	16.54	18.32
	Max. Heating		6.25	8.96	11.48	13.95	14.98	15.21	17.92	20.44	22.96
EER	Cooling		3.57	2.93	2.81	3.03	2.69	3.19	2.94	2.87	2.82
COP	Nominal Heating	W/W	4.17	3.79	3.65	3.70	3.55	3.95	3.79	3.72	3.66
	Max. Heating		4.00	3.51	3.26	3.22	3.20	3.71	3.52	3.38	3.27
SEER	Cooling		7.16	6.61	6.73	6.76	6.27	6.89	6.61	6.67	6.73
SCOP	Heating		3.78	3.76	3.86	4.31	4.41	3.77	3.76	3.81	3.86
ηc	Cooling	%	283.0	261.0	266.0	267.0	248.0	272.0	261.0	263.5	266.0
ηh	Heating		148.0	147.0	151.0	169.0	173.0	147.5	147.0	149.0	151.0
Air flow rate	High	m ³ /h	11,100	11,100	11,100	13,000	13,000	11,100×2	11,100×2	11,100×2	11,100×2
Sound pressure level*2/	Cooling	dB(A)	56 / 77	58 / 78	59 / 79	60 / 82	61 / 82	60 / 81	61 / 81	62 / 82	62 / 82
	Power level		Heating	58 / 79	59 / 79	63 / 82	62 / 83	63 / 83	62 / 82	62 / 82	64 / 84
Max. External static pressure		Pa	80	80	80	80	80	80	80	80	80
Compressor motor output		kW	7.5	7.5	7.5	11.0	11.0	7.5 × 2	7.5 × 2	7.5 × 2	7.5 × 2
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930	930	930	1,240	1,240	930 × 2	930 × 2	930 × 2	930 × 2
	Depth		765	765	765	765	765	765	765	765	765
Weight		kg	262	262	262	286	286	262 × 2	262 × 2	262 × 2	262 × 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)	R410A (2,088)	R410A (2,088)
	Charge	kg (CO2eq-T)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.8 × 2 (24.6 × 2)	11.8 × 2 (24.6 × 2)	11.8 × 2 (24.6 × 2)	11.8 × 2 (24.6 × 2)
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88
	Discharge Gas		15.88	19.05	19.05	22.22	22.22	22.22	22.22	28.58	28.58
	Suction Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92
Operating Range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

Energy Efficiency Combination

Rated capacity range		HP	16	22	24	26	28	30
Model name			AJY144GALDHH	AJY198GALDHH	AJY216GALDHH	AJY234GALDHH	AJY252GALDHH	AJY270GALDHH
Unit 1			AJY072GALDH	AJY126GALDH	AJY072GALDH	AJY090GALDH	AJY090GALDH	AJY090GALDH
Unit 2			AJY072GALDH	AJY072GALDH	AJY072GALDH	AJY072GALDH	AJY090GALDH	AJY090GALDH
Unit 3						AJY072GALDH	AJY072GALDH	AJY090GALDH
Maximum connectable indoor units*1			34	47	52	56	60	64
Connectable capacity range of indoor units		kW	11.2-67.2*3	15.6-93.6*3	16.8-100.8*3	18.2-109.2*3	19.6-117.6*3	21.0-126.0*3
Power source			3-phase, 4-wire, 400 V, 50Hz					
Capacity	Cooling	kW	44.8	62.4	67.2	72.8	78.4	84.0
	Nominal Heating		44.8	62.4	67.2	72.8	78.4	84.0
	Max. Heating		50.0	70.0	75.0	81.5	88.0	94.5
Input power	Cooling	kW	12.52	19.42	18.78	22.05	25.32	28.59
	Nominal Heating		10.74	16.17	16.11	18.12	20.13	22.14
	Max. Heating		12.50	20.20	18.75	21.46	24.17	26.88
EER	Cooling		3.58	3.21	3.58	3.30	3.10	2.94
COP	Nominal Heating	W/W	4.17	3.86	4.17	4.02	3.89	3.79
	Max. Heating		4.00	3.47	4.00	3.80	3.64	3.52
SEER	Cooling		7.16	6.96	7.16	6.98	6.79	6.61
SCOP	Heating		3.78	4.05	3.78	3.77	3.77	3.76
ηc	Cooling	%	283.0	275.0	283.0	275.7	268.3	261.0
ηh	Heating		148.0	158.5	148.0	147.7	147.3	147.0
Air flow rate	High	m ³ /h	11,100×2	13,000×11,100	11,100×3	11,100×3	11,100×3	11,100×3
Sound pressure level*2/	Cooling	dB(A)	59 / 80	61 / 83	61 / 83	62 / 82	62 / 82	63 / 83
	Power level		Heating	61 / 82	63 / 84	63 / 84	63 / 84	63 / 84
Max. External static pressure		Pa	80	80	80	80	80	80
Compressor motor output		kW	7.5 × 2	11.0 + 7.5	7.5 × 3	7.5 × 3	7.5 × 3	7.5 × 3
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930 × 2	1,240 + 930	930 × 3	930 × 3	930 × 3	930 × 3
	Depth		765	765	765	765	765	765
Weight		kg	262 × 2	286 + 262	262 × 3	262 × 3	262 × 3	262 × 3
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 (CO2eq-T)	11.8 × 2 (24.6 × 2)	11.8 × 2 (24.6 × 2)	11.8 × 3 (24.6 × 3)	11.8 × 3 (24.6 × 3)	11.8 × 3 (24.6 × 3)	11.8 × 3 (24.6 × 3)
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	19.05
	Discharge Gas		22.22	28.58	28.58	28.58	28.58	28.58
	Suction Gas		28.58	34.92	34.92	34.92	34.92	34.92
Operating Range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

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

When cooling operation is be conducted at an outdoor air temperature below -5°C, the outdoor unit must be installed in a position that is higher than or equal to that of the indoor units.
 * These specifications are determined by ducted combination.
 * Multiple outdoor units are not certified by Eurotest.

26	28	30	32	34	36	38	40	42	44	46	48
AJY234GALDH	AJY252GALDH	AJY270GALDH	AJY288GALDH	AJY306GALDH	AJY324GALDH	AJY342GALDH	AJY360GALDH	AJY378GALDH	AJY396GALDH	AJY414GALDH	AJY432GALDH
AJY144GALDH AJY090GALDH	AJY144GALDH AJY108GALDH	AJY144GALDH AJY126GALDH	AJY144GALDH AJY144GALDH	AJY108GALDH AJY108GALDH AJY090GALDH	AJY108GALDH AJY108GALDH AJY108GALDH	AJY144GALDH AJY108GALDH AJY090GALDH	AJY144GALDH AJY108GALDH AJY108GALDH	AJY144GALDH AJY144GALDH AJY090GALDH	AJY144GALDH AJY144GALDH AJY108GALDH	AJY144GALDH AJY144GALDH AJY126GALDH	AJY144GALDH AJY144GALDH AJY144GALDH
56 18.3-109.5*3	60 19.7-117.7*3	64 21.3-127.5*3	64 22.5-135.0*3	64 23.8-142.5*3	64 25.2-150.7*3	64 26.7-159.7*3	64 28.0-168.0*3	64 29.5-177.0*3	64 30.9-185.2*3	64 32.5-195.0*3	64 33.8-202.5*3
3-phase, 4-wire, 400 V, 50Hz											
73.0	78.5	85.0	90.0	95.0	100.5	106.5	112.0	118.0	123.5	130.0	135.0
70.0	75.5	82.0	84.0	95.0	100.5	103.5	109.0	112.0	117.5	124.0	126.0
79.5	85.5	93.0	96.0	106.5	112.5	117.0	123.0	127.5	133.5	141.0	144.0
26.24	28.60	29.87	33.42	33.31	35.67	38.13	40.49	42.95	45.31	46.58	50.13
19.19	20.97	22.61	23.62	25.70	27.48	28.35	30.13	31.00	32.78	34.42	35.43
23.94	26.46	28.93	29.96	31.92	34.44	35.42	37.94	38.92	41.44	43.91	44.94
2.78	2.74	2.85	2.69	2.85	2.82	2.79	2.77	2.75	2.73	2.79	2.69
3.65	3.60	3.63	3.56	3.70	3.66	3.65	3.62	3.61	3.58	3.60	3.56
3.32	3.23	3.21	3.20	3.34	3.27	3.30	3.24	3.28	3.22	3.21	3.20
6.44	6.50	6.52	6.27	6.69	6.73	6.54	6.58	6.38	6.42	6.43	6.27
4.09	4.14	4.36	4.41	3.83	3.86	4.01	4.04	4.19	4.23	4.38	4.41
254.5	257.0	257.5	248.0	264.3	266.0	258.3	260.0	252.3	254.0	254.3	248.0
160.0	162.0	171.0	173.0	149.7	151.0	157.0	158.3	164.3	165.7	171.7	173.0
13,000+11,100	13,000+11,100	13,000×2	13,000×2	11,100×3	11,100×3	13,000+11,100×2	13,000+11,100×2	13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3
63 / 83	63 / 84	64 / 85	64 / 85	63 / 83	64 / 84	64 / 85	65 / 85	65 / 86	65 / 86	65 / 87	66 / 87
64 / 84	66 / 86	66 / 86	66 / 86	67 / 86	68 / 87	67 / 86	68 / 87	67 / 87	68 / 87	67 / 88	68 / 88
80	80	80	80	80	80	80	80	80	80	80	80
11.0 × 7.5	11.0 × 7.5	11.0 × 2	11.0 × 2	7.5 × 3	7.5 × 3	11.0 × 7.5 × 2	11.0 × 7.5 × 2	11.0 × 2 + 7.5	11.0 × 2 + 7.5	11.0 × 3	11.0 × 3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240 × 930	1,240 × 930	1,240 × 2	1,240 × 2	930 × 3	930 × 3	1,240 × 930 × 2	1,240 × 930 × 2	1,240 × 2 + 930	1,240 × 2 + 930	1,240 × 3	1,240 × 3
765	765	765	765	765	765	765	765	765	765	765	765
286 × 262	286 × 262	286 × 2	286 × 2	262 × 3	262 × 3	286 × 262 × 2	286 × 262 × 2	286 × 2 + 262	286 × 2 + 262	286 × 3	286 × 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)
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 × 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)	11.8 × 3 (24.6 × 3)	11.8 × 3 (24.6 × 3)
15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
28.58	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92
34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27
-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
-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
-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

32	34	36	38	40	42	44
AJY288GALDHH	AJY306GALDHH	AJY324GALDHH	AJY342GALDHH	AJY360GALDHH	AJY378GALDHH	AJY396GALDHH
AJY126GALDH AJY090GALDH AJY072GALDH	AJY126GALDH AJY090GALDH AJY090GALDH	AJY126GALDH AJY126GALDH AJY072GALDH	AJY126GALDH AJY126GALDH AJY090GALDH	AJY144GALDH AJY126GALDH AJY090GALDH	AJY126GALDH AJY126GALDH AJY126GALDH	AJY144GALDH AJY126GALDH AJY126GALDH
64 22.6-135.6*3	64 24.0-144.0*3	64 25.6-153.6*3	64 27.0-162.0*3	64 28.3-169.5*3	64 30.0-180.0*3	64 31.3-187.5*3
3-phase, 4-wire, 400 V, 50Hz						
90.4	96.0	102.4	108.0	113.0	120.0	125.0
90.4	96.0	102.4	108.0	110.0	120.0	122.0
101.5	108.0	115.0	121.5	124.5	135.0	138.0
28.95	32.22	32.58	35.85	39.40	39.48	43.03
23.55	25.56	26.97	28.98	29.99	32.40	33.41
29.16	31.87	34.15	36.86	37.89	41.85	42.88
3.12	2.98	3.14	3.01	2.87	3.04	2.90
3.84	3.76	3.80	3.73	3.67	3.70	3.65
3.48	3.39	3.37	3.30	3.29	3.23	3.22
6.84	6.66	6.89	6.71	6.55	6.76	6.60
3.95	3.94	4.13	4.13	4.16	4.31	4.34
270.3	263.0	272.3	265.0	258.7	267.0	260.7
154.7	154.3	162.0	161.7	163.0	169.0	170.3
13,000+11,100×2	13,000+11,100×2	13,000×2+11,100	13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3
63 / 84	64 / 85	64 / 86	64 / 86	65 / 86	65 / 87	65 / 87
65 / 86	65 / 86	66 / 87	66 / 87	66 / 87	67 / 88	67 / 88
80	80	80	80	80	80	80
11.0 × 7.5 × 2	11.0 × 7.5 × 2	11.0 × 2 + 7.5	11.0 × 2 + 7.5	11.0 × 2 + 7.5	11.0 × 3	11.0 × 3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240 × 930 × 2	1,240 × 930 × 2	1,240 × 2 + 930	1,240 × 2 + 930	1,240 × 2 + 930	1,240 × 3	1,240 × 3
765	765	765	765	765	765	765
286 × 262 × 2	286 × 262 × 2	286 × 2 + 262	286 × 2 + 262	286 × 2 + 262	286 × 3	286 × 3
R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
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)	11.8 × 3 (24.6 × 3)
19.05	19.05	19.05	19.05	19.05	19.05	19.05
28.58	28.58	28.58	34.92	34.92	34.92	34.92
34.92	34.92	41.27	41.27	41.27	41.27	41.27
-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

*1: Max. number of connectable indoor units is 2.

*2: The noise level is the value measured in an anechoic room. When measured in an actual installation, the measured value is typically larger than the indicated value due to ambient noise and reflections.

*3: If the capacity range of the connectable indoor units is between 25% and 49.9%, do not open the three-way valve except for the unit to be operated. In addition, do not connect the power line.

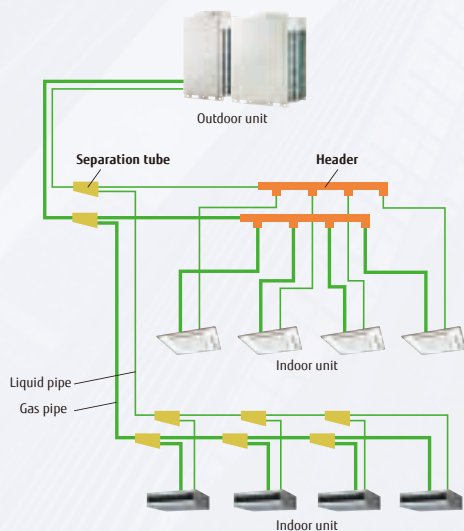
Heat Pump

Modular Type

VRF V-IV

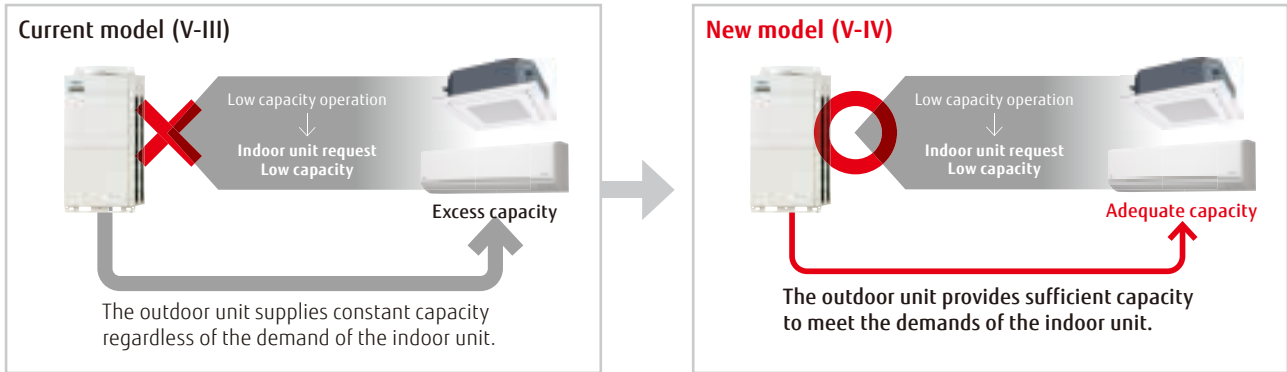
System configuration example

- Suitable for air conditioning midsize and large buildings. Connecting each outdoor unit makes it possible to create a high-capacity system.
- Multiple indoor units are connected with separation tubes and headers.



New intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function. The refrigerant control operates with subtle control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control can also provide increased energy savings.

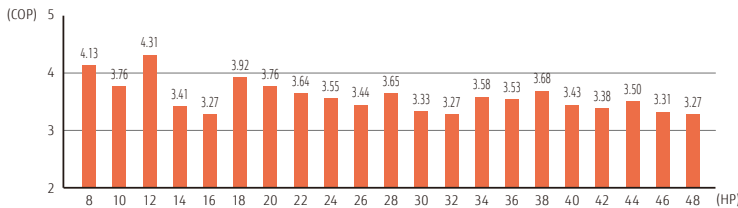


* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

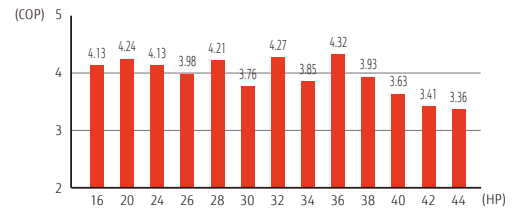
Efficiency in actual operating conditions

The use of our proprietary heat exchanger structure and high-efficiency DC twin-rotary compressors achieves the class-leading coefficient of performance (COP) in every combination.

Space saving combination



Energy efficiency combination



* These specifications are determined by Cassette combination. *Multiple outdoor units are not certified by Eurovent.

The energy-saving technology that boosted operation efficiency



Powerful large propeller fan

The fan uses CFD* technology to achieve both high performance and low noise operation. *CFD: Computational Fluid Dynamics



3-phase DC fan motor

The use of a DC fan motor with sophisticated driver control improves energy efficiency substantially. In addition, low noise is realized by the DC fan motor.



Sine-wave DC inverter control

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



4-face heat exchanger

The 4-face heat exchanger increases the effective surface area and significantly improves heat-exchanging efficiency.



Subcooling heat exchanger

High heat exchange efficiency is achieved by using an internal projection-shape double-pipe construction.



High-efficient, large-capacity DC twin-rotary compressor

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





















Front intake port (Corner cut air inlet structure)

In multiple outdoor unit installations, the unique front intake design improves airflow into the heat exchanger.

Outdoor units lineup • Combinations other than those listed below are not recommended.

Space saving combination

<p>22.4 kW (8 HP)</p>  <p>AJY072LALDH UNIT: AJY072LALDH</p>	<p>28.0 kW (10 HP)</p>  <p>AJY090LALDH UNIT: AJY090LALDH</p>	<p>33.5 kW (12 HP)</p>  <p>AJY108LALDH UNIT: AJY108LALDH</p>	<p>40.0 kW (14 HP)</p>  <p>AJY126LALDH UNIT: AJY126LALDH</p>	<p>45.0 kW (16 HP)</p>  <p>AJY144LALDH UNIT: AJY144LALDH</p>
<p>50.4 kW (18 HP)</p>  <p>AJY162LALDH UNIT: AY090/072LALDH</p>	<p>56.0 kW (20 HP)</p>  <p>AJY180LALDH UNIT: AJY090/090LALDH</p>	<p>62.4 kW (22 HP)</p>  <p>AJY198LALDH UNIT: AJY126/072LALDH</p>	<p>68.0 kW (24 HP)</p>  <p>AJY216LALDH UNIT: AJY126/090LALDH</p>	<p>73.0 kW (26 HP)</p>  <p>AJY234LALDH UNIT: AJY144/090LALDH</p>
<p>78.5 kW (28 HP)</p>  <p>AJY252LALDH UNIT: AJY144/108LALDH</p>	<p>85.0 kW (30 HP)</p>  <p>AJY270LALDH UNIT: AJY144/126LALDH</p>	<p>90.0 kW (32 HP)</p>  <p>AJY288LALDH UNIT: AJY144/144LALDH</p>	<p>95.4 kW(34 HP)</p>  <p>AJY306LALDH UNIT: AJY144/090/072LALDH</p>	<p>101.0 kW (36 HP)</p>  <p>AJY324LALDH UNIT: AJY144/090/090LALDH</p>
<p>106.5 kW (38 HP)</p>  <p>AJY342LALDH UNIT: AJY144/108/090LALDH</p>	<p>113.0 kW (40 HP)</p>  <p>AJY360LALDH UNIT: AJY144/126/090LALDH</p>	<p>118.0 kW (42 HP)</p>  <p>AJY378LALDH UNIT: AJY144/144/090LALDH</p>	<p>123.5 kW (44 HP)</p>  <p>AJY396LALDH UNIT: AJY144/144/108LALDH</p>	<p>130.0 kW (46 HP)</p>  <p>AJY414LALDH UNIT: AJY144/144/126LALDH</p>
<p>135.0 kW (48 HP)</p>  <p>AJY432LALDH UNIT: AJY144/144/144LALDH</p>				

Energy efficiency combination

<p>44.8 kW (16 HP)</p>  <p>AJY144LALDHH UNIT: AJY072/072LALDH</p>	<p>55.9 kW (20 HP)</p>  <p>AJY180LALDHH UNIT: AJY108/072LALDH</p>	<p>67.2 kW (24 HP)</p>  <p>AJY216LALDHH UNIT: AJY072/072/072LALDH</p>	<p>72.8 kW (26 HP)</p>  <p>AJY234LALDHH UNIT: AJY090/072/072LALDH</p>	<p>78.3 kW (28 HP)</p>  <p>AJY252LALDHH UNIT: AJY108/072/072LALDH</p>
<p>84.8 kW (30 HP)</p>  <p>AJY270LALDHH UNIT: AJY126/072/072LALDH</p>	<p>89.4 kW (32 HP)</p>  <p>AJY288LALDHH UNIT: AJY108/108/072LALDH</p>	<p>95.9 kW (34 HP)</p>  <p>AJY306LALDHH UNIT: AJY126/108/072LALDH</p>	<p>100.5 kW (36 HP)</p>  <p>AJY324LALDHH UNIT: AJY108/108/108LALDH</p>	<p>107.0 kW (38 HP)</p>  <p>AJY342LALDHH UNIT: AJY126/108/108LALDH</p>
<p>113.5 kW (40 HP)</p>  <p>AJY360LALDHH UNIT: AJY126/126/108LALDH</p>	<p>120.0 kW (42 HP)</p>  <p>AJY378LALDHH UNIT: AJY126/126/126LALDH</p>	<p>125.0 kW (44 HP)</p>  <p>AJY396LALDHH UNIT: 144/126/126LALDH</p>		

8, 10 HP: AJY072LALDH/AJY090LALDH
 12, 14, 16 HP: AJY108LALDH/AJY126LALDH/AJY144LALDH



8, 10 HP

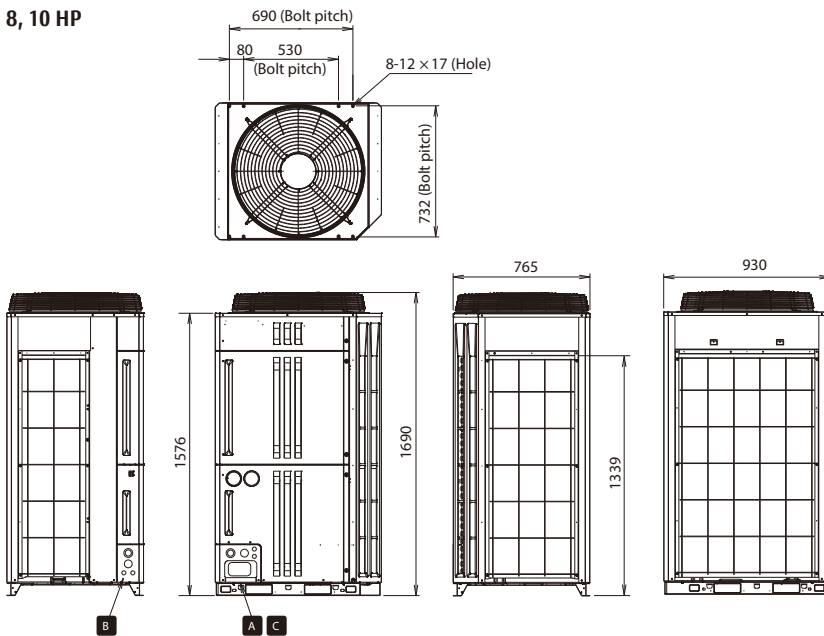
12, 14, 16 HP

*Actual product's design may be different from the images.

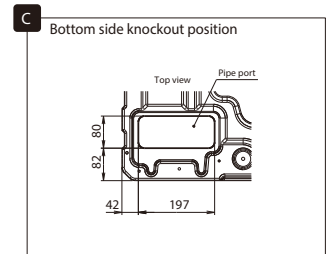
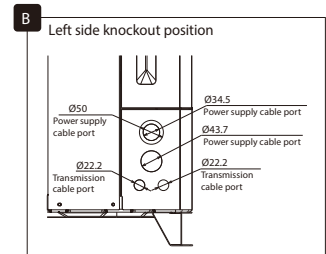
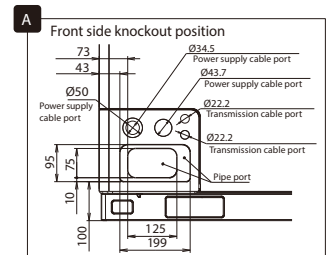
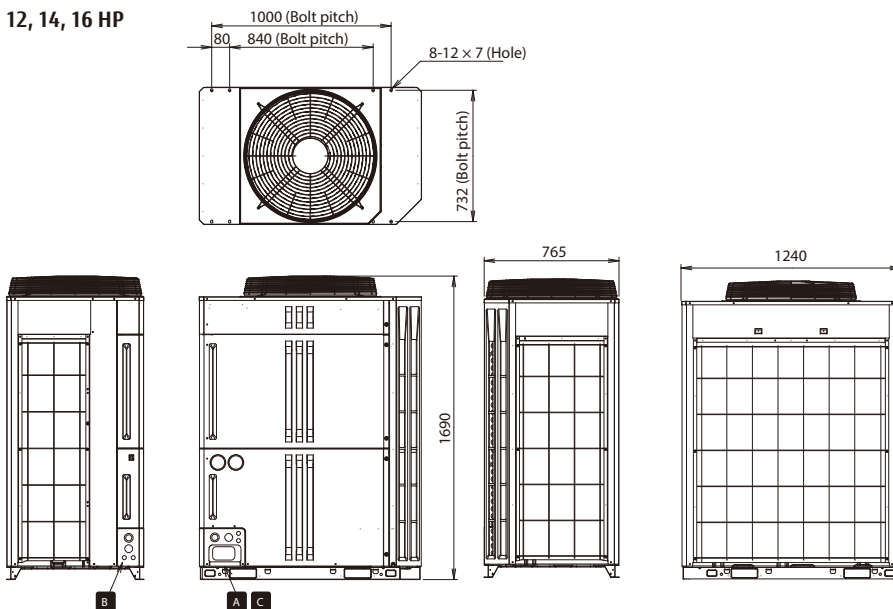
Dimensions

(Unit: mm)

8, 10 HP



12, 14, 16 HP



Outdoor unit specifications

Space saving combination

Rated capacity range		HP	8	10	12	14	16	18	20	22	24
Model name			AJY072LALDH	AJY090LALDH	AJY108LALDH	AJY126LALDH	AJY144LALDH	AJY162LALDH	AJY180LALDH	AJY198LALDH	AJY216LALDH
Unit 1			AJY072LALDH	AJY090LALDH	AJY108LALDH	AJY126LALDH	AJY144LALDH	AJY090LALDH	AJY090LALDH	AJY126LALDH	AJY126LALDH
Unit 2								AJY072LALDH	AJY090LALDH	AJY072LALDH	AJY090LALDH
Unit 3											AJY090LALDH
Maximum connectable indoor units*1			17	21	26	30	34	39	43	47	52
Connectable capacity range of indoor units		kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.2-75.6	28.0-84.0	31.2-93.6	34.0-102.0
Power source		3-phase, 4-wire, ~400 V, 50 Hz									
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	62.4	68.0
	Nominal Heating		22.4	28.0	33.5	40.0	45.0	50.4	56.0	62.4	68.0
	Max. Heating		25.0	31.5	37.5	45.0	48.0	56.5	63.0	70.0	76.5
Input power	Cooling	kW	5.95	9.06	9.54	13.18	16.74	15.01	18.12	19.13	22.24
	Nominal Heating		5.42	7.44	7.76	11.74	13.76	12.86	14.88	17.16	19.18
	Max. Heating		6.26	8.98	9.48	14.00	15.02	15.24	17.96	20.26	22.98
EER	Cooling	W/W	3.76	3.09	3.51	3.03	2.68	3.36	3.09	3.26	3.06
	Nominal Heating		4.13	3.76	4.31	3.41	3.27	3.92	3.76	3.64	3.55
	Max. Heating		3.99	3.50	3.95	3.21	3.19	3.51	3.51	3.46	3.33
SEER	Cooling		7.09	6.56	7.33	6.67	6.18	6.83	6.56	6.64	6.62
	Heating		3.83	3.80	4.19	4.19	4.27	3.82	3.80	4.05	4.00
SCOP			281.0	259.0	290.0	264.0	244.0	270.0	259.0	262.5	261.5
ηc	Cooling	%	150.0	149.0	165.0	165.0	168.0	149.5	149.0	159.0	157.0
ηh	Heating										
Air flow rate	High	m³/h	11,100	11,100	13,000	13,000	13,700	11,100×2	11,100 × 2	13,000 + 11,100	13,000 + 11,100
Sound pressure level*2/	Cooling	dB(A)	58 / 79	58 / 79	58 / 81	62 / 84	63 / 86	61 / 82	61 / 82	63 / 85	63 / 85
Power level	Heating		59 / 80	60 / 81	60 / 83	64 / 85	65 / 87	63 / 84	63 / 84	65 / 86	65 / 86
Max. External static pressure		Pa	82	82	82	82	82	82	82	82	82
Compressor motor output		kW	7.5	7.5	11.0	11.0	11.0	7.5×2	7.5 × 2	11.0 + 7.5	11.0 + 7.5
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930	930	1,240	1,240	1,240	930 × 2	930 × 2	1,240 + 930	1,240 + 930
	Depth		765	765	765	765	765	765	765	765	765
Weight		kg	252	252	275	275	275	252 × 2	252 × 2	275 + 252	275 + 252
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)
	Charge	kg (CO2eq-T)	11.7 (24.4)	11.7 (24.4)	11.8 (24.6)	11.8 (24.6)	11.8 (24.6)	11.7 × 2 (24.4 × 2)	11.7 × 2 (24.4 × 2)	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
	Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92
Operating Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-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	-20 to 21	-20 to 21	-20 to 21

Energy Efficiency Combination

Rated capacity range		HP	16	20	24	26	28	30
Model name			AJY144LALDHH	AJY180LALDHH	AJY216LALDHH	AJY234LALDHH	AJY252LALDHH	AJY270LALDHH
Unit 1			AJY072LALDH	AJY108LALDH	AJY072LALDH	AJY090LALDH	AJY108LALDH	AJY126LALDH
Unit 2			AJY072LALDH	AJY072LALDH	AJY072LALDH	AJY072LALDH	AJY072LALDH	AJY072LALDH
Unit 3					AJY072LALDH	AJY072LALDH	AJY072LALDH	AJY072LALDH
Maximum connectable indoor units*1			34	43	52	56	60	64
Connectable capacity range of indoor units		kW	22.4-67.2	28.0-83.8	33.6-100.8	36.4-109.2	39.2-117.4	42.4-127.2
Power source		3-phase, 4-wire, ~400 V, 50 Hz						
Capacity	Cooling	kW	44.8	55.9	67.2	72.8	78.3	84.8
	Nominal Heating		44.8	55.9	67.2	72.8	78.3	84.8
	Max. Heating		50.0	62.5	75.0	81.5	87.5	95.0
Input power	Cooling	kW	11.90	15.49	17.85	20.96	21.44	25.08
	Nominal Heating		10.84	13.18	16.26	18.28	18.60	22.58
	Max. Heating		12.52	15.74	18.78	21.50	22.00	26.52
EER	Cooling	W/W	3.76	3.61	3.76	3.47	3.65	3.38
	Nominal Heating		4.13	4.24	4.13	3.98	4.21	3.76
	Max. Heating		3.99	3.97	3.99	3.79	3.98	3.58
SEER	Cooling		7.09	7.21	7.09	6.91	7.17	6.79
	Heating		3.83	4.01	3.83	3.82	3.95	3.98
SCOP			281.0	285.5	281.0	273.7	284.0	275.3
ηc	Cooling	%	150.0	157.5	150.0	149.7	155.0	155.0
ηh	Heating							
Air flow rate	High	m³/h	11,100 × 2	13,000 + 11,100	11,100 × 3	11,000 × 3	13,000 + 11,100 × 2	13,000 + 11,100 × 2
Sound pressure level*2/	Cooling	dB(A)	61 / 82	61 / 83	63 / 84	63 / 84	63 / 85	65 / 86
Power level	Heating		62 / 83	63 / 85	64 / 85	64 / 85	64 / 86	66 / 87
Max. External static pressure		Pa	82	82	82	82	82	82
Compressor motor output		kW	7.5 × 2	11.0 + 7.5	7.5 × 3	7.5 × 3	11.0 + 7.5 × 2	11.0 + 7.5 × 2
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930 × 2	1,240 + 930	930 × 3	930 × 3	1,240 + 930 × 2	1,240 + 930 × 2
	Depth		765	765	765	765	765	765
Weight		kg	252 × 2	275 + 252	252 × 3	252 × 3	275 + 252 × 2	275 + 252 × 2
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 (CO2eq-T)	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	19.05
	Gas		28.58	28.58	34.92	34.92	34.92	34.92
Operating Range	Cooling	°CDB	-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 subject to 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.

When cooling operation is to be conducted at an outdoor air temperature below -5°C, the outdoor unit must be installed in a position that is higher than or equal to that of the indoor units.
 * These specifications are determined by ducted combination.
 *Multiple outdoor units are not certified by Eurovent.

26	28	30	32	34	36	38	40	42	44	46	48
AJY234LALDH	AJY252LALDH	AJY270LALDH	AJY288LALDH	AJY306LALDH	AJY324LALDH	AJY342LALDH	AJY360LALDH	AJY378LALDH	AJY396LALDH	AJY414LALDH	AJY432LALDH
AJY144LALDH AJY090LALDH	AJY144LALDH AJY108LALDH	AJY144LALDH AJY126LALDH	AJY144LALDH AJY144LALDH	AJY144LALDH AJY090LALDH AJY072LALDH	AJY144LALDH AJY090LALDH AJY090LALDH	AJY144LALDH AJY108LALDH AJY090LALDH	AJY144LALDH AJY126LALDH AJY090LALDH	AJY144LALDH AJY144LALDH AJY108LALDH	AJY144LALDH AJY144LALDH AJY144LALDH	AJY144LALDH AJY144LALDH AJY126LALDH	AJY144LALDH AJY144LALDH AJY144LALDH
56 36.5-109.5	60 39.3-117.7	64 42.5-127.5	64 45.0-135.0	64 47.7-143.1	64 50.5-151.5	64 53.3-159.7	64 56.5-169.5	64 59.0-177.0	64 61.8-185.2	64 65.0-195.0	64 67.5-202.5

3-phase, 4-wire, ~400 V, 50 Hz

73.0	78.5	85.0	90.0	95.4	101.0	106.5	113.0	118.0	123.5	130.0	135.0
73.0	78.5	85.0	90.0	95.4	101.0	106.5	113.0	118.0	123.5	130.0	135.0
79.5	85.5	93.0	96.0	104.5	111.0	117.0	124.5	127.5	133.5	141.0	144.0
25.80	26.28	29.92	33.48	31.75	34.86	35.34	38.98	42.54	43.02	46.66	50.22
21.20	21.52	25.50	27.52	26.62	28.64	28.96	32.94	34.96	35.28	39.26	41.28
24.00	24.50	29.02	30.04	30.26	32.98	33.48	38.00	39.02	39.52	44.04	45.06
2.83	2.99	2.84	2.69	3.00	2.90	3.01	2.90	2.77	2.87	2.79	2.69
3.44	3.65	3.33	3.27	3.58	3.53	3.68	3.43	3.38	3.50	3.31	3.27
3.31	3.49	3.20	3.20	3.45	3.37	3.49	3.28	3.27	3.38	3.20	3.20
6.37	6.76	6.43	6.18	6.61	6.43	6.69	6.47	6.31	6.56	6.34	6.18
4.04	4.23	4.23	4.27	3.97	3.96	4.09	4.09	4.11	4.24	4.24	4.27
251.5	267.0	254.0	244.0	261.3	254.0	264.3	255.7	249.0	259.3	250.7	244.0
158.5	166.5	166.5	168.0	155.7	155.3	160.7	160.7	161.7	167.0	167.0	168.0
13,700 + 11,100	13,700 + 13,000	13,700 + 13,000	13,700 × 2	13,700+11,100×2	13,700+11,100×2	13,700+13,000+11,100	13,700 + 13,000 + 11,100	13,700 × 2 + 11,100	13,700×2+13,000	13,700×2+13,000	13,700 × 3
64 / 87	64 / 87	66 / 88	66 / 89	65 / 87	65 / 87	65 / 88	66 / 89	67 / 89	67 / 90	67 / 90	68 / 91
66 / 88	66 / 88	68 / 89	68 / 90	67 / 89	67 / 89	67 / 89	68 / 90	69 / 91	69 / 91	69 / 91	70 / 92
82	82	82	82	82	82	82	82	82	82	82	82
11.0 × 7.5	11.0×2	11.0 × 2	11.0 × 2	11.0×7.5×2	11.0×7.5×2	11.0 × 2 + 7.5	11.0 × 2 + 7.5	11.0 × 2 + 7.5	11.0×3	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240 × 930	1,240 × 2	1,240 × 2	1,240 × 2	1,240 × 930 × 2	1,240 × 930 × 2	1,240 × 2 + 930	1,240 × 2 + 930	1,240 × 2 + 930	1,240 × 3	1,240 × 3	1,240 × 3
765	765	765	765	765	765	765	765	765	765	765	765
275 × 252	275 × 2	275 × 2	275 × 2	275 + 252 × 2	275 + 252 × 2	275 × 2 + 252	275 × 2 + 252	275 × 2 + 252	275 × 3	275 × 3	275 × 3
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 × 11.7 (24.6 × 24.4)	11.8 × 2 (24.6 × 2)	11.8 × 2 (24.6 × 2)	11.8 × 2 (24.6 × 2)	11.8 + 11.7 × 2 (24.6 × 24.4 × 2)	11.8 + 11.7 × 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 × 3 (24.6 × 3)	11.8 × 3 (24.6 × 3)	11.8 × 3 (24.6 × 3)
15.88	15.88	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	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
-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
AJY288LALDHH	AJY306LALDHH	AJY324LALDHH	AJY342LALDHH	AJY360LALDHH	AJY378LALDHH	AJY396LALDHH
AJY108LALDH AJY108LALDH AJY072LALDH	AJY126LALDH AJY108LALDH AJY072LALDH	AJY108LALDH AJY108LALDH AJY108LALDH	AJY126LALDH AJY108LALDH AJY108LALDH	AJY126LALDH AJY126LALDH AJY108LALDH	AJY126LALDH AJY126LALDH AJY126LALDH	AJY144LALDH AJY126LALDH AJY126LALDH
64 44.7-134.1	64 48.0-143.8	64 50.3-150.7	64 53.5-160.5	64 56.8-170.2	64 60.0-180.0	64 62.5-187.5

3-phase, 4-wire, ~400 V, 50 Hz

89.4	95.9	100.5	107.0	113.5	120.0	125.0
89.4	95.9	100.5	107.0	113.5	120.0	125.0
100.0	107.5	112.5	120.0	127.5	135.0	138.0
25.03	28.67	28.62	32.26	35.90	39.54	43.10
20.94	24.92	23.28	27.26	31.24	35.22	37.24
25.22	29.74	28.44	32.96	37.48	42.00	43.02
3.57	3.34	3.51	3.32	3.16	3.03	2.90
4.27	3.85	4.32	3.93	3.63	3.41	3.36
3.97	3.61	3.96	3.64	3.40	3.21	3.21
7.25	7.03	7.33	7.11	6.89	6.67	6.51
4.07	4.07	4.19	4.19	4.19	4.19	4.22
287.0	278.3	290.0	281.3	272.7	264.0	257.3
160.0	160.0	165.0	165.0	165.0	165.0	166.0
13,000 × 2 + 11,100	13,000 × 2 + 11,100	13,000 × 3	13,000 × 3	13,000 × 3	13,000 × 3	13,700 + 13,000 × 2
63 / 85	65 / 87	63 / 86	65 / 87	66 / 88	67 / 89	67 / 90
64 / 87	66 / 88	65 / 88	67 / 89	68 / 89	69 / 90	69 / 91
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
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240 × 2 + 930	1,240 × 2 + 930	1,240 × 3	1,240 × 3	1,240 × 3	1,240 × 3	1,240 × 3
765	765	765	765	765	765	765
275 × 2 + 252	275 × 2 + 252	275 × 3	275 × 3	275 × 3	275 × 3	275 × 3
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)
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
-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

*1 Minimum connectable indoor unit number is 2.
However, the ARXC72 and ARXC90 can be used with a signal connection.
*2 The noise level is the value measured in an anechoic room.

When measured in an actual installation, the measured value is typically larger than the indicated value due to ambient noise and reflections.
* These specifications are determined by ducted combination.

VRF INDOOR UNITS

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


















Indoor units for the VRF Systems are compact, highly efficient, quiet, and user-friendly. Fujitsu General offers a variety of types and capacities for its indoor units that are easy to install and maintain. In addition, a variety of optional parts are available to provide an even more desirable air conditioning experience to users.

Vn-054	INDOOR UNITS LINEUP
Vn-056	Compact Cassette (Grid type)
Vn-058	Cassette Slim type (Circular Flow)
Vn-060	Cassette Large type (Circular Flow)
Vn-062	Cassette (One-way Flow type)
Vn-064	3D Flow Cassette
Vn-066	Low Static Pressure Duct/Mini Duct
Vn-068	Low Static Pressure Duct/Slim Duct/Slim Concealed Floor
Vn-070	Low Static Pressure Duct
Vn-072	Medium Static Pressure Duct
Vn-074	High Static Pressure Duct
Vn-076	Compact Floor
Vn-078	Floor/Ceiling
Vn-080	Ceiling
Vn-082	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 004 GLEH	AUXB 007 GLEH	AUXB 009 GLEH	AUXB 012 GLEH
	Slim type	Circular Flow					
	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*2	ARXD 007 GLEH	ARXD 009 GLEH	ARXD 012 GLEH
		High Efficiency*3					
	Medium static pressure duct	Normal					
	High Static Pressure Duct	Normal	 036/45 - 60 072 - 090 096				
Floor	Floor (*Same as Ceiling models)					ABYA 012 GTEH	
	Slim Concealed Floor (*Same as Slim Duct models)	 04/007 - 014 018 024	ARXD 04 GALH*2	ARXD 007 GLEH	ARXD 009 GLEH	ARXD 012 GLEH	
	Compact Floor		AGYA 004 GCGH	AGYA 007 GCGH	AGYA 009 GCGH	AGYA 012 GCGH	
	Compact Floor (EEV external)		AGYE 004 GCEH	AGYE 007 GCEH	AGYE 009 GCEH	AGYE 012 GCEH	
			This model requires the EV kit to be connected.				
Ceiling		 012 - 024 030 - 054				ABYA 012 GTEH	
Wall-mounted type	Wall-mounted type	 004 - 014 18 - 24 030 - 034	ASYA 004 GCGH	ASYA 007 GCGH	ASYA 009 GCGH	ASYA 012 GCGH	
	Wall-mounted type (EEV external)	 004 - 014	ASYE 004 GCEH	ASYE 007 GCEH	ASYE 009 GCEH	ASYE 012 GCEH	
			This model requires the EV kit to be connected.				

	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 014 GLEH	AUXB 018 GLEH	AUXB 024 GLEH									
			AUXM 018 GLEH	AUXM 024 GLEH	AUXM 030 GLEH								
			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									
			ARXP 018 GLFH		ARXP 030 GLFH								
				ARXA 024 GLEH	ARXA 030 GLEH		ARXA 036 GLEH	ARXA 045 GLEH					
							ARXC 036 GTEH	ARXC 045 GTEH		ARXC 060 GTEH*1	ARXC 072 GTEH*1	ARXC 090 GTEH*1	ARXC 096 GTEH*1
		ABYA 014 GTEH	ABYA 018 GTEH	ABYA 024 GTEH									
		ARXD 014 GLEH	ARXD 018 GLEH	ARXD 024 GLEH									
	AGYA 014 GCGH												
	AGYE 014 GCEH												
		ABYA 014 GTEH	ABYA 018 GTEH	ABYA 024 GTEH	ABYA 030 GTEH		ABYA 036 GTEH	ABYA 045 GTEH	ABYA 054 GTEH				
	ASYA 014 GCGH		ASYA 18 GBCH	ASYA 24 GBCH	ASYA 030 GTEH	ASYA 034 GTEH							
	ASYE 014 GCEH												

*1: ARXC060/072/090/096G cannot be connected to J-IVS/J-IV Series.

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

*3: Production by order

Specifications and design are subject to change without notice.

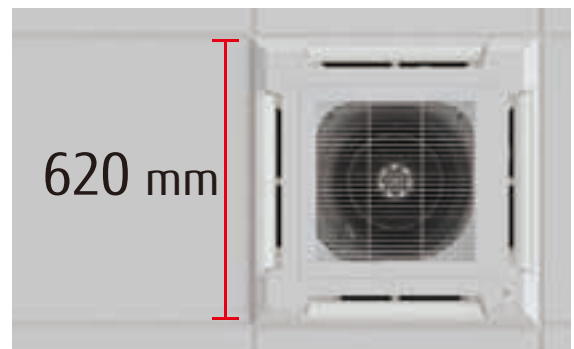
Compact Cassette

Grid type



Compact and stylish panel

The compact and stylish panel fits nicely into a grid type ceiling. The linear design is a perfect fit into a grid of 620 mm × 620 mm in the ceiling.



Easy maintenance

You can access the unit for maintenance just by removing a ceiling panel right next to the grille. As no inspection hole needs to be cut through the ceiling, no additional construction cost is incurred.



The air inlet grille can be installed to open in any direction for easy maintenance.



Flexible installation

The unit fits nicely into the decor of a grid type ceiling and can be installed near a lighting or a ventilation opening.



High ceiling mode

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

Model code	Maximum height from floor to ceiling (m)	
	Standard mode	High ceiling mode
004	2.7	-
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: AUXB004GLEH/AUXB007GLEH/AUXB009GLEH
AUXB012GLEH/AUXB014GLEH/AUXB018GLEH
AUXB024GLEH**



*Actual product's design may be different from the images.

Specifications

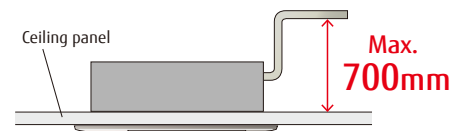
Model name			AUXB004GLEH	AUXB007GLEH	AUXB009GLEH	AUXB012GLEH	AUXB014GLEH	AUXB018GLEH	AUXB024GLEH
Power source			Single phase, ~230 V, 50 Hz						
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		1.3	2.8	3.2	4.1	5.0	6.3	8.0
Input power		W	23	25	25	29	35	36	84
Airflow rate	High	m ³ /h	530/530	540	550	600	680	710	1,030
	Med-High		490/480	500	520	560	620	660	910
	Med		450/430	460	480	520	560	590	790
	Med-Low		420/380	420	440	480	500	520	680
	Low		390/340	390	400	430	440	460	560
	Quiet		350/300	350	350	390	390	400	450
Sound pressure level	High	dB(A)	34/34	34	35	37	38	41	50
	Med-High		32/31	32	33	34	37	39	46
	Med		30/29	30	31	33	34	36	43
	Med-Low		28/26	28	29	31	32	33	39
	Low		27/24	27	27	29	30	30	35
	Quiet		25/21	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	245 × 570 × 570
Weight		kg (lbs)	14.5 (32)	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	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						
Cassette Grille	Model name		UTG-UFYC-W/UTG-UFYC-W						
	Net Dimensions (H × W × D)	mm	50 × 620 × 620/50 × 700 × 700						
	Weight	kg (lbs)	2.3 (5.1)/2.6 (6)						

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

Optional parts

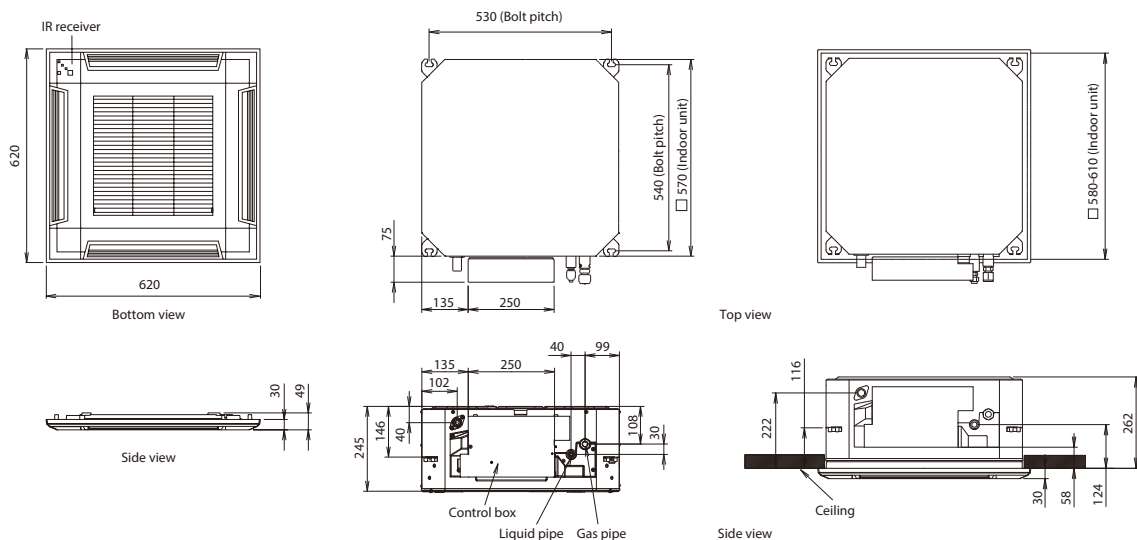
*For more details, please refer to the chapter "Optional parts".

Air Outlet Shutter Plate: UTR-YDZB
Flesh Air Intake Kit: UTZ-VXAA
Insulation kit for high humidity: UTZ-KXGC
Silver Ion Filter: UTD-HFAA
Cassette Grille: UTG-UFYC-W, UTG-UFYE-W
External power supply unit: UTZ-GXXA, UTZ-GXXC*
WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1



Dimensions

(Unit: mm)



Cassette Slim type

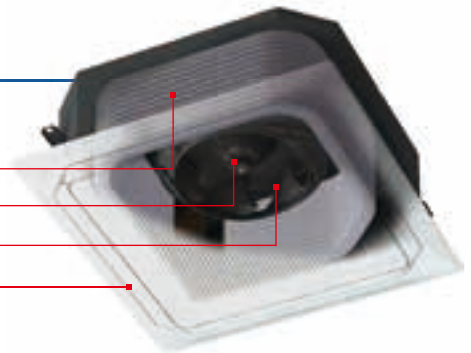
Circular Flow



Unique circular flow design

This Cassette type air conditioner is equipped with a high performance DC fan motor, a turbo fan, and a louver to propel powerful airflows in all directions.

- Ø7 mm high-density heat exchanger
- New DC fan motor
- High-efficiency turbo fan
- Seamless airflow louver



Uniform temperature air conditioning

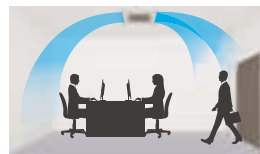
Achieve a comfortable air conditioning spread to every corner of the room thanks to the circular flow and wide vertical airflow.



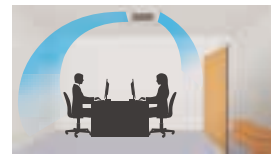
Individual louver control

Each louver can be set individually by the Touch panel wired remote controller so the user can enjoy the comfort of different directional airflows according to the room layout.

* UTY-RNRYZ5 Wired remote controller with touch panel and UTY-DCGYZ2 Central remote controller only



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



Provides efficient air conditioning based on the room layout

The Occupancy sensor contributes to further energy savings.

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

* UTY-RNRYZ5 Wired remote controller with touch panel and UTY-DCGYZ2 Central remote controller only



Occupancy sensor (Optional)

2 modes are available to choose from:

- Auto economy mode** The air conditioner switches to operate on reduced power when it detects that the room is unoccupied.
- Auto-off mode** The air conditioner stops operating when it detects that the room is unoccupied.



Specifications

Model name		AUXM018GLEH	AUXM024GLEH	AUXM030GLEH
Power source		Single phase, ~230 V, 50 Hz		
Capacity	Cooling	5.6	7.1	9.0
	Heating	6.3	8.0	10.0
Input power		20	25	49
Airflow rate	High	1,050	1,120	1,470
	Med-High	930	1,050	1,160
	Med	900	930	1,070
	Med-Low	870	900	930
	Low	810	870	900
	Quiet	780	780	780
Sound pressure level	High	33	35	40
	Med-High	32	33	36
	Med	31	32	34
	Med-Low	30	31	32
	Low	29	30	31
	Quiet	28	28	28
Dimensions (H × W × D)		mm 246 × 840 × 840		
Weight		kg (lbs) 24.0 (53)	24.5 (54)	24.5 (54)
Connection pipe diameter	Liquid (Flare)	6.35	9.52	9.52
	Gas (Flare)	12.70	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 subject to the following conditions:

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

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

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

When AUX*018GLEH is connected to an outdoor unit other than one of the J-IVL Series, the pipe diameter should be Ø9.52/Ø15.88 mm (Liquid/Gas).

When connecting AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH to an outdoor unit other than the outdoor unit of the J-IVL Series, the gas pipe diameter should be Ø19.05 mm.

Optional parts

*For more details, please refer to the chapter "Optional parts".

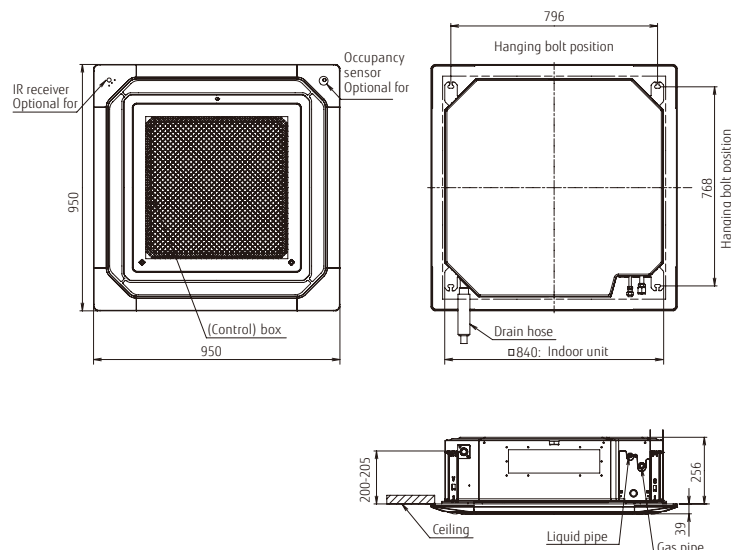
Occupancy sensor Kit: UTY-SHZXC
 Wide Panel: UTG-AKXA-W
 Panel Spacer: UTG-BKXA-W
 Fresh air intake kit: UTZ-VXRA

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, UTZ-GXXC*

IR Receiver Unit: UTY-LBHXD
 WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1
 Silver Ion Filter: UTD-HFRA

Dimensions

(Unit: mm)



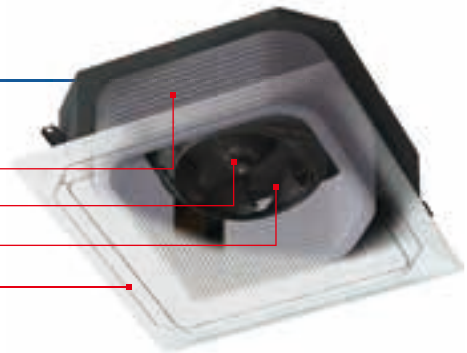
Cassette Large type Circular Flow



Unique circular flow design

This Cassette type air conditioner is equipped with a high performance DC fan motor, a turbo fan, and a louver to propel powerful airflows in all directions.

- Ø7 mm high-density heat exchanger
- New DC fan motor
- High-efficiency turbo fan
- Seamless airflow louver



Uniform temperature air conditioning

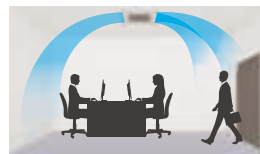
Achieve a comfortable air conditioning spread to every corner of the room by circular flow and wide vertical airflow.



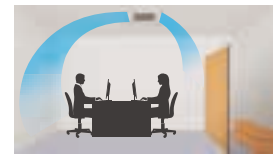
Individual louver control

Each louver can be set individually by the Touch panel wired remote controller so the user can enjoy the comfort of different directional airflows according to the room layout.

* UTY-RNRYZ5 Wired remote controller with touch panel and UTY-DCGYZ2 Central remote controller only



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



Provides efficient air conditioning based on the room layout

The Occupancy sensor contributes to further energy savings.

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

* UTY-RNRYZ5 Wired remote controller with touch panel and UTY-DCGYZ2 Central remote controller only



Occupancy sensor (Optional)

2 modes are available to choose from:

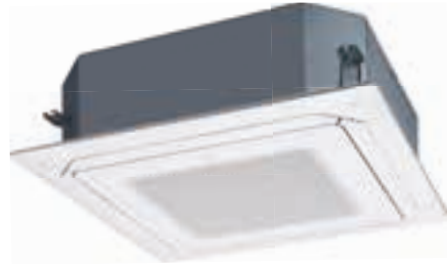
Auto economy mode

The air conditioner switches to operate on reduced power when it detects that the room is unoccupied.

Auto-off mode

The air conditioner stops operating when it detects that the room is unoccupied.

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



Specifications

Model name			AUXK018GLEH	AUXK024GLEH	AUXK030GLEH	AUXK034GLEH	AUXK036GLEH	AUXK045GLEH	AUXK054GLEH
Power source			Single phase, ~230 V, 50 Hz						
Capacity	Cooling	kW	5.6	7.1	9.0	10.0	11.2	12.5	14.0
	Heating		6.3	8.0	10.0	11.2	12.5	14.0	16.0
Input power		W	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
Sound pressure level	Quiet	dB(A)	1,150	1,150	1,150	1,150	1,150	1,150	1,150
	High		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	36	36	36		
Quiet	33	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)		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)	53 × 950 × 950						
		Weight	6.0 (13)						

Note: Specifications are subject to the following conditions:

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

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

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

When AUX*018GLEH is connected to an outdoor unit other than one of the J-IVL Series, the pipe diameter should be Ø9.52/Ø15.88 mm (Liquid/Gas).

When connecting AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH to an outdoor unit other than the outdoor unit of the J-IVL Series, the gas pipe diameter should be Ø19.05 mm.

Optional parts

*For more details, please refer to the chapter "Optional parts".

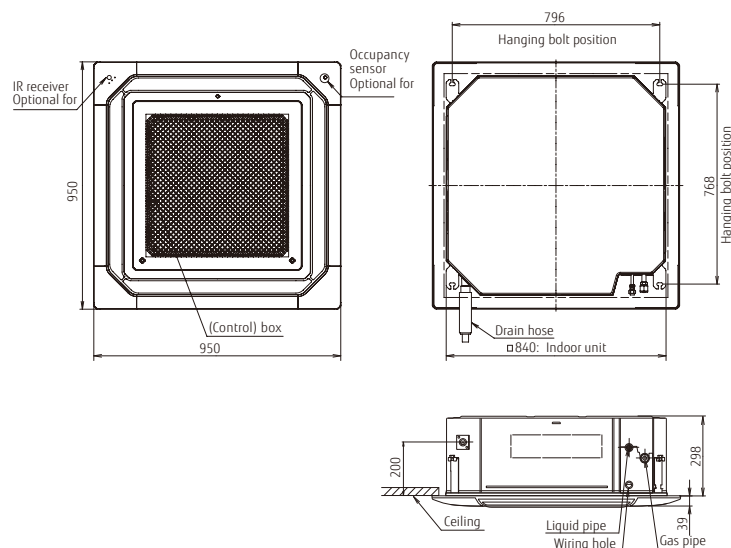
Occupancy sensor Kit: UTY-SHZXC
Wide Panel: UTG-AKXA-W
Panel Spacer: UTG-BKXA-W
Fresh air intake kit: UTZ-VXRA

Air Outlet Shutter Plate: UTR-YDZK
Insulation kit for high humidity: UTZ-KXRRA
Cassette Grille: UTG-UKYC-W, UTG-UKYA-B
External power supply unit: UTZ-GXXA, UTZ-GXXC*

IR Receiver Unit: UTY-LBHXD
WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1
Silver Ion Filter: UTD-HFRA

Dimensions

(Unit: mm)



Cassette

One-way Flow type



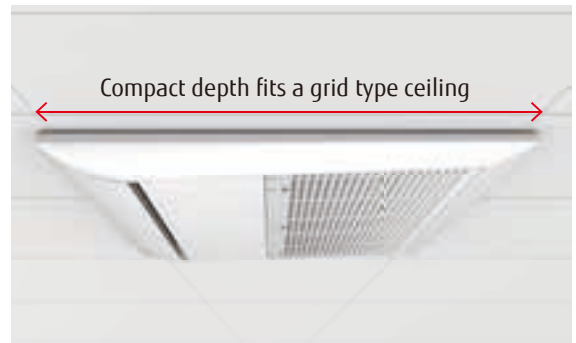
Compact chassis size

The compact size allows easy installation in a variety of commercial facilities and environments.

- The height of the chassis is less than 200 mm for all models.
- All 4 to 12 kBtu models are less than 1,000 mm wide.
- The depth of the chassis 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)	

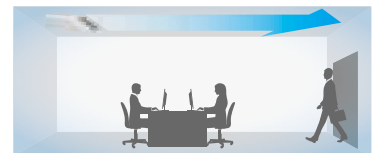


Wide airflow range

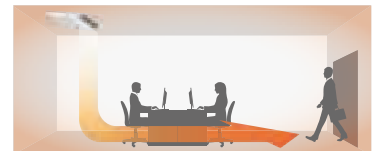
A large flap with a wide range of movements, equipped with louvers arranged triangularly, sends air into every corner of the room.



In cooling mode, the left/right airflow reaches every corner of the room without directly touching the human body to provide comfortable air conditioning.



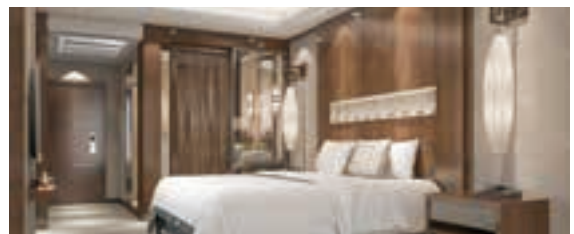
In heating mode, warm air is directed downward toward the floor to warm the feet and lower body, while the head is kept relatively cool.



Note: This is a conceptual drawing. The performance of an air conditioner may vary depending on where it is installed, the size of the room, and its distance from the wall.

Quiet mode

The low operating noise makes the model ideal for use in hotel rooms.



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



*Actual product's design may be different from the images.

Specifications

Model name			AUXV004GLEH	AUXV007GLEH	AUXV009GLEH	AUXV012GLEH	AUXV014GLEH	AUXV018GLEH	AUXV024GLEH	
Power source			Single phase, ~230 V, 50 Hz							
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1	
	Heating		1.3	2.8	3.2	4.0	5.0	6.3	8.0	
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	
Sound pressure level*	Quiet	dB(A)	360	360	360	360	550	580	610	
	High		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	
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	
	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	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							
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)		

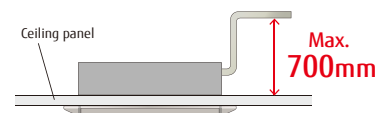
Note: Specifications are subject to the following conditions:
Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor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

Optional parts *For more details, please refer to the chapter "Optional parts".

- WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-ACWIF1Z1
- IR Receiver Unit: UTY-TRHX
- Cassette Grille: UTG-UNYA-W/UTG-UNYB-W
- External power supply unit: UTZ-GXXA, UTZ-GXXC*

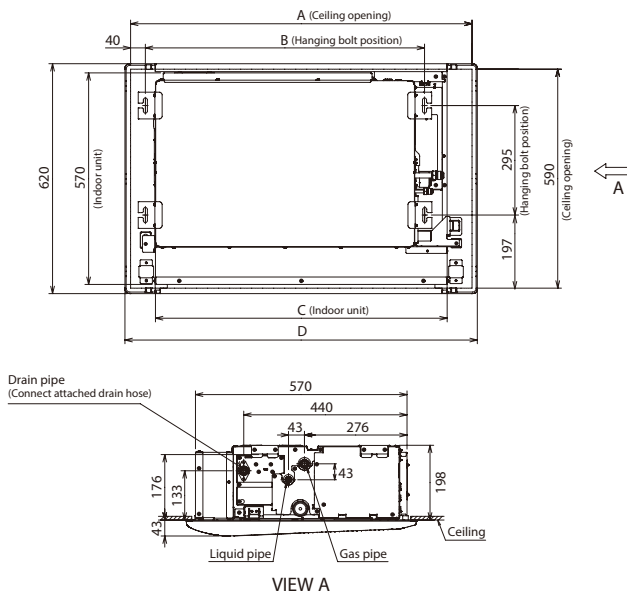
Flexible Installation

The L-shaped pipe kit allows for more flexible installation.
Equipped with a built-in drain pump as standard, which enables a maximum pipe height difference of 700 m from the ceiling.



Dimensions

(Unit: mm)



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

3D Flow Cassette



3 individually controlled air outlet ports

The Comfortable airflow setting enables the left and right air outlet ports as well as the wide center port to work together to provide a comfortable room environment.

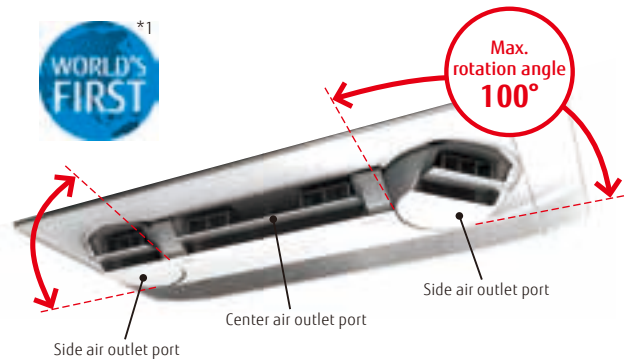
Temperature distribution during cooling and heating (when set to Comfortable airflow)



Testing conditions: Model AUXS024GLEH running cooling operation with the air volume set to "Hi" to maintain the room temperature at 18°C with the outdoor temperature at 35°C, tested in our 40m² environmental test room



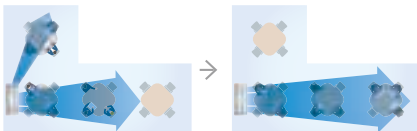
Testing conditions: Model AUXS024GLEH running heating operation with the air volume set to "Hi" to maintain the room temperature at 30°C with the outdoor temperature at 7°C, tested in our 40m² environmental test room



*1: Announced 2018. In the category of room air conditioners for the home (source: Fujitsu General Limited).

Individual airflow setting

The individual airflow setting function optimizes the airflow direction to match the room layout.



Adjusts airflows from the side air outlet ports to match the layout and usage of the room to minimize the amount of wasted airflow.



The airflow is optimally controlled to provide improved comfort in a narrow room.

Individual control of air outlet ports

Individual airflow can be set using a Wired remote controller with touch panel and Central remote controller*. The airflow from each air outlet port can be set individually.



Wired remote controller with Touch Panel
UTY-RNRYZ5

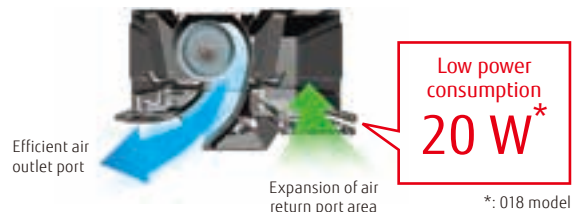


Central remote controller
UTY-DCGYZ2

* Feature available only on UTY-RNRYZ5 Wired remote controller with touch panel and UTY-DCGYZ2 Central remote controller

High energy saving

The structural design to take in a larger volume of air and blow air out more smoothly reduces air blowing loss and achieves class-leading energy-saving performance.



*: 018 model

Model: AUXS018GLEH/AUXS024GLEH



*Actual product's design may be different from the images.

Specifications

Model name			AUXS018GLEH	AUXS024GLEH
Power source			Single phase, ~230 V, 50 Hz	
Capacity	Cooling	kW	5.60	7.10
	Heating		6.30	8.00
Input power		W	20/28	34/43
Airflow rate*	High	m ³ /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	9.52
	Gas (Flare)		12.70	15.88
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)	

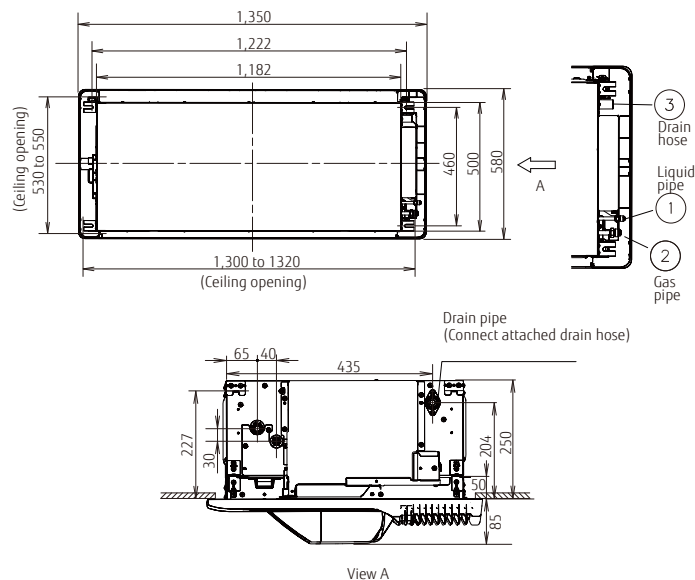
Note: Specifications are subject to the following conditions:
 Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
 Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.
 Pipe length: 7.5 m; Height difference between outdoor unit and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

Optional parts *For more details, please refer to the chapter "Optional parts".

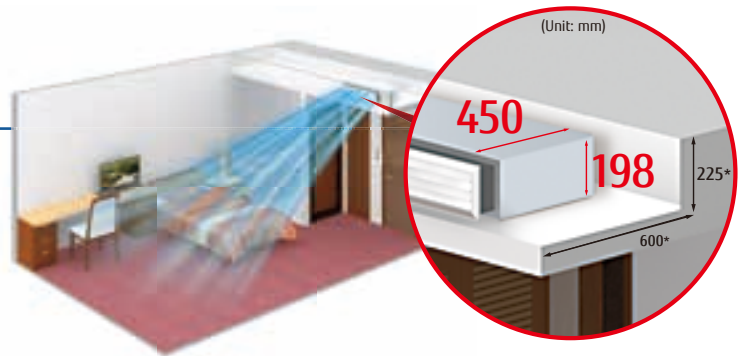
- WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1
- IR Receiver Unit: UTY-TRHX
- Cassette Grille: UTG-USYA-W
- External power supply unit: UTZ-GXXA, UTZ-GXXC*

Dimensions

(Unit: mm)



Low Static Pressure Duct Mini Duct (With drain pump)



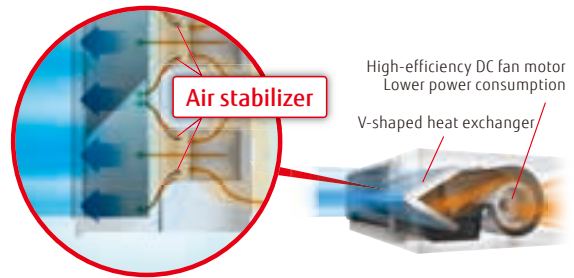
Space saving design

- Fits into a space 198 mm high and 450 mm deep
- 30% smaller than previous-generation models
- Weighs 16 kg, 10% lighter

*: Minimum clearance requirement

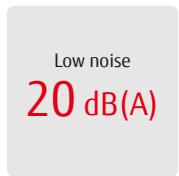
Optimum airflow path and low noise operation

The stabilized airflow reduces the noise level significantly.

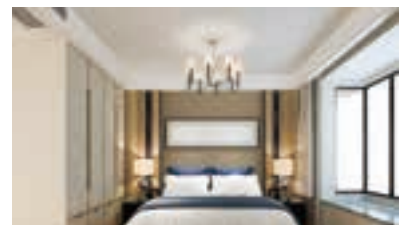
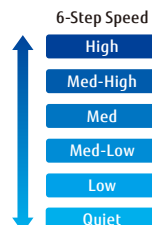


6-speed control*

Multistep airflow adjustment allows installation in a quiet location.



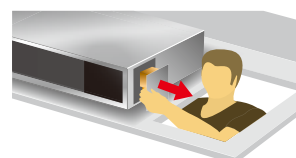
at 04 model



* Remote controller is compatible with the following:
UTY-RNRYZ5/UTY-RLRY/UTY-RSRY/UTY-RHRY/UTY-DCGYZ2/UTY-ALGXZ1/UTY-APGXZ1

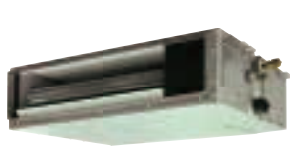
Easy to design and maintain for drain

Indoor unit design for easy maintenance Parts can be replaced from the side of the unit where maintenance is easier.

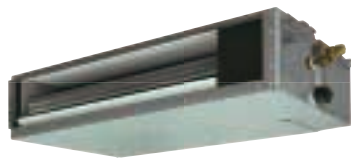


A drain pump is built into the unit as standard:
Parts can be accessed and replaced through the side of the unit for easy maintenance.

**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, ~230 V, 50 Hz						
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		1.3	2.8	3.2	4.0	5.0	6.3	8.0
Input power		W	26	28	28	35	66	73	80
Airflow rate	High	m ³ /h	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			10	10	10	10	15	15	15
Sound pressure level	High	dB(A)	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	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)	mm	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 subject to the following conditions:
Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m. Voltage: 230 [V].

Optional parts

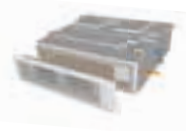
*For more details, please refer to the chapter "Optional parts".

Remote sensor unit:	UTY-XS2XZ1	External power supply unit:	UTZ-GXXA, UTZ-GXXC*
IR receiver unit:	UTY-TRHX	Auto Louver Grille Kit:	UTD-GXTA-W (004-014)
Silver Ion Filter:	UTD-HFTA (004-014) UTD-HFTB (018) UTD-HFTC (024)		UTD-GXTB-W (018) UTD-GXTC-W (024)
		WLAN adapter:	FG-AC-WIF1Z1 UTY-TFSXJ3, UTY-TFSXZ1 (007-024)

Auto Louver Grille Kit (Optional)

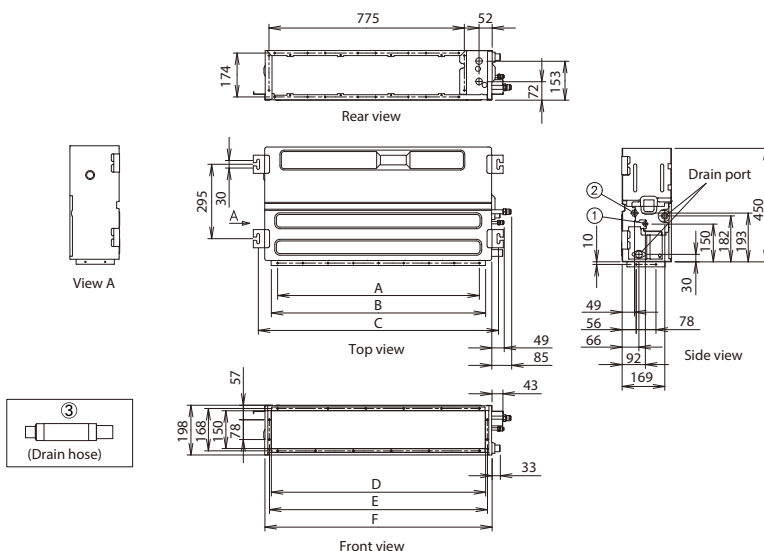
The slim design of the unit provides comfortable cooling and heating air conditioning over a wide area.

The optional automatic louver grille, which fits nicely into any interior decor, provides comfortable air conditioning (Optional)



Dimensions

(Unit: mm)



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

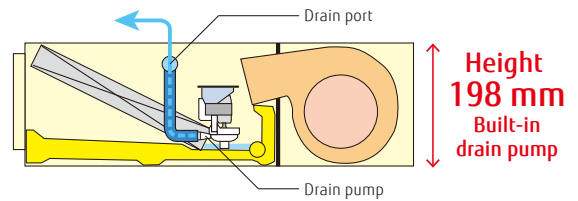
	ARXK004-014	ARXK018	ARXK024
A	P100×6=600	P100×8=800	P100×10=1000
B	650	850	1050
C	752	952	1152
D	650	850	1050
E	665	864	1064
F	700	900	1100

Low Static Pressure Duct Slim Duct/Slim Concealed Floor



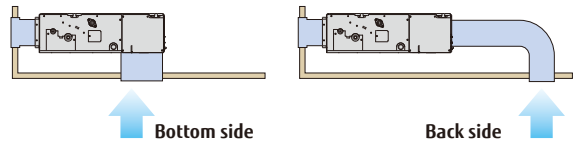
Slim design

Slim design allows for installation in a tight ceiling space.



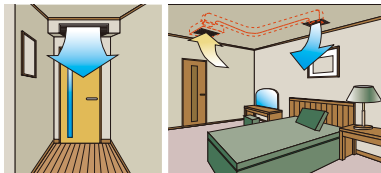
Air intake

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

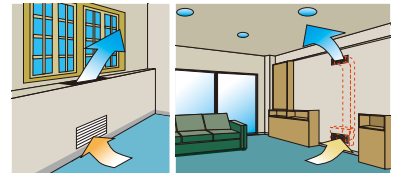


Flexible installation

Ceiling concealed



Floor concealed



Wide range of static pressures

The use of a DC fan motor makes it possible to adjust the static pressure between 0 and 90 Pa.

The static pressure range can be changed by a remote controller.

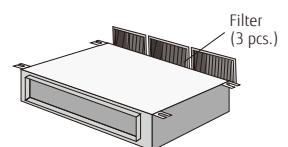
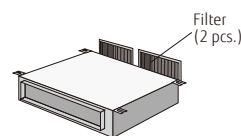


Static pressure range
0 to 90 Pa

*024 model static pressure range is 0 to 50 Pa.

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, ~230 V, 50 Hz						
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.5	5.6	7.1
	Heating		1.3	2.8	3.2	4.0	5.0	6.3	8.0
Input power			40	44	50	54	92	83	122
Airflow rate	High	m ³ /h	510	550	600	600	800	940	1,330
	Med-High		-	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			0 to 90	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	25
Sound pressure level	High	dB(A)	26	28	29	30	34	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 × 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)		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 subject to the following conditions:

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

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

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

*1: This value is under cooling operation.

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

Optional parts

*For more details, please refer to the chapter "Optional parts".

Remote sensor unit: UTY-XSZXZ1

External power supply unit: UTZ-GXXA, UTZ-GXXC*

IR receiver unit: UTB-YWC (04)

Auto Louver Grille Kit: UTD-GXTA-W (04, 007-014)

UTY-TRHX (007-024)

UTD-GXTB-W (018)

WLAN adapter: UTY-TFSXJ3 (007-024)

UTD-GXTC-W (024)

UTY-TFSXZ1 (007-024)

Silver Ion Filter: UTD-HFTA (04, 007-014)

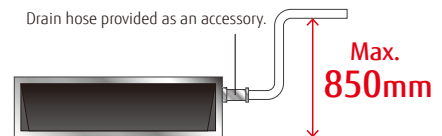
FG-RC-WIF1Z2 (04)

UTD-HFTB (018)

FG-AC-WIF1Z1 (007-024)

UTD-HFTC (024)

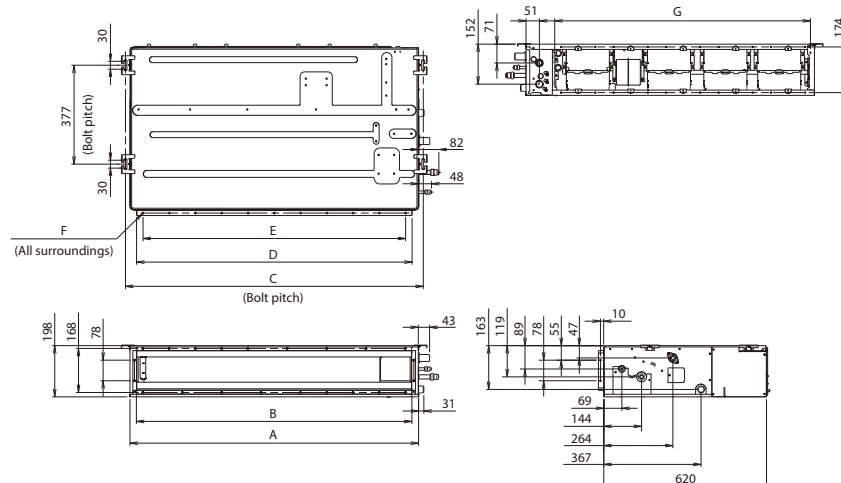
Drain hose provided as an accessory.



Dimensions

(Unit: mm)

*Maintenance accessibility should be considered when installing the product.
Refer to the installation manual for the required maintenance access size.



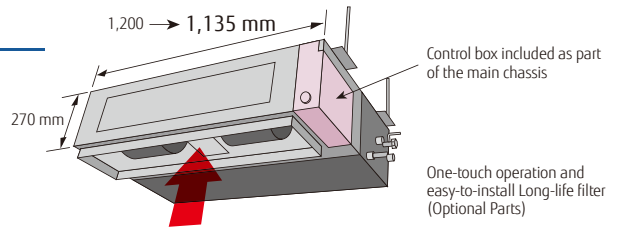
	ARXD04-014	ARXD018	ARXD024
A	700	900	1100
B	650	850	1050
C	734	934	1134
D	650	850	1050
E	P100 × 6 = 600	P100 × 8 = 800	P100 × 10 = 1000
F	18 × Ø5	22 × Ø5	26 × Ø5
G	574	774	974

Low static pressure duct High Efficiency



Slim & Compact design

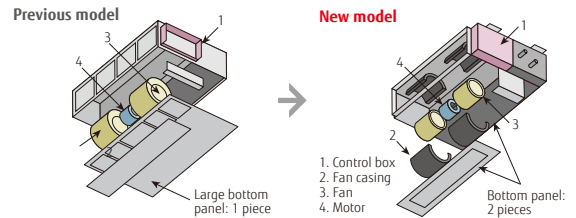
The slim and compact design of the indoor unit, with the control box mounted on the side, allows installation in narrow spaces.



Easy maintenance

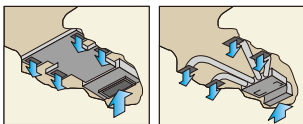
Structural improvement has been developed by making the bottom panel in two pieces, front and rear. The internal fan casing is also manufactured in two pieces—upper and lower. The motor and fan can be easily accessed and maintained by removing the rear panel and the lower casing with the main chassis remaining in place.

See below for rear-suction type

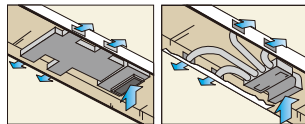


Installation styles

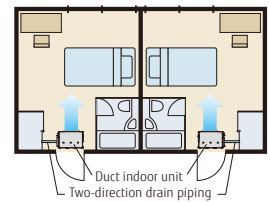
Embedded in Ceiling



Hanging from Ceiling



A drain pipe can be installed on either the left or right side of the unit



High-efficiency DC fan motor achieves low-energy consumption.

Improved motor efficiency from previous model.



Wide range of static pressures

Static pressures can be changed in the range of 0 to 150 Pa.

Static pressure range
0 to 80 Pa



Specifications

Model name			ARXP018GLFH	ARXP030GLFH
Power source			Single-phase, ~220V, 50Hz	
Capacity	Cooling	kW	5.6	9.0
	Heating		6.3	10.0
Input power		W	128	228
Airflow rate	High	m ³ /h	1,540 / 1,440	1,940 / 1,660
	Med-High		1,460 / 1,380	1,810 / 1,580
	Med		1,380 / 1,320	1,680 / 1,510
	Med-Low		1,300 / 1,260	1,550 / 1,440
	Low		1,220 / 1,200	1,420 / 1,370
	Quiet		1,150 / 1,150	1,300 / 1,300
Static pressure range		Pa	0 to 80	0 to 80
Standard static pressure			40	50
Sound pressure level	High	dB(A)	35 / 34	39 / 36
	Med-High		34 / 32	38 / 35
	Med		32 / 31	36 / 34
	Med-Low		31 / 30	34 / 33
	Low		29 / 29	32 / 31
	Quiet		28 / 28	30 / 30
Net Dimensions (H × W × D)		mm	270 × 1,135 × 700	270 × 1,135 × 700
Weight		kg (lbs)	40 (88)	40 (88)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52
	Gas (Flare)		12.70	15.88
Drain Hose Diameter (I.D./O.D.)			25/32	

Note: Specifications are subject to the following conditions:

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

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

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

Optional parts

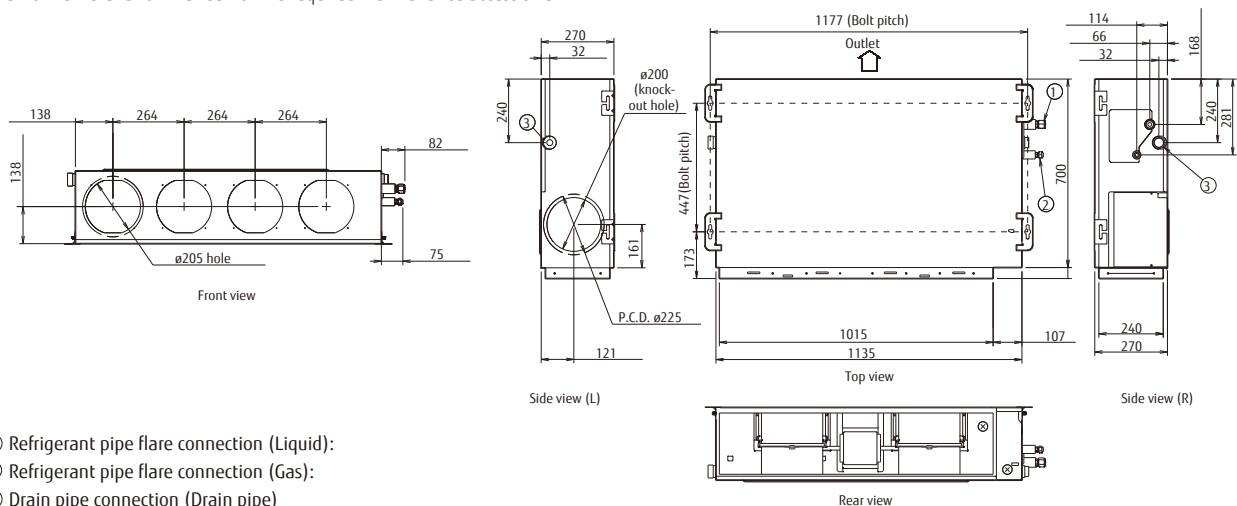
*For more details, please refer to the chapter "Optional parts".

Long-life filter:	UTD-LF25NA	IR receiver unit:	UTY-TRHX
Flange (square):	UTD-SF045T	Drain pump unit:	UTZ-PX1NBA
Flange (round):	UTD-RF204	WLAN adapter:	UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1
External power supply unit:	UTZ-GXXA, UTZ-GXXC*	Silver Ion Filter:	UTD-HFND
Remote sensor unit:	UTY-XS2XZ1		

Dimensions

(Unit: mm)

*Maintenance accessibility should be considered when installing the product.
Refer to the installation manual for the required maintenance access size.

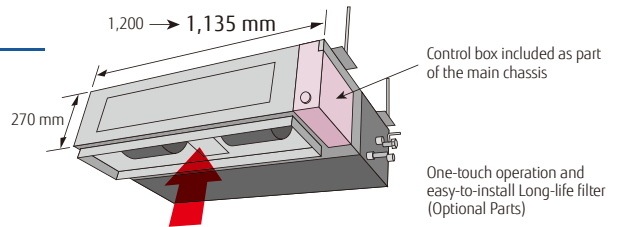


Medium static pressure duct Normal



Slim & Compact design

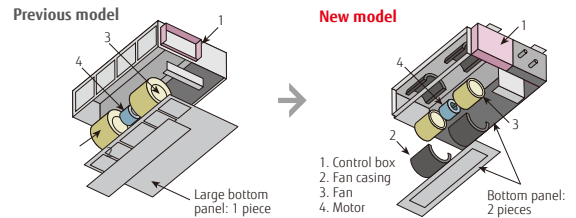
The slim and compact design of the indoor unit, with the control box mounted on the side, allows installation in narrow spaces.



Easy maintenance

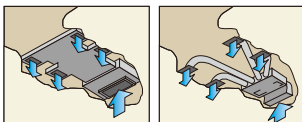
Structural improvement has been developed by making the bottom panel in two pieces, front and rear. The internal fan casing is also manufactured in two pieces—upper and lower. The motor and fan can be easily accessed and maintained by removing the rear panel and the lower casing with the main chassis remaining in place.

See below for rear-suction type

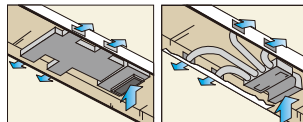


Installation styles

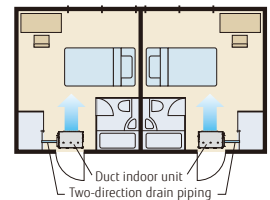
Embedded in Ceiling



Hanging from Ceiling



A drain pipe can be installed on either the left or right side of the unit



High-efficiency DC fan motor achieves low-energy consumption.

Improved motor efficiency from previous model.



Wide range of static pressures

Static pressures can be changed in the range of 0 to 150 Pa.

Static pressure range
0 to 150 Pa



Specifications

Model name		ARXA024GLEH	ARXA030GLEH	ARXA036GLEH	ARXA045GLEH
Power source		Single phase, ~230 V, 50 Hz			
Capacity	Cooling	7.1	9.0	11.2	12.5
	Heating	8.0	10.0	12.5	14.0
Input power	W	94	108	194	240
Airflow rate	High	1,280	1,410	1,840	1,970
	Med-High	1,180	1,350	1,750	1,910
	Med	1,090	1,280	1,660	1,860
	Med-Low	1,000	1,240	1,600	1,780
	Low	920	1,190	1,530	1,710
	Quiet	840	1,150	1,470	1,640
Static pressure range	Pa	0 to 150	0 to 150	0 to 150	0 to 150
Standard static pressure		40	50	50	60
Sound pressure level	High	31	34	37	41
	Med-High	29	33	36	40
	Med	27	32	35	38
	Med-Low	26	31	35	38
	Low	24	30	34	37
	Quiet	23	29	33	36
Net Dimensions (H × W × D)	mm	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700	270 × 1,135 × 700
Weight	kg (lbs)	36 (79)	40 (88)	40 (88)	40 (88)
Connection pipe diameter	Liquid (Flare)	9.52	9.52	9.52	9.52
	Gas (Flare)	15.88	15.88	15.88	15.88
Drain Hose Diameter (I.D./O.D.)		25/32			

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

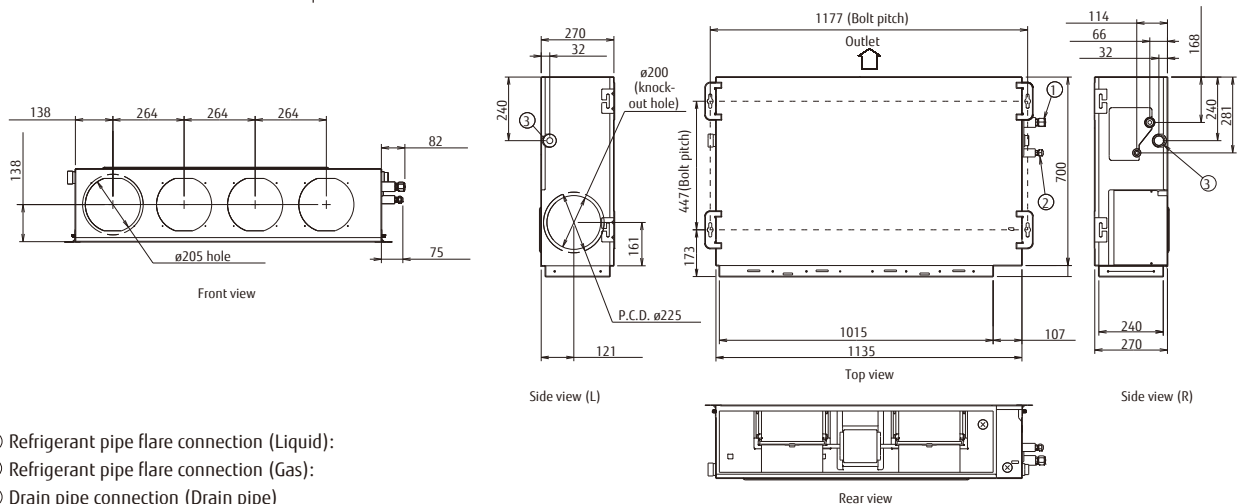
Optional parts *For more details, please refer to the chapter "Optional parts".

- Long-life filter: UTD-LF25NA
- Flange (square): UTD-SF045T
- Flange (round): UTD-RF204
- External power supply unit: UTZ-GXXA, UTZ-GXXC*
- Remote sensor unit: UTY-XSZXZ1
- IR receiver unit: UTY-TRHX
- Drain pump unit: UTZ-PX1NBA
- WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1
- Silver Ion Filter: UTD-HFND

Dimensions

(Unit: mm)

*Maintenance accessibility should be considered when installing the product.
 Refer to the installation manual for the required maintenance access size.



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

High Static Pressure Duct Normal



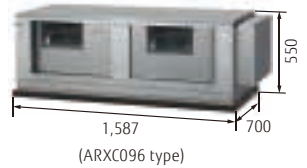
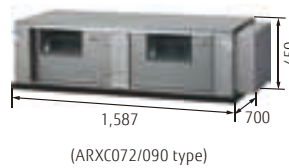
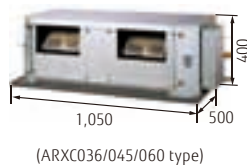
Static pressure mode selection

The use of a DC fan motor makes it possible to adjust the static pressure between 0 to 200 Pa (ARXC036)/300 Pa (ARXC072/090/096).



Easy installation (Compact & Lightweight)

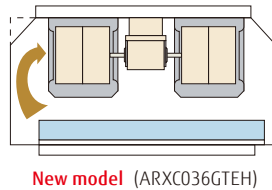
The indoor unit is designed to be compact and light by reducing the basic chassis size and the overall material weight.



(Unit: mm)

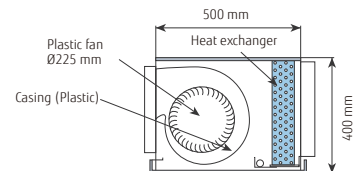
Low noise

Models: ARXC036/ARXC045/ARXC060
The corners of the front panel and fan casing of the indoor unit are shaved to reduce air turbulence. The use of a plastic case and fan reduces the noise level generated by the unit.



ARXC036GTEH:
Plastic fan [42 dB(A)]

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



High-efficiency DC fan motor achieves low energy consumption.

Improved motor efficiency compared to the previous model



**Model: ARXC036GTEH/ ARXC045GTEH/ ARXC060GTEH
ARXC072GTEH/ARXC090GTEH/ARXC096GTEH**



ARXC036/045/060GTEH



ARXC072/090GTEH



ARXC096GTEH

Specifications

Model name			ARXC036GTEH	ARXC045GTEH	ARXC060GTEH*	ARXC072GTEH*	ARXC090GTEH*	ARXC096GTEH*
Power source			Single phase, ~230 V, 50 Hz					
Capacity	Cooling	kW	11.2	12.5	18.0	22.4	25.0	28.0
	Heating		12.5	14.0	20.0	25.0	28.0	31.5
Input power		W	207	715	730	681	819	838
Air flow rate	High	m ³ /h	1,990	3,500	3,500	3,900	4,300	4,850
	Med		1,680	3,000	3,000	3,300	4,000	4,250
	Low		1,330	2,460	2,460	3,000	3,500	3,600
Static pressure range		Pa	0 to 200	100 to 250	100 to 250	0 to 300	0 to 300	0 to 300
Standard static pressure			100	100	100	150	150	150
Sound pressure level	High	dB(A)	42	49	49	47	48	48
	Med		36	45	45	43	46	45
	Low		32	42	42	40	44	42
Net Dimensions (H × W × D)		mm	400 × 1,050 × 500	400 × 1,050 × 500	400 × 1,050 × 500	450 × 1,587 × 700	450 × 1,587 × 700	550 × 1,587 × 700
Weight		kg (lbs)	40 (88)	46 (101)	46 (101)	84 (185)	84 (185)	105 (231)
Connection pipe diameter	Liquid	mm	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	9.52 (Flare)	9.52 (Brazing)
	Gas		15.88 (Flare)	15.88 (Flare)	15.88 (Flare)	19.05 (Flare)	19.05 (Flare)	22.22 (Brazing)
Drain Hose Diameter (I.D./O.D.)			25/32					

Note: Specifications are based on the following conditions:

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

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

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

*: ARXC060/072/090/096G cannot be connected to J-IVJ-IVS Series.

Optional parts *For more details, please refer to the chapter "Optional parts".

- Long-life filter: UTD-LF60KA (036/045/060)
- IR receiver unit: UTB-YWC (045/060)
- UTY-TRHX (036/072/090/096)
- External power supply unit: UTZ-GXXA, UTZ-GXXC*
- WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1
- Silver Ion Filter: UTD-HFKB (036/045/060)
- Remote sensor unit: UTY-XSZXZ1

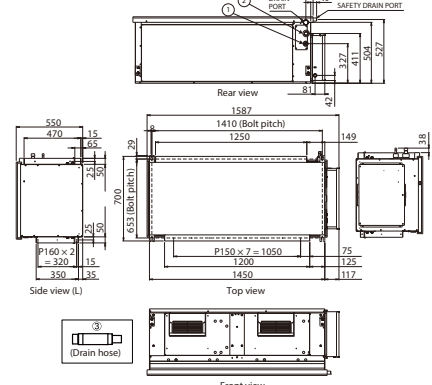
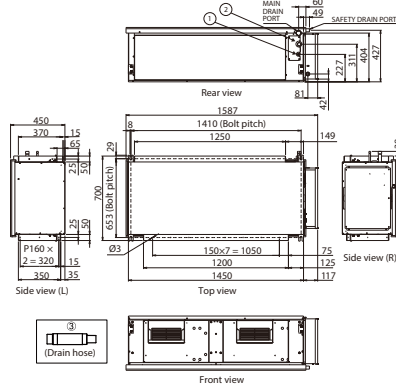
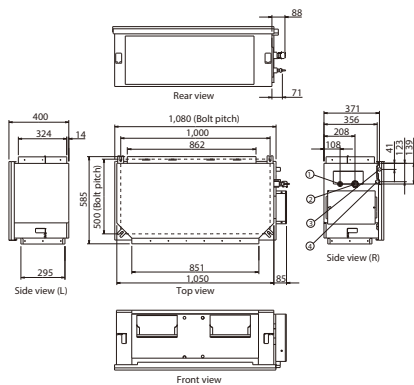
Dimensions

(Unit: mm)

Models: ARXC036/ARXC045/ARXC060

Models: ARXC072/ARXC090

Models: ARXC096



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

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

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

Compact floor



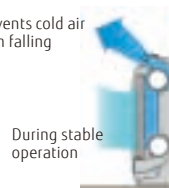
2-fan and wide airflow

A 2-fan individual vertical airflow cools or warms the entire room comfortably.

Cooling

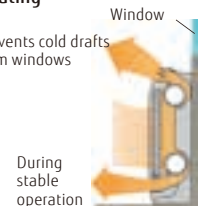


Prevents cold air from falling



Heating

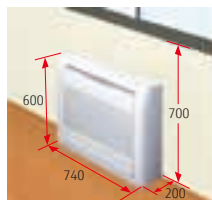
Prevents cold drafts from windows



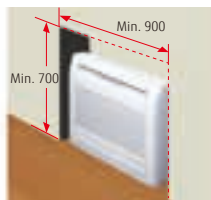
Flexible and easy installation

The compact and whole-surface suction design provides flexible installation options, including floor-standing, embedded, partially embedded, and wall-mounted installation to match the room layout.

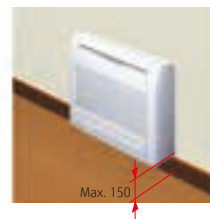
Beneath standard window



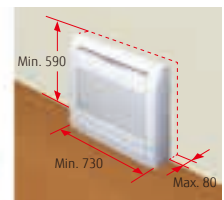
Concealed within wall



Wall



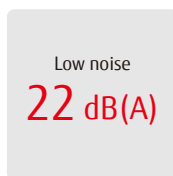
Half concealed (Optional parts necessary)



(Unit: mm)

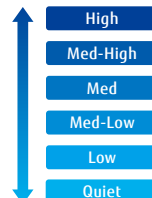
Quiet operation

6-fan speed control for quiet operation (via 2-wire controller)



004/007/009 models

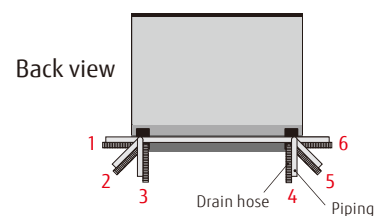
6-Step Speed



* Remote controller is compatible with the following:
UTY-RNRVZ5/UTY-RLRY/UTY-RSRV/UTY-RHRV/UTY-DCGYZ2/UTY-ALGXZ1/UTY-APGXZ1

Flexible pipe connection enables draining and piping in 6 directions

The drain hose and pipe can be connected to the unit in the right, left, straight in depth, or downward direction.



**Model: AGYA004GCGH/AGYA007GCGH/AGYA009GCGH
AGYA012GCGH/AGYA014GCGH**

**[external EEV]
AGYE004GCEH/AGYE007GCEH/AGYE009GCEH
AGYE012GCEH/AGYE014GCEH**



*Actual product's design may be different from the images.

Specifications

Model name			AGYA004GCGH	AGYA007GCGH	AGYA009GCGH	AGYA012GCGH	AGYA014GCGH	AGYE004GCEH	AGYE007GCEH	AGYE009GCEH	AGYE012GCEH	AGYE014GCEH	
Power source			Single phase, ~230 V, 50 Hz					Single phase, ~230 V, 50 Hz					
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.0	1.1	2.2	2.8	3.6	4.0	
	Heating		1.3	2.8	3.2	4.0	4.5	1.3	2.8	3.2	4.0	4.5	
Input power			12/14		16	17	22	29	14	16	17	22	29
Airflow rate	High	m ³ /h	380/430	470	500	590	670	380/430	470	500	590	670	
	Med-High		350	420	450	520	590	350	420	450	520	590	
	Med		320	390	400	470	520	320	390	400	470	520	
	Med-Low		310	360	360	420	450	310	360	360	420	450	
	Low		280	330	330	390	390	280	330	330	390	390	
	Quiet		210	270	270	340	340	210	270	270	340	340	
Sound pressure level	High	dB(A)	35/36	37	38	42	46	35/36	37	38	42	46	
	Med-High		33	35	36	39	42	33	35	36	39	42	
	Med		31	33	34	37	39	31	33	34	37	39	
	Med-Low		30	31	31	35	36	30	31	31	35	36	
	Low		28	29	29	33	33	28	29	29	33	33	
	Quiet		22	22	22	30	30	22	22	22	30	30	
Net Dimensions (H × W × D)		mm	600 × 740 × 200					600 × 740 × 200					
Weight		kg (lbs)	15.0 (33.0)	15.0 (33.0)	15.0 (33.0)	15.0 (33.0)	15.0 (33.0)	14.5 (32.0)	14.5 (32.0)	14.5 (32.0)	14.5 (32.0)	14.5 (32.0)	
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	9.52	9.52	9.52	12.70	12.70	
Drain Hose Diameter (I.D./O.D.)			13.8/15.8 to16.7					13.8/15.8 to16.7					
EV kit (optional)			-					UTR-EV09XB		UTR-EV14XB			

Note: Specifications are subject to the following conditions:

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

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

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

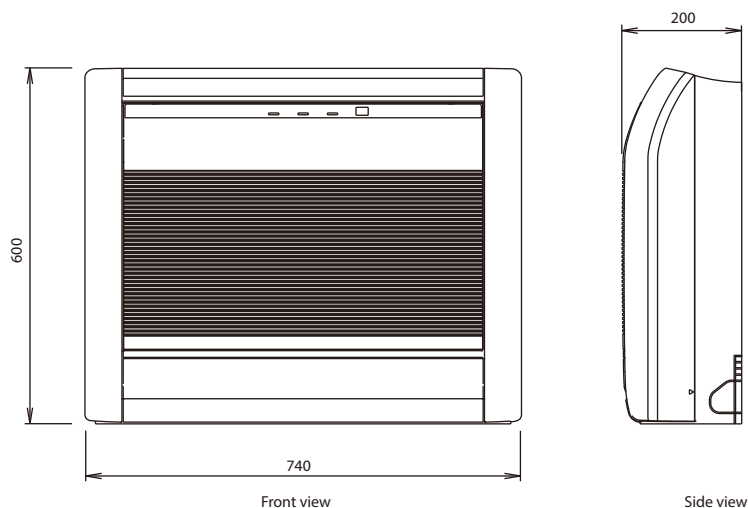
When connecting AGYA004/007/009GCGH, AGYE004/007/009GCEH to an outdoor unit other than an outdoor unit of the J-IVL Series, the gas pipe diameter should be Ø12.70 mm.

Optional parts *For more details, please refer to the chapter "Optional parts".

Partially concealing kit: UTR-STA
 External power supply unit: UTZ-GXXA, UTZ-GXXC*
 WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1
 Silver Ion Filter: UTR-FA03-5

Dimensions

(Unit: mm)



Floor/Ceiling



Flexible installation

Example of floor standing installation

Floor standing console with the back against the wall



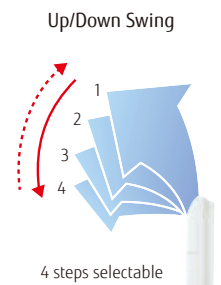
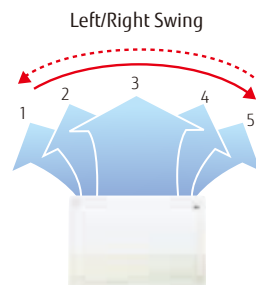
Example of ceiling installation

Under ceiling



Double auto swing

The combination of horizontal and vertical swings enables 3-dimensional control of the airflow direction.



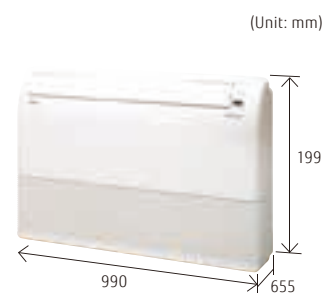
High-power DC fan motor

- High power
- Wide rotation range
- High-efficiency



Compact design

Symmetrical, slim and compact design.



Model: ABYA012GTEH/ABYA014GTEH/ABYA018GTEH/ABYA024GTEH



Floor standing



*Actual product's design may be different from the images.

Specifications

Model name		ABYA012GTEH	ABYA014GTEH	ABYA018GTEH	ABYA024GTEH
Power source		Single phase, ~230 V, 50 Hz			
Capacity	Cooling	3.6	4.5	5.6	7.1
	Heating	4.0	5.0	6.3	8.0
Input power		30	42	74	99
Airflow rate	High	660	780	1,000	1,000
	Med-High	620	740	910	930
	Med	580	690	830	870
	Med-Low	550	640	750	800
	Low	520	600	660	740
	Quiet	490	550	580	680
Sound pressure level	High	36	40	46	47
	Med-High	34	39	44	45
	Med	33	38	42	43
	Med-Low	31	36	40	41
	Low	29	35	37	39
	Quiet	28	34	35	37
Net Dimensions (H × W × D)		mm 199 × 990 × 655	mm 199 × 990 × 655	mm 199 × 990 × 655	mm 199 × 990 × 655
Weight		kg (lbs) 25 (55)	kg (lbs) 26 (57)	kg (lbs) 26 (57)	kg (lbs) 27 (60)
Connection pipe diameter	Liquid (Flare)	6.35	6.35	6.35	9.52
	Gas (Flare)	mm 12.70	mm 12.70	mm 12.70	mm 15.88
Drain Hose Diameter (I.D./O.D.)		25/32			

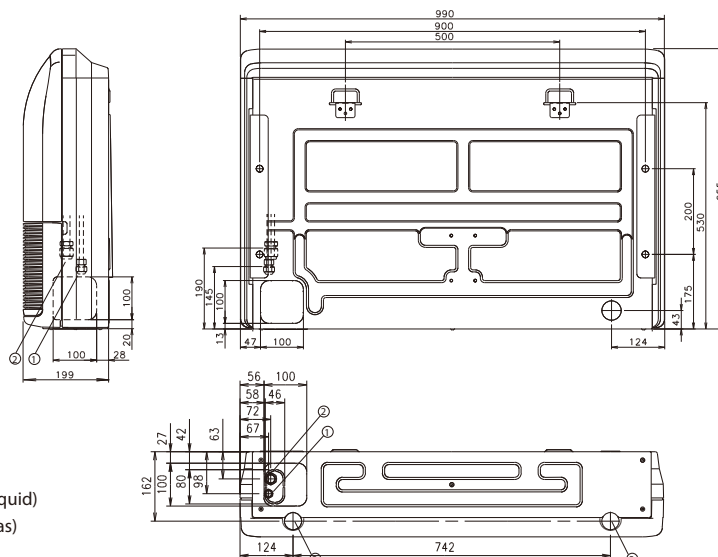
Note: Specifications are subject to the following conditions:
 Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.
 Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.
 Pipe length: 7.5 m; Height difference between outdoor unit and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

Optional parts *For more details, please refer to the chapter "Optional parts".

External power supply unit: UTZ-GXXA, UTZ-GXXC*
 WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1

Dimensions

(Unit: mm)



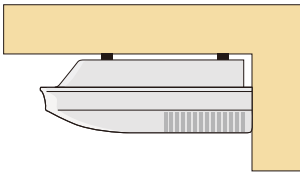
- ① Refrigerant pipe flare connection (Liquid)
- ② Refrigerant pipe flare connection (Gas)
- ③ Drain pipe connection

Ceiling



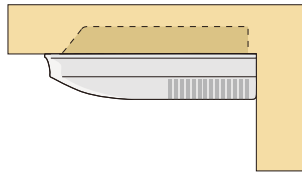
Installation

Open



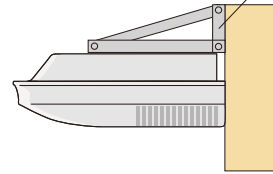
General installation with indoor unit installed on the ceiling

Concealed



Installation with indoor unit embedded into the ceiling

Wall-mounted type (Locally Available)

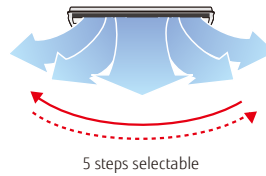


Wall-mounting brackets are used to mount the indoor unit on the wall. (Locally available) This type of installation is used when the ceiling space is insufficient.

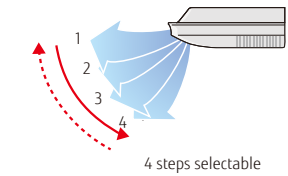
Double auto swing and wide airflow

Auto airflow direction and auto swing

Left/Right



Up/Down



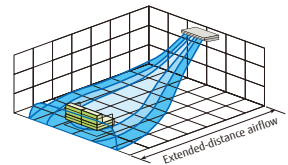
High-power DC fan motor

- High power
- Wide rotation range
- High-efficiency

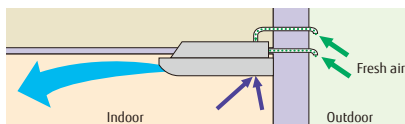


Long airflow

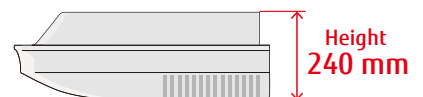
Long airflow provides comfort in every corner of a large room.



Fresh air intake



Slim & Compact design





*Actual product's design may be different from the images.

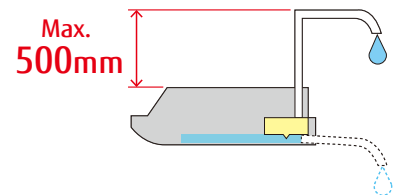
Specifications

Model name		ABYA030GTEH	ABYA036GTEH	ABYA045GTEH	ABYA054GTEH	
Power source		Single phase, ~230 V, 50 Hz				
Capacity	Cooling	9.0	11.2	12.5	14.0	
	Heating	10.0	12.5	14.0	16.0	
Input power	W	66	85	131	180	
Airflow rate	High	1,630	1,690	2,010	2,270	
	Med-High	1,520	1,560	1,840	2,070	
	Med	1,420	1,450	1,690	1,860	
	Med-Low	1,320	1,360	1,530	1,660	
	Low	1,220	1,270	1,380	1,470	
	Quiet	1,140	1,170	1,230	1,280	
Sound pressure level	High	42	45	48	51	
	Med-High	40	41	46	49	
	Med	39	39	45	46	
	Med-Low	37	38	41	43	
	Low	35	36	38	40	
	Quiet	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 (lbs)	46 (101)	48 (106)	48 (106)	48 (106)
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52	9.52	9.52
	Gas (Flare)	mm	15.88	15.88	15.88	15.88
Drain Hose Diameter (I.D./O.D.)			25/32			

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

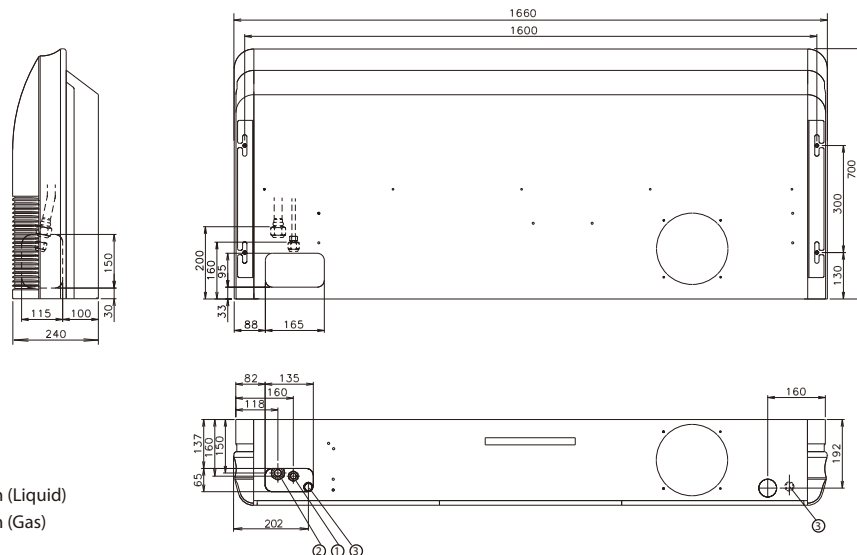
Optional parts *For more details, please refer to the chapter "Optional parts".

- Drain pump unit: UTR-DPB24T
- Flange: UTD-RF204
- External power supply unit: UTZ-GXXA, UTZ-GXXC*
- WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1



Dimensions

(Unit: mm)



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

Wall-mounted type



Highly-efficiency, compact design

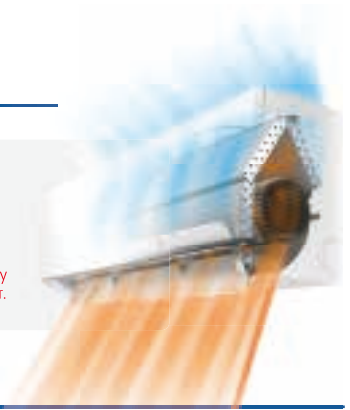
The 004-014 models share the same design. The high-density and large heat exchanger achieves a highly-efficiency and compact design. The compact body blends in well with conference rooms and offices, providing comfortable air conditioning.

High-density heat exchanger



Slim tube design: 5 mm

Greater heat-exchanging capacity is achieved through the use of a high-density heat exchanger and a sub-heat exchanger.



More comfortable airflow

The unique power diffuser provides comfortable air conditioning.

Heating

The vertical airflow provides powerful floor-level heating.



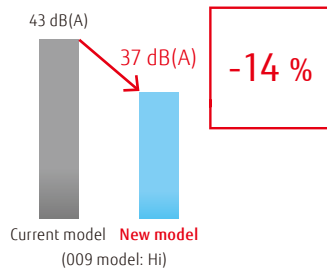
Cooling

The left/right airflow avoids blowing cool air directly at the occupants in a room.



Quiet operation & 6-Step fan speed control

The airflow pattern achieves significant noise reduction. Multistep airflow adjustment to suit the environment



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

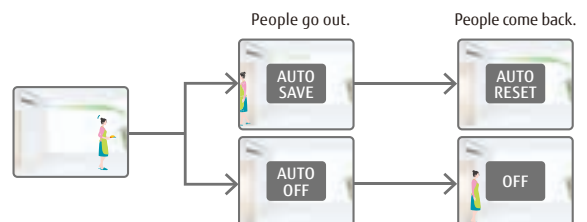


* Remote controller is compatible with the following:
UTY-RNRYZ5/UTY-RLRY/UTY-RSRY/UTY-RHRY/UTY-DCGYZ2/UTY-ALGXZ1/UTY-APGXZ1

The Occupancy sensor contributes to further energy savings.

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

*If you want to use the Occupancy sensor control function, you need an setting device that can set the Occupancy sensor control function. For example: Wired RC (Touch panel).



**Model: ASYA004GCCGH/ASYA007GCCGH/ASYA009GCCGH
ASYA012GCCGH/ASYA014GCCGH**

**[external EEV]
ASYE004GCEH/ASYE007GCEH/ASYE009GCEH
ASYE012GCEH/ASYE014GCEH**



*Actual product's design may be different from the images.

Specifications

Model name			ASYA004GCCGH	ASYA007GCCGH	ASYA009GCCGH	ASYA012GCCGH	ASYA014GCCGH	ASYE004GCEH	ASYE007GCEH	ASYE009GCEH	ASYE012GCEH	ASYE014GCEH
Power source			Single phase, ~230 V, 50 Hz					Single phase, ~230 V, 50 Hz				
Capacity	Cooling	kW	1.1	2.2	2.8	3.6	4.0	1.1	2.2	2.8	3.6	4.0
	Heating		1.3	2.8	3.2	4.0	4.5	1.3	2.8	3.2	4.0	4.5
Input power		W	12	19	20	25	36	12	19	34	25	36
Airflow rate	High	m ³ /h	450	550	610	690	800	450	550	610	690	800
	Med-High		430	510	560	610	740	430	510	560	610	740
	Med		400	470	510	560	680	400	470	510	560	680
	Med-Low		380	410	440	530	610	380	410	440	530	610
	Low		360	360	360	470	550	360	360	360	470	550
	Quiet		310	310	310	330	330	310	310	310	330	330
Sound pressure level	High	dB(A)	31	34	37	40	44	31	35	43	40	44
	Med-High		30	32	35	37	42	30	32	38	37	42
	Med		28	30	32	35	40	28	30	34	35	40
	Med-Low		27	28	29	33	37	27	27	29	33	37
	Low		26	26	26	30	34	26	24	24	30	34
	Quiet		22	22	22	24	24	22	22	22	24	24
Net Dimensions (H × W × D)		mm	268 × 840 × 203					268 × 840 × 203				
Weight		kg (lbs)	8.0 (18.0)	8.5 (19.0)	8.5 (19.0)	8.5 (19.0)	8.5 (19.0)	8.0 (18.0)	8.5 (19.0)	8.5 (19.0)	8.5 (19.0)	8.5 (19.0)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35
	Gas (Flare)		9.52	9.52	9.52	12.70	12.70	9.52	9.52	9.52	12.70	12.70
Drain Hose Diameter (I.D./O.D.)			13.8/15.8 to16.7					13.8/15.8 to16.7				
EV kit (optional)			-					UTR-EV09XB			UTR-EV14XB	

Note: Specifications are subject to the following conditions:

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

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

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

When connecting ASY*004G**H, ASY*007G**H, ASY*009G**H to an outdoor unit other than the outdoor unit of the J-IVL Series, the gas pipe diameter should be Ø12.70 mm.

Optional parts *For more details, please refer to the chapter "Optional parts".

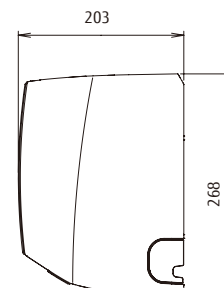
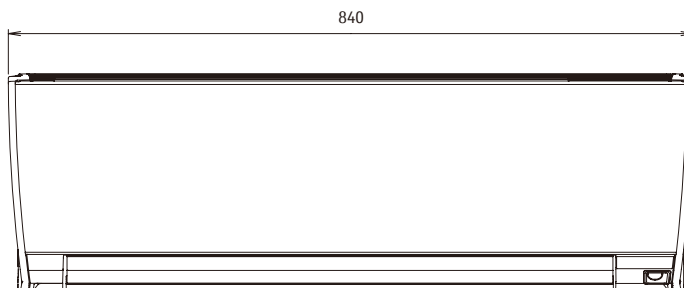
External power supply unit: UTZ-GXXA, UTZ-GXXC*

WLAN adapter: UTY-TFSXZ1, UTY-TFSXJ3, FG-AC-WIF1Z1

Silver Ion Filter : UTR-FA16-5

Dimensions

(Unit: mm)



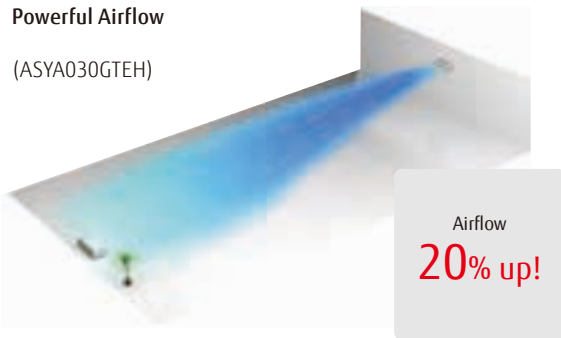
Wall-mounted type



Powerful & Comfort airflow

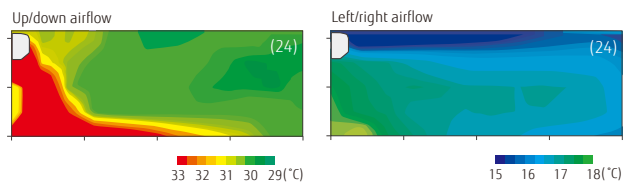
Powerful Airflow

(ASYA030GTEH)



Power diffuser

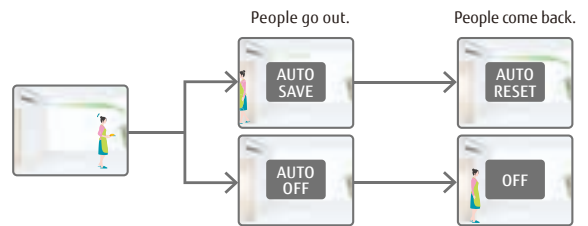
(ASYA18/24GBCH)



The Occupancy sensor contributes to further energy savings. (ASYA030/034GTEH only)

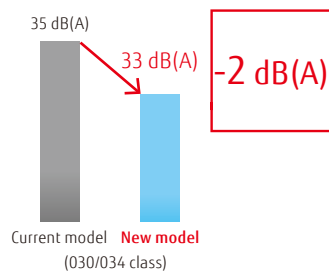
Energy saving operation starts automatically by detecting the motion of a person. Two modes of save operation mode and stop mode can be selected.

*If you want to use the Occupancy sensor control function, you need a setting device that can set the Occupancy sensor control function. For example: Wired RC (Touch panel).



6-step fan speed control for quiet operation

The airflow pattern achieves significant noise reduction. A 6-step sound level setting allows for multiple-step silent operations.



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



* Remote controller is compatible with the following:
 UTY-RNRYZ5/UTY-RLRY/UTY-RSRV/UTY-RHRV/UTY-DCGYZ2/UTY-ALGXZ1/UTY-APGXZ1

Model: ASYA18GBCH/ASYA24GBCH
ASYA030GTEH/ASYA034GTEH



ASYA18/24GBCH



ASYA030/034GTEH

*Actual product's design may be different from the images.

Specifications

Model name			ASYA18GBCH	ASYA24GBCH	ASYA030GTEH	ASYA034GTEH
Power source			Single phase, ~230 V, 50 Hz		Single phase, ~230 V, 50 Hz	
Capacity	Cooling	kW	5.6	7.1	9.0	10.0
	Heating		6.3	8.0	10.0	11.2
Input power			32	60	74	103
Airflow rate	High	m ³ /h	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	dB(A)	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	340 × 1,150 × 280
Weight			kg (lbs) 15 (33)	15 (33)	18 (40)	18 (40)
Connection pipe diameter	Liquid (Flare)	mm	6.35	9.52	9.52	9.52
	Gas (Flare)		12.70	15.88	15.88	15.88
Drain Hose Diameter (I.D./O.D.)			12/16		13.8/15.8 to16.7	

Note: Specifications are subject to the following conditions:

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

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

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

When connecting ASYA18GBCH to an outdoor unit other than the outdoor unit of the J-IVL Series, the pipe diameter should be Ø9.52/Ø15.88 mm (Liquid/Gas).

Optional parts *For more details, please refer to the chapter "Optional parts".

External power supply unit: UTZ-GXXA (030/034), UTZ-GXXC* (030/034)

Silver Ion Filter: UTR-FA13-3

WLAN adapter: UTY-TFSXJ3 (030/034), UTY-TFSXZ1 (030/034)

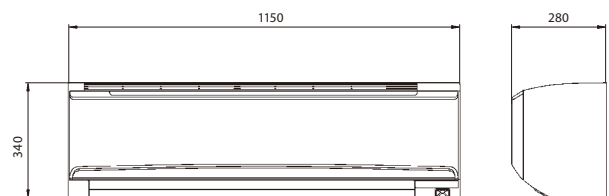
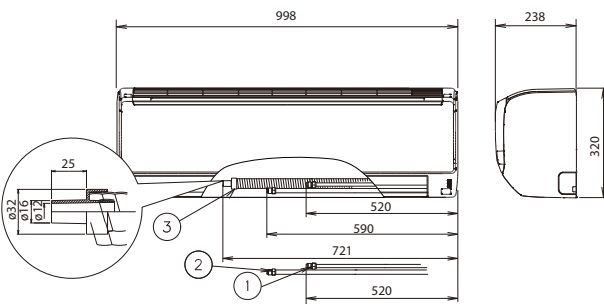
FG-RC-WIF1Z2 (18/24), FG-AC-WIF1Z1 (030/034)

Dimensions

(Unit: mm)

Models: ASYA18/ASYA24

Models: ASYA030/ASYA034



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

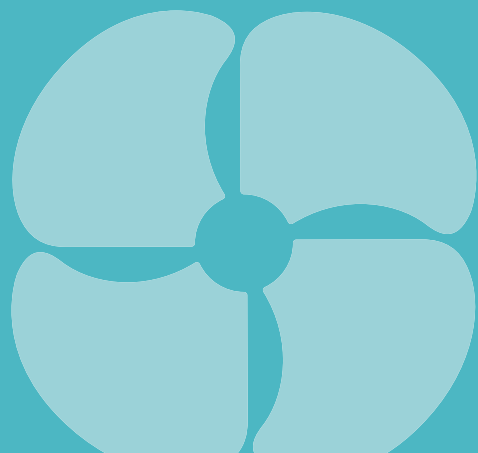


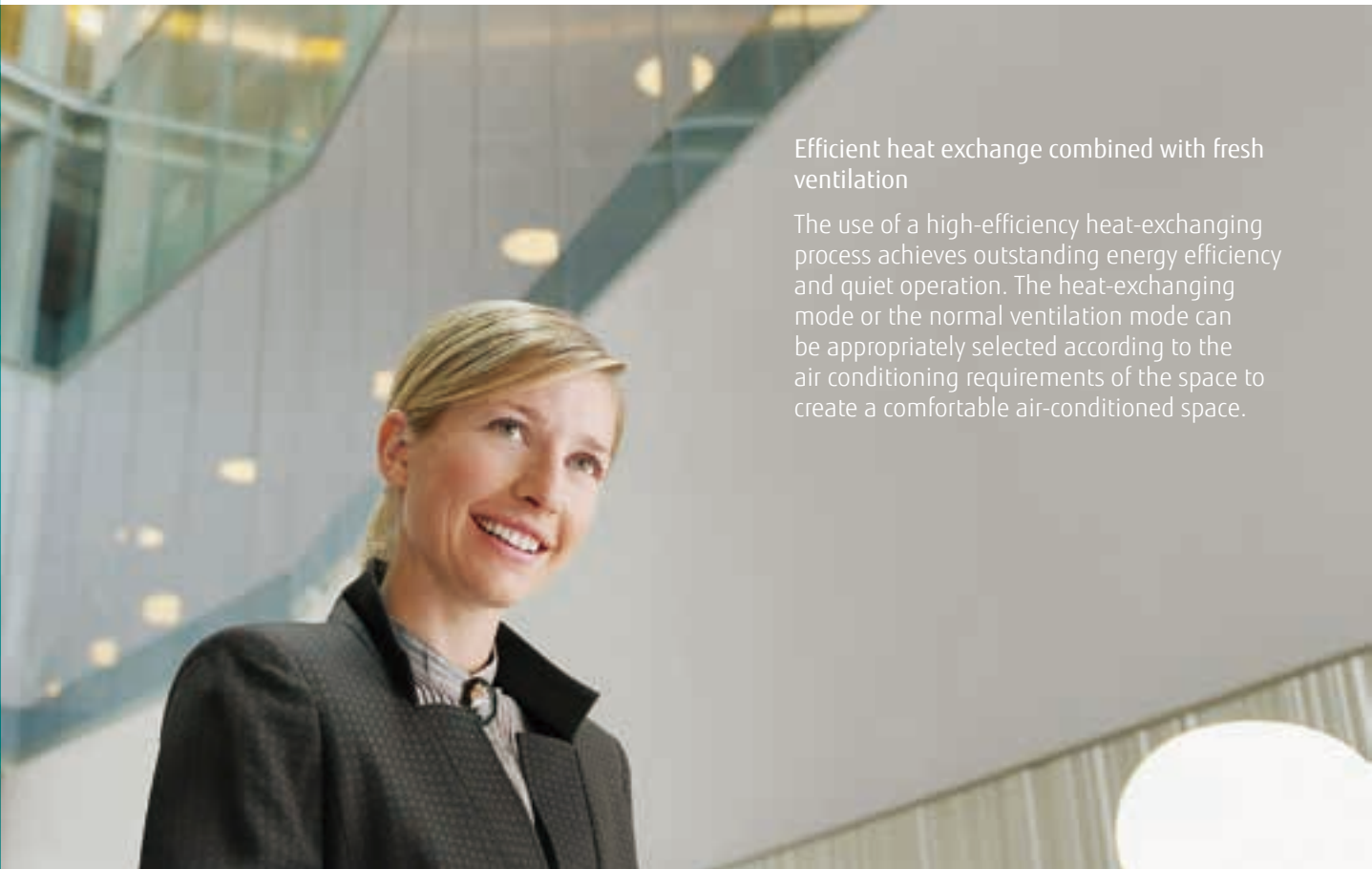
Residential, Commercial & Light Commercial

VENTILATION

VENTILATION Lineup

- Vn-002 Energy Recovery Ventilator
- Vn-004 DX kit for Air handling applications
 - for VRF Outdoor unit
- Vn-006 DX kit for Air handling applications
 - for Single Split Outdoor Units
- Vn-008 AIR HANDLING UNIT




















Efficient heat exchange combined with fresh ventilation

The use of a high-efficiency heat-exchanging process achieves outstanding energy efficiency and quiet operation. The heat-exchanging mode or the normal ventilation mode can be appropriately selected according to the air conditioning requirements of the space to create a comfortable air-conditioned space.

Lineup

Airflow rate (m ³ /h)	250		350		500		800		1000							
Energy Recovery Ventilator																
	UTZ-BD025C		UTZ-BD035C		UTZ-BD050C		UTZ-BD080C		UTZ-BD100C							
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	
Connectable capacity class (kW)	3.5 - 22.0															
DX-kit for Air handling applications for VRF Outdoor unit																
	UTY-XDZX															
Connectable capacity class (kW)	25 - 96															
Air handling unit																
	AHYA/AHYB/AHYC/AHYD/AHYE															

Energy Recovery Ventilator



The energy recovery ventilator unit provides energy efficiency for comfort and improved savings.

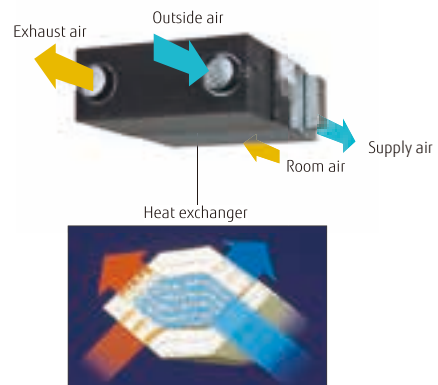
Heat exchange ventilation and normal ventilation

Heat exchange ventilation

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

Normal ventilation

Used when the indoor space does not require cooling or heating, i.e., when there is little temperature difference between the indoor and outdoor environments.



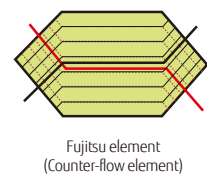
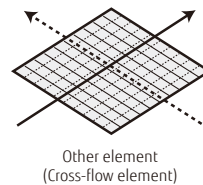
A high-efficiency counter-flow heat-exchanging element is used in the setup.

Energy efficiency and ecology

The use of a counter-flow heat-exchanging element, designed to recover up to 77% of heat from the outgoing air, significantly reduces energy consumption. The air conditioning load is reduced by approximately 20%, which results in substantial savings in energy cost.

Comparison of heat-exchanging elements

Air flows in a straight line through a crossflow element. In contrast, air flows for a longer time (a longer distance) through a counter-flow element to achieve more consistent heat-exchanging performance.



Quiet operation

Significantly lower noise levels are achieved by reducing pressure loss.

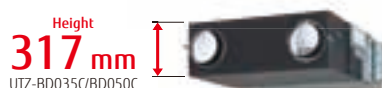
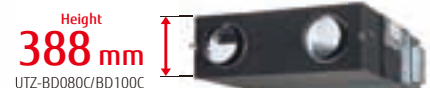
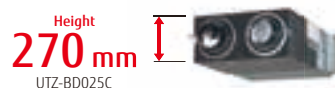
25.5dB
(UTZ-BD035C)

Extended range of external static pressure

The use of a powerful fan motor improves the external static pressure. This allows it to be installed in a variety of buildings.

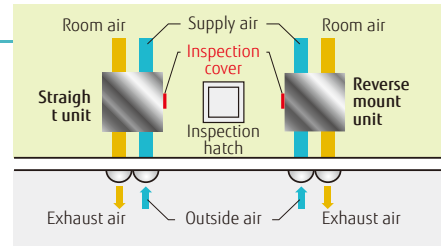
Slim design for easier installation

The use of a counter-flow heat-exchanging element made it possible to design a quieter, slimmer unit.



Reverse-mountable direct air supply and exhaust system

Simplifies the duct design, due to its straight ducts for air supply and exhaust. Since each unit can be mounted facing opposite directions, only one inspection hole is needed for two units. This makes duct work easier and more flexible.



Simple remote operation

Easy operation with connected liquid crystal switch

- Power On/Off
- On/Off Timer
- Air volume High/Low
- Clean filter display
- Heat exchange ventilation and normal ventilation



Model: UTZ-BD025C/UTZ-BD035C/UTZ-BD050C/UTZ-BD080C/UTZ-BD100C



UTZ-BD025C



UTZ-BD035C



UTZ-BD050C



UTZ-BD080C



UTZ-BD100C

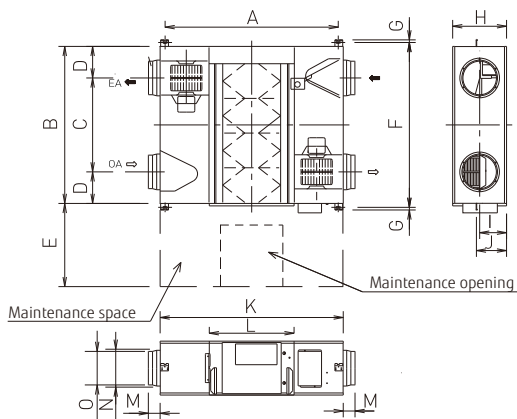
Specifications

Rated flow rate			250 m ³ /h	350 m ³ /h	500 m ³ /h	800 m ³ /h	1000 m ³ /h	
Model name			UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100C	
Power source			Single phase, ~220 to 240 V, 50 Hz					
Heat Exchange Ventilation	Input power	(Extra high)/High/Low	W	128/123/96	190/185/168	289/225/185	418/378/295	464/432/311
	Airflow rate	(Extra high)/High/Low	m ³ /h	250/25/190	350/350/240	500/500/440	800/800/630	1,000/1,000/700
	External static pressure	(Extra high)/High/Low	Pa	105/95/45	140/60/45	120/60/35	140/110/55	105/80/75
	Temperature exchange efficiency	(Extra high)/High/Low	%	75/75/77	75/75/78	75/75/76	75/75/76	75/75/79
	Energy exchange efficiency cooling	(Extra high)/High/Low	%	63/63/65	66/66/71	62/62/64	65/65/68	65/65/70
	Energy exchange efficiency heat pump	(Extra high)/High/Low	%	70/70/72	69/69/73	67/67/69	71/71/74	71/71/76
Normal Ventilation	Sound pressure level	(Extra high)/High/Low	dB*	31.5/30.5/26.5	33.0/31.0/25.5	37.5/35.5/32.5	37.5/37.0/34.5	38.5/37.5/34.5
	Input power	(Extra high)/High/Low	W	128/123/96	190/185/168	289/225/185	418/378/295	464/432/311
	Airflow rate	(Extra high)/High/Low	m ³ /h	250/25/190	350/350/240	500/500/440	800/800/630	1,000/1,000/700
	External static pressure	(Extra high)/High/Low	Pa	105/95/45	140/60/45	120/60/35	140/110/55	105/80/75
	Energy exchange efficiency	(Extra high)/High/Low	%	75/75/77	75/75/78	75/75/76	75/75/76	75/75/79
	Sound pressure level	(Extra high)/High/Low	dB*	31.5/30.5/26.5	33.0/31.0/25.5	38.5/38.0/32.5	37.5/37.0/34.5	40.5/39.5/36.5
Dimensions	W × D × H	mm	882 × 599 × 270	1,050 × 804 × 317	1,090 × 904 × 317	1,322 × 884 × 388	1,322 × 1,134 × 388	
Weight		kg	29	49	57	71	83	
Outlet duct diameter		mm	150	150	200	250	250	
Operating range		°C	-10 to 40	-10 to 40	-10 to 40	-10 to 40	-10 to 40	
Maximum humidity		%	85	85	85	85	85	

* Noise level measured 1.5 m below the center of the unit

Dimensions

(Unit: mm)



	UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100C
A	810	978	1,018	1,250	1,250
B	599	804	904	884	1,134
C	315	580	640	428	678
D	142	112	132	228	228
E	600	600	600	600	600
F	655	860	960	940	1,190
G	19	19	19	19	19
H	270	317	317	388	388
I	135	159	159	194	194
J	159	182	182	218	218
K	882	1,050	1,090	1,322	1,322
L	414	470	470	612	612
M	95	70	70	85	85
N	Ø164	Ø164	Ø210	Ø258	Ø258
O	Ø144	Ø144	Ø194	Ø242	Ø242

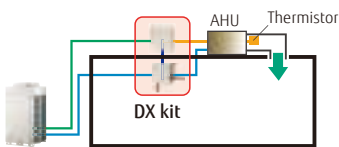
DX kit

for Air handling applications
for VRF Outdoor unit

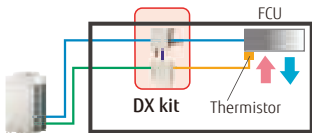


With these kits, air handling units (AHUs) and fan coil units (FCUs) from other manufacturers can be incorporated into Fujitsu General VRF systems, or one AHU can be connected to one Fujitsu General VRF dedicated outdoor unit to control outdoor ventilation and room temperatures.

Multiple temperature sensors optimally control an Air handling unit and a fan coil unit.

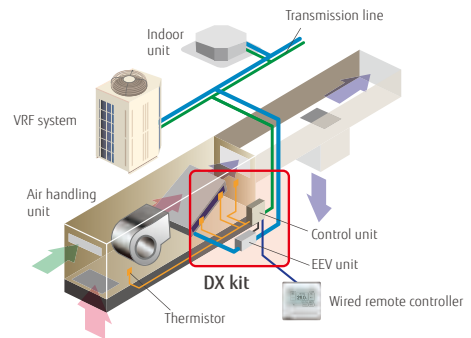


When connected to an Air handling unit, the temperature of supply air is controlled by a discharge air sensor.



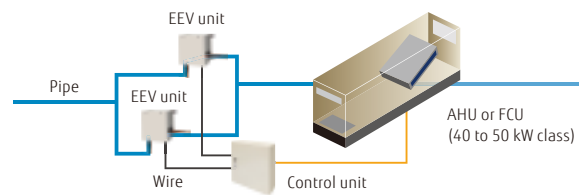
When connected to a fan coil unit, the room temperature is controlled by the discharge air sensor.

Application as part of a VRF system



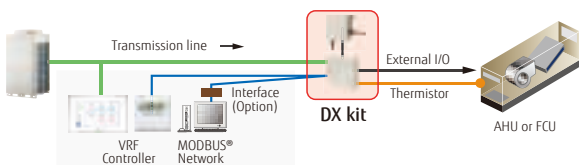
Supports a wide range of capacity classes

- Two EEV units can be connected in parallel to large-capacity units of up to 20 HP (50 kW). (UTP-LX180A separation tube required)
- Connectable capacity range: 5 kW to 50 kW

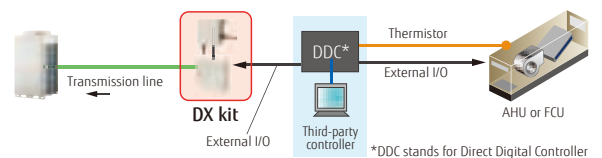


A variety of control options that meet application requirements

Central control enabled by our VRF controllers or central management controllers



Central control from external controllers



*DDC stands for Direct Digital Controller

Summary of functions

Inputs

- On/Off
- Setting temperature
- Capacity demand
- Heating/Cooling operation modes
- Fault information

Outputs

- On/Off indication
- Fan On/Off indication
- Thermostat On/Off indication
- Defrost indication
- Fault indication

MODBUS® Control

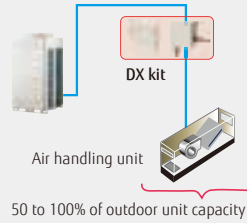
Can be controlled via a MODBUS®-enabled BMS using an optional interface.

Installation requirements

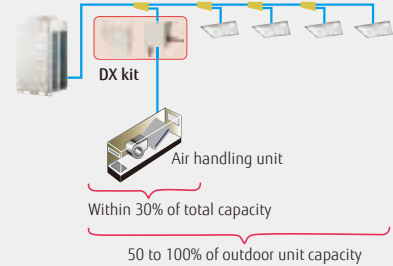
- Connectable VRF Series: All VRF Series
- Capacity range of connectable DX kit systems with outdoor units: 50 to 100% of capacity
- Capacity range of connectable DX kit systems with indoor units: 30% or less of capacity
- Max. wire length from a control unit: 10 m
- Max. pipe length between EEV unit and indoor unit: 5 m
- A control unit (IP54 class) and an EEV unit can be installed outdoors.

Connectable capacity

• Single connection



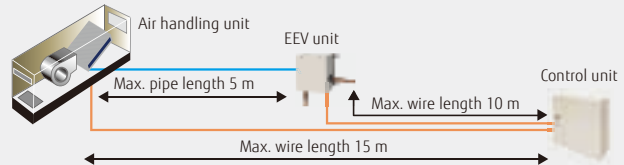
• Mixed connection



Optional separation tube to connect two EEV units: UTP-LX180A

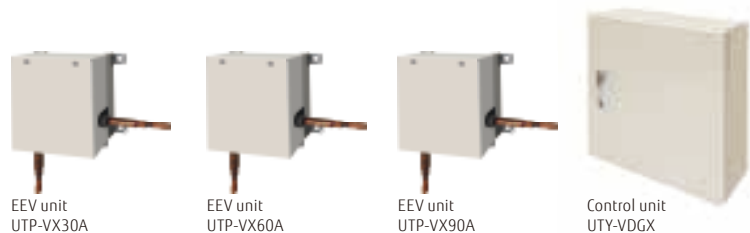


Pipe and wire length



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].

DX kit

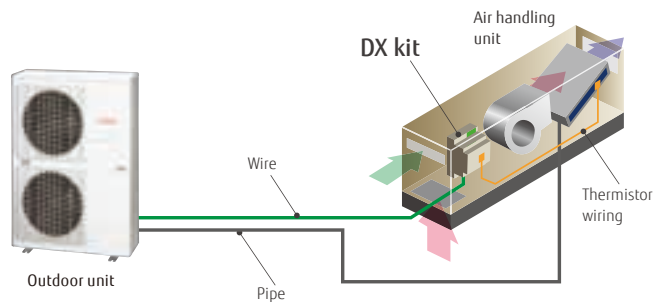
for Air handling applications
for Single Split Outdoor Units



With this kit, other manufacturers' Air handling units (AHUs) and fan coil units (FCUs) can be incorporated into Fujitsu General Split outdoor units.

Flexible connectivity

This kit allows connections to third-party equipment. This control unit can also be used in conjunction with Fujitsu General single-split outdoor units, providing a perfect solution when a stand-alone Air handling unit is needed.



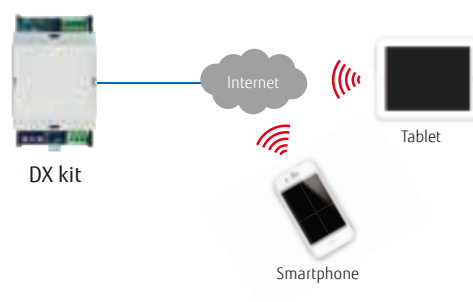
Supports a wide range of capacity classes

Capable of connecting large capacities in the range of 3.5 kW to 22.0 kW (Nominal)



Mobile devices allow for operation from anywhere

Can be operated and managed remotely using your smartphone or tablet.



Summary of functions

Inputs

- On/Off
- Heating/Cooling operation modes
- Capacity demand (analogue 0 to 10 V)
- Heat exchanger temperature

Outputs

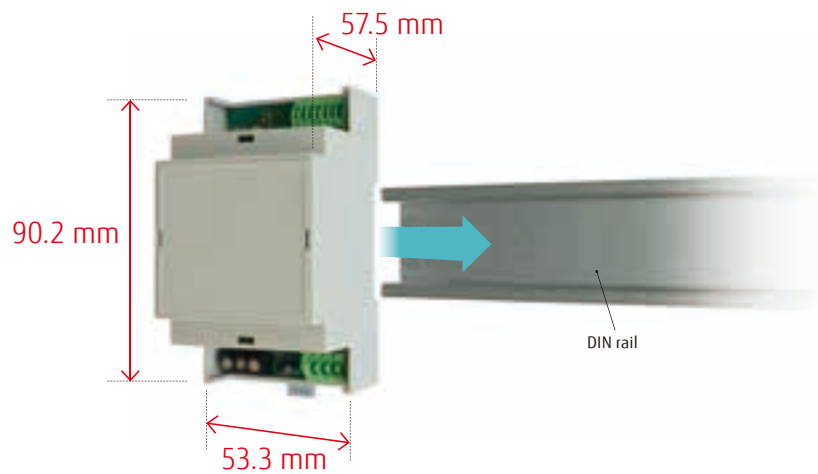
- Status of Compressor, Defrost, and Errors (Potential free relays)
- Status indicator with LED

Wireless LAN Control

Wireless LAN control through cloud connectivity enables secure remote monitoring and control from anywhere.

Easy installation

- Compact DIN rail mountable enclosure for easy installation
- No expansion devise required
- No separate external power supply required



Model: UTY-XDZX



Specifications

BTU		12	14	18	24	30	36	45	54	60	72	90
Capacity (Nominal)	Cooling	3.5	4.3	5.2	6.8	8.5	9.4	12.1	13.3	15.0	19.0	22.0
	Heating	4.1	5.0	6.0	7.8	10.0	10.8	13.3	15.8	18.0	22.4	27.0
kW												
Model name		UTY-XDZX										
Power source	V/Ø/Hz	230/1/50										
Dimensions (H × W × D)	mm	90.2 × 53.3 × 57.5										
Weight	g	110										

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: 5.0 m Voltage: 230 [V].



Light Commercial & Commercial AIR HANDLING UNIT

- Vn-010 System Overview
- Vn-012 VRF Lineup
- Vn-014 Air Handling Units Overview
- Vn-016 Features
 - Structure
 - Filtration
 - Thermal Exchange Sections
 - Fan Section
 - Humidifier
 - Heat Recovery Section
- Vn-022 Dimensions
- Vn-025 Loose Accessories
- Vn-026 Total Pressure Drop
- Vn-027 Fan Characteristic Curves
- Vn-030 Specifications
- Vn-032 Control System
 - AHU Controller
 - System controller (System controller Lite)



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





System Overview

Air handling applications available in Fujitsu General VRF system realize high energy efficiency and superior comfort to flexibly adapt to the stringent air conditioning requirements and installation conditions of a wide variety of facilities.

The system consists of VRF outdoor units of 10 to 48 HP and thermal ventilation and air conditioning units for civil and industrial use, covering airflow ranges from 4,300 to 18,100 m³/h with cooling capacities from 25 to 96 kW.



AHU CONTROLLER



SYSTEM CONTROLLER



Controller line

Controller line

Transmission line

Transmission line

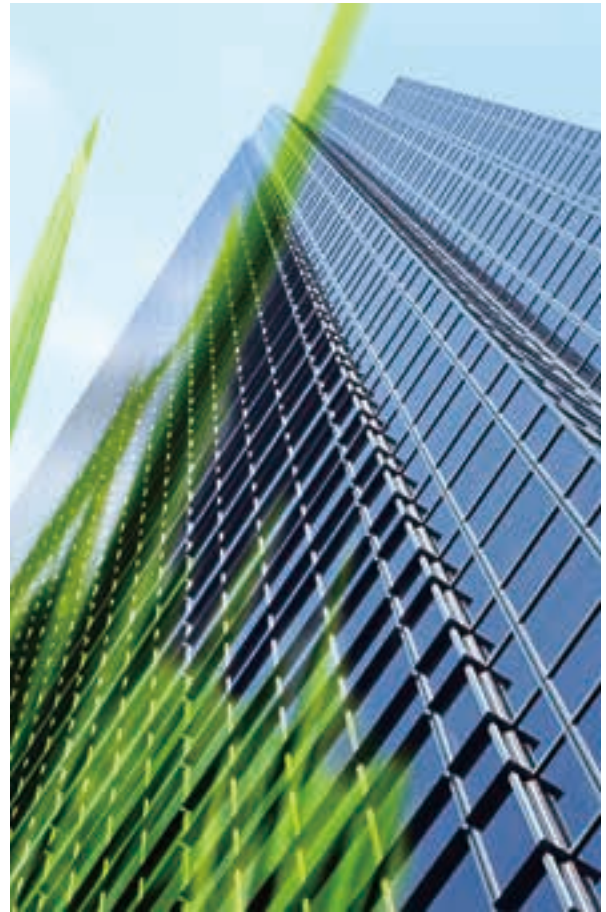
Pipe line



- For AHU control: AHU controller (Only For AHU)
 † For mixed connection control: System controller, or third-party controller with MODBUS® converter

AHU

AIR HANDLING UNIT



Advantages of the System

Full comfort

This system provides clean, Fresh air with advanced filtration and balanced temperatures to increase comfort and air quality in a building.

Simple design, easy installation



















Equipped with a DX kit (Electronic Expansion Valve and PCB), AHU facilitates installation design. The AHU model can be easily configured using the Selection Software.

Total solution concept

Integrating an AHU into the building climate control system simplifies the design and installation processes based on a single, common technology. From project follow-up through to installation, commissioning, and maintenance, all procedures are simplified. The above features allow a single installation company to carry out design, installation, and commissioning.

VRF Lineup





















Fujitsu General's VRF series is a multi-type air conditioning system for buildings tailored to the scale and application of the building.

Capacity (kW)		28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0	73.5
HP		10	12	14	16	18	20	22	24	26
J-IVL Series		 AJY090 LELDH	 AJY108 LELDH	 AJY126 LELDH	 AJY144 LELDH	 AJY162 LELDH				
V-IV Series Heat Pump	Space Saving	 AJY090 LALDH	 AJY108 LALDH	 AJY126 LALDH	 AJY144 LALDH	 AJY162 LALDH	 AJY180 LALDH	 AJY198 LALDH	 AJY216 LALDH	 AJY234 LALDH
	Set Model									
	Energy Efficiency				 AJY144 LALDHH		 AJY180 LALDHH		 AJY216 LALDHH	 AJY234 LALDHH
Set Model										



VRF **J-IVL** for Small Offices

Fujitsu General provides air conditioning systems for a wide range of applications, from residences, small offices, hotels, to large retailers.

78.5	85.0	90.0	95.0	100.5	107.0	112.0	118.5	123.5	130.0	135.0
28	30	32	34	36	38	40	42	44	46	48
										
AJY252 LALDH	AJY270 LALDH	AJY288 LALDH	AJY306 LALDH	AJY324 LALDH	AJY342 LALDH	AJY360 LALDH	AJY378 LALDH	AJY396 LALDH	AJY414 LALDH	AJY432 LALDH
										
AJY252 LALDHH	AJY270 LALDHH	AJY288 LALDHH	AJY306 LALDHH	AJY324 LALDHH	AJY342 LALDHH	AJY360 LALDHH	AJY378 LALDHH	AJY396 LALDHH		

*Actual product's design may be different from the images.



VRF **V-IV** for Large Office

Smart, cutting-edge design Available in a wide range of models from 10 to 48 HP in 2 HP increments, with the capacity ratio of indoor units connectable up to 100%.

Air handling units Overview

The Air handling unit (AHU) is designed to be connected with VRF series outdoor units for thermal ventilation and air conditioning of civil and industrial buildings. With airflow rates ranging from 4,300 to 18,100 m³/h and cooling capacities from 25 to 96 kW, a variety of models and multiple additional modules are available to meet diverse installation needs.

The AHU is made of extruded aluminum profiles and nylon angle bars. The "sandwich-type" double-skin panels (50 mm thick), made of surface coating pre-painted galvanized sheets and high-density polyurethane foam insulation, are fixed to the unit by an aluminum snap-in locking system.

The AHU fan section in the EC inverter Plug Fans provides constant airflow and constant available static pressure with an automatic control system. An electronic device with a pressure sensor mounted in the system and a control sensor on the EC inverter Plug Fans adjust the airflow rate and the available static pressure to keep the airflow constant.

5 configurations are available

Configuration A

In line with Front damper

For fresh air operation up to 100% external air

Configuration B

In line with Top inlet damper

For fresh air operation up to 100% external air

Configuration C

In line with Inlet mixing box

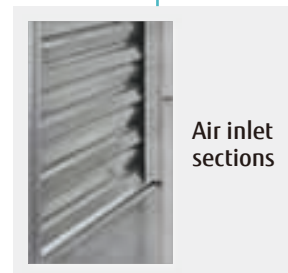
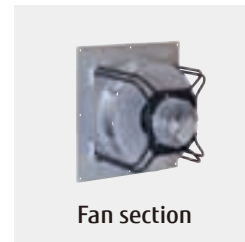
For fresh air operation up to 20% external air

Configuration D

Double deck with Cross-flow heat exchanger

Configuration E

Double deck with heat wheel





Coil section including built-in expansion valve with PCB control



Electrical heating section



Fan section

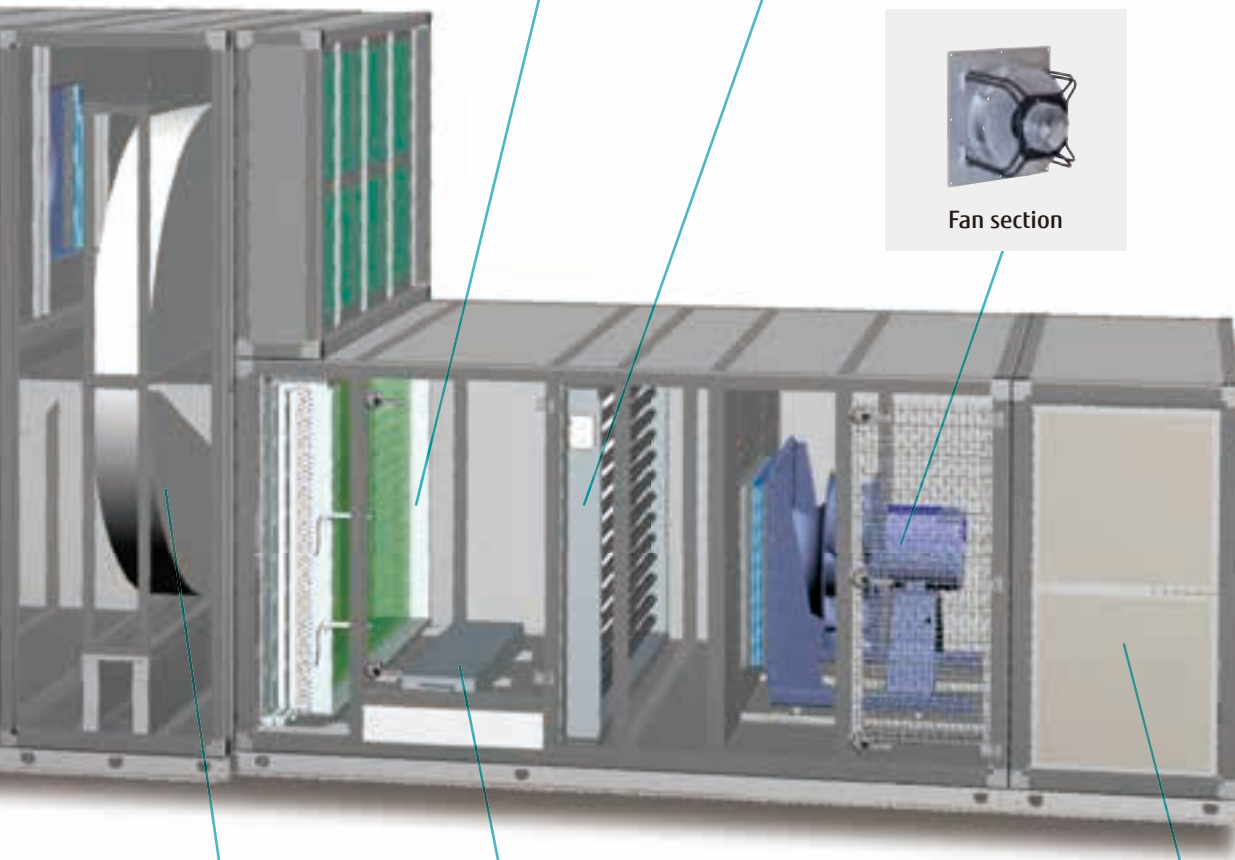


Photo: Configuration E



Humidification sections



Heat recovery Cross-flow type



Heat recovery Heat wheel type



Sound attenuator sections

Feature

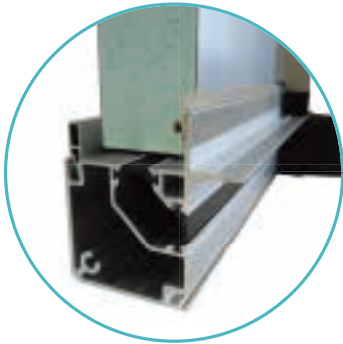


Photo: Configuration C

Structure

Section of extruded profile 62 × 62 mm (SNAP-IN system)

- The Air handling units are manufactured with a bearing framework and sandwich paneling.
- The frame is made of extruded anti-corrosive aluminum alloy profile, AlMgSi 0.5- UNI 9006/1.

Mechanical characteristics of extruded aluminium alloy

Denomination	Specific weight (kg/dm ³)	Unitary load of traction break R (kg/mm ²)	Yielding load S (0,2) (kg/mm ²)	Stretch (%)	Brinell hardness (kg/mm ²)
ANTICORODAL 050 UNI 9006/1 EX UNI 3569 (6060) ISO = Al Mg Si 0.5	2,70	20 ÷ 23	16 ÷ 20	12 ÷ 15	60 ÷ 70

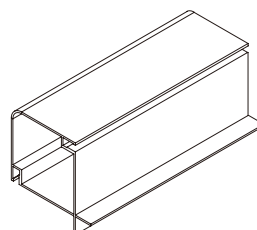
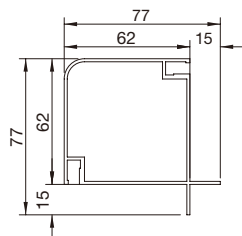
Profile

- Fujitsu General's proprietary bearing has an actual size of 62 × 62 mm and an aluminum locking panel system (SNAP-IN system). This system enables uniform tightness of the panels that has not been achieved with the previous self-drilling screw fasteners, and thus ensures a degree of adhesion in excess of 2,500 Pa (10 in.W.G.). This profile, with no internal or external screws, provides a stronger and more beautiful appearance.
- The actual size of the panel used is 50 mm, due to the dimensions of the profile.
- In addition, the profile has no external sharp edges as prescribed by safety and accident prevention guidelines.
- The AHU is certified as meeting the most stringent performance standards.



- Fujitsu General units and all the internal components comply with ErP EcoDesign Directive 2018 Lot 6.
- Fujitsu General units comply with the European Standards UNE EN 1886 with respect to thermal and mechanical performances.

(Unit: mm)



Paneling

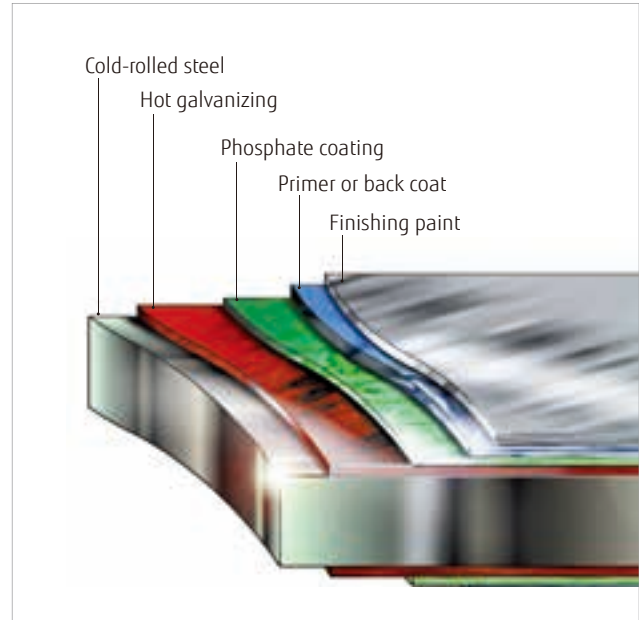
The panels are a double-skin sandwich type made of galvanized steel, with polyurethane foam insulation of a minimum density of 45 kg/m^3 and an actual thickness of $\sim 50 \text{ mm}$.

The composition of the panel is as follows:

Inner skin: hot-dip galvanized sheet (galvanization thickness of not less than 140 g/m^2), $5/10 \text{ mm}$ thick

Insulation: rigid polyurethane foam (minimum density of 45 kg/m^3 , thermal conductivity $0.018 \div 0.024 \text{ w/m}^2 \cdot ^\circ\text{C}$)

Outer skin: hot-dip, pre-painted galvanized sheet (galvanizing thickness of not less than 140 g/m^2), $6/10 \text{ mm}$ thick



PRE-PAINTED GALVANIZED STEEL SHEET

Features of steel sheets

Hot-dipped galvanized steel sheet Fe P02 GZ 140 UNI EN 10142 with galvanization of not less than 140 g/m^2 , $6/10 \text{ mm}$ thick

Pre-painted steel sheet, $6/10 \text{ mm}$ thick, with base support made of hot-dip galvanized steel with galvanization of not less than 140 g/m^2 EURONORM 142-79, a white-grey coating with excellent weather resistance. The protective system consists of a dry film of $25 \mu\text{m}$ on the exposed skin, and of a dry film of $5 \mu\text{m}$ on the non-exposed skin.

Film hardness: F on the Koh-i-Noor scale

Other chemical and physical properties:

- Resistance to salt spray exceeding 250 hours
- Resistance exceeding 1,000 hours in 100% relative humidity (ASTM D 714)
- Film resistance to cleaving and adhesion after bending (ECCA T7).

The exposed surface of the steel plate is covered with a self-adhesive PVC film to prevent damage during the manufacturing process and transportation.

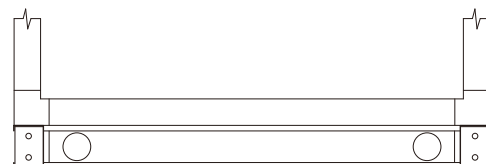
Base frame

The bearing base frame is made of galvanized steel, the outline of which is pressure bent, bolted or welded, depending on the configuration of the unit.

Each part can be elevated and lowered, making it suitable for water and drain pipe.

The perimeter base frame is 100 mm high, C-shaped and bolted on all units.

The base frames for all of the above solutions are made of galvanized steel with a thickness of at least 2 mm .



SECTION VIEW

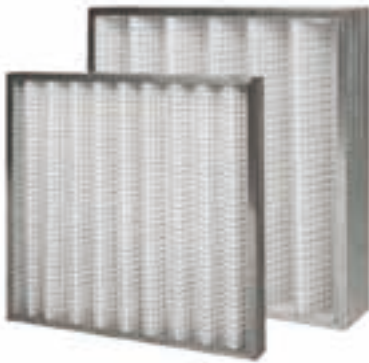
The baseframe is flush with the panel.

Covering Roof (TT - Accessory)

- Units that are installed outdoors or that are frequently exposed to the weather can be fitted with a hot galvanized steel roof (with a galvanization of 140 g/m^2 or higher) as an accessory element.
- The roof overhang relative to the outer length of the unit is about 100 mm .
- All roof corners are equipped with protectors to prevent accidents.

Filtration

Plate Filters COARSE 55%



The plate filter filters air at low and medium efficiency.

- Plate filters are generally used as pre-filters to maintain the efficiency of the filters installed downstream for longer.
- Plate filters are installed on guides fixed inside the unit. In this case, the air bypass will be minimal.

Plate filters are widely used due to the following features:

- Easy to remove
- Easy to obtain spare parts
- Highly regenerable, they can be cleaned with warm water and soap or common household detergent.

Features of Plate filters

- Galvanized steel sheet frame 48 mm thick
- Support containing net made of galvanized electrowelded wire
- Filtering material made of synthetic fiber with a filtration efficiency of COARSE 55%

Filtration

Bag Filters ePM1 50%



Bag filters are characterized by a large filtration area due to their bag-like shape, which greatly reduces the airflow velocity as the air passes through the filter.

The bags are installed on a galvanized slide and can be removed from the side. This filtering section includes an access door.

N.B.: ePM1 50% bag filters are mandatory to comply with ECODESIGN ErP 2016.

Features of soft bag filters

- Efficiency of ePM1 50%
- 287 mm deep
- Filter material made of fiberglass
- Galvanized steel sheet frame
- 80% of the material is recyclable
- Can be used even at 100% relative humidity.

Thermal Exchange Sections

DX Coil



Contents

- DX coil with copper tubes and aluminum fins, specifically designed to ensure a high thermal exchange rate and an excellent ratio of sensible and latent heat;
- One distributor and one electronic expansion valve for each circuit are connected to the control PCB, and the control PCB is located in close proximity to avoid interference, immunity, and electromagnetic interference problems;
- The temperature probes installed at the front, rear, and middle of the coil provide data to the control PCB, which in turn determines the opening of the electronic expansion valve according to the work point and the setpoint;

In multi-module units, the cooling circuits are interlaced to ensure full utilization of the exchange surface and the uniformity of the air being processed even under partial loads. The section includes the control PCB.

Thermal Exchange Sections

Electrical heating



Electrical heating section is used for heating and post-heating processing

The thermal exchange sections consist of:

- Galvanized steel sheet flanged containing frame
- Finned steel tubular heaters on base insulators
- Safety fix thermostat with manual reset
- Electric heating is assumed to have a capacity of up to 36 kW at 400 V/3-phase/50 Hz system.

Fan Section

EC Inverter Plug-Fan



The fan section is equipped with an EC Inverter Plug-Fan.

- EC Inverter Plug-Fans are electronically controlled to adjust the fan speed to provide airflow and static pressure according to the system capacity. By varying the airflow according to the required heat load, the system reduces energy consumption and noise, which is effective especially when partial loads are applied.
- The EC Inverter Plug-Fans allow the user to set various working conditions to meet the needs of the unit directly on site from the control panel on the Electrical Board section. If the wind is weaker than expected, for example, the operating conditions can be changed and adjusted with ease.
- Compared to traditional plug fans, the use of EC inverter technology has greatly improved the overall efficiency and acoustic properties of fans. The blade geometry with a diagonal trailing edge has positive effects on the aerodynamic performance and on the smoothness of fan rotation. The same holds true for the contour of the mounted nozzle.
- By integrating the EC motor directly into the impeller with the fan, the overall dimensions of the section can be minimized. There is no need for the commonly used belt drive between the motor and the fan. This reduces the amount of installation required and associated installation work.
- The EC inverter Plug Fans substantially exceed the requirements for energy efficiency class A+ requirements listed in the German Manufacturers Association RLT Directive 01 "General Requirements for Ventilation and Air Conditioning Equipment" and in the ErP2015 standards respectively.
- The EC inverter Plug Fans used in the fan section of the AHU provide constant airflow and constant available static pressure with an automatic control system. An electronic device with a pressure sensor mounted in the system and a control sensor on the EC inverter Plug Fans adjust the airflow rate and the available static pressure to keep the airflow constant.

Humidifier



Electrode humidifiers specifically designed for installation inside Air handling units

- The humidifier consists of two electrically connected parts: a hydraulic part and a control unit based on a microprocessor board. The hydraulic part is completely inserted into the AHU, and sits on top of the drain tank immediately downstream of the cooling coil.
- This control is fully integrated into the microprocessor in the AHU.
- The hydraulic boiler consists of a plastic polypropylene channel with a cross section of 33 cm × 16 cm high and a length proportional to the width of the AHU. Stainless steel electrodes are placed vertically inside the boiler, connected to the power supply, and are easily removable. The plastic lid is inclined so that any condensation will drain into the boiler in order to avoid power losses.
- Narrow longitudinal slots between the plastic sections allow air to fill the entire length of the AHU section by outputting the generated steam.
- This prevents condensate from being generated in the pipes and also prevents the steam pressure in the boiler from rising due to clogging of the steam pipes.

On one side of the kettle, there is a body for hydraulic management of the system, which can be easily accessed after installation.

- Maximum water level sensor
- The drainage block is specially designed to empty the tank of water and limestone debris without blocking the tank or interrupting the flow of water, allowing the work to be done without applying pressure.

An electronic rotation sensor grafted to the pivot motor communicates with the microprocessor to manage correct operation, and any malfunctions are indicated on the display.

Heat Recovery Section

Cross-flow heat recovery



The efficiency of the recovery unit is up to 85%.

- The fixed plate static recovery units are air-to-air with no moving parts, making the system reliable and safe. The air moves in a cross flow, where heat is transferred directly from the hotter stream to the cooler stream. The efficiency of the recovery unit is up to 85%.
- This type of heat exchanger is made of pressed aluminum sheets and is housed at various intervals depending on the type of use.
- The edges are sealed to prevent renewed air from being contaminated from polluting agents contained in exhaust air.

Normal supply is assumed to be as follows:

- Recovery units with aluminum fins
- Cell prefilters COARSE 55% (85% efficiency) installed on the fresh air side
- Galvanized steel sheet drain pan to collect possible condensation

Heat Recovery Section

Heat Wheel Recovery Units



The principle of operation is as follows:

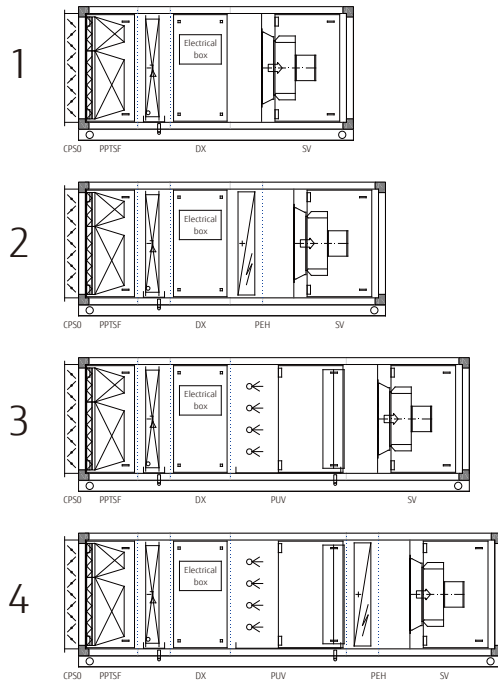
- The exhaust air travels across the semi-circular rotor sector, transferring some of its heat to the metal mass. As the exhaust passes through the half circular rotor sector, it transfers heat to the metal parts, which in turn transfers the heat to the fresh, cool air drawn in from outside through the other side of the half circular rotor sector, thus allowing ventilation without cooling the room. When the rotor is of the hygroscopic type, the humidity contained in the exhaust air will also be partially transferred to the regenerative air.
- The terms "warm air" and "cold air" as used above are valid for the winter operating cycle; in the summer operating cycle, the functions of heat and humidity transfer and absorption are reversed.

Typically, these types of recovery units consist of:

- Aluminum rotor
- Galvanized steel sheet frame
- Constant speed electric gearmotor

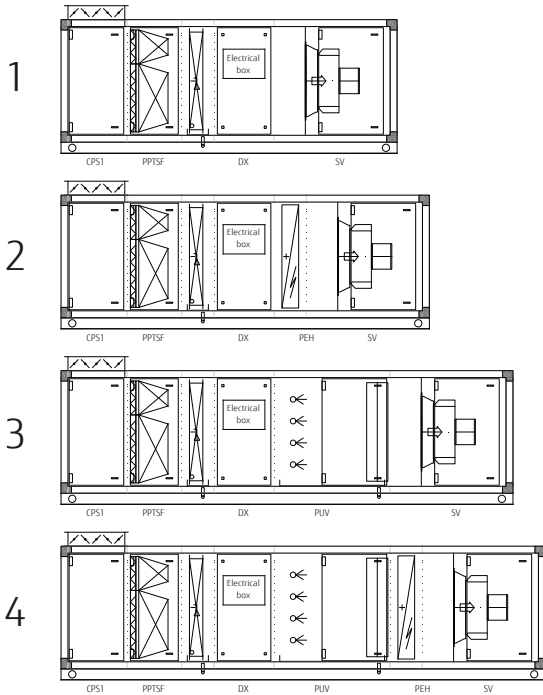
Dimensions

Configurations A



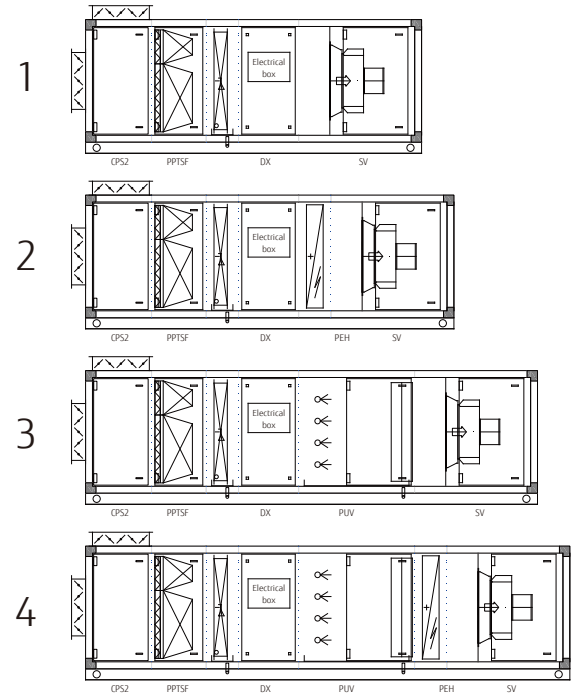
Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYA025GWAA	1	1,064	1,154	2,619	611	3,529
AHYA025GWAB	2	1,064	1,154	3,109	679	4,019
AHYA025GWAC	3	1,064	1,154	2,619	629	3,529
AHYA025GWAD	4	1,064	1,154	3,109	697	4,019
AHYA040GWAA	1	1,199	1,354	2,749	844	3,659
AHYA040GWAB	2	1,199	1,354	3,319	931	4,229
AHYA040GWAC	3	1,199	1,354	2,749	865	3,659
AHYA040GWAD	4	1,199	1,354	3,319	952	4,229
AHYA048GWAA	1	1,309	1,574	2,749	921	3,659
AHYA048GWAB	2	1,309	1,574	3,319	1,023	4,229
AHYA048GWAC	3	1,309	1,574	2,749	944	3,659
AHYA048GWAD	4	1,309	1,574	3,319	1,046	4,229
AHYA080GWAA	1	1,544	2,074	3,189	1,542	4,099
AHYA080GWAB	2	1,544	2,074	3,839	1,701	4,749
AHYA080GWAC	3	1,544	2,074	3,189	1,570	4,099
AHYA080GWAD	4	1,544	2,074	3,839	1,729	4,749
AHYA096GWAA	1	1,789	2,250	3,189	1,691	4,099
AHYA096GWAB	2	1,789	2,250	3,839	1,869	4,749
AHYA096GWAC	3	1,789	2,250	3,189	1,724	4,099
AHYA096GWAD	4	1,789	2,250	3,839	1,899	4,749

Configurations B



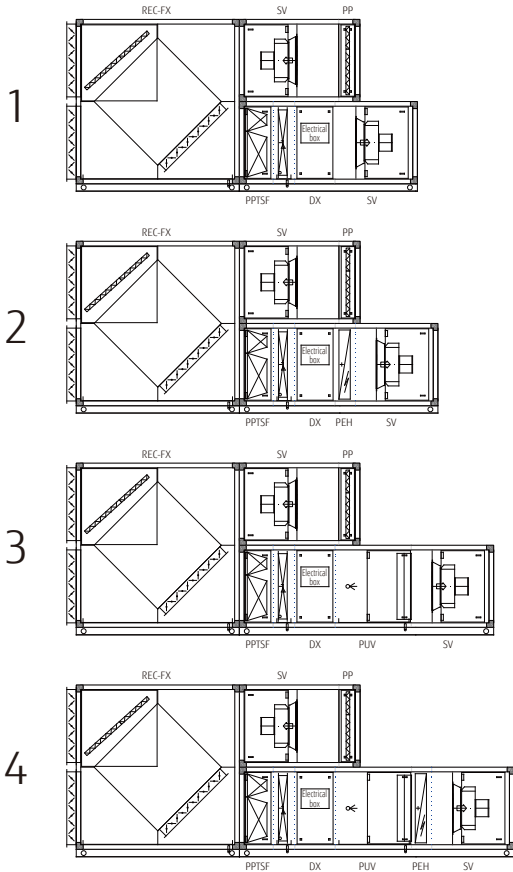
Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYB025GWAA	1	1,179	1,154	2,854	628	3,764
AHYB025GWAB	2	1,179	1,154	3,344	696	4,254
AHYB025GWAC	3	1,179	1,154	2,854	646	3,764
AHYB025GWAD	4	1,179	1,154	3,344	714	4,254
AHYB040GWAA	1	1,314	1,354	3,084	873	3,994
AHYB040GWAB	2	1,314	1,354	3,654	960	4,564
AHYB040GWAC	3	1,314	1,354	3,084	894	3,994
AHYB040GWAD	4	1,314	1,354	3,654	981	4,564
AHYB048GWAA	1	1,424	1,574	3,084	953	3,994
AHYB048GWAB	2	1,424	1,574	3,654	1,055	4,564
AHYB048GWAC	3	1,424	1,574	3,084	976	3,994
AHYB048GWAD	4	1,424	1,574	3,654	1,078	4,564
AHYB080GWAA	1	1,659	2,074	3,624	1,591	4,534
AHYB080GWAB	2	1,659	2,074	4,274	1,749	5,184
AHYB080GWAC	3	1,659	2,074	3,624	1,619	4,534
AHYB080GWAD	4	1,659	2,074	4,274	1,777	5,184
AHYB096GWAA	1	1,904	2,250	3,724	1,760	4,634
AHYB096GWAB	2	1,904	2,250	4,374	1,936	5,284
AHYB096GWAC	3	1,904	2,250	3,724	1,790	4,634
AHYB096GWAD	4	1,904	2,250	4,374	1,966	5,284

Configurations C

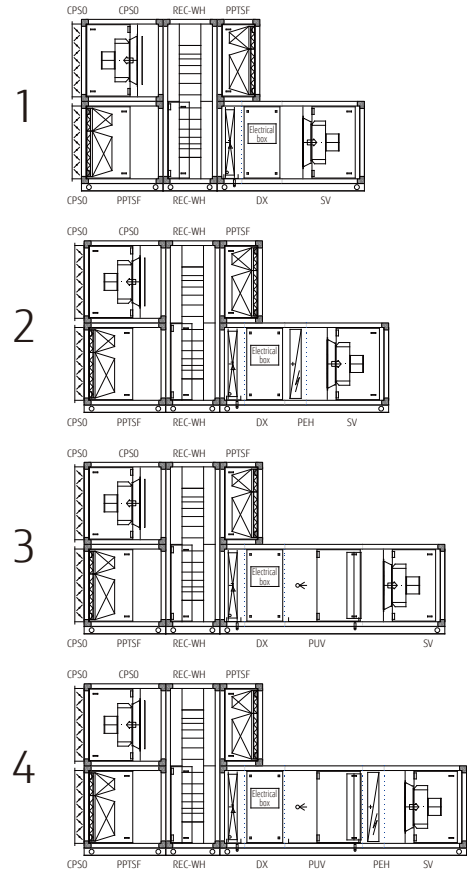


Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYC025GWAA	1	1,179	1,154	2,969	650	3,879
AHYC025GWAB	2	1,179	1,154	3,459	718	4,369
AHYC025GWAC	3	1,179	1,154	2,969	668	3,879
AHYC025GWAD	4	1,179	1,154	3,459	736	4,369
AHYC040GWAA	1	1,314	1,354	3,199	899	4,109
AHYC040GWAB	2	1,314	1,354	3,769	986	4,679
AHYC040GWAC	3	1,314	1,354	3,199	920	4,109
AHYC040GWAD	4	1,314	1,354	3,769	1,007	4,679
AHYC048GWAA	1	1,424	1,574	3,199	980	4,109
AHYC048GWAB	2	1,424	1,574	3,769	1,082	4,679
AHYC048GWAC	3	1,424	1,574	3,199	1,003	4,109
AHYC048GWAD	4	1,424	1,574	3,769	1,105	4,679
AHYC080GWAA	1	1,659	2,074	3,739	1,624	4,649
AHYC080GWAB	2	1,659	2,074	4,389	1,782	5,299
AHYC080GWAC	3	1,659	2,074	3,739	1,652	4,649
AHYC080GWAD	4	1,659	2,074	4,389	1,810	5,299
AHYC096GWAA	1	1,904	2,250	3,839	1,799	4,749
AHYC096GWAB	2	1,904	2,250	4,489	1,975	5,399
AHYC096GWAC	3	1,904	2,250	3,839	1,829	4,749
AHYC096GWAD	4	1,904	2,250	4,489	2,005	5,399

Configurations D



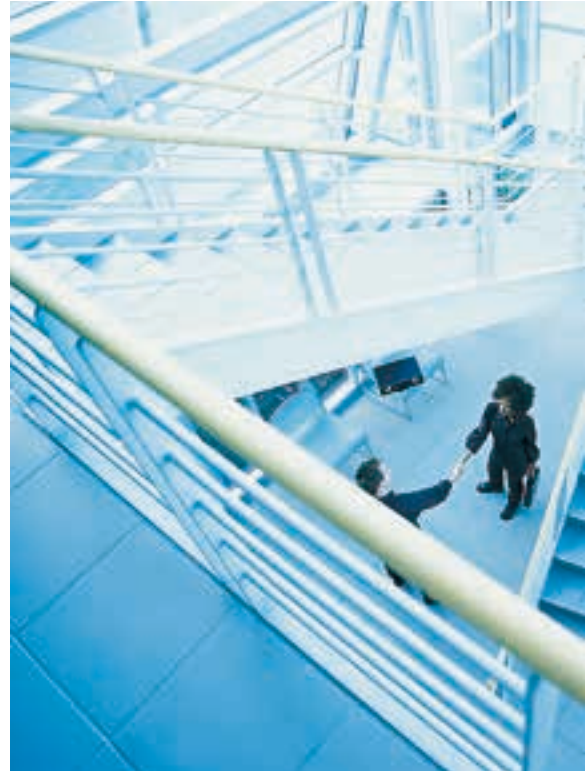
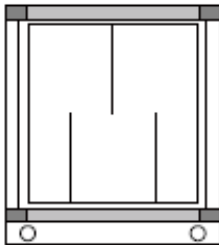
Configurations E



Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYD025GWAA	1	2028/1064	1424/1154	4,311	1,259	5,221
AHYD025GWAB	2	2028/1064	1424/1154	4,801	1,327	5,711
AHYD025GWAC	3	2028/1064	1424/1154	4,311	1,277	5,221
AHYD025GWAD	4	2028/1064	1424/1154	4,801	1,345	5,711
AHYD040GWAA	1	2298/1199	1574/1354	4,871	1,750	5,781
AHYD040GWAB	2	2298/1199	1574/1354	5,441	1,837	6,351
AHYD040GWAC	3	2298/1199	1574/1354	4,871	1,771	5,781
AHYD040GWAD	4	2298/1199	1574/1354	5,441	1,858	6,351
AHYD048GWAA	1	2518/1309	1824/1574	4,871	1,978	5,781
AHYD048GWAB	2	2518/1309	1824/1574	5,348	2,080	6,258
AHYD048GWAC	3	2518/1309	1824/1574	4,778	2,001	5,688
AHYD048GWAD	4	2518/1309	1824/1574	5,348	2,103	6,258
AHYD080GWAA	1	2988/1544	2,074	6,161	3,361	7,071
AHYD080GWAB	2	2988/1544	2,074	6,811	3,520	7,721
AHYD080GWAC	3	2988/1544	2,074	6,161	3,389	7,071
AHYD080GWAD	4	2988/1544	2,074	6,811	3,548	7,721
AHYD096GWAA	1	3478/1789	2,250	6,451	3,849	7,361
AHYD096GWAB	2	3478/1789	2,250	7,008	4,025	7,918
AHYD096GWAC	3	3478/1789	2,250	6,451	3,879	7,268
AHYD096GWAD	4	3478/1789	2,250	7,008	4,055	7,918

Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYE025GWAA	1	2028/1064	1429/1154	3,813	1,150	4,723
AHYE025GWAB	2	2028/1064	1429/1154	4,303	1,226	5,213
AHYE025GWAC	3	2028/1064	1429/1154	3,813	1,168	4,723
AHYE025GWAD	4	2028/1064	1429/1154	4,303	1,244	5,213
AHYE040GWAA	1	2298/1199	1729/1354	4,073	1,571	4,983
AHYE040GWAB	2	2298/1199	1729/1354	4,643	1,658	5,553
AHYE040GWAC	3	2298/1199	1729/1354	4,073	1,592	4,983
AHYE040GWAD	4	2298/1199	1729/1354	4,643	1,679	5,553
AHYE048GWAA	1	2518/1309	1829/1574	4,073	1,696	4,983
AHYE048GWAB	2	2518/1309	1829/1574	4,643	1,798	5,553
AHYE048GWAC	3	2518/1309	1829/1574	4,073	1,719	4,983
AHYE048GWAD	4	2518/1309	1829/1574	4,643	1,821	5,553
AHYE080GWAA	1	2988/1544	2374/2074	4,953	2,753	5,863
AHYE080GWAB	2	2988/1544	2374/2074	5,603	2,912	6,513
AHYE080GWAC	3	2988/1544	2374/2074	4,953	2,781	5,863
AHYE080GWAD	4	2988/1544	2374/2074	5,603	2,940	6,513
AHYE096GWAA	1	3478/1789	2582/2250	4,953	3,035	5,863
AHYE096GWAB	2	3478/1789	2582/2250	5,603	3,211	6,513
AHYE096GWAC	3	3478/1789	2582/2250	4,953	3,065	5,863
AHYE096GWAD	4	3478/1789	2582/2250	5,603	3,241	6,513

Silencer PI



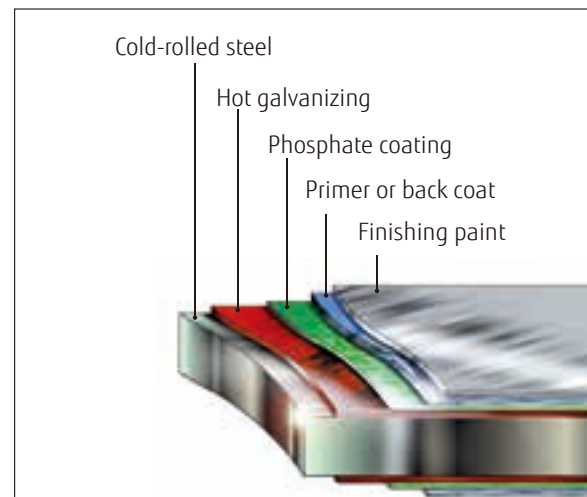
Loose Accessories

Galvanized metal sheet roof

Units that are installed outdoors or that are frequently exposed to the weather can be fitted with a hot galvanized steel roof (with a galvanization of 140 g/m² or higher) as an accessory element.

The roof overhang relative to the outer length of the unit is about 100 mm. All roof corners are equipped with protectors to prevent accidents.

Connectable AHU model name	H (mm)	W (mm)	L (mm)	Kg
AHY* 025GWA*	1064	1154	910	209
AHY* 040GWA*	1199	1354	910	233
AHY* 048GWA*	1309	1574	910	274
AHY* 080GWA*	1544	2074	910	280
AHY* 096GWA*	1789	2250	910	444



Total Pressure Drop Calculation

Air handling units (AHUs) controlled by EC inverter Plug Fans meet a high range of required airflows and static pressures.

The EC Inverter Plug-Fans allow the user to set various working conditions to meet the needs of the unit directly on site from the control panel on the Electrical Board section. If the wind is weaker than expected, for example, the operating conditions can be changed and adjusted with ease.

Selection procedure

- Select the most suitable AHU model according to the airflow rate.
- Based on the required airflow and overall static pressure value, identify the operating point of the airflow static pressure on the curve for the selected fan.

To calculate the overall static pressure value, refer to the component pressure drop table and add the net static pressure required for the plant.

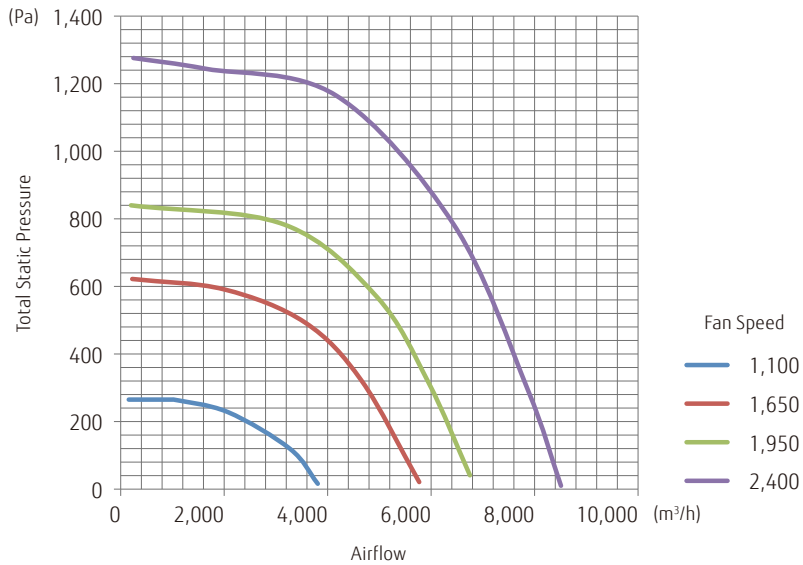


Component pressure drop table

ODU	AHU SIZE	MIN. NOM. MAX.	Airflow	Inlet damper (Config. A-E)	Inlet damper (Config. B-C)	COARSE 55% filters - supply	ePM1 50% filters	DX coil	Silencer	PHE + dampers + COARSE 55% filters - supply	PHE + damper - exhaust	COARSE 55% filters - exhaust (Config. D)	Heat wheel - supply	COARSE 55% filters - supply (Config. E)	ePM1 50% filters (Config. E)	Heat wheel - exhaust	COARSE 55% filters - exhaust (Config. E)	Exhaust damper (Config. E)	Humidifier	Electrical heater
			m³/h	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa	Pa
10HP	025	MIN.	4,300	1	12	91	156	55	26	206	120	91	162	93	144	159	84	7	-	-
		NOM.	4,500	1	13	98	158	59	28	210	122	95	167	93	146	165	95	8	-	-
		MAX.	5,000	2	16	99	164	71	36	235	147	96	187	95	150	185	96	10	-	-
14 HP	040	MIN.	5,000	1	4	91	138	37	4	154	70	91	116	89	135	114	91	4	-	-
		NOM.	7,200	2	13	87	149	68	10	240	145	87	172	93	144	169	94	8	-	-
		MAX.	8,000	2	16	96	153	82	12	243	165	96	193	94	147	190	96	9	-	-
18 HP	048	MIN.	8,100	1	12	96	153	50	10	225	139	92	167	94	147	165	92	9	-	-
		NOM.	8,600	1	13	97	156	55	11	241	155	93	178	95	149	176	93	10	-	-
		MAX.	9,100	2	15	98	159	60	13	257	171	93	189	95	152	187	93	11	-	-
2X 14 HP	080	MIN.	11,000	1	8	91	140	30	9	148	62	90	121	90	137	119	90	6	-	-
		NOM.	14,500	2	14	94	148	47	16	188	101	93	163	93	143	161	93	10	-	-
		MAX.	16,100	2	17	96	153	56	19	209	122	94	183	94	147	180	94	13	-	-
2X 18 HP	096	MIN.	16,000	1	10	96	152	37	16	157	74	91	146	92	142	144	91	10	-	-
		NOM.	17,300	1	11	97	156	42	19	168	86	92	159	93	145	157	92	11	-	-
		MAX.	18,100	1	13	98	158	46	21	175	93	92	167	93	146	165	92	13	-	-

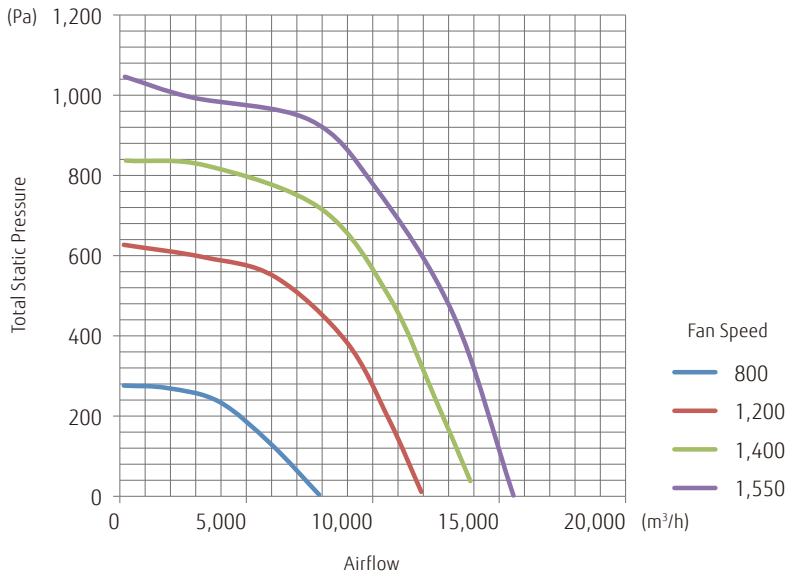
Fan characteristic curves

Fan type 400 mm



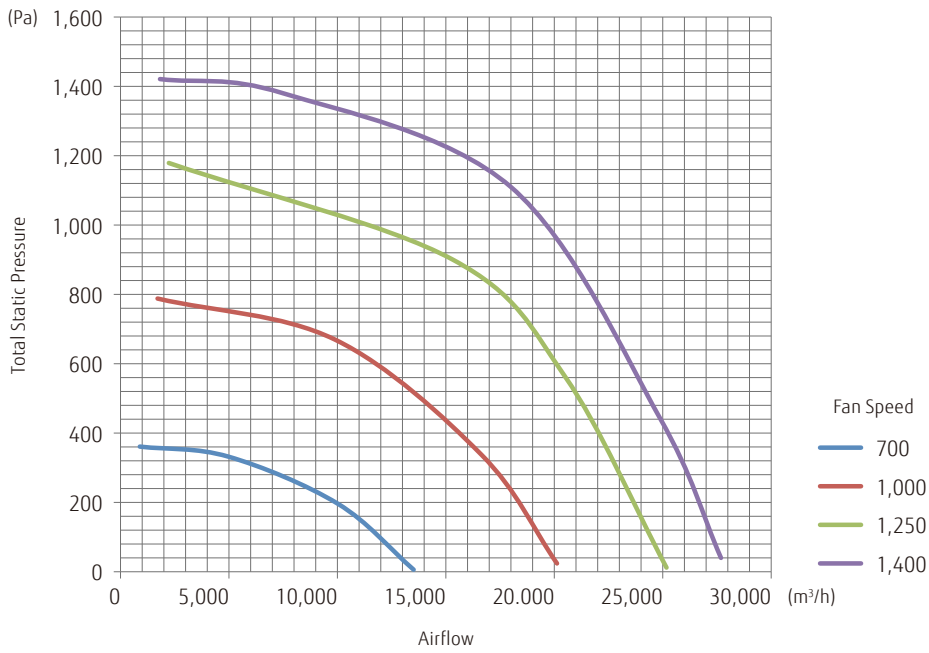
Air flow Rate	Total static pressure	Input power	Fan speed (n)	LwAin	LwAout
m³/h	Pa	W	rpm	dB	dB
156	265	124	1100	63	71
334	265	134	1100	63	70
1002	265	187	1100	62	69
1025	265	181	1100	62	69
2072	228	234	1100	58	66
3275	119	224	1100	62	69
3809	16	173	1100	69	74
223	622	352	1650	75	82
2005	591	642	1650	72	79
3564	493	767	1650	68	75
4656	321	708	1650	71	77
5770	21	487	1650	79	83
200	840	509	1950	79	86
3163	783	1154	1950	74	81
4946	570	1223	1950	74	80
5948	316	1027	1950	78	83
6750	41	773	1950	83	87
245	1276	921	2400	85	92
1649	1244	1497	2400	86	92
4163	1165	2223	2400	81	87
6438	783	2237	2400	81	87
7864	296	1738	2400	86	91
8510	10	1389	2392	89	93

Fan type 560 mm



Air flow Rate	Total static pressure	Input power	Fan speed (n)	LwAin	LwAout
m³/h	Pa	W	rpm	dB	dB
158	276	209	800	65	72
1861	270	345	800	65	71
3921	236	438	800	61	67
5980	130	452	800	62	67
7881	4	313	800	69	74
158	627	591	1200	77	83
3327	596	1164	1200	75	82
6139	547	1471	1200	71	77
8950	386	1473	1200	72	78
10653	190	1212	1200	76	82
11921	11	936	1200	80	85
238	837	901	1400	80	87
3446	824	1743	1400	80	87
8000	715	2403	1400	75	81
10693	493	2260	1400	76	82
12475	243	1859	1400	80	86
13861	38	1521	1400	85	89
198	1046	1210	1550	84	90
2812	995	2086	1550	84	91
7485	939	3131	1550	78	84
10059	774	3249	1550	77	84
13188	453	2901	1550	82	88
15564	2	1948	1550	91	94

Fan type 710 mm



Air flow Rate	Total static pressure	Input power	Fan speed (n)	LwAin	LwAout
m³/h	Pa	W	rpm	dB	dB
891	361	744	700	71	77
4975	332	1290	700	69	74
10025	196	1427	700	69	75
13515	6	880	700	77	83
1708	788	1693	1000	81	88
9876	670	3179	1000	77	83
16634	338	3084	1000	80	86
20124	24	2177	1000	87	93
2228	1179	3015	1250	87	94
15297	901	6054	1250	83	89
20495	563	5794	1250	86	92
25173	12	3857	1250	92	98
1821	1421	3716	1400	89	96
7500	1380	5851	1400	89	95
17996	1110	8301	1400	86	92
24855	445	6916	1400	91	98
27685	40	5271	1400	95	101

Specifications

Configuration A-B-C

Model FG		025	040	048	080	096
Model name		AHYA025GWA* AHYB025GWA* AHYC025GWA*	AHYA040GWA* AHYB040GWA* AHYC040GWA*	AHYA048GWA* AHYB048GWA* AHYC048GWA*	AHYA080GWA* AHYB080GWA* AHYC080GWA*	AHYA096GWA* AHYB096GWA* AHYC096GWA*
Casing						
Material		Outer skin: 0.6 mm thick pre-painted galvanized sheet; Inner skin: 0.6 mm thick galvanized sheet				
Insulation		Polyurethane foam, 50 mm thick, 45 kg/m ³				
Performance						
Cooling capacity	kW	25	40	48	78	96
Heating capacity	kW	31.5	45	50	81.5	100
Available static pressure	Pa	200	200	200	200	200
Power supply	V/Ph/Hz	400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
Airflow						
Max.	m ³ /h	5000	8000	9100	16100	18100
Rated	m ³ /h	4500	7200	8600	14500	17300
Min.	m ³ /h	4300	5000	8100	11000	16000
Cross-flow heat recovery						
Efficiency (*)	%	—	—	—	—	—
DX Coil						
Rows	n°	4				
Coil type		25 × 22 - 3/8"				
Coil duty		Cooling/Heating				
Fluid		R410A				
Pipe material		Copper				
Fin material		Aluminum				
Electrical heating						
Stages	n°	3				
Heating capacity	kW	9	15	18	30	36
Humidifier						
Fix steam capacity	kg/h	15	25	30	45	60
Fan						
Type		EC inverter Plug Fan				
Motor data	mm	400	560	560	710	710
	kW	2.4	3.4	3.4	7.3	7.3
Thermal transmittance of casing (TT) class						
		T3	T3	T3	T3	T3
Thermal bridging factor (TBF) class						
		TB3	TB3	TB3	TB3	TB3
Casing strength (CS) class						
		D2 (M)	D2 (M)	D2 (M)	D2 (M)	D2 (M)
Casing air leakage (CAL) class@-400Pa						
		L2 (M)	L2 (M)	L2 (M)	L2 (M)	L2 (M)
Casing air leakage (CAL) class@+700 Pa						
		> L3 (M)	> L3 (M)	> L3 (M)	> L3 (M)	> L3 (M)
Filter bypass leakage (FBL) class						
		F9 (M)	F9 (M)	F9 (M)	F9 (M)	F9 (M)

(*) at rated airflow

Model FG	
Model name	
Casing	
Material	
Insulation	
Performance	
Cooling capacity	kW
Heating capacity	kW
Available static pressure	Pa
Power supply	V/Ph/Hz
Airflow	
Max.	m ³ /h
Rated	m ³ /h
Min.	m ³ /h
Heat recovery	
Efficiency (*)	%
DX Coil	
Rows	n°
Coil type	
Coil duty	
Fluid	
Pipe material	
Fin material	
Electrical heating	
Stages	n°
Heating capacity	kW
Humidifier	
Fan	
Type	
Motor data	mm
	kW
Thermal transmittance of casing (TT) class	
Thermal bridging factor (TBF) class	
Casing strength (CS) class	
Casing air leakage (CAL) class@-400Pa	
Casing air leakage (CAL) class@+700 Pa	
Filter bypass leakage (FBL) class	

Configuration D

025	040	048	080	096
AHYD025GWA*	AHYD040GWA*	AHYD048GWA*	AHYD080GWA*	AHYD096GWA*
Outer skin: 0.6 mm thick pre-painted galvanized sheet; Inner skin: 0.6 mm thick galvanized sheet				
Polyurethane foam, 50 mm thick, 45 kg/m ³				
25	40	48	78	96
31.5	45	50	81.5	100
200	200	200	200	200
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
5000	8000	9100	16100	18100
4500	7200	8600	14500	17300
4300	5000	8100	11000	16000
73.3	74.4	74.2	73.7	73.6
4				
25 × 22 - 3/8"				
Cooling/Heating				
R410A				
Copper				
Aluminum				
3				
9	15	18	30	36
15	25	30	45	60
EC inverter Plug Fan				
2.4	3.4	3.4	7.3	7.3
T3	T3	T3	T3	T3
TB3	TB3	TB3	TB3	TB3
D2 (M)	D2 (M)	D2 (M)	D2 (M)	D2 (M)
L2 (M)	L2 (M)	L2 (M)	L2 (M)	L2 (M)
> L3 (M)	> L3 (M)	> L3 (M)	> L3 (M)	> L3 (M)
F9 (M)	F9 (M)	F9 (M)	F9 (M)	F9 (M)

Configuration E

025	040	048	080	096
AHYE025GWA*	AHYE040GWA*	AHYE048GWA*	AHYE080GWA*	AHYE096GWA*
Outer skin: 0.6 mm thick pre-painted galvanized sheet; Inner skin: 0.6 mm thick galvanized sheet				
Polyurethane foam, 50 mm thick, 45 kg/m ³				
25	40	48	78	96
31.5	45	50	81.5	100
200	200	200	200	200
400/3/50	400/3/50	400/3/50	400/3/50	400/3/50
5000	8000	9100	16100	18100
4500	7200	8600	14500	17300
4300	5000	8100	11000	16000
75.6	74.7	74.2	75.3	75.6
4				
25 × 22 - 3/8"				
Cooling/Heating				
R410A				
Copper				
Aluminum				
3				
9	15	18	30	36
15	25	30	45	60
EC inverter Plug Fan				
2.4	3.4	3.4	7.3	7.3
T3	T3	T3	T3	T3
TB3	TB3	TB3	TB3	TB3
D2 (M)	D2 (M)	D2 (M)	D2 (M)	D2 (M)
L2 (M)	L2 (M)	L2 (M)	L2 (M)	L2 (M)
> L3 (M)	> L3 (M)	> L3 (M)	> L3 (M)	> L3 (M)
F9 (M)	F9 (M)	F9 (M)	F9 (M)	F9 (M)

(*) at rated airflow

Control system

AHU units include a built-in electrical panel and expansion valve with control PCB. Setpoint is fixed via standard wired control. The cooling load is determined by the air return temperature and the setpoint of the wired control.

AHU Controller

UTY-TXUX



Features

- Easy to install. Control connects to AHU PLC.
- Controls can be installed after the building is decorated.
- Mode lock function: Allows users to lock the operating mode of the AHU.

Easy operation

This remote controller provides an intuitive user interface with a touch screen display.

Functions

- Schedule setting change
- Set temperature and humidity
- Ambient name
- Alarm setting
- Event setting

Specifications

Model name		UTY-TXUX
Format	mm	120 × 86 × 25
Screen resolution		Display touch color 3.5" 320 × 240
Power supply		24 V AC - 24 V AC/DC
Analogue inputs		1 × Integrated NTC
Connectivity		RS485 - MODBUS® SL, USB Micro-B (debug and programming)
Operating temperature		0 – +50 °C

System controller

UTY-APGXZ1 Software

Features

System controller enables advanced integrated monitoring and control of VRF network systems operating in small to large buildings.

- System controller controls up to 4 VRF network systems, 1,600 indoor units, and 400 outdoor units.
- To accommodate facility management needs, the system controller offers—in addition to precise air conditioning control—remote central control, electricity charge apportionment, schedule management, and energy-saving options for VRF network systems.

Max. Controllable

4 VRF network systems

Max. Controllable

400 outdoor units

Max. Controllable

1,600 indoor units



System controller Lite

UTY-ALGXZ1 + UTY-PLGXX2 Software

Features

System controller Lite offers a set of standard functions to manage air conditioners operating in a small or midsize building.

- System controller Lite controls up to 1 VRF network system, 400 indoor units, and 100 outdoor units.
- In addition to precise air conditioning control, a variety of management-specific applications are available as options, enabling a wider range of control.

Max. Controllable

1 VRF network systems

Max. Controllable

100 outdoor units

Max. Controllable

400 indoor units



Centralized control is also possible to stop the operation of not only air conditioners, but also lighting and ventilation equipment. These features are useful for managing the energy efficiency of the entire building.



Summary of functions

Function	Type	System controller		System controller Lite					
		UTY-APGXZ1	Option UTY-PEGXZ1	UTY-ALGXZ1	Option UTY-PLGXR2	Option UTY-PLGXA2	Option UTY-PLGXE2	Option UTY-PLGXX2	
System specification	Max. number of VRF networks supported	4	—	1	—	—	—	—	
	Max. number of indoor unit and remote controller groups per VRF network	400	—	400	—	—	—	—	
	Max. number of outdoor units per VRF network	100	—	100	—	—	—	—	
	Max. number of indoor units and remote controller groups per system controller	1600	—	400	—	—	—	—	
Site supervision	Max. number of outdoor units per system controller	400	—	100	—	—	—	—	
	Multiple site display	10	—	10	—	—	—	—	
	Number of buildings per site	20	—	—	—	—	—	—	
	Number of floors per site	200	—	—	—	—	—	—	
	Number of floors per building	50	—	—	—	—	—	—	
	3D graphical layout view	●	—	—	—	—	—	—	
	2D graphical layout view	●	—	—	—	—	—	—	
	List display	●	—	●	—	—	—	—	
Error management	Tree display	●	—	●	—	—	—	—	
	Group display	●	—	●	—	—	—	—	
	Error notification	●	—	●	—	—	—	—	
History	Audible alarm	●	—	●	—	—	—	—	
	E-mail notification of errors	●	—	●	—	—	—	—	
	Error history	●	—	●	—	—	—	—	
Operation control	Operation history	●	—	●	—	—	—	—	
	Control history	●	—	●	—	—	—	—	
	Individual control	On/Off	●	—	●	—	—	—	—
		Operation mode*	●	—	●	—	—	—	—
		Room temperature	●	—	●	—	—	—	—
		Fan speed	●	—	●	—	—	—	—
		Airflow direction	●	—	●	—	—	—	—
		Economy mode	●	—	●	—	—	—	—
		Setting temperature range limitation	●	—	●	—	—	—	—
	Anti-freeze	●	—	●	—	—	—	—	
Individual management	Low noise setting of outdoor units	●	—	●	—	—	—	—	
	Setting remote control prohibition	●	—	●	—	—	—	—	
	Setting temperature range limitation	●	—	●	—	—	—	—	
Other	Filter sign reset	●	—	●	—	—	—	—	
	Memory operations	●	—	●	—	—	—	—	
Schedule	Pattern operations	●	—	●	—	—	—	—	
	Annual Schedule	●	—	●	—	—	—	—	
	Setting for a specific date	●	—	●	—	—	—	—	
	On/Off per day	72	—	72	—	—	—	—	
	On/Off per week	504	—	504	—	—	—	—	
	Day off	●	—	●	—	—	—	—	
	Minimum unit of timer setting (minutes)	10	—	10	—	—	—	—	
Remote management	Weekly schedule for low noise mode	●	—	●	—	—	—	—	
	Web operation	●	—	●	—	—	—	—	
	Remote monitoring	●	—	—	●	—	—	—	
Electricity charge apportionment	Remote operation control	●	—	—	●	—	—	—	
	Remote function setting	●	—	—	●	—	—	—	
	Apportionment charge/bill calculation	●	—	—	—	●	—	—	
	Tenant (block) setting	●	—	—	—	●	—	—	
	Common facilities apportionment setting	●	—	—	—	●	—	—	
Energy saving management	Rated power consumption allotment setting	●	—	—	—	●	—	—	
	Individual calculations for cooling and heating	—	●	—	—	●	—	—	
	Electricity meter supported	—	●	—	—	●	—	—	
	Indoor unit rotation	—	●	—	—	—	●	—	
	Peak cut control	—	●	—	—	—	●	—	
	Capacity saving for outdoor unit	—	●	—	—	—	●	—	
Control of external devices	Record of energy saving operation	—	●	—	—	—	●	—	
	Information on energy saving	—	●	—	—	—	●	—	
	Power consumption monitor	—	●	—	—	—	●	—	
Others	Electricity meter supported	—	●	—	—	—	●	—	
	Monitor	●	—	—	—	—	—	●	
	Control	●	—	—	—	—	—	●	
	Importing and exporting databases	●	—	●	—	—	—	—	
	Automatic clock adjustment	●	—	●	—	—	—	—	
Others	Multiple language support	7 languages	—	7 languages	—	—	—	—	
	Refrigerant leak detection function	●	—	●	—	—	—	—	
	Power shutdown	●	—	●	—	—	—	—	

●●: Available. -: Not available.

Computer requirements

The specifications required for the Computer are shown in the table below:

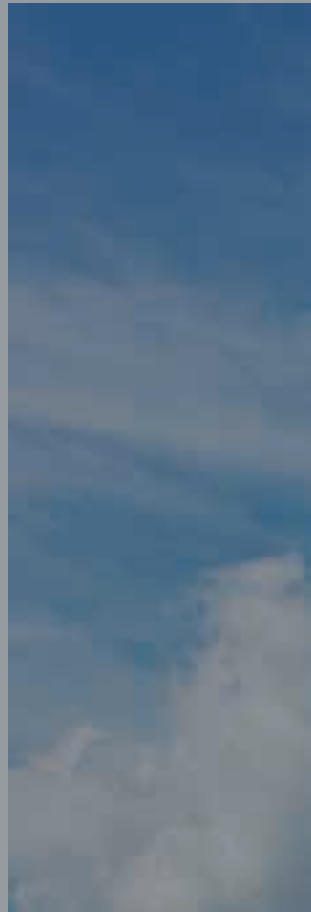
	System controller	System controller Lite
Operating system	<ul style="list-style-type: none"> • Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) Supported languages: English, Chinese, French, German, Russian, Spanish, and Polish	
CPU	Intel® 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	
Screen resolution	1024 × 768 or higher	
Interface	<ul style="list-style-type: none"> • Ethernet port (for getting access to the internet using LAN) or a modem (for getting access to the internet using a landline) • Up to 6 USB ports (Only required for a server Computer working as a VRF controller) -Maximum of 2 USB ports are required to connect to a White-USB-key/ WibuKey -Up to 4 USB ports required to connect to a Echelon® U10 USB network interface * Maximum number of required USB ports depends on the applicable system configuration. 	<ul style="list-style-type: none"> • Ethernet port (for getting access to the internet using LAN) or a modem (for getting access to the internet using a landline) • Up to 6 USB ports (Only required for a server Computer working as a VRF controller) -Maximum of 4 USB ports are required to connect to a White-USB-key/ WibuKey -1 USB port is required for an Echelon® U10 USB Network Interface * The maximum number of required USB ports depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	
Software	Adobe® Acrobat Reader® 9.0 or later	

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

Packing List

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

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



Light Commercial & Commercial, Residential

CONTROL SYSTEM & OPTIONAL PARTS

- C-002 Control System Overview
- C-006 Best Control Solution for Each Building Structure
- C-008 Comparison Table of Controllers
- C-056 Optional Parts Overview



A 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 converters that link with other systems.

CONTROL SYSTEM

INDIVIDUAL CONTROL

- C-010 Wired Remote Controller (with touch panel)
- C-012 Wired Remote Controller / Compact Wired Remote Controller
- C-013 Wired Remote Controller
- C-014 Simple Remote Controller
- C-015 Wireless Remote Controller
- C-016 IR Receiver Unit

CONVERTERS/ADAPTERS

- C-018 WLAN Adapter
- C-022 Multi-split Protocol WLAN Adapter

CENTRALIZED CONTROL

- C-023 Home Central Remote Controller
- C-024 Central Remote Controller
- C-026 Touch Panel Controller
- C-030 System Controller **Software** / System controller Lite **Software**

CONVERTERS/ADAPTERS

- C-034 MODBUS® Converter for Indoor unit
- C-035 MODBUS® Interface
- C-036 MODBUS® Converter for VRF
- C-037 BACnet® interface
- C-038 BACnet® Gateway **Software**
- C-039 BACnet® Gateway **Hardware**
- C-040 BACnet®/MODBUS® Router
- C-041 BACnet®/MODBUS® Cloud Device
- C-042 KNX® converter for Indoor unit / KNX® converter for VRF
- C-043 KNX® Interface
- C-044 Network Converter for Single-Split Type
- C-045 Network Converter for LONWORKS™
- C-046 External switch controller / Signal Amplifier

Optional parts

- C-048 Control System List
- C-058 Silver Ion Filter
- C-059 Auto Louver Grille Kit
- C-060 Pressure Sensor Kit
- C-061 External Power Supply Unit
AIR BEAM Radiation air outlet unit
- C-062 Optional Parts List
- C-066 Function List
- C-070 Separation Tube and other piping products



SPLIT



MULTI-SPLIT



VRF J Series



VRF V Series

Control System Overview

for Split & Multi-split

All indoor units* are equipped with a wireless or wired remote controller as standard. Additional options are available, such as individual remote controllers and central remote controllers. 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

A built-in thermo sensor monitors and controls room temperature accurately.



Wireless remote controller

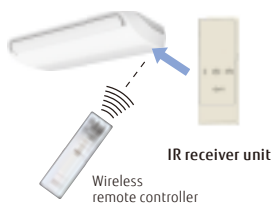
Simple and versatile operations with a choice of 4 different types of timers



Simple remote controller

Compact remote controller with basic functionality

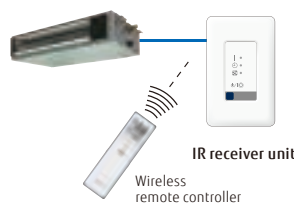
For Ceiling type



IR receiver unit

Wireless remote controller

For Duct type



IR receiver unit

Wireless remote controller

For Cassette type



IR receiver unit

This IR receiver unit enables a wireless remote controller to control a duct-type indoor unit.



Air Conditioning Centralized control



Home central remote controller for 5 & 6-unit Multi-split type
Enables individual and central control.



Converters/Adapters

For external control via BMS/Home Automation Systems

MODBUS® converter
for indoor units
UTY-VMSX



MODBUS® interface
for indoor units



KNX® converter
for indoor units
UTY-VKSX



KNX® interface
for indoor units



WLAN adapter



Network converter

DC power supply type
UTY-VTGX



AC power supply type
UTY-VTGXV



Online Control (Wireless Control via Smartphone/Tablet)

With the WLAN adapter and the AIRSTAGE Mobile app, you can control the heating and cooling of your home anytime, anywhere.

WLAN adapter

The dedicated WLAN adapter enables the air conditioner to be operated by smartphone or tablet computer.



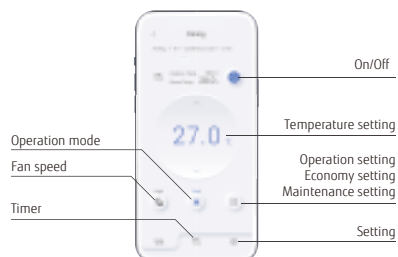
AIRSTAGE Mobile

Download Free



Simple, user-friendly interface design

The designed screen display makes it easier than ever to operate.



Control System Overview

for VRF

To meet the diverse needs of customers, we offer a variety of control options for our VRF systems, such as individual control, centralized control, and building management system (BMS) options.

Air Conditioning Individual control



Wired remote controller (with touch pane)
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



For Duct type



For One-way flow cassette Series/3D-flow cassette Series/duct type



For Cassette type



for Circular flow cassette Series

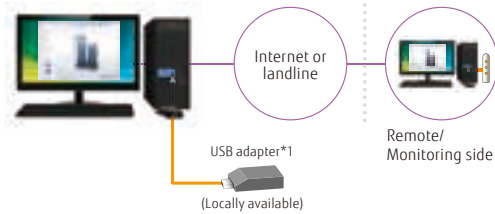
IR receiver unit

UTB-YWC for duct type

UTY-TRHX for One-way flow cassette Series/3D flow cassette Series/duct type

UTY-LRHYB1 for cassette type
UTY-LBHXD for Circular flow cassette Series

Air Conditioning Centralized control



System controller **Software**
UTY-APGXZ1/UTY-ALGXZ1 (Lite version)

Up to **1600**^{*2}
Indoor units

*1: Echelon® U10 USB Network Interface
*2: The Lite version controls up to 400 indoor units.



Touch panel controller
UTY-DTGYZ1

Remote/
Monitoring side

Up to **400**
Indoor units



Central remote controller
UTY-DCGYZ2

Up to **100**
Indoor units



Converters/Adapters

For external control via BMS/Home Automation Systems

BACnet® gateway
UTY-ABGXZ1 **Software**



VTY-VBGX **Hardware**



BACnet® interface
for Indoor units
FG-IR-BMG1Z1



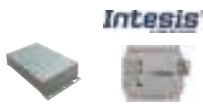
Network converter
(For LONWORKS™)
UTY-VLGX



MODBUS® converter
for Indoor units
UTY-VMSX



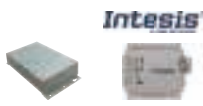
for VRF
UTY-VMGX



KNX® converter
for Indoor units
UTY-VKSX



for VRF
UTY-VKGX



WLAN adapter
UTY-TFSXJ3 / UTY-TFSXZ1



External switch controller
UTY-TERX



Card-key
(Locally available)



Internet device



BMS/BAS^{*3}



BMS^{*3}, Home automation system



*3: BMS/BAS: Building Management System/Building Automation System

Converters/Adapters

for system expansion

Network converter
DC power supply type
UTY-VTGX



Network converter
AC power supply type
UTY-VTGXV










Signal amplifier
UTY-VSGXZ1














Best control solution for each building structure

Fujitsu General provides the best control solutions suitable for various building structures.












SHOP

Type	Individual control			Centralized control			Integrating control (Interface)			
										
	Wired remote controller	Central remote controller	Touch panel controller	System controller	Network converter for LONWORKS™	MODBUS® Converter	KNX® converter			
	UTY-RNRYZ5 UTY-RLRY UTY-RVNYM UTY-RCRYZ1	UTY-DCGYZ2	UTY-DTGYZ1	UTY-APGXZ1 UTY-ALGXZ1	UTY-VLGX	UTY-VMGX	UTY-VKGX			
Automatic control of air conditioning (Schedule timer, Weekly timer, etc.)	•	•	•	•						
Controls limited to staff: Remote controller prohibition, Setting temperature range limitation, etc.		•	•	•	•	•	•			•
Group control		•	•	•						
Advanced energy saving: Peak cut, Operation of indoor unit rotation, etc.				•						
Remote monitoring management		•	•	•						
Manage multiple sites		•	•	•						
Monitor energy consumption				•						
Control third-party products				•						
Integrate Fujitsu General air conditioning 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® converter	KNX® converter	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 guests	•	•	•								
Centralized air conditioning control for common areas				•	•	•	•	•	•	•	
Limited control for hotel guests				•	•	•	•	•	•	•	
Remote monitoring management				•	•	•					
Advanced energy saving: Peak cut, Operation of indoor unit rotation, etc.						•	•				
Monitor energy consumption						•					
Control third-party products						•					
Integrate Fujitsu General air conditioning into BMS							•	•	•	•	
Interlock with window contact											•
Interlock with key card											•

OFFICE

Type	Individual control			Centralized control			Integrating control (Interface)				
											
	UTY-RNRVZ5 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 air conditioning (Schedule timer, Weekly timer, etc.)	●		●	●	●	●	●				
Centralized air conditioning control for management				●	●	●	●	●	●	●	
Controls limited to staff: Remote controller prohibition, Setting temperature range limitation, etc.				●	●	●	●	●	●	●	
Advanced energy saving: Peak cut, Operation of indoor unit rotation, etc.						●	●				
Remote monitoring management				●	●	●					
Electricity charge apportionment					●	●	●				
Monitor energy consumption						●					
Control third-party products						●					
Integrate Fujitsu General air conditioning into BMS							●	●	●	●	
Interlock with door contact											●
Interlock with Occupancy sensor for meeting room				●							●

Comparison table of controllers

Item							
	Wired remote controller (with touch panel)	Wired remote controller	Wired remote controller	Compact wired remote controller	Simple remote controller	Simple Remote Controller	
Model name	UTY-RNRVZ5	UTY-RLRY	UTY-RVNYM	UTY-RCRYZ1	UTY-RSNYM	UTY-RSRY	
Maximum number of controllable remote controller groups	1	1	1	1	1	1	
Maximum number of controllable indoor units	16	16	16	1	16	16	
Maximum number of controllable groups	—	—	—	—	—	—	
Air conditioning control functions	ON/OFF	●	●	●	●	●	
	Operation mode setting	●	●	●	●	●	
	Fan speed control	●	●	●	●	●	
	Room temperature setting	●	●	●	●	●	
	Setting temperature range limitation	●	●	●	—	—	●
	Test operation	●	●	●	●	●	●
	Vertical louver setting	●	●	●	●	—	●
	Horizontal louver setting	●	●	●	●	—	—
	Individual louver control	●	—	—	●	—	—
	Group setting	—	—	—	—	—	—
	Remote controller prohibition	—	—	—	—	—	—
	Anti-freeze setting	●	—	—	●	—	—
	Set temperature auto return	●	●	●	—	—	—
	Economy mode setting	●	●	●	●	—	—
	Occupancy sensor control	●	—	—	—	—	—
	Displayed items	Error	●	●	●	●	●
Defrosting		●	●	●	●	●	
Current time		●	●	●	—	—	
Day of week		●	●	●	—	—	
Remote controller prohibition		●	●	●	●	●	
Address display		●	●	●	●	●	
Room temperature		●	—	●	●	—	●
Multiple language support		●	—	●	—	—	—
Setting for daylight saving time		●	—	●	—	—	—
Name registration		●	—	—	—	—	—
Backlighting		●	—	●	●	●	●
2D floor layout/3D building display		—	—	—	—	—	—
Refrigerant leak detector		—	—	—	—	—	—
Timer		Schedule timer	Period	Week	Week	Week	—
	ON/OFF, Temp, Mode, Times per day		8	4	8	—	—
	ON/OFF timer	●	●	●	● (OFF only)	—	—
	Sleep timer	—	—	—	—	—	—
	Program timer	—	—	—	—	—	—
	Auto-off timer	●	●	●	—	—	—
	Day off	●	●	●	—	—	—
Minimum unit of timer setting (minutes)	10 • 30	30	30	—	—	—	
Control	Remote monitoring management system	—	—	—	—	—	
	Electricity charge apportionment	—	—	—	—	—	
	Error history	●	●	●	—	—	
	Emergency stop	—	—	—	—	—	
	Remote monitoring management	—	—	—	—	—	
	Energy-saving management	—	—	—	—	—	
	E-mail notification in case of failure	—	—	—	—	—	
	Key lock	● Child lock	● Child lock	● Child lock	—	—	—
	Low noise mode	—	—	—	—	—	—

Wired remote controller (with touch panel)

UTY-RNRYZ5



Up to
16 indoor units
Up to
1 group

Easy operation due to large high-resolution STN-LCD touch panel screen

- Touch screen LCD
- Built-in daily/weekly timer (ON/OFF, temperature, modes)
- Backlit screen for easy operation in the dark.
- Room temperature display
- Controls up to 16 indoor units
- Supports 12 languages: Chinese, Dutch, English, French, German, Greek, Italian, Polish, Portuguese, Russian, Spanish, and Turkish
- Nonpolar 2-core type

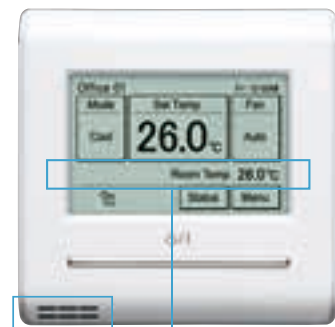
High performance and compact size

A single remote controller controls each connected indoor unit and provides a weekly timer function and a variety of energy-saving options.



Accurate control for comfort

A thermo sensor built into the remote controller monitors room temperature accurately.



Room temperature display
Room temperature sensor

Energy saving controls

Custom Auto

- Maintains 2 separate setpoints for heating and cooling operations.
- Automatically switches between heating and cooling modes.

* Not available for some models

Auto-off timer

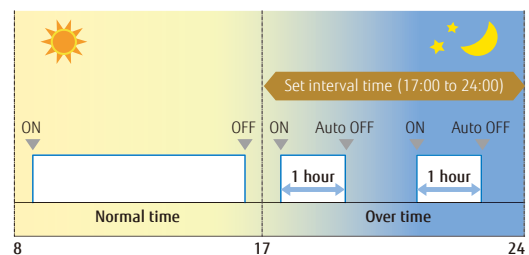
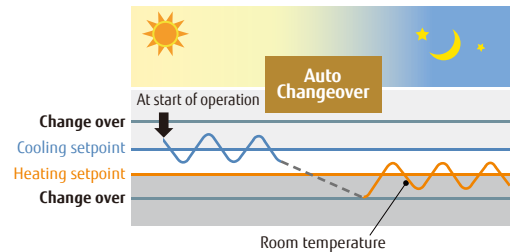
- While the Auto-off timer is activated, if the set off time is specified as, for example, one hour, the power will automatically turn off one hour after the start of operation.
- A desired time frame can be specified for the Auto-off timer.
- The off-time can be set from 30 to 240 minutes.

2-setting weekly timer

Set temperature auto return

Setting temperature range limitation

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



e.g.) Between 17:00 and 24:00 (over time hours), when the 1 hour set off time has elapsed, the system will automatically turn off the indoor unit as it

Features: Wired Remote Controller (Touch Panel)

Refrigerant cycle monitor (Option)

Wired Remote Controller (Touch Panel) will support to display some sensor values for maintenance and service support.

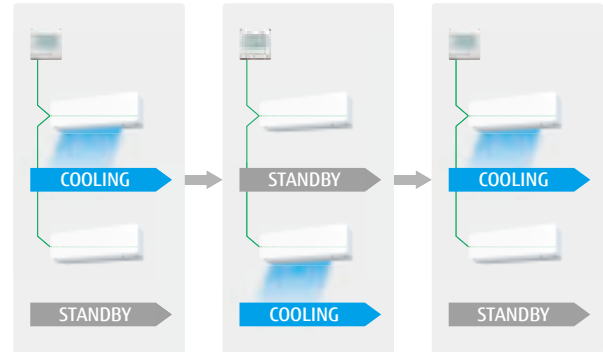
* This function is only supported by split units, using the H-Serial communication protocol! Example: ASYH30KMTB



Multi System Control*1

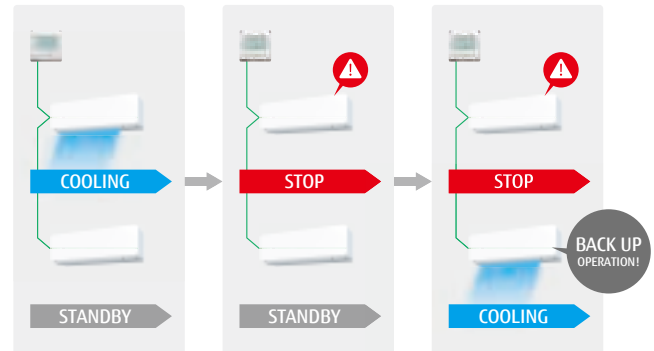
1) Lead Lag Operation

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



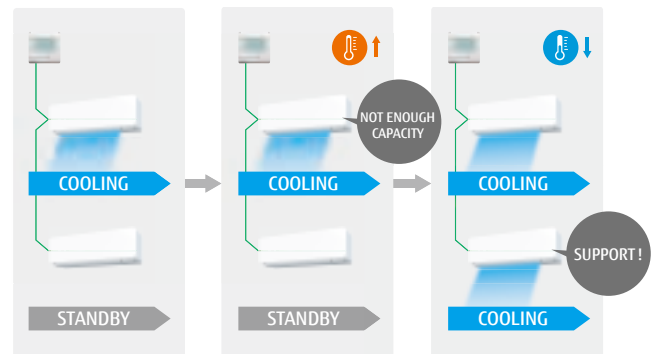
2) Back up operation

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



3) Lag Operation

In case of unexpected room temperature rise, other Indoor Units will start providing lag operation.



*1: "Lead Lag Setting" is an easy-to-use function for room temperature control when using multiple indoor units, while reducing the burden placed on each indoor unit.

If you wish to make use of this function, ensure you use indoor units equipped with a "Special Cooling" function.

For Split products with "Special Cooling" function, refer to S-054 to S-057.

If you use indoor units that do not have a "Special Cooling" function, under certain conditions, there is a chance that "Backup operation" may not operate correctly, and the "Lead Lag Setting" function will not give the expected results.

Additionally, for rooms that require strict conditions, such as server rooms, please consider other appropriate measures.

Please note that we will not provide compensation for any damages suffered to your appliances or data as a result of using this function.

For more details, please confirm with your nearest retail store.

Specifications

Model name	UTY-RNRVZ5
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



- ON/OFF/Weekly timer settings
- A built-in thermo sensor monitors and controls room temperature accurately.
- When something goes wrong, an error code is displayed.
- 16 error codes from the most recent one will be kept in the history. (Last 16 error codes can be accessed)
- Nonpolar 2-core type

Up to
16 indoor units
Up to
1 group

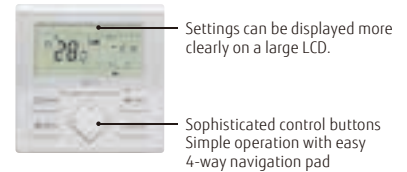
High performance and compact size

A single remote controller controls each connected indoor unit and provides a weekly timer function and a variety of energy-saving options.



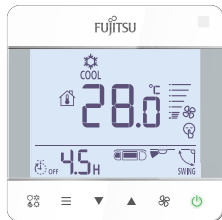
Visually intuitive operation

- The operation mode, set temperature, and fan speed are shown prominently on the top screen.
- Each function to be set is indicated by an icon.
- The control guide makes it simple and straightforward to operate a remote controller.



Compact wired remote controller

UTY-RCRYZ1

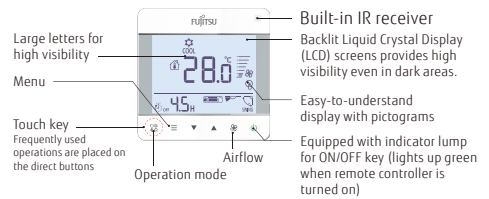


- Simple design that matches stylish interiors
- The body of the controller, which is easy to install, is designed to conform to the European standard junction box.
- Can be operated both by wireless and wired remote controller.
- Nonpolar 2-core type

Up to
1 indoor units
Up to
1 group

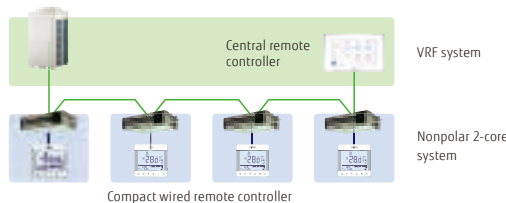
Large screen and simple display

- Large screen but compact size
- Large, easy-to-read letters are used.
- The controls are simple and easy to understand.

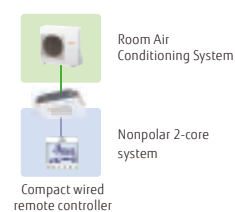


System overview

VRF connection



RAC connection



Specifications

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

12 V DC supplied by an indoor unit

Wired remote controller

UTY-RVNYM



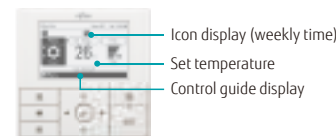
Hi-grade individual control with a wide range of functions.

- 3.7-inch backlit LCD screen.
- Supports energy-saving functions with simple operation.
- Supports 9 languages:
English, French, German, Greek, Italian, Portuguese, Russian, Spanish, and Turkish

Up to
16 indoor units
Up to
1 group

Visually intuitive operation

- Each function is displayed as an icon.
- Main functions are indicated by large icons: "Mode," "Set Temp," and "Fan"
- Easy operation with control guide display
- Simple operation with easy 4-way navigation pad



High performance and compact size

- A single remote controller controls each connected indoor unit and provides a variety of energy-saving options.



Wired remote controller

UTY-RNNYM



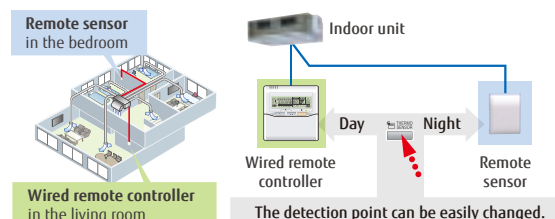
- Simple operation with Built-in Weekly/Daily Timer.
- Control up to 16 indoor units.
- Up to 2 Wired remote controllers can be connected to a single indoor unit.

Up to
16 indoor units
Up to
1 group

Accurate control for comfort

A thermo sensor built into the remote controller monitors room temperature accurately. The wired remote controller and an optional Remote sensor can be installed in any location to meet any requirement.

Examples of sensor changes



The temperature displayed is the set temperature.

Built-in timer

Weekly timer: ON/OFF time can be set to operate twice for each day of the week.

Temperature setback timer: Sets the time to change the temperature setting and the time to hold the setting for each day of the week.

At "Weekly timer" + "Temperature setback timer" setup

Specifications

Model name	UTY-RVNYM	UTY-RNNYM
Power source	12 V DC	12 V DC
Dimensions (H × W × D) (mm)	120 × 120 × 21.3	120 × 120 × 18
Weight (g)	220	160

12 V DC supplied by an indoor unit

Simple remote controller

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



UTY-RSRY

UTY-RHRY
(Without operation mode)

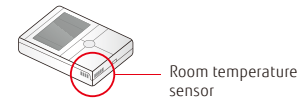
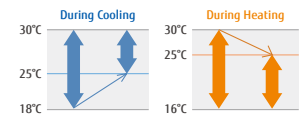
Compact remote controller with basic functionality

- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Simple design that matches stylish interiors
- Large LCD screen and easy-to-use control buttons
- Backlight: White backlight makes it easy to operate in the dark.
- Nonpolar 2-core type

Up to
16 indoor units
Up to
1 group

Supports a variety of applications

- **Vertical louver control:** Adjusts the vertical airflow direction of a duct-type indoor unit with an auto louver or a cassette type installed in a hotel room or a conference room.
- **Setting temperature range limitation:** Enables an indoor unit to operate in an energy-saving manner in a small building not equipped with a central remote controller.
- **Built-in room temperature sensor:** Monitors and controls room temperature accuracy.



Room temperature sensor

Simple remote controller

UTY-RSNYM



Compact remote controller with basic functionality

- 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.
- Backlit screen for easy operation in the dark.
- Polar 3-core type

Up to
16 indoor units
Up to
1 group

Easy-to-use operation

- Enables basic control of an indoor unit, such as ON/OFF, fan speed, operation mode select, and room temperature setting.
- A large ON/OFF button is located in the middle for quick access.
- Works with other individual control units.
- When something goes wrong, an error indicator will appear, and diagnostics can be performed with the remote controller.

Specifications

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

12 V DC supplied by an indoor unit

Wireless remote controller

UTY-LNTY



Up to
16 indoor units

Up to
1 group

Up to
4 different daily timers

Simple and versatile operations with a choice of 4 different types of timers

- Controls up to 16 indoor units.

Built-in timer

4 timer programs: ON/OFF/Program/Sleep

Program timer: Sets ON/OFF time once for every 24 hours.

Sleep timer: Adjusts the set temperature automatically while the sleep timer is on.

Easy installation and operation

Different codes can be assigned to up to 4 indoor units to prevent a mix-up.
Wide and precise transmitting range

Wireless remote controller

UTY-LNHY



Up to
16 indoor units

Up to
1 group

Up to
4 different daily timers

Simple and versatile operations with a choice of 4 different types of timers

- Controls up to 16 indoor units.

Built-in timer

4 timer programs: ON/OFF/Program/Sleep

Program timer: Sets ON/OFF time once for every 24 hours.

Sleep timer: Adjusts the set temperature automatically while the sleep timer is on.

Easy installation and operation

Different codes can be assigned to up to 4 indoor units to prevent a mix-up.
Wide and precise transmitting range

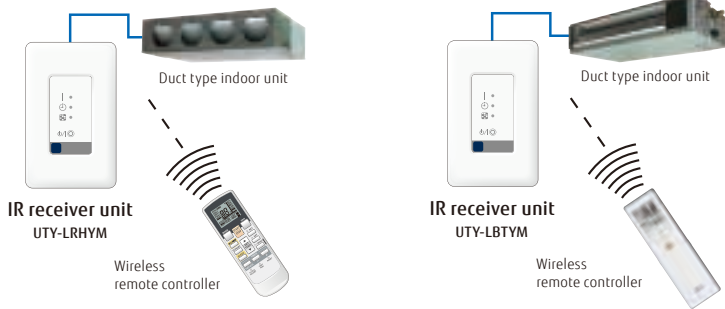
Specifications

Model name	UTY-LNTY	UTY-LNHY
Battery	1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)
Dimensions (H × W × D) (mm)	205 × 61 × 17	170 × 56 × 19
Weight (g)	125	85

12 V DC supplied by an indoor unit

IR receiver unit for duct type

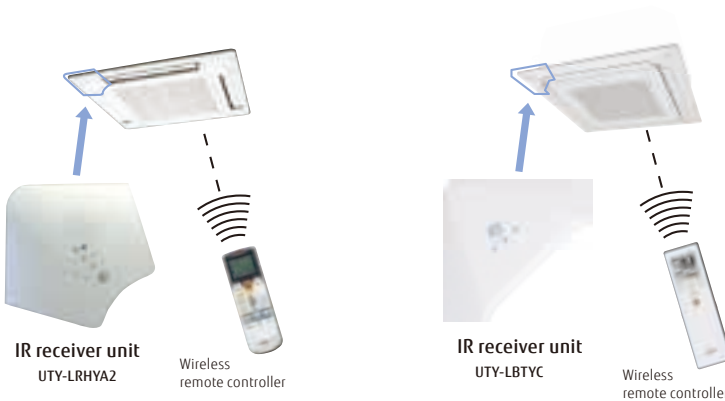
UTY-LRHYM, UTY-LBTYM



The wireless remote controller controls duct type indoor units.

IR receiver unit for Cassette

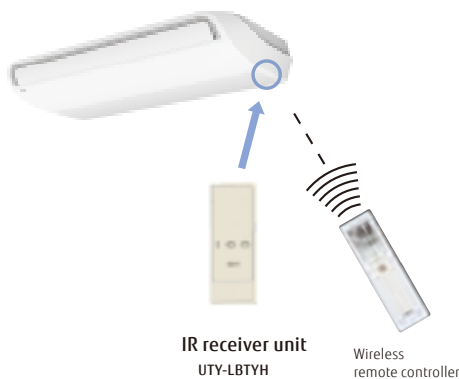
UTY-LRHYA2, UTY-LBTYC



Cassette type indoor unit can be controlled with a Wireless remote controller.

IR receiver unit for ceiling type

UTY-LBTYH



The wireless remote controller controls ceiling type indoor units.

Specifications

< Wireless Remote Controller >

Model name	UTY-LRHYM	UTY-LBTYM	UTY-LRHYA2	UTY-LBTYC	UTY-LBTYH
Battery	1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)
Dimensions (H × W × D) (mm)	170 × 56 × 19	205 × 61 × 17	170 × 56 × 19	205 × 61 × 17	205 × 61 × 17
Weight (g)	85	125	85	125	125

< IR Reciver Unit>

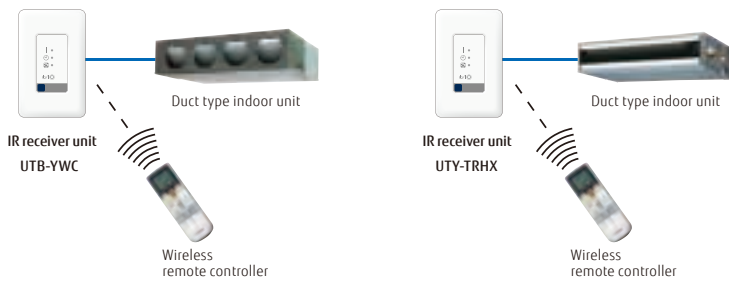
Battery	DC5V	DC5V	DC5V	DC5V	DC5V
Dimensions (H × W × D) (mm)	145 × 90 × 30	145 × 90 × 30	_*	_*	_*
Weight (g)	150	150	140	140	100

DC 5 V is supplied the indoor unit.

*It will replace the parts of the indoor unit to be connected.

IR receiver unit for duct type

UTB-YWC, UTY-TRHX



The wireless remote controller controls duct type* indoor units.

*Large airflow duct types do not work with this IR receiver unit.

*A separate wireless remote control (model: UTY-LNHY) is required.

IR receiver unit for Cassette

UTY-LRHYB1, UTY-LBHXD, UTY-TRHX



Cassette type indoor unit can be controlled with a Wireless remote controller.

*A separate wireless remote control (model: UTY-LNHY) is required.

Specifications

< Wireless Remote Controller >

Model name	UTB-YWC	UTY-LRHYB1	UTY-LBHXD	UTY-TRHX
Battery	1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)	1.5 V (R03/LR03/AAA)
Dimensions (H × W × D) (mm)	170 × 56 × 19	170 × 56 × 19	170 × 56 × 19	170 × 56 × 19
Weight (g)	85	85	85	85

< IR Reciver Unit>

Battery	DC5V	DC5V	DC5V	DC5V
Dimensions (H × W × D) (mm)	145 × 90 × 30	-*	-*	145 × 90 × 30
Weight (g)	150	140	140	150

DC 5 V is supplied the indoor unit.

*It will replace the parts of the indoor unit to be connected.

WLAN adapter

UTY-TFSXH3, UTY-TFSXJ3



NEW



USB type for single split models
UTY-TFSXH3

“AIRSTAGE Mobile” is an application software that enables you to manage the Fujitsu General’s air conditioner(s) with a mobile device from anywhere.

- Maximum 5 accounts per 1 indoor unit
- Room / Outdoor temperature display
- Can be used for a Single / Multi and VRF indoor units.
- No separate external power supply required



UTY-TFSXJ3
(CN connector type)

Up to
1 indoor units

User Friendly for Everyone

Enjoy easy-to-use centralized operation of air conditioners via a smartphone anytime, anywhere



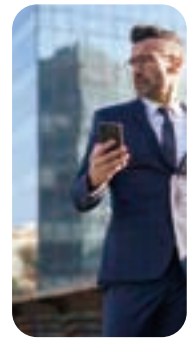
Image*



House Owner



Shop Owner



Commercial
Building Owner

Main Functions

- ON / OFF
- Operation mode
- Fan speed
- Louver position
- Set temperature control
- Weekly timer
- Room temperature display
- Outdoor temperature display
- Error display



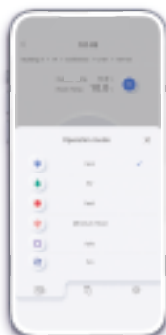
**AIRSTAGE
Mobile**

*Contents of display differ depending on the type of indoor unit.

New Design!

Ease of use is pursued to achieve a stylish design.

The more legible and accessible timer UI enables effortless schedule management.



Mode change



Fan speed change



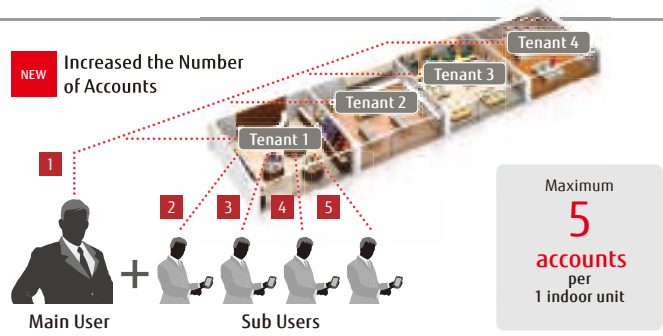
Weekly timer



Features: AIRSTAGE Mobile

Centralized operation for flexible remote management of all air conditioners

AIRSTAGE Mobile is ideal for a wide range of applications, from large residential buildings to smaller commercial spaces such as offices and stores. Anyone who has a smartphone and an adapter can easily manage the system at a low cost.



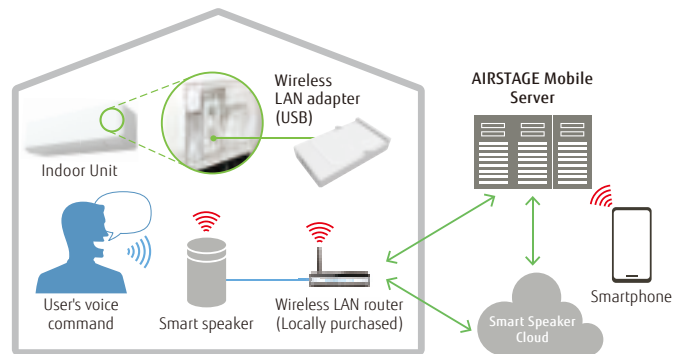
NEW Hierarchical group management

Multiple air conditioners can be combined into a single group for centralized operation. Several groups can also be organized at once. Grouping the air conditioners by building, floor, or room makes it easy for users to monitor their operation status and operate them quickly.



Operate air conditioner and check its operation status just by talking to it

Connecting with a smart speaker allows the user to operate the air conditioner and check its operation status just by talking to it.



Specifications

Model name	UTY-TFSXJ3(CN connector type)	UTY-TFSXH3
Dimensions (H × W × D) (mm)	71 × 38 × 15	56.7 × 34 × 9.72
Weight (g)	35	30

WLAN adapter

UTY-TFNXZ1/UTY-TFSXZ1/UTY-TFSXF2



USB type for single-split models
UTY-TFSXF2

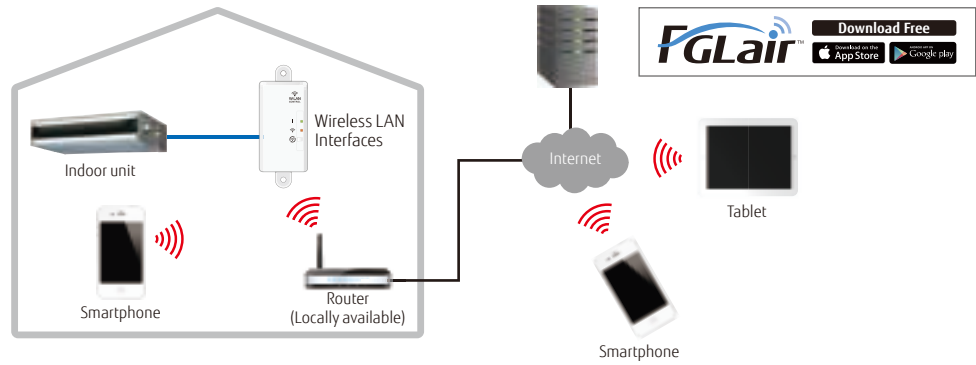


UTY-TFNXZ1
(3-wire RC-line type)
UTY-TFSXZ1
(CN connector type)

Up to
1 indoor units

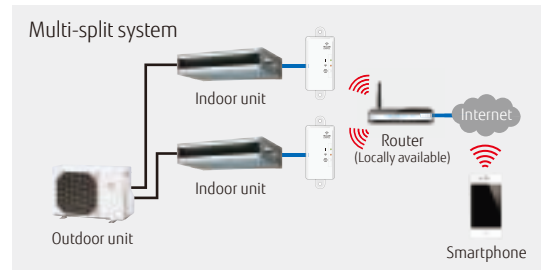


- This interface provides the most advanced solution for the remote management of an air conditioning system by using smartphones, tablets, and computers.
- No separate external power supply required
- Can be used for a Single / Multi and VRF indoor units.



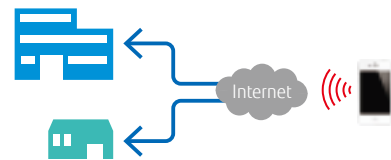
Basic control

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



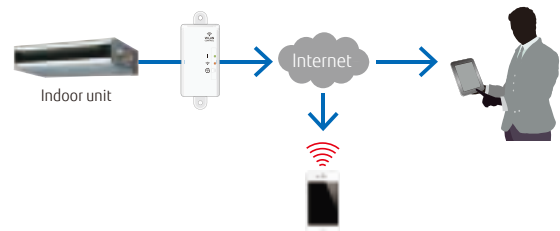
Multiple air conditioning management

- Manage multiple air conditioning systems in different locations.



Error alert and e-mail notice

- E-mail notification alerts
- Air conditioning malfunction alert
- Enables quick service response when errors occur.



WLAN adapter (USB type) UTY-TFSXF2

A compact USB type is available. No need for specialized installation. Easily installed on the indoor unit.



Specifications

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

WLAN adapter

FG-RC-WIF1Z2/FG-IR-WIF1Z1/FG-AC-WIF1Z1



Intesis



FG-RC-WIF1Z2
(3-wire RC-line type)

AC Cloud Control

- This interface provides the most advanced solution for the remote management of an air conditioning system by using smartphones, tablets, and computers.
- No separate external power supply required

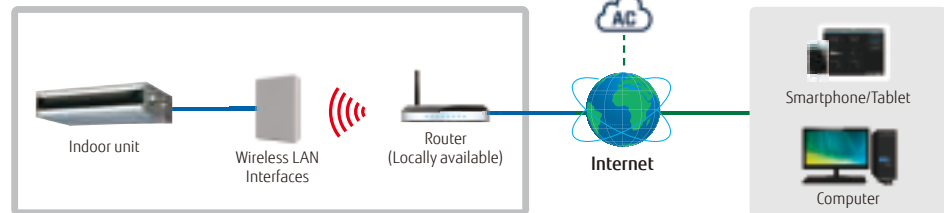
Intesis



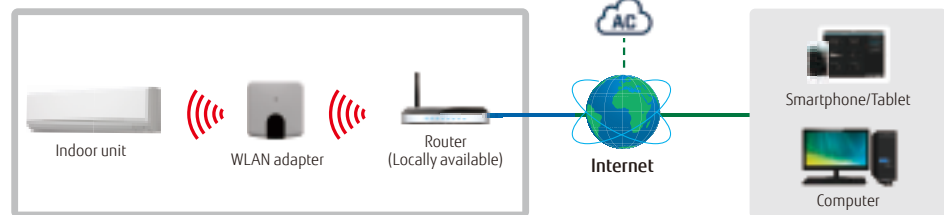
FG-AC-WIF1Z1
(CN connector type)

Installation example

[3-wire RC-line type/CN connector type]



[IR type] Connection to wall-mounted type



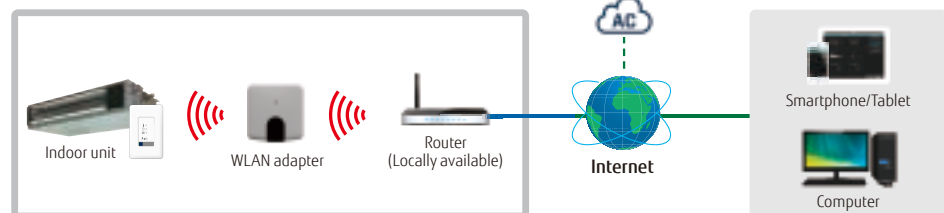
Intesis



FG-IR-WIF1Z1
(IR type)

Up to
1 indoor units

[IR type] Connects to the product with the optional receiver kit



*IR receiver required.

Basic control

- Turning air conditioner on and off
- Mode select (Heat, Cool, Dry, Auto, Fan)
- Louver position (airflow direction setting)
- Fan speed control
- Room temperature display
- Setting temperature
- Multiple language support
- One single scene is created.

Advanced control (optional functions)

- Climate-based operation modes (ECO, Comfort, and Powerful) (to be available in the future)
- Schedule functions (ON/OFF, modes, set temperature, fan speed, louver position)
- Setting temperature range limitation
- Multiple Scenes and Calendars are created.
- Smart Speaker compatibility
- Advanced internet service connections

Notification and operation history

- E-mail notification alerts
- Air conditioning malfunction alert
- Connectivity monitoring and alert
- Operation history (to be available in the future)

Specifications

Model name	FG-RC-WIF1Z2 (3-wire RC-line type)	FG-AC-WIF1Z1 (CN connector type)	FG-IR-WIF1Z1 (IR type)
Number of controllable groups	1	1	1
Dimensions (H × W × D) (mm)	108 × 70 × 28	81 × 78 × 28	127 × 50 × 17
Weight (g)	80	76	80

Multiple protocol WLAN adapter

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



Intesis
BY THE WAY OF INNOVATION



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

Intesis
BY THE WAY OF INNOVATION



FG-AC-WMP1Z1
(CN connector type)

Intesis
BY THE WAY OF INNOVATION



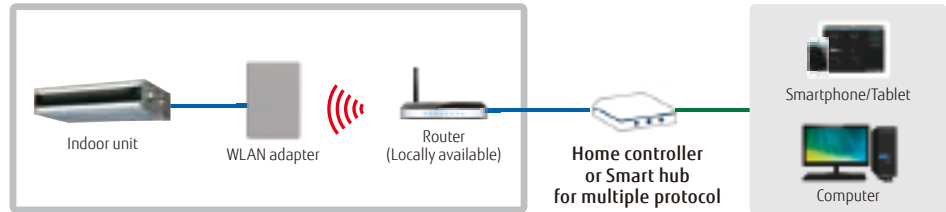
FG-IR-WMP1Z1
(IR type)

AC Cloud Control

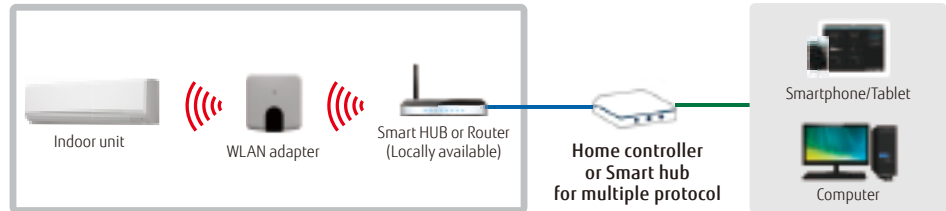
- Air conditioner control of Home Automation systems via wireless LAN connection.
- No separate external power supply required

Installation example

[3-wire RC-line type/CN connector type]



[IR type]



*IR receiver required for other than wall-mounted type.

Up to
1 indoor units

Specifications

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

Multiple protocol LAN adapter

FG-TL-MBS16Z1



Intesis
BY THE WAY OF INNOVATION

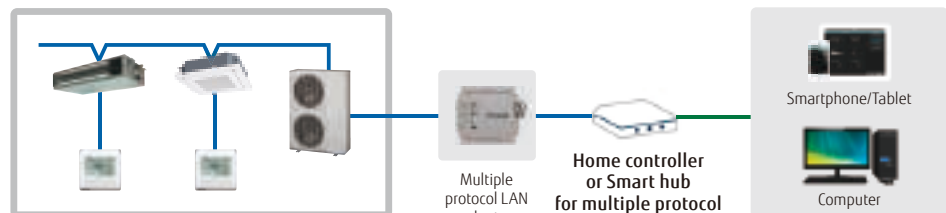


FG-TL-MBS16Z1
(VRF type)

Up to
16 indoor units

Installation example

[VRF type]



*No separate external power supply required

Specifications

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

*24 V DC power supply is recommended.

Home central remote controller

UTY-DMMYM/UTY-DMMYM1

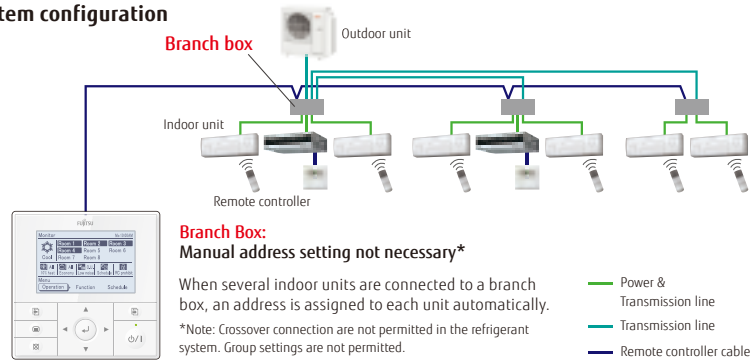


Up to
1 multi-split system
Up to
8 indoor units

For 5-unit and 6-unit multi-split type

- Batched control of up to 8 indoor units For all indoor units connected to the remote controllers, the Home central remote controller sets room temperature, airflow volume, and remote controller prohibition from other remote controllers at once.
- Supports 9 languages: English, French, German, Greek, Italian, Portuguese, Russian, Spanish, and Turkish.
- Large backlit LED screen
- Large, easy-to-see operation panel

Example of system configuration



Home central remote controller

Weekly timer

Up to 4 ON/OFF settings can be programmed per day. Two weekly patterns can be set, one for the cooling season and the other for the heating season.

Low noise operation

You can choose from 4 low noise levels depending on the installation environment. ON/OFF timing of low noise mode can be set with the timer.

10 °C heat operation

When you leave the house, the air conditioner runs a minimum heating operation to maintain the room temperature at 10°C.

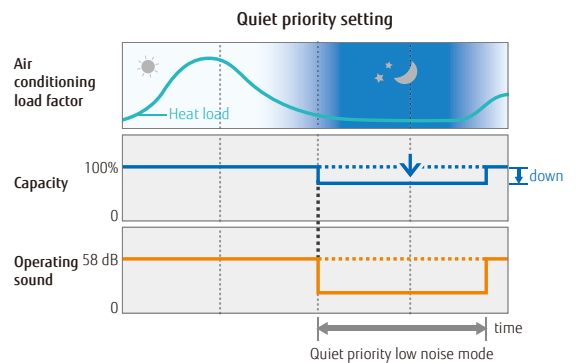
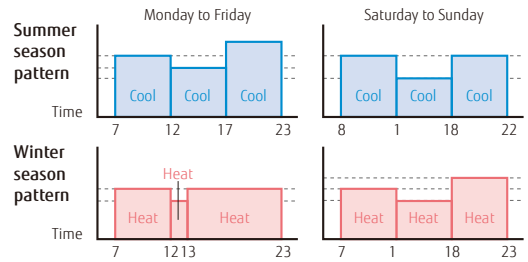
*Consult your dealer for conditions of use.

Economy operation

When you select energy-saving economy mode, the temperature setting for the indoor unit increases (during cooling operation) or decreases (during heating operation) by 1°C and the maximum electric value of the outdoor unit is suppressed.

Prohibiting local control, including settings such as child lock

The Home central remote controller is equipped with a lock function to prevent unauthorized operation from the remote controllers of the indoor unit in each room. The Home central remote controller is equipped with a child lock to prevent children from accidentally turning the air conditioner on or off or changing its settings.



Specifications

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

12 V DC supplied by an indoor unit

Central Remote Controller

UTY-DCGYZZ



Up to **100** indoor units
Up to **50** groups

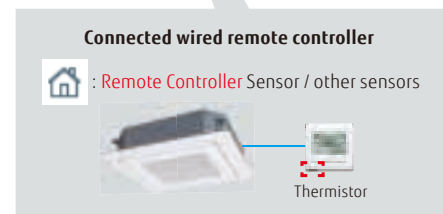
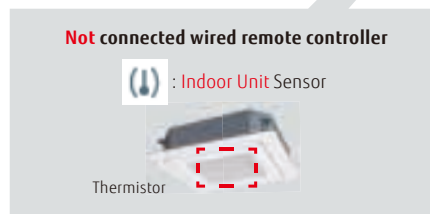
For tenants in small to midsize commercial premises

- Individual control and monitoring of up to 100 indoor units
- 7.0inch TFT color screen
- Visually intuitive operation
- Room temperature display by indoor unit sensor & remote controller sensor
- 50 Remote Controller Groups Display & remote controller group rename
- Supports 12 languages: Chinese, Dutch, English, French, German, Greek, Italian, Polish, Portuguese, Russian, Spanish, and Turkish

Easy operation

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.

50 Remote Controller Groups Display

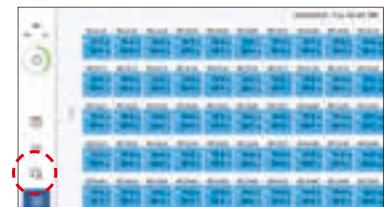
The group display and the 50 remote controller groups display can be switched easily. Users can choose which display is better, depending on the situation.

Group Display



Manage & Monitor
by each Groups

50 Remote Controller Groups Display

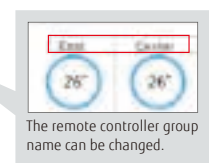


Manage & Monitor
by 50 Remote Controller Groups



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.

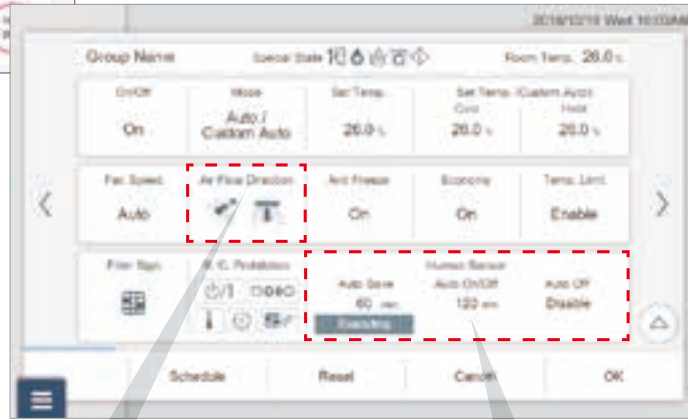


Features: Central Remote Controller

- 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

Added individual wind direction control

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



Circular flow cassette

Occupancy sensor Compatible

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



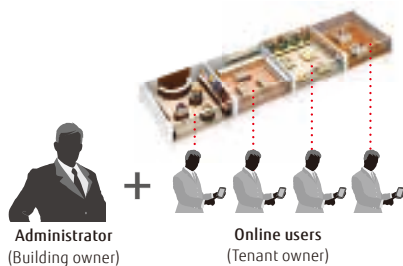
Remote Management

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 tenant can be managed separately online.

Increased the Number of Accounts



Maximum
30
accounts

Trouble support function

Display error details

Display descriptive explanation when an error occurs



All indoor unit groups display

Display error details

- Indoor unit error
- Outdoor unit error
- Central remote controller error

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-DCGVZ2
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 7.5-inch TFT color LCD screen
- Touch screen operation
- Stylish design to fit nicely into any room environment
- Controls up to 400 indoor units.
- Icon or list view can be selected in monitoring mode.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian, and Spanish.
- Mounted with LAN adapter for remote control & operation, external input/output with emergency stop and batch ON/OFF

Up to
400 indoor units

Up to
100 outdoor units

Up to
400 groups

Easy operation

- Wide range of simple-to-understand icons
- Operate by pressing the icons on the screen with your finger or a stylus.
- The color on the back identifies the current control operation; blue is for monitoring and green is for operational control.



Easy maintenance

- The flat touch panel can be easily cleaned.
- Touch panel controller with non-glare coating to prevent finger marks
- Front cover for easy removal.

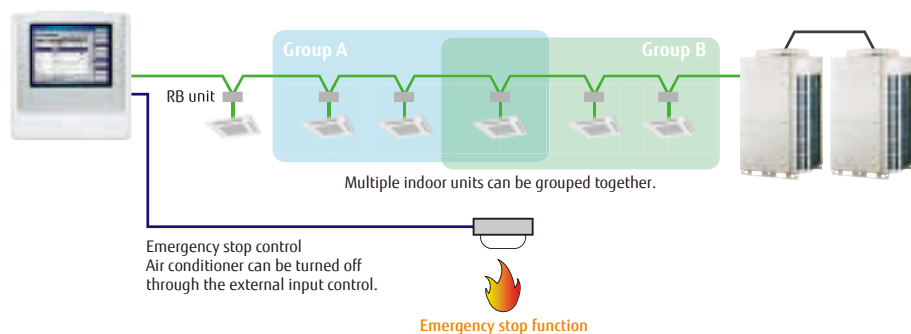


Easy installation

- The touch panel controller can be mounted on a wall.
- Flat back surface enables easy installation anywhere on a wall.
- No additional parts or components required for installation



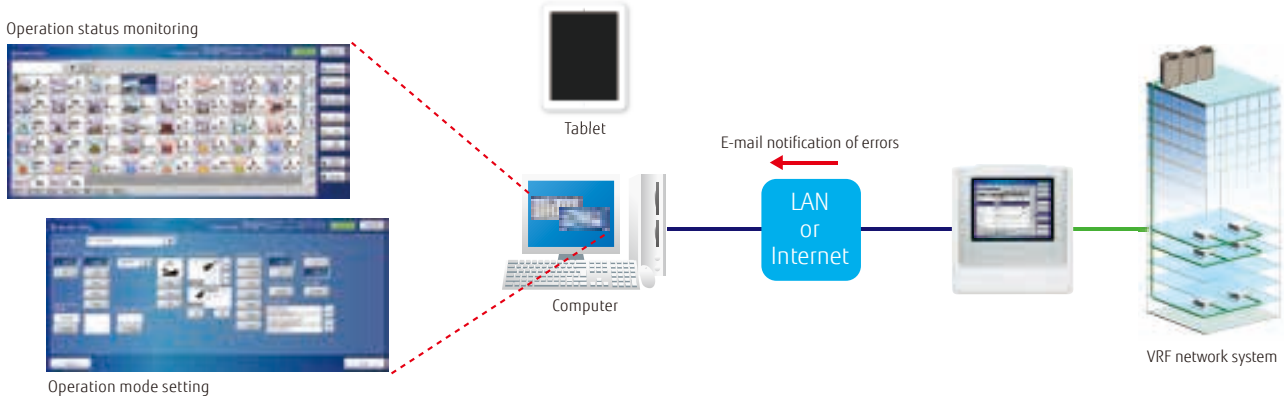
Controls up to 400 indoor units.



Features:

Control & monitoring

- Control and monitor Fujitsu General air conditioners via LAN or internet.
- Users and tenants can manage their assigned equipment from anywhere by computer or tablet.
- When something goes wrong, an error notice is sent by e-mail for prompt troubleshooting.



Smartphone

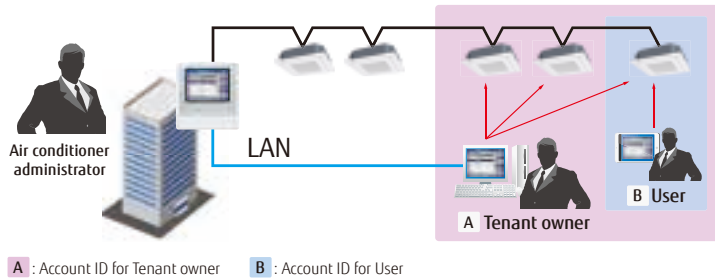
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iPhone 7 (iOS 10.1)	Safari 10

Tablet

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

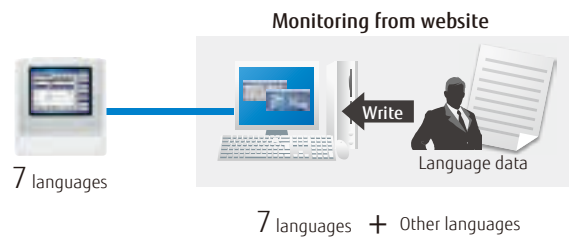
Flexible access permissions can be granted to users at each point level.

The administrator can register multiple users and permit them to access any indoor unit and any functions.



Additional languages

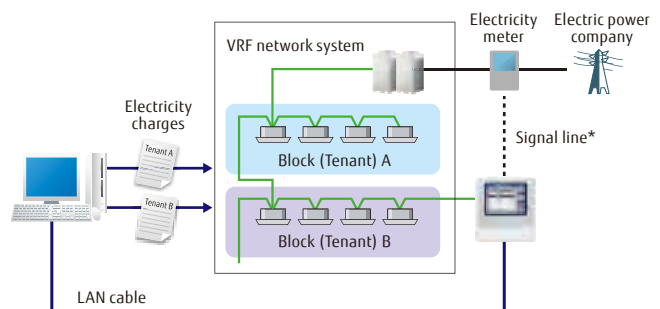
Supports 7 languages as standard: Chinese, English, French, German, Polish, Russian, and Spanish. Create a language database to integrate additional languages into the remote device. The added languages will only be displayed on the remote device and cannot be added to the Touch panel controller.



Electricity charge apportionment
(Option: UTY-PTGXA)

- Energy cost can be calculated and allocated to each billing user in proportion to the amount of energy used for air conditioning.

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



* An electricity usage meter can be connected to an external input connector of the Touch panel controller. In that case, the meter cannot be connected to an outdoor unit at the same time.

Features:

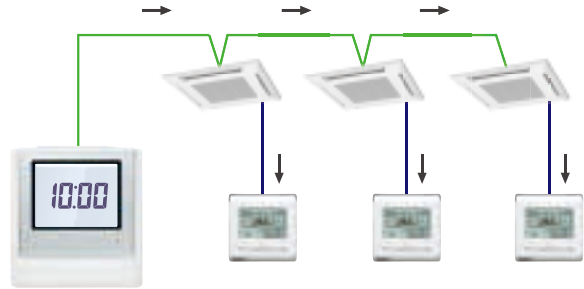
Automatic setting for daylight saving time

Functions provided

- 1) Schedule setting for daylight saving time
 - It prevents the user from forgetting to set daylight saving time. In addition, it saves time and effort for the user.

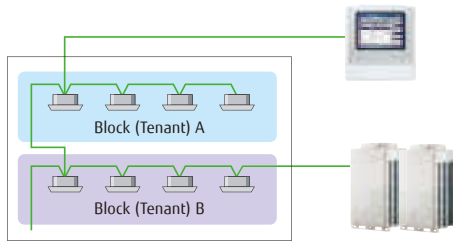
Automatic clock adjustment

- 2) Time can be set for all controllers in a batch automatically.

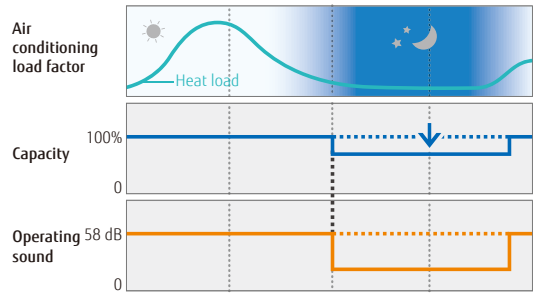


Outdoor unit low noise operation

You can choose from 4 low noise levels depending on the installation environment. ON/OFF timing of low noise mode can be set with the timer.



Quiet priority setting



Energy-saving controls

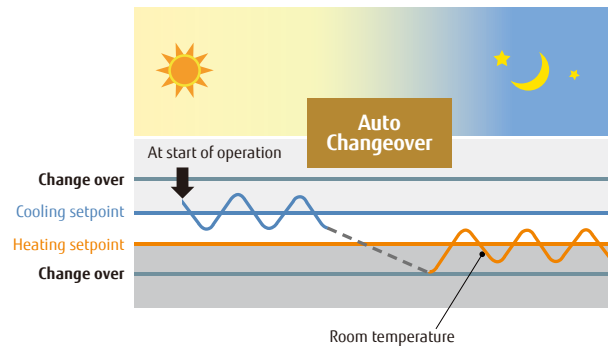
Custom Auto

- Maintains 2 separate setpoints for heating and cooling operations.
- Automatically switches between heating and cooling modes.

* Not available for some models



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





Refrigerant leak detector

Refrigerant leakage status is indicated by the management equipment. A pop-up message is displayed to notify the user, and the refrigerant is shut off.



Pop-up highlighting

FUNCTIONS SUMMARY



	 UTY-DTGYZ1	 Monitoring side
Air conditioning control functions		
ON/OFF	●	●
Operation mode setting*	●	●
Fan speed control	●	●
Room temperature setting	●	●
Setting temperature range limitation	●	●
Test operation	●	●
Vertical louver setting	●	●
Horizontal louver setting	●	●
Individual louver control	●*1	●
Group setting	●	●
Remote controller prohibition	●	●
Anti-freeze setting	●	●
Set temperature auto return	—	●
Energy-saving controls	—	●
Economy mode setting	●	●
Occupancy sensor control	—	●
Displayed items		
Error	●	●
Defrosting	●	●
Current time	●	●
Day of week	●	●
Remote controller prohibition	●	●
Cooling/heating priority	●	●
Address display	●	●
Room temperature	●*3	●*3
Multiple language support	●	●
Setting for daylight saving time	●	●
Time zone setting	●	●
Name registration	●	●
Backlighting	●	●
Language setting	7	7+other
Filter sign reset	●	●
Memory operations	●	●
Refrigerant leak detector	●	●

●: Supported ○: Optional function —: Not supported

*1 Only setting cancellation can be operated.

*2 Only available for external input control.

*3 Available only when using a Wired remote controller.

	 UTY-DTGYZ1	 Monitoring side	
Timer			
	Period	Year	Year
Schedule timer	ON/OFF, Temp, Mode, Times per day	20	20
ON/OFF timer		—	—
Sleep timer		—	—
Program timer		—	—
Auto-off timer		—	●
Day off		●	●
Minimum unit of timer setting (minutes)		10	10
Control			
Remote monitoring management system		●	●
Electricity charge apportionment		○	○
Error history		●	●
Emergency stop		●*2	●*2
Remote monitoring management		—	●
Energy-saving management		—	—
E-mail notification in case of failure		—	●
Key lock		● Password setting	—
Low noise mode		●	●

Specifications

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

System controller

UTY-APGXZ1 **Software**



Up to
4 VRF network systems
Up to
400 outdoor units
Up to
1,600 indoor units

System controller enables advanced integrated monitoring and control of VRF network systems operating in small to large buildings.

- Up to 1,600 indoor units and 400 outdoor units on up to 4 VRF network systems can be controlled.
- To accommodate facility management needs, the system controller offers—in addition to precise air conditioning control—remote central control, electricity charge apportionment, schedule management, and energy-saving options for VRF network systems.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian, and Spanish.

System controller Lite

UTY-ALGXZ1 **Software**



Up to
1 VRF network systems
Up to
100 outdoor units
Up to
400 indoor units

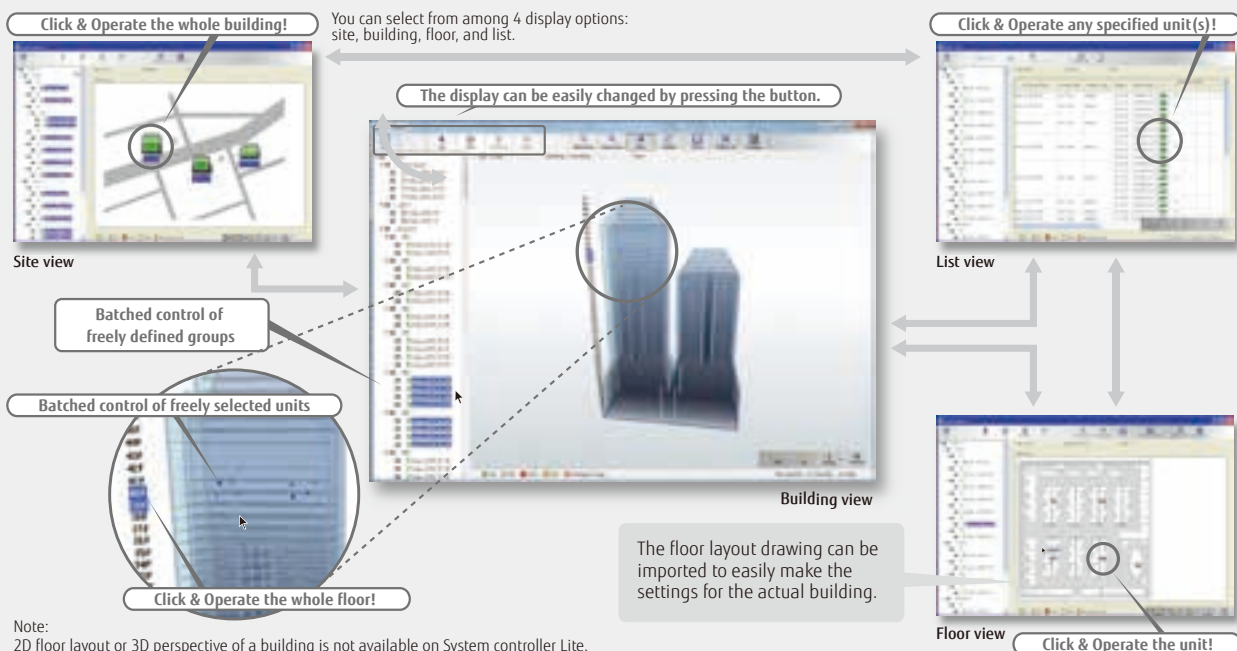
System controller Lite offers a set of standard functions to manage air conditioners operating in a small or midsize building.

- Up to 400 indoor units and 100 outdoor units on a VRF network system can be controlled.
- In addition to precise air conditioning control, a variety of applications are available as options to offer a wider range of control.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian, and Spanish.

Visually intuitive operation

Click & Operate: The visual representation of the property is shown on the screen from the perspective most suitable for operation (Click & Operate) You can select from among 4 display options: site, building, floor, and list.

Freely define groups for batched control: Indoor units can be grouped for simplified batch control from the tree menu. They can be grouped by organizational hierarchy, such as by division, department, and section.

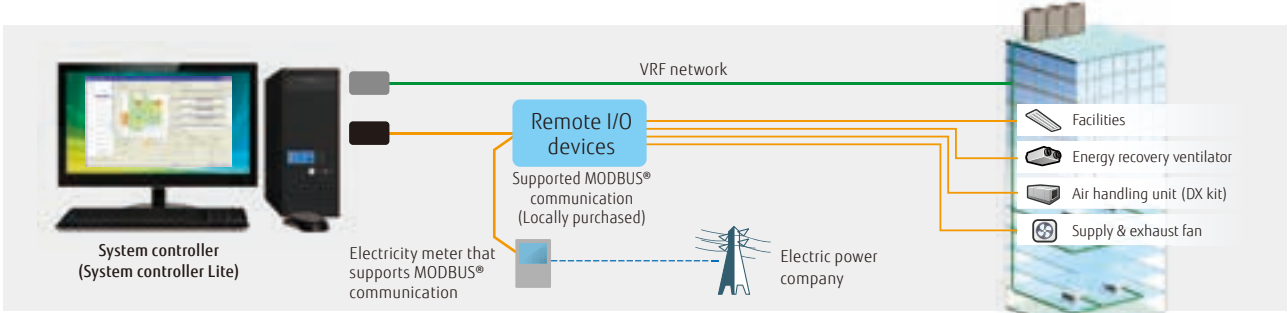


Features:

Third-party devices connected via MODBUS® can be controlled.

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

When a MODBUS® adapter (locally available) is connected to a computer, electrical equipment and devices supported by MODBUS® can be monitored and controlled centrally from the computer. The central control can reduce wasted energy throughout an entire building resulting from a failure to turn equipment off during or after work, as well as reduce the need for on-site patrols.

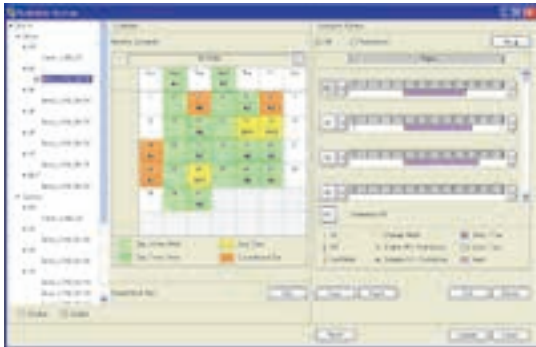


Wide-ranging operation and data management

Standard System controller and System controller Lite

Schedule management

- An annual schedule can be arranged for each remote controller group or user-defined group.
- ON/OFF, operation mode, remote controller prohibition, and temperature settings can be programmed for up to 143 times per day at 10-minute intervals and for up to 101 configurations for each remote controller group.
- Settings can be programmed for a period that spans midnight.
- Allows for the programming of special settings for weekends, holidays, and store closings throughout the year.
- Low noise operation of outdoor units can be scheduled.



Wide-ranging control of indoor and outdoor units

- The operation status and mode of each indoor unit are displayed.
- Turn on and off each indoor unit and switch its operation mode.
- Setting temperature range limitation
- Low noise setting of outdoor units

Remote controller prohibition

Prohibits the operation mode, temperature setting, or ON/OFF of an indoor unit.

Error alert and e-mail notice

When something goes wrong, an error message is shown in a popup on a computer display with a chime, and an e-mail notice is sent. Errors of the past one year are logged and can be reviewed.

Operation and control history

A history of operation status and control can be maintained and retrieved.

Importing and exporting databases

Only an administrator is authorized to import and export registration, layout, and image data.

Automatic clock adjustment

Time can be set for all controllers in batch automatically.

Electricity charge apportionment

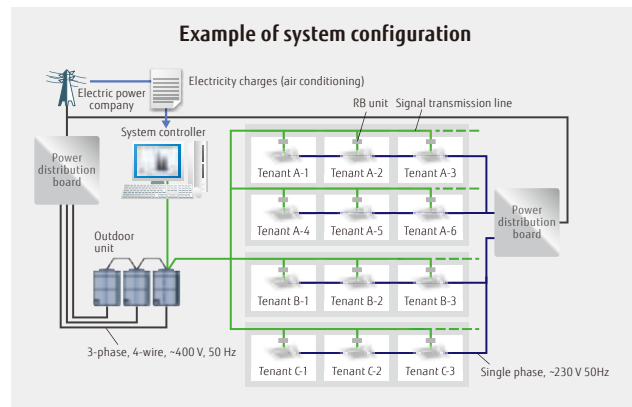
Standard on System controller

Option System controller Lite UTY-PLGXA2

Electricity charge apportionment method

This is a method to calculate monthly energy costs to be allocated to each tenant based on the amount of energy used by their air conditioners. The first step is to determine exactly how much energy is consumed by air conditioners in each tenant space. The second step is to divide the total energy charge billed by an electric power company based on the amount of energy used by each tenant to determine the energy cost to be allocated to each of them. (See figure on right)

The calculation takes into consideration such factors as the number of unused rooms and nighttime electricity rate, which are shown in detail on an energy cost allocation schedule.



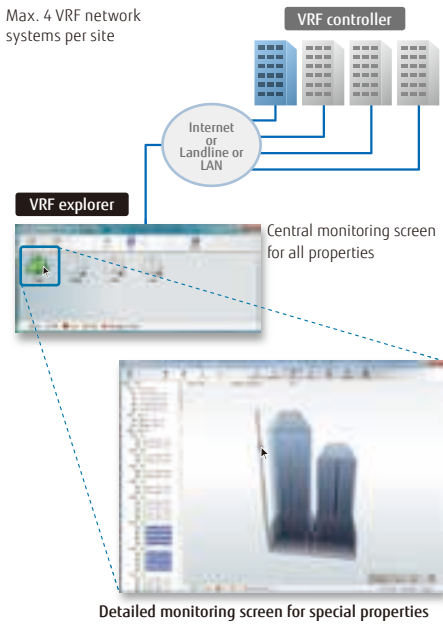
Features:

Remote monitoring management

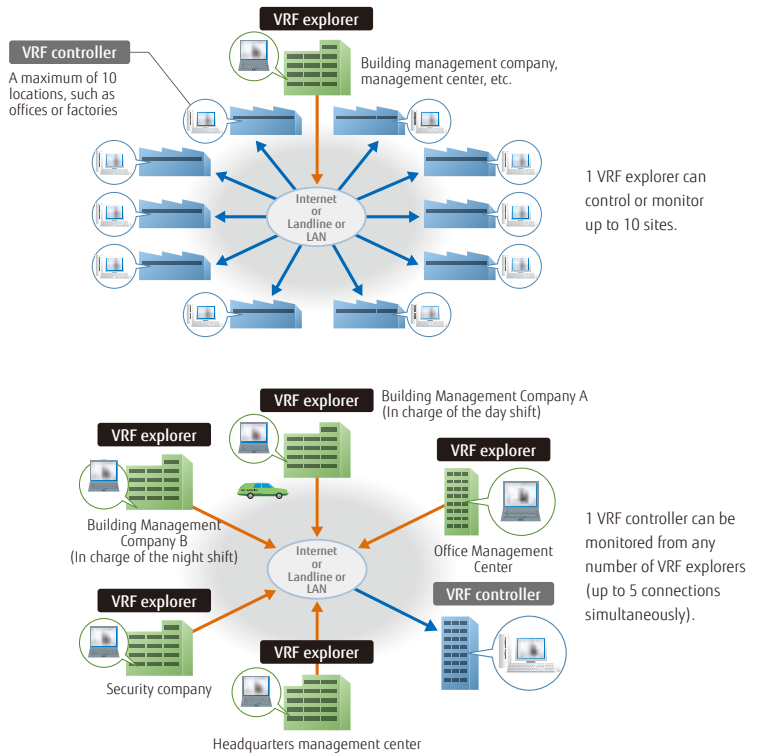
- Standard** on System controller
- Option** System controller Lite UTY-PLGX2

The System controller can be used on site or remotely over networks for remote central control. The System controller requires 2 software programs working together: The VRF controller runs on site and communicates with the VRF system; The VRF explorer, which runs at a remote location, provides a user interface and communicates with the VRF controller. The VRF controller and the VRF explorer run on a single computer or on different computers connected on a network. A computer running VRF explorer can centrally control up to 10 VRF system sites having up to 20 buildings each.

On site central control



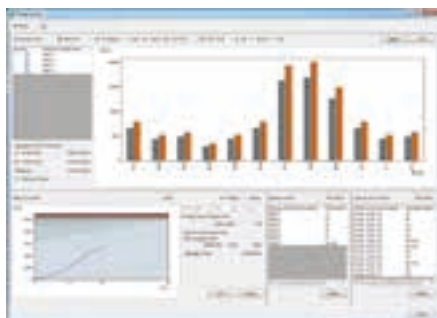
Remote central control



Energy-saving management

- Option** System controller UTY-PEGX1
- Option** System controller Lite UTY-PLGX2

A variety of energy-saving options can be selected depending on the season, weather, and time of day. Excellent energy-saving operation is performed while keeping users comfortable.



Main screen for energy-saving management

Energy saving graph data: This chart compares the energy consumption for the current month with the previous month and with the same month of the previous year to keep track of the energy-saving performance.

Indoor unit rotation

Indoor units can be automatically rotated to operate within a group in accordance with a predetermined annual schedule to reduce power consumption while keeping users comfortable. The operation stoppage rate can be selected for an indoor unit.

Peak-cut mode

The system controller monitors the connected power meter and controls the energy to maintain the target power consumption set for each time period by changing the set temperature of the indoor units or turning off the thermostat so as to keep the users comfortable. Indoor units to be controlled can be grouped in many ways, and the control level can be set for each group.

Capacity saving for outdoor unit

The upper limit on the capacity of an outdoor unit can be adjusted to reduce power consumption during a hot summer or cold winter by averaging out the power-saving performance of each refrigerant system. The upper limit on capacity can be set at 50% of the rated capacity or more.

Summary of functions

Functions	Type	System controller			System controller Lite				
		UTY-APGXZ1	Option UTY-PEGXZ1	UTY-ALGXZ1	Option UTY-PLGXR2	Option UTY-PLGXA2	Option UTY-PLGXE2	Option UTY-PLGXX2	
Specifications	Max. number of VRF networks supported	4	—	1	—	—	—	—	
	Max. number of indoor unit and remote controller groups per VRF network	400	—	400	—	—	—	—	
	Max. number of outdoor units per VRF network	100	—	100	—	—	—	—	
	Max. number of indoor units and remote controller groups per System controller	1600	—	400	—	—	—	—	
	Max. number of outdoor units per System controller	400	—	100	—	—	—	—	
Site supervision	Multiple site display	10	—	10	—	—	—	—	
	Number of buildings per site	20	—	—	—	—	—	—	
	Number of floors per site	200	—	—	—	—	—	—	
	Number of floors per building	50	—	—	—	—	—	—	
	3D graphical layout view	●	—	—	—	—	—	—	
	2D graphical layout view	●	—	—	—	—	—	—	
	List display	●	—	●	—	—	—	—	
	Tree display	●	—	●	—	—	—	—	
Error management	Group display	●	—	●	—	—	—	—	
	Error notification	●	—	●	—	—	—	—	
	Audible alarm	●	—	●	—	—	—	—	
History	E-mail notification of errors	●	—	●	—	—	—	—	
	Error history	●	—	●	—	—	—	—	
Operation control	Operation history	●	—	●	—	—	—	—	
	Control history	●	—	●	—	—	—	—	
	Individual control	ON/OFF	●	—	●	—	—	—	—
		Operation mode*	●	—	●	—	—	—	—
		Room temperature	●	—	●	—	—	—	—
		Fan speed	●	—	●	—	—	—	—
		Airflow direction	●	—	●	—	—	—	—
		Economy mode	●	—	●	—	—	—	—
		Setting temperature range limitation	●	—	●	—	—	—	—
	Anti-freeze	●	—	●	—	—	—	—	
	Individual management	Low noise setting of outdoor units	●	—	●	—	—	—	—
		Remote controller prohibition	●	—	●	—	—	—	—
		Setting temperature range limitation	●	—	●	—	—	—	—
	Other	Filter sign reset	●	—	●	—	—	—	—
		memory operations	●	—	●	—	—	—	—
Schedule	Pattern operations	●	—	●	—	—	—	—	
	Annual Schedule	●	—	●	—	—	—	—	
	Setting for a specific date	●	—	●	—	—	—	—	
	ON/OFF per day	72	—	72	—	—	—	—	
	ON/OFF per week	504	—	504	—	—	—	—	
	Day off	●	—	●	—	—	—	—	
	Minimum unit of timer setting (minutes)	10	—	10	—	—	—	—	
Remote monitoring management	Weekly schedule for low noise mode	●	—	●	—	—	—	—	
	Web Operation	●	—	●	—	—	—	—	
	Remote monitoring	●	—	●	—	—	—	—	
	Remote operation control	●	—	●	—	—	—	—	
Electricity charge apportionment	Remote function setting	●	—	●	—	—	—	—	
	Apportionment charge/bill calculation	●	—	●	—	—	—	—	
	Tenant (block) setting	●	—	●	—	—	—	—	
	Common facilities apportionment setting	●	—	●	—	—	—	—	
	Rated power consumption allotment setting	●	—	●	—	—	—	—	
Energy-saving management	Individual calculations for cooling and heating	—	●	—	—	—	—	—	
	Electricity meter supported	—	●	—	—	—	—	—	
	Indoor unit rotation	—	●	—	—	—	—	—	
	Peak cut control	—	●	—	—	—	—	—	
	Capacity saving for outdoor unit	—	●	—	—	—	—	—	
	Record of energy-saving operation	—	●	—	—	—	—	—	
	Information on energy saving	—	●	—	—	—	—	—	
Control of external devices	Power consumption monitor	—	●	—	—	—	—	—	
	Electricity meter supported	—	●	—	—	—	—	—	
Others	Monitor	●	—	●	—	—	—	—	
	Control	●	—	●	—	—	—	—	
	Importing and exporting databases	●	—	●	—	—	—	—	
	Automatic clock adjustment	●	—	●	—	—	—	—	
	Multiple language support	7 languages	—	7 languages	—	—	—	—	
Control of external devices	Refrigerant leak detector	●	—	●	—	—	—	—	
	Power shutdown	●	—	●	—	—	—	—	

●●: Available - : Not available

Computer requirements

The specifications required for the computer are shown in the table below:

	System controller	System controller Lite
Operating system	<ul style="list-style-type: none"> Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) Supports 7 languages: English, Chinese, French, German, Russian, Spanish, and Polish	<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) Supports 7 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	<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) 	<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	40 GB or more of free space
Displayed items	1024 × 768 or higher resolution	1024 × 768 or higher resolution
Interfaces	<ul style="list-style-type: none"> Ethernet port (for getting access to the internet using LAN) or a modem (for getting access to the internet via landline) Up to 6 USB ports (Only required for a server computer working as a VRF controller) Maximum of 2 USB ports are required to connect to a White-USB-key/WibuKey Up to 4 USB ports required to connect to an Echelon® U10 USB network interface * Maximum number of required USB ports depends on the applicable system configuration. 	<ul style="list-style-type: none"> Ethernet port (for getting access to the internet using LAN) or a modem (for getting access to the internet via landline) Up to 6 USB ports (Only required for a server computer working as a VRF controller) Maximum of 4 USB ports are required to connect to a White-USB-key/WibuKey 1 USB port is required for an Echelon® U10 USB Network interface * The maximum number of required USB ports 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 name: 75010R) (Required for each VRF Network)

Packing list

Type	For System controller			For System controller Lite			
	System controller	Option Energy manager	System controller Lite	Remote access	Electricity charge apportionment	Energy saving	Centralized control
Model name	UTY-APGXZ1	UTY-PEGXZ1	UTY-ALGXZ1	UTY-PLGXR2	UTY-PLGXA2	UTY-PLGXE2	UTY-PLGXX2
White-USB-key	1	1	1	1	1	1	1

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

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

MODBUS® converter for Indoor unit

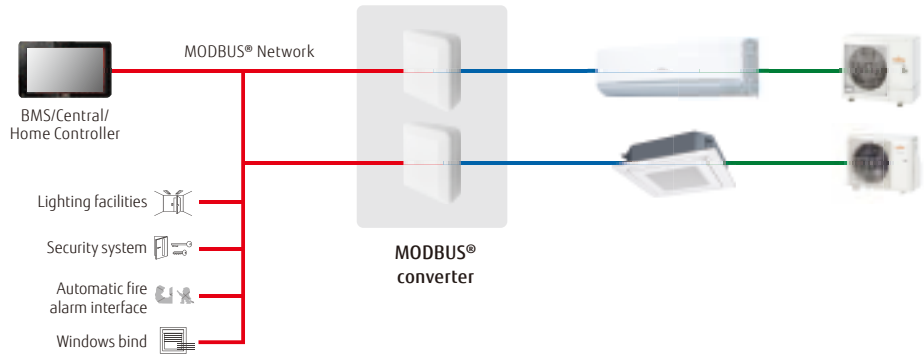
UTY-VMSX



Up to
1 indoor unit

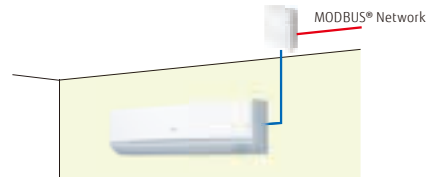
MODBUS® converter enables air conditioners to be fully integrated into a MODBUS® network.

- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS® converter must be connected to an indoor unit on a one-to-one basis.
- The MODBUS® converter enables central monitoring and control of air conditioners from BMS, central, or home controller.



Easy Installation

Easy to install with minimal wiring and without the need for a power supply cable to the converter



Basic control

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

Specifications

Model name	UTY-VMSX
Power supply	12 V DC
Input power (W)	Max. 1.2 W
Dimensions (H × W × D) (mm)	140 × 117 × 43
Weight (g)	200
Maximum number of connectable indoor units per MODBUS® converter	1

Modbus communication specifications

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

MODBUS® interface

FG-RC-MBS1Z1/FG-AC-MBS1Z1/FG-IR-BMG1Z1



Intesis
BY THE WAY WE CONTROL



FG-RC-MBS1Z1
(3-wire RC-line type)

MODBUS® interface enables air conditioners to be fully integrated into a MODBUS® network.

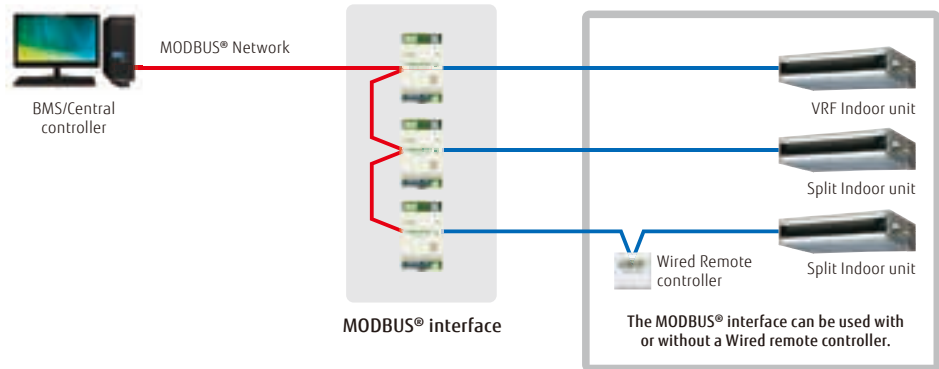
- Small, compact, and easy to install on DIN rails.
- No separate external power supply required.
- MODBUS® interface enables central monitoring and control of air conditioners from BMS.

Intesis
BY THE WAY WE CONTROL



FG-AC-MBS1Z1
(CN connector type)

Installation example



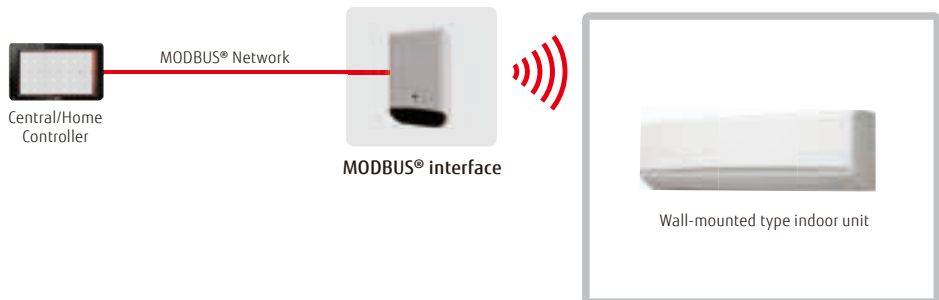
Intesis
BY THE WAY WE CONTROL



FG-IR-BMG1Z1
(IR type)

NEW

[IR type] Connection to wall-mounted type



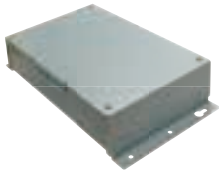
Up to
1 indoor unit

Specifications

Model name	FG-RC-MBS1Z1 (3-wire RC-line type)	FG-AC-MBS1Z1 (CN connector type)	FG-IR-BMG1Z1 (IR type)
Number of controllable groups	1	1	1
Dimensions (H × W × D) (mm)	93 × 53 × 58	93 × 53 × 58	93 × 60 × 21
Weight (g)	85	85	55

MODBUS® convertor for VRF

UTY-VMGX/FG-TL-MBS16Z1



UTY-VMGX

Up to
9 units per VRF system
Up to
100 outdoor units
Up to
128 indoor units

MODBUS® convertor enables air conditioners to be fully integrated into a MODBUS® network.

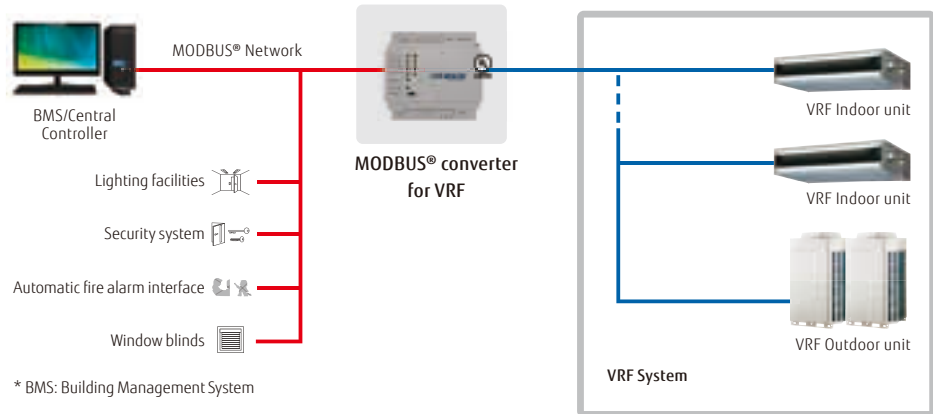
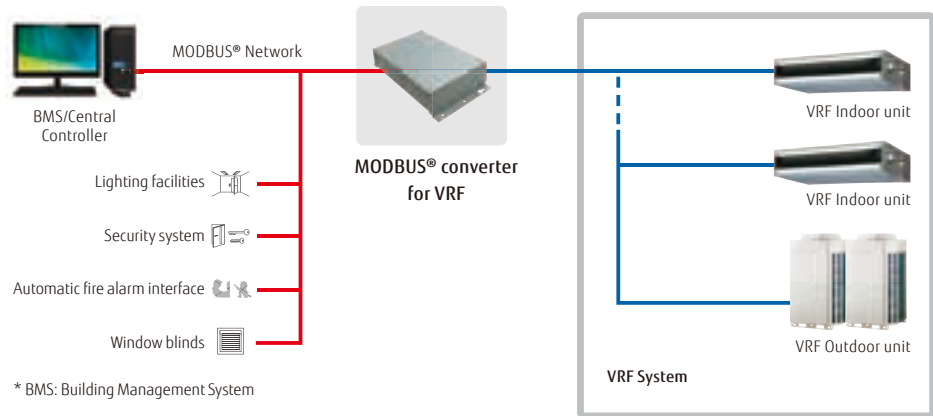
- Compact and lightweight design
- Direct connection to MODBUS® network
- MODBUS® convertor enables central monitoring and control of air conditioners from BMS or a central controller.
- Up to 9 converters can be connected to a VRF network (UTY-VMGX). Simultaneous control, such as Power ON/OFF and temperature setting, can be performed for each zone.
- If a connection error occurs after installation work is completed, the source of the error can be located easily.

Installation example



FG-TL-MBS16Z1

Up to
16 indoor units
Up to
16 outdoor units
Up to
128 indoor units



Specifications

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

*24 V DC power supply is recommended.

BACnet® interface

FG-AC-BAC1Z1/FG-IR-BMG1Z1



Intesis
BY FUJITSU GENERAL



FG-AC-BAC1Z1
(CN connector type)

Intesis
BY FUJITSU GENERAL



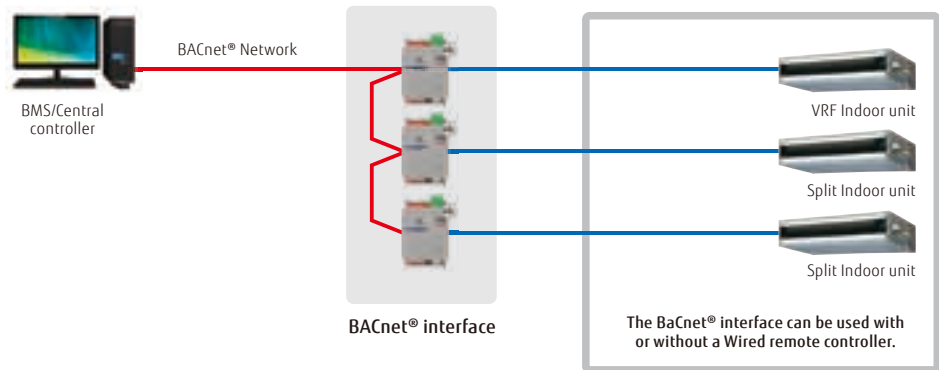
FG-IR-BMG1Z1
(IR type)

NEW

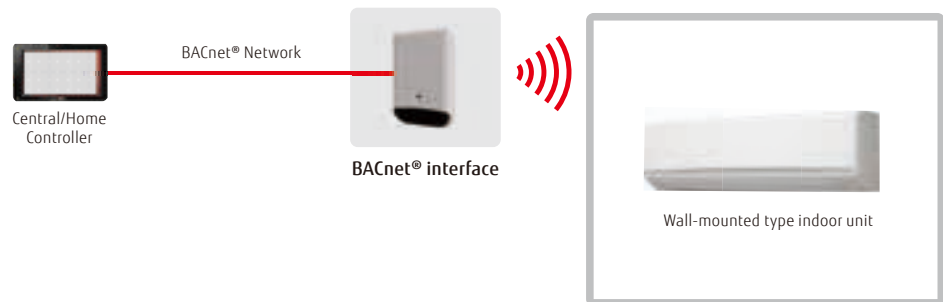
Up to
1 indoor units

- BACnet® interface connects BMS and a 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



[IR type] Connection to wall-mounted type



Specifications

Model name	FG-AC-BAC1Z1 (CN connector type)	FG-IR-BMG1Z1 (IR type)
Number of controllable groups	1	1
Dimensions (H × W × D) (mm)	93 × 53 × 58	93 × 60 × 21
Weight (g)	85	55

12 V DC supplied by an indoor unit

BACnet® gateway

UTY-ABGXZ1 **Software**

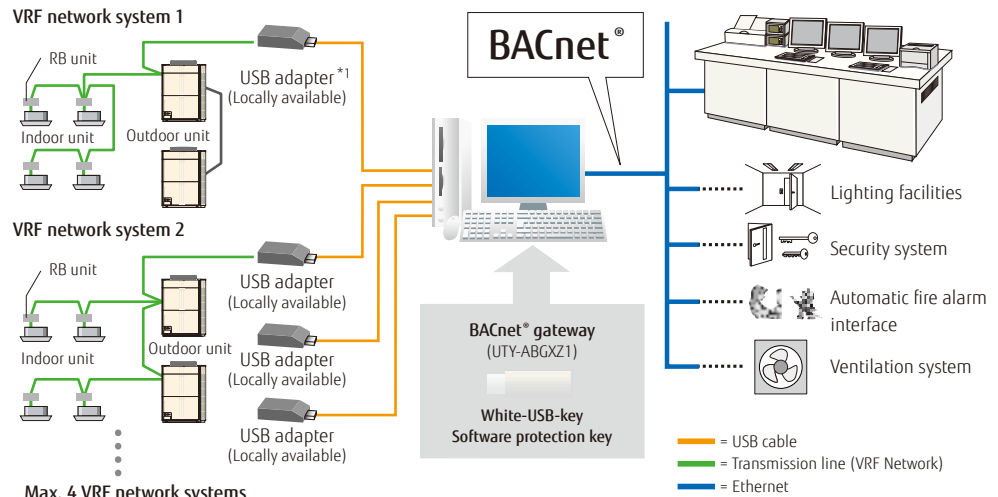


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- A medium to large BMS can be connected to a VRF network system via BACnet®, a standard communication protocol for open networks.
- Up to 1,600 indoor units on up to 4 VRF network systems (up to 400 indoor units and 100 outdoor units per system) can be connected to a single BACnet® gateway.
- The VRF network system can be controlled or monitored from BMS via BACnet® gateway.
- Compatible with BACnet® (ANSI/ASHRAE-135-2014) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.
- Scheduling, alarm and event setting, and energy cost allocation are provided on the BACnet® gateway.
- The VRF network system can be connected to a computer via a U10 USB interface. Note that Fujitsu General does not supply a U10 USB interface or a computer. They must be purchased separately by the user.
- Corresponds to 7 different languages: English, Chinese, French, German, Spanish, Russian, Polish.

Up to
4 VRF network systems
Up to
400 outdoor units
Up to
1,600 indoor units

Installation example



*1: U10 USB network interface available from Echelon® Corporation.

Computer requirements

UTY-ABGXZ1	
Operating system	• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) Supported languages: Chinese, English, French, German, Polish, Russian, and Spanish
CPU	Intel® Core™ i3 2 GHz or higher
Memory	• 2 GB or more (for Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)
HDD	40 GB or more of free space
Displayed items	1024 × 768 or higher resolution
Interfaces	• Ethernet port (for getting access to the internet using LAN) • Up to 5 USB ports - 1 USB port required to connect to a White-USB-key/WibuKey - Up to 4 USB ports required to connect to an Echelon® U10 USB network interface *The maximum number of required USB ports varies depending on the applicable system configuration.
Software	Adobe® Acrobat Reader® 9.0 or later

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

Packing list

Name and shape	Quantity	Application
White-USB-key	1	Includes the software, user's manual, and license for BACnet® gateway.

BACnet® gateway

UTY-VBGX **Hardware**



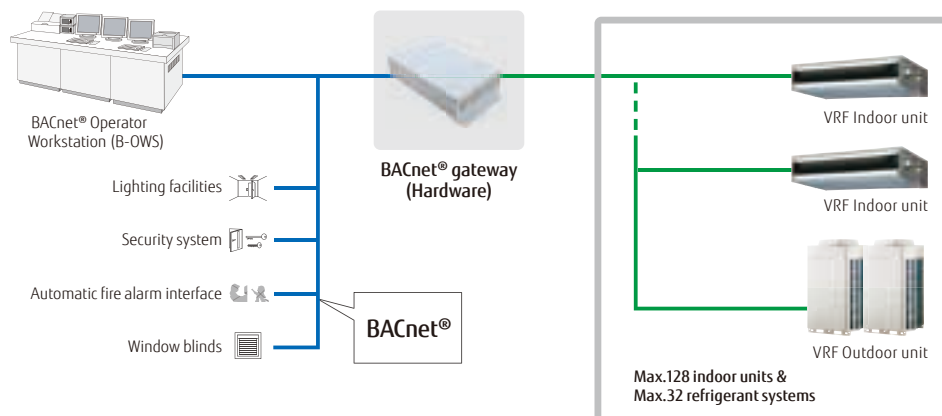
- BACnet® gateway connects BMS and a Fujitsu General VRF system.
- Up to 128 indoor units and 32 refrigerant systems can be connected to a single BACnet® gateway.
- Compatible with BACnet® (ANSI/ASHRAE-135-2012) application-specific controller (B-ASC)
- Compatible with BACnet®/IP over Ethernet.



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Up to
1 VRF network systems
Up to
32 refrigerant systems
Up to
128 indoor units

Installation example



Specifications

Model name	UTY-VBGX
Number of controllable indoor units	128
Number of controllable refrigerant systems	32
Number of controllable VRF networks	1
Number of connectable units / one VRF network	4
Power supply	Single phase, 100-240 V, 50/60 Hz
Power consumption (W)	4.6 (max.)
Dimensions (H × W × D) (mm)	59.6 × 270.4 × 176
Weight (g)	1200

BACnet®/MODBUS® Router

FG-RTR-BAC32Z1/FG-RTR-MBS32Z1



Intesis
FOR BUILDING AUTOMATION



FG-RTR-BAC32Z1
 (BACnet)

Intesis
FOR BUILDING AUTOMATION



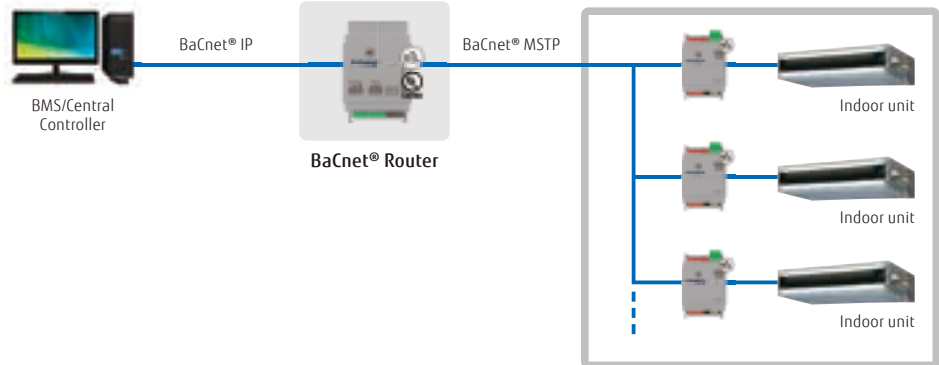
FG-RTR-MBS32Z1
 (MODBUS®)

Routing between BaCnet® MS/TP and BaCnet® IP networks

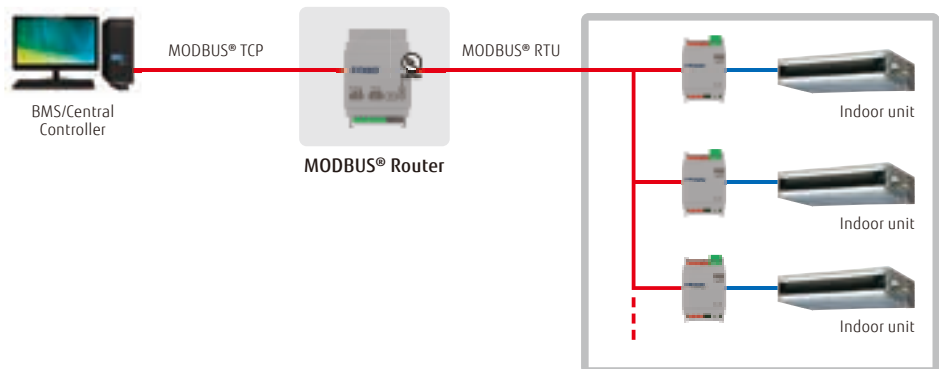
- Routing between BaCnet® MS/TP and BaCnet® IP networks
- Routing between MODBUS® RTU and MODBUS® TCP networks

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 to 36 V DC, Max.: 140 mA or 24 V AC 50/60 Hz, Max.: 127 mA	9 to 36 V DC, Max.: 140 mA or 24 V AC 50/60 Hz, Max.: 127 mA
Power consumption (W)	1.7	1.7
Dimensions (H × W × D) (mm)	93 × 53 × 58	93 × 53 × 58
Weight (g)	150	150

BACnet®/MODBUS® Cloud Device

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



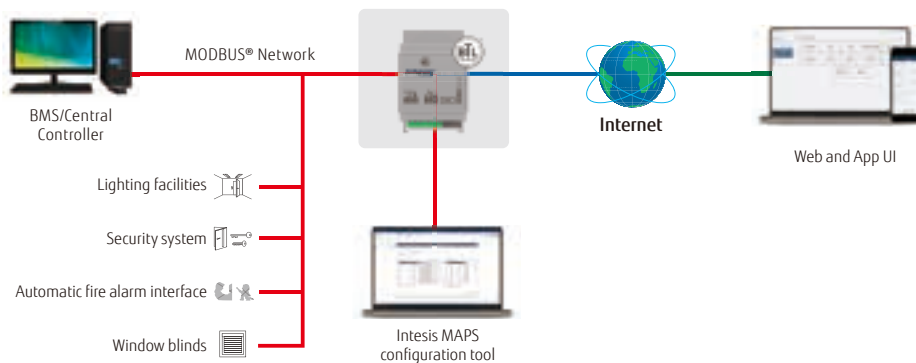
Intesis
BY THE POWER OF THE CLOUD



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

- The most powerful configuration tool common to all BACnet® gateways provides the system integrators with the power to configure and monitor their systems in an easy and reliable manner.
- A simple, easy-to-use description for the ST Cloud Web and App User Interface, with all widgets customizable to the user's needs, enabling system integrators to easily offer the best user experience to customers who are in control of 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 with Intesis MAPS

Next-generation services

- Industrial-grade connectivity now for building automation
- Fast and scalable real-time edge connectivity over HMS Hub™
- 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
- Calendar that shows the daily planned installation commands
- Notifications keep you updated about system status
- Device sharing and usage 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 to 24 V DC, 50/60Hz	9 to 24 V DC, 50/60Hz	9 to 24 V DC, 50/60Hz	9 to 24 V DC, 50/60Hz
Power consumption (W)	1.7	1.7	1.7	1.7
Dimensions (H × W × D) (mm)	93 × 53 × 58	93 × 53 × 58	93 × 53 × 58	93 × 53 × 58
Weight (g)	150	150	150	150

KNX® converter for indoor unit

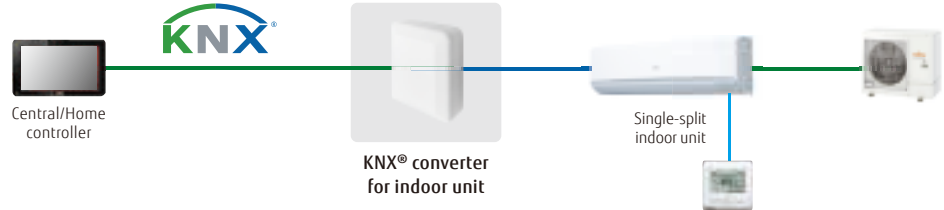
UTY-VKSX



Up to
1 indoor unit

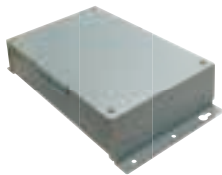
KNX® Converter enables individual control of an indoor unit.

- The new KNX® converter connects a central or home controller and a Fujitsu General indoor unit.
- Compact and lightweight design



KNX® converter for VRF

UTY-VKGX/FG-TL-KNX16Z1



UTY-VKGX

Up to
100 outdoor units
Up to
128 indoor units

KNX® converter enables centralized control of a system.

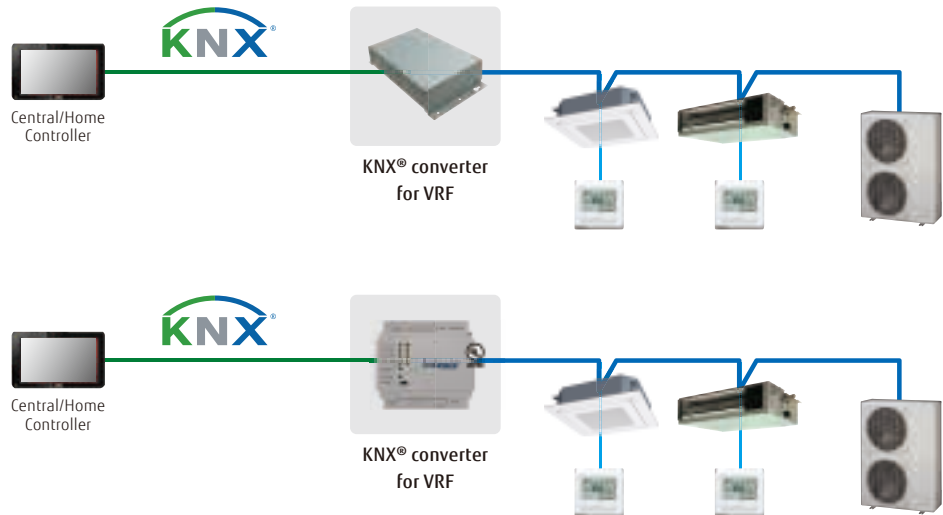
- KNX® converter connects a central or home controller and a Fujitsu General VRF system.
- Up to 128 indoor units and 100 outdoor units can be connected to a single KNX® converter. (UTY-VKGX)



FG-TL-KNX16Z1

Up to
16 indoor units
Up to
16 outdoor units

Installation example



Specifications

Model name	UTY-VKSX	UTY-VKGX	FG-TL-KNX16Z1
Power supply	12 V DC	Single phase ~220 to 240 V 50/60 Hz	9 to 36 V DC, Max.: 140 mA or 24 V AC 50/60 Hz, Max.: 127 mA.*
Input power (W)	0.6	1.5	1.6
Dimensions (H × W × D) (mm)	140 × 117 × 43	54 × 260 × 150	90 × 88 × 56
Weight (g)	215	1,200	340

*24 V DC power supply is recommended.

KNX® interface

FG-RC-KNX1Z1/FG-AC-KNX1Z1/FG-IR-KNX1Z1



Intesis
BY THE WAY OF THE FUTURE



FG-RC-KNX1Z1
(3-wire RC-line type)

The KNX® interface enables air conditioners to be fully integrated into a KNX® network system.

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

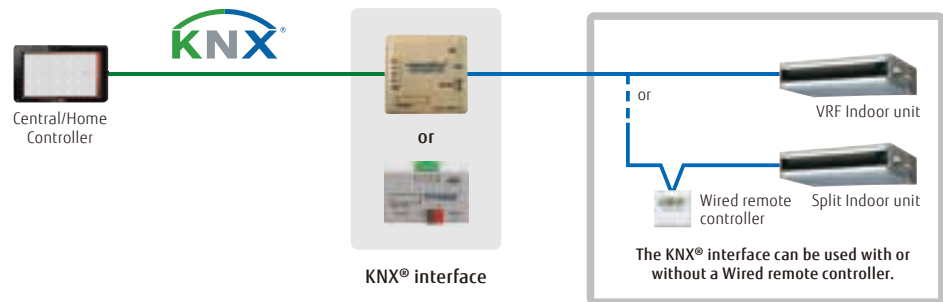
Intesis
BY THE WAY OF THE FUTURE



FG-AC-KNX1Z1
(CN connector type)

Installation example

[3-wire RC-line type/CN connector type]

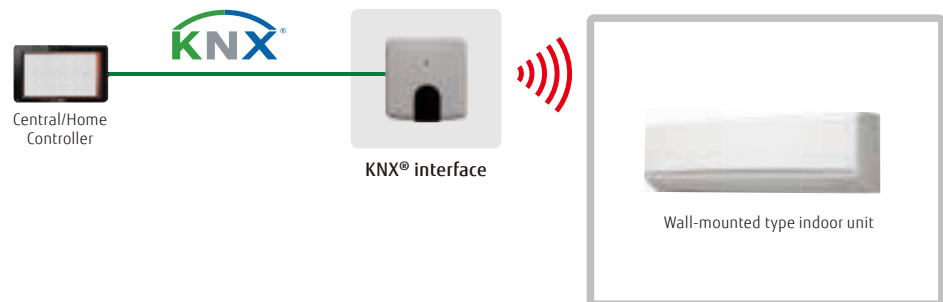


Intesis
BY THE WAY OF THE FUTURE



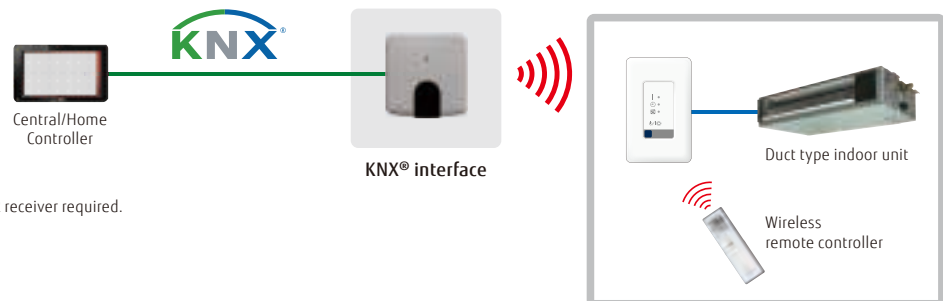
FG-IR-KNX1Z1
(IR type)

[IR type] Connection to wall-mounted type



Up to
1 indoor unit

[IR type] Connection to a product other than wall-mounted type



Specifications

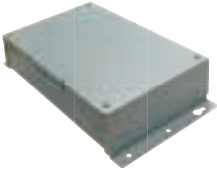
Model name	FG-RC-KNX1Z1 (3-wire RC-line type)	FG-AC-KNX1Z1 (CN connector type)	FG-IR-KNX1Z1 (IR type)
Number of controllable groups	1	1	1
Dimensions (H × W × D) (mm)	70 × 70 × 28	45 × 59 × 21	81 × 78 × 28
Weight (g)	70	35	76

Network converter for single-split type

UTY-VTGX/UTY-VTGXV



UTY-VTGX
DC power supply type



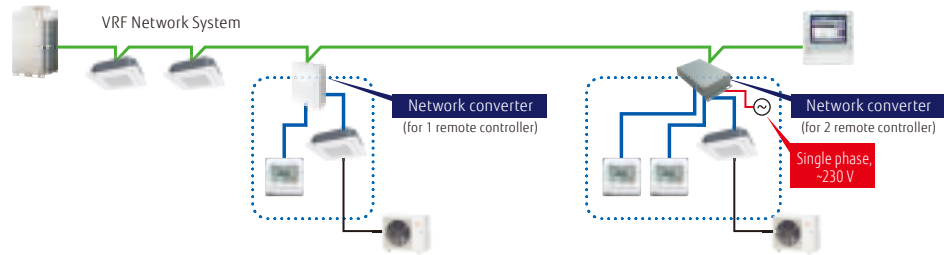
UTY-VTGXV
AC power supply type

Up to
16 single indoor units
Up to
1 group
Up to
100 Network Converters

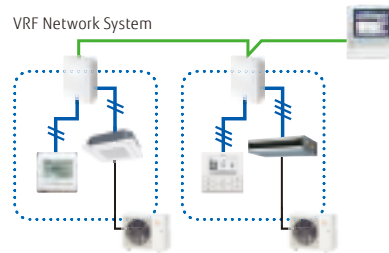
- A network converter is required when connecting a single-split system to a VRF network system.
- Compact and lightweight design
- Connectable to both nonpolar 2-core and polar 3-core remote controllers

Installation example

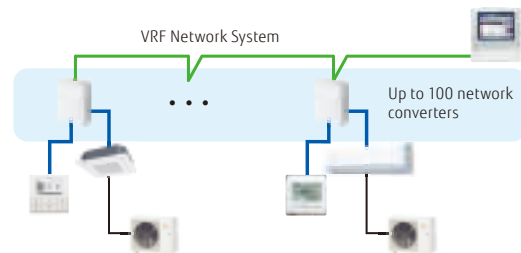
- A 1-remote-controller type and a 2-remote-controller type are available.
- Power supply (220 to 240 V AC, 50/60 Hz) is required for the 2-remote-controllers type.



- Both nonpolar 2-core and polar 3-core type Wired remote controllers can be connected.



- Central control can be provided for single-split systems. (Up to 100 network converters can be connected in a VRF network system)

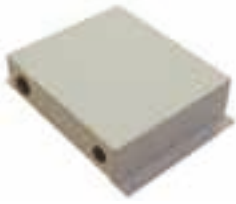


Specifications

Model name	UTY-VTGX		UTY-VTGXV
Power supply	Polar 3-core 12 V DC	Nonpolar 2-core DC 12 V	Single phase ~220 to 240 V 50/60 Hz
Input power (W)	Max. 1.2 W		Max. 3
Dimensions (H × W × D) (mm)	140 × 117 × 43		54 × 260 × 150
Weight (g)	250		1,100

Network converter for LONWORKS™

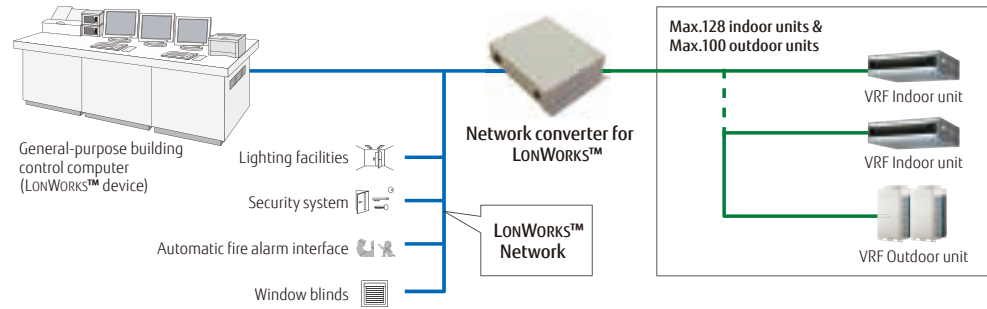
UTY-VLGX



- Connects the VRF network system to a LONWORKS™ open network to manage small and mid-sized BMS and VRF network system.
- The UTY-VLGX enables centralized monitoring and control of VRF network system from a BMS via a LONWORKS™ interface.
- Up to 128 Indoor units can be connected to one network converter for LONWORKS™

Up to
4 units to BMS
Up to
100 outdoor units
Up to
128 indoor units

Installation example



Specifications

Model name	UTY-VLGX
Power supply	Single phase ~208 to 240 V 50/60 Hz
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 (available from Echelon® Corporation)
Transmission line form	Free topology
Terminal resistor	None (converter to be attached at the terminal of a network)

External switch controller

UTY-TERX



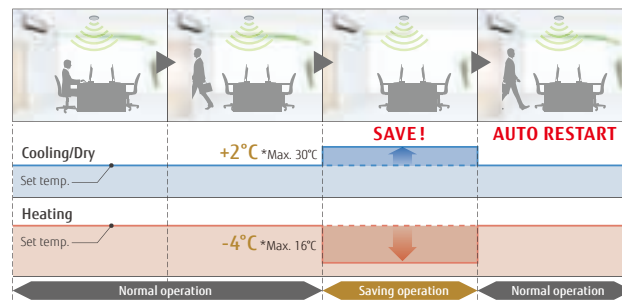
Up to
1 group

Air conditioner switching can be controlled by connecting this external switch controller to other sensor switches.

- In combination with a commercially available card-key switch or other sensors, this External switch controller enables the control of ON/OFF, room temperature, and fan speed of connected air conditioners as well as master control functions. This makes this product an ideal choice for use in hotel rooms.
- Card key or other sensor switches are locally available.
- The set temperature can be specified at two points each for cooling and heating operations (4 points in total).

Installation example

Occupancy sensor monitors the movement of a person in a room. When it detects that the person has left the room, it switches the air conditioner to low-capacity mode. When a person returns to the room, the air conditioner returns to the previous operation mode.



Occupancy sensor equipment needs to be purchased separately.
Occupancy sensor is not mounted on an External switch controller.

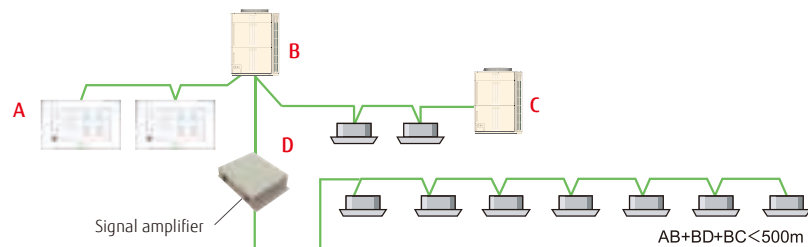
Signal amplifier

UTY-VSGXZ1



- The transmission line can be extended up to 3,600 m using multiple Signal amplifiers.
- Up to 8 Signal amplifiers can be added 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	UTY-TERX
Power supply	Single phase ~208 to 240 V 50/60 Hz	6.5 to 16 V DC
Power consumption (W)	4.5	-
Dimensions (H × W × D) (mm)	67 × 288 × 211	140 × 117 × 43
Weight (g)	1,500	250

12 V DC supplied by an indoor unit



Controller system list (available) for Split/Multi-split

Controller Options/Accessories:

Type	Refrigerant	Indoor unit									
		Designer Series			Standard Series			ECO Series	Compact 4-way flow Series	Cassette	Duct
		ASYG 07/09/12/14 KGTf	ASYG 07/09/12/14 KETf, KETf-B	ASYG 07/09/12/14 KMCF	ASYG 18/24KMTE	ASYH 30/36KMTB	ASYG 07/09/12 KPCE	AUXG 09/12/14/ 18/22/24 KVL A	AUXG 18/22/24/30/ 36/45/54 KRLB	ARXG 09/12/14/18 KLLAP	
Controllers											
											
		● UTY-RNRYZ5+ UTY-TWRXZ2							● UTY-RNRYZ5		
		● UTY-RLRY+ UTY-TWRXZ2							● UTY-RLRY		
		● UTY-RCRYZ1+ UTY-TWRXZ2							● UTY-RCRYZ1		
									● UTY-RVNYM		
									● UTY-RNNYM		
	 Nonpolar 2-core type Polar 3-core type	● UTY-RSRY UTY-RHRY+ UTY-TWRXZ2							● UTY-RSRY, UTY-RHRY, UTY-RSNYM		
											
									● UTY-LNTY		
IR receiver unit with Wireless remote controller	 For Duct type										
	 For Duct type For Cassette type For Ceiling type								● UTY-LBTYC		● UTY-LBTYM























Indoor unit											Outdoor unit
Duct					Floor	Ceiling	Multi-split				Single phase
Medium static pressure (Compact)	Medium static pressure (Standard)	High static pressure		BIG			Wall-mounted	Compact cassette	Mini duct	Slim duct	5/6-unit multi-split
ARXG 12/14/18/22/24/ 30/36/45/54 KHTAP	ARXG22KMLB, ARXG 24/30/36/45 KMLA	ARXG 45/54KHTB			AGYG 09/12/14 KVCA	ABYG 18/22/24/30/ 36/45/54 KRTA	ASYG 22KMTE	AUXG 07KVLA	ARXG 07/09/12/14/18 KSLAP	ARXG 07KLLAP	AOYG36KBTAS
			ARYG 60LHTA	ARYG 72/90LHTA							AOYG45LBLA6
	● UTY-RNRYZ5			● UTY-RNRYZ5	● UTY-RNRYZ5+ UTY-TWRXZ3	● UTY-RNRYZ5	● UTY-RNRYZ5+ UTY-TWRXZ2		● UTY-RNRYZ5		
	● UTY-RLRY			● UTY-RLRY	● UTY-RLRY+ UTY-TWRXZ3	● UTY-RLRY	● UTY-RLRY+ UTY-TWRXZ2		● UTY-RLRY		
	● UTY-RCRYZ1			● UTY-RCRYZ1	● UTY-RCRYZ1+ UTY-TWRXZ3	● UTY-RCRYZ1	● UTY-RCRYZ1+ UTY-TWRXZ2		● UTY-RCRYZ1		
	● UTY-RVNYM			● UTY-RVNYM					● UTY-RVNYM		
	● UTY-RNNYM			● UTY-RNNYM					● UTY-RNNYM		
● UTY-RSRY, UTY-RHRY, 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			
											● UTY-DMMYM1*3 (KBTAS) UTY-DMMYM*3 (LBLA6)
							● UTY-LNTY				
			● UTY-LRHYM								
● UTY-LBTYM				● UTY-LBTYM		● UTY-LBTYH			● UTY-LBTYM		

*1: Available only when the WLAN adapter (UY-TFSXF2) is removed. *2 Available only when the WLAN adapter (UTY-TFSXZ1) is removed. *3 Consult your dealer for conditions of use.

Controller system list (available) for Split/Multi-split

Controller Options/Accessories:

Type	Refrigerant	Indoor unit																		
		Wall-mounted						Cassette		Duct										
		Designer Series		Standard Series		ECO Series		Compact 4-way flow Series	Circular flow Series	Slim										
		ASYG 07/09/12/14 KGTF	ASYG 07/09/12/14 KGTF, KGTF-B	ASYG 07/09/12/14 KMGF	ASYG 18/24KMT E	ASYH 30/36KMT B	ASYG 07/09/12 KPCE	ASYG 18/24KLCA	AUXG 09/12/14/18/22/24 KVLA	AUXG 18/22/24/30/36/45/54 KRLB	ARXG 09/12/14/18 KLLAP									
Interfaces	MODBUS® Converter										● UTY-VMSX								● UTY-VMSX	
	MODBUS® Interface	 										● FG-AC-MBS1Z1							● FG-RC-MBS1Z1 FG-AC-MBS1Z1	
												● FG-IR-BMG1Z1							● FG-IR-BMG1Z1+ UTY-LBTYC	● FG-IR-BMG1Z1+ UTY-LBTYM
	KNX® converter										● UTY-VKSX								● UTY-VKSX	
	KNX® interface	 										● FG-AC-KNX1Z1							● FG-RC-KNX1Z1 FG-AC-KNX1Z1	
												● FG-IR-KNX1Z1							● FG-IR-KNX1Z1+ UTY-LBTYC	● FG-IR-KNX1Z1+ UTY-LBTYM
	WLAN adapter	 																		● UTY-TFSXJ3 UTY-TFSXZ1
					● Accessory							● UTY-TFSXH3 UTY-TFSXF2								
		 										● FG-AC-WIF1Z1								● FG-RC-WIF1Z2 FG-AC-WIF1Z1
												● FG-IR-WIF1Z1								● FG-IR-WIF1Z1+ UTY-LBTYC
 											● FG-AC-WMP1Z1								● FG-RC-WMP1Z1 FG-AC-WMP1Z1	
											● FG-IR-WMP1Z1								● FG-IR-WMP1Z1+ UTY-LBTYC	● FG-IR-WMP1Z1+ UTY-LBTYM
External switch controller										● UTY-TERX+UTY-TWRXZ2								● UTY-TERX		
Network converter for single-split type	 									● UTY-VTGX+UTY-TWRXZ2 or UTY-VTGXV+UTY-TWRXZ2								● UTY-VTGX UTY-VTGXV		




Indoor unit										
Duct				BIG	Floor	Ceiling	Multi-split			
Medium static pressure (Compact)	Medium static pressure (Standard)	High static pressure					Wall-mounted	Compact cassette	Mini duct	Slim duct
ARXG 12/14/18/22/24/ 30/36/45/54 KHTAP	ARXG22KMLB, ARXG 24/30/36/45 KMLA	ARXG 45/54KHTB		ARYG 60LHTA	ARYG 72/90LHTA		ASYG 22KMTE	AUXG 07KVLA	ARXG 07/09/12/14/18 KSLAP	ARXG 07KLLAP
	● UTY-VMSX				● UTY-VMSX	● UTY-VMSX*2	● UTY-VMSX	● UTY-VMSX*1		● UTY-VMSX
● FG-RC-MBS1Z1 FG-AC-MBS1Z1		● FG-AC-MBS1Z1	● FG-RC-MBS1Z1	● FG-RC-MBS1Z1 FG-AC-MBS1Z1		● FG-AC-MBS1Z1				● FG-RC-MBS1Z1 FG-AC-MBS1Z1
● FG-IR-BMG1Z1+ UTY-LBTYM			● FG-IR-BMG1Z1+ UTY-LRHYM		● FG-IR-BMG1Z1	● FG-IR-BMG1Z1+ UTY-LBTYH	● FG-IR-BMG1Z1			● FG-IR-BMG1Z1+ UTY-LBTYM
● UTY-VKSX			● UTY-VKSX	● UTY-VKSX	● UTY-VKSX*2	● UTY-VKSX	● UTY-VKSX*1			● UTY-VKSX
● FG-RC-KNX1Z1 FG-AC-KNX1Z1	● FG-AC-KNX1Z1	● FG-RC-KNX1Z1	● FG-RC-KNX1Z1 FG-AC-KNX1Z1		● FG-AC-KNX1Z1					● FG-RC-KNX1Z1 FG-AC-KNX1Z1
● FG-IR-KNX1Z1+ UTY-LBTYM	● FG-AC-KNX1Z1+ UTY-LBTYM	● FG-IR-KNX1Z1+ UTY-LRHYM		● FG-IR-KNX1Z1	● FG-IR-KNX1Z1+ UTY-LBTYH	● FG-IR-KNX1Z1				● FG-IR-KNX1Z1+ UTY-LBTYM
● UTY-TFSXJ3 UTY-TFSXZ1		● UTY-TFNXZ1		● UTY-TFSXJ3 UTY-TFSXZ1						● UTY-TFSXJ3 UTY-TFSXZ1
							● UTY-TFSXH3 UTY-TFSXF2			
● FG-RC-WIF1Z2 FG-AC-WIF1Z1	● FG-AC-WIF1Z1	● FG-RC-WIF1Z2	● FG-RC-WIF1Z2 FG-AC-WIF1Z1		● FG-AC-WIF1Z1					● FG-RC-WIF1Z2 FG-AC-WIF1Z1
● FG-IR-WIF1Z1+ UTY-LBTYM		● FG-IR-WIF1Z1+ UTY-LRHYM		● FG-IR-WIF1Z1	● FG-IR-WIF1Z1+ UTY-LBTYH	● FG-IR-WIF1Z1				● FG-IR-WIF1Z1+ UTY-LBTYM
● FG-RC-WMP1Z1 FG-AC-WMP1Z1	● FG-AC-WMP1Z1	● FG-RC-WMP1Z1	● FG-RC-WMP1Z1 FG-AC-WMP1Z1		● FG-AC-WMP1Z1					● FG-RC-WMP1Z1 FG-AC-WMP1Z1
● FG-IR-WMP1Z1+ UTY-LBTYM		● FG-IR-WMP1Z1+ UTY-LRHYM		● FG-IR-WMP1Z1	● FG-IR-WMP1Z1+ UTY-LBTYH	● FG-IR-WMP1Z1				● FG-IR-WMP1Z1+ UTY-LBTYM
	● UTY-TERX				● UTY-TERX+ UTY-TWRXZ3	● UTY-TERX	● UTY-TERX+ UTY-TWRXZ2			● UTY-TERX
	● UTY-VTGX UTY-VTGXV				● UTY-VTGX+ UTY-TWRXZ3 UTY-VTGXV+ UTY-TWRXZ3	● UTY-VTGX UTY-VTGXV	● UTY-VTGX+ UTY-TWRXZ2 or UTY-VTGXV+ UTY-TWRXZ2			● UTY-VTGX UTY-VTGXV

*1: Available only when the WLAN adapter (UY-TFSXF2) is removed. *2: Available only when the WLAN adapter (UTY-TFSXZ1) is removed.

Controller System List (available) for VRF

Controller Options:

Type	Refrigerant	Indoor unit									
		Cassette					Duct				
		One-way flow	3D flow	Compact Grid type/ Standard type	Slim type	Large type	Low static pressure duct			Medium static pressure	
					Circular flow		Mini (With drain pump)	Slim (With drain pump)		High Efficiency	Normal
	AUXV 004/007/009/ 012/014/018/ 024GLEH	AUXS 018/024 GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXM 018/024/030 GLEH	AUXK 018/024/030/ 034/036/045/ 054GLEH	ARXK 004/007/009/ 012/014/018/ 024GLEH	ARXD 04GALH	ARXD 007/009/012/ 014/018/024 GLEH	ARXP 018/030 GLFH	ARXA 024/030/ 036/045 GLEH	
Controllers	Wired remote controller	● UTY-RNRYZ5									
		● UTY-RLRY									
		● UTY-RCRYZ1									
	Simple remote controller	● UTY-RSRY UTY-RHRY									
		● UTY-LNHY									
	Wireless remote controller	● UTY-LNHY									
		IR receiver unit	● UTY-TRHX		● UTY-LBHDX			● UTY-TRHX		● UTB-YWC	
	Central remote controller		● UTY-DCGVZ2								
	Touch panel controller	● UTY-DTGVZ1									
System controller, System controller Lite	● UTY-APGXZ1, UTY-ALGXZ1										



Indoor unit											
Duct		Floor		Ceiling/ Floor	Ceiling	Wall-mounted					
High static pressure		-	External EEV			-	External EEV	-	External EEV	-	-
Normal											
ARXC 036/072/ 090/096 GTEH	ARXC 045/060GTEH	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	ASYA 004/007/009 GCGH	ASYE 004/007/009 GCEH	ASYA 012/014GCGH	ASYE 012/014GCEH	ASYA 18/24GBCH	ASYA 030/034GTEH

●
UTY-RNRZ5

●
UTY-RLRY

●
UTY-RCRYZ1

●
UTY-RSRY
UTY-RHRY

●
UTY-LNHY

●
UTY-TRHX

●
UTB-YWC




















●
UTY-DCGYZ2

●
UTY-DTGYZ1

●
UTY-APGXZ1, UTY-ALGXZ1

Controller System List (available) for VRF

Controller Options:

Type	Refrigerant	Indoor unit										
		Cassette					Duct					
		One-way flow	3D flow	Compact Grid type/ Standard type	Slim type		Large type		Low static pressure duct			Medium static pressure
					Circular flow		Mini (With drain pump)	Slim (With drain pump)		High Efficiency	Normal	
	AUXV 004/007/009/ 012/014/018/ 024GLEH	AUXS 018/024 GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXM 018/024/030 GLEH	AUXK 018/024/030/ 034/036/045/ 054GLEH	ARXK 004/007/009/ 012/014/018/ 024GLEH	ARXD 04GALH	ARXD 007/009/012/ 014/018/024 GLEH	ARXP 018/030 GLFH	ARXA 024/030/ 036/045 GLEH		
Interfacing		● UTY-ABGXZ1, UTY-VBGX										
	 CN connector type	● FG-AC-BAC1Z1					● FG-AC-BAC1Z1					
		● FG-IR-BMG1Z1+ UTY-TRHX	● FG-IR-BMG1Z1	● FG-IR-BMG1Z1+ UTY-LBHDX	● FG-IR-BMG1Z1+ UTY-TRHX	● FG-IR-BMG1Z1+ UTB-YWC	● FG-IR-BMG1Z1+ UTY-TRHX					
Network converter for LonWorks™		● UTY-VLGX										
MODBUS® Converter		● UTY-VMSX					● UTY-VMSX					
		● UTY-VMGX FG-TL-MBS16Z1										
MODBUS® interface	 3-wire RC line type	● FG-AC-MBS1Z1					● FG-RC-MBS1Z1	● FG-AC-MBS1Z1				
		● FG-IR-BMG1Z1+ UTY-TRHX	● FG-IR-BMG1Z1	● FG-IR-BMG1Z1+ UTY-LBHDX	● FG-IR-BMG1Z1+ UTY-TRHX	● FG-IR-BMG1Z1+ UTB-YWC	● FG-IR-BMG1Z1+ UTY-TRHX					
KNX® converter		● UTY-VKXS					● UTY-VKXS					
		● UTY-VKGX FG-TL-KNX16Z1										
KNX® interface	 3-wire RC line type	● FG-AC-KNX1Z1					● FG-RC-KNX1Z1	● FG-AC-KNX1Z1				
		● FG-IR-KNX1Z1+ UTY-TRHX	● FG-IR-KNX1Z1	● FG-IR-KNX1Z1+ UTY-LBHDX	● FG-IR-KNX1Z1+ UTY-TRHX	● FG-IR-KNX1Z1+ UTB-YWC	● FG-IR-KNX1Z1+ UTY-TRHX					
WLAN adapter		● UTY-TFSXJ3 UTY-TFSXZ1					● UTY-TFSXJ3 UTY-TFSXZ1 (007-024)		● UTY-TFSXJ3 UTY-TFSXZ1			
	 3-wire RC line type	● FG-AC-WIF1Z1					● FG-RC-WIF1Z2	● FG-AC-WIF1Z1				
		● FG-IR-WIF1Z1+ UTY-TRHX	● FG-IR-WIF1Z1	● FG-IR-WIF1Z1+ UTY-LBHDX	● FG-IR-WIF1Z1+ UTY-TRHX	● FG-IR-WIF1Z1+ UTB-YWC	● FG-IR-WIF1Z1+ UTY-TRHX					
	 3-wire RC line type	● FG-AC-WMP1Z1					● FG-RC-WMP1Z1	● FG-AC-WMP1Z1				
		● FG-IR-WMP1Z1+ UTY-TRHX	● FG-IR-WMP1Z1	● FG-IR-WMP1Z1+ UTY-LBHDX	● FG-IR-WMP1Z1+ UTY-TRHX	● FG-IR-WMP1Z1+ UTB-YWC	● FG-IR-WMP1Z1+ UTY-TRHX					
External switch controller		● UTY-TERX										



Indoor unit													
Duct		Floor		Ceiling/ Floor	Ceiling	Wall-mounted							
High static pressure		-	external EEV			-	external EEV	-	external EEV	-	-		
Normal				AGYA	AGYE							ABYA	ABYA
ARXC 036/072/ 090/096 GTEH	ARXC 045/060GTEH	004/007/ 009/012/014 GCGH	004/007/ 009/012/014 GCEH	012/014/ 018/024 GTEH	030/036/ 045/054 GTEH	004/007/009 GCGH	004/007/009 GCEH	012/014GCGH	012/014GCEH	18/24GBCH	030/034GTEH		
● UTY-ABGXZ1, UTY-VBGX													
				● FG-AC-BAC1Z1								● FG-AC-BAC1Z1	
● FG-IR-BMG1Z1+ UTB-YWC		● FG-IR-BMG1Z1+ UTY-TRHX		● FG-IR-BMG1Z1									
● UTY-VLGX													
				● UTY-VMSX								● UTY-VMSX	
● UTY-VMGX FG-TL-MBS16Z1													
				● FG-AC-MBS1Z1				● FG-RC-MBS1Z1		● FG-AC-MBS1Z1			
● FG-IR-BMG1Z1+ UTB-YWC		● FG-IR-BMG1Z1+ UTY-TRHX		● FG-IR-BMG1Z1									
				● UTY-VKSX								● UTY-VKSX	
● UTY-VKGX FG-TL-KNX16Z1													
				● FG-AC-KNX1Z1				● FG-RC-KNX1Z1		● FG-AC-KNX1Z1			
● FG-IR-KNX1Z1+ UTB-YWC		● FG-IR-KNX1Z1+ UTY-TRHX		● FG-IR-KNX1Z1									
				● UTY-TFSXJ3 UTY-TFSXZ1								● UTY-TFSXJ3 UTY-TFSXZ1	
				● FG-AC-WIF1Z1				● FG-RC-WIF1Z2		● FG-AC-WIF1Z1			
● FG-IR-WIF1Z1+ UTB-YWC		● FG-IR-WIF1Z1+ UTY-TRHX		● FG-IR-WIF1Z1									
				● FG-AC-WMP1Z1				● FG-AC-WMP1Z1		● FG-AC-WMP1Z1			
● FG-IR-WMP1Z1+ UTB-YWC		● FG-IR-WMP1Z1+ UTY-TRHX		● FG-IR-WMP1Z1									
● UTY-TERX													

Optional parts overview

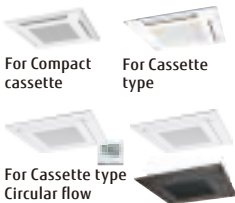
For Split & Multi-split, VRF

A variety of optional parts are available to enable installation of the selected indoor unit properly according to the environment.

Optional Parts For Cassette



Occupancy sensor kit
A built-in thermo sensor monitors and controls room temperature accurately.



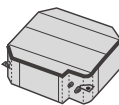
Cassette grille
A lineup of cassette grilles that match a variety of interiors. A grid ceiling-type cassette grille has been added to the lineup.



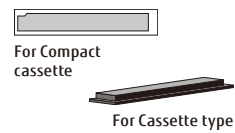
Silver ion filter
The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.*



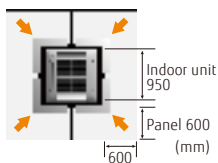
Fresh air intake kit
Fresh air can be taken in by a fan connected to an external control unit.



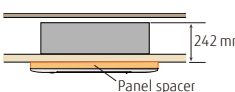
Insulation kit for high humidity
for Compact cassette type/Cassette type
Insulation kit for high humidity is used when the installation location is in a high humidity environment.



Air outlet shutter plate
Airflow directions can be changed to 3 directions using the Air outlet shutter plate depending on the installation location.



Wide Panel
When a cassette type is installed in a narrow space in the ceiling, the wide panel fills in that space.

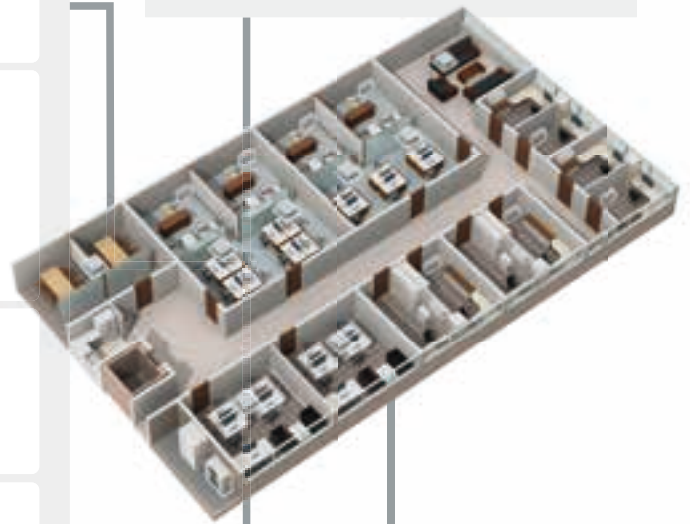


Panel spacer
If the ceiling space is tight and the main body protrudes from the ceiling surface, a panel spacer can be used as a decorative trim.

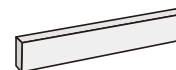
Optional Parts For V-IV



Pressure sensor kit
The height difference of the pressure sensor kit can be extended up to 110 m.



Optional Parts For Floor



Half concealed kit
Used to half conceal a floor type indoor unit in the wall.



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



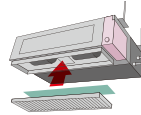
Optional Parts For Duct & Ceiling



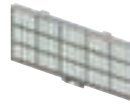
Auto louver grille kit
The optional clean-looking flat Auto louver grille blends into any interior and provides a comfortable airflow.



Remote sensor unit
The remote sensor provides additional convenience.



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



Long-life filter
Captures grit and dust. Long-life design with consideration of running costs.



Flange
Flanges are used when connecting a medium static pressure duct type and a ceiling type with air intake and exhaust ducts.



Drain pump unit
Drains water that has accumulated during operation.

Connection Parts



For wall-mounted type

Communication kit
Required for a wall-mounted type when the External connect kit set or a Wired remote controller is connected to the indoor unit.



For wall-mounted type

External input and output PCB

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

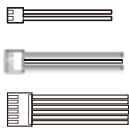


For Duct type and Cassette type



External input and output PCB box & bracket

Box and bracket for installing the External input and output PCB.



External connect kit & set
Connect the printed circuit board (PCB) to external devices.



Connection Units
Connection units are available to separate the pipes when connecting multiple indoor units in a Multi-split type or VRF system.



External power supply unit
The External power supply unit protects the increment in the system even if the power supply for some of the indoor units is shut down.

*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



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

For Cassette
UTD-HFAA / UTD-HFRA

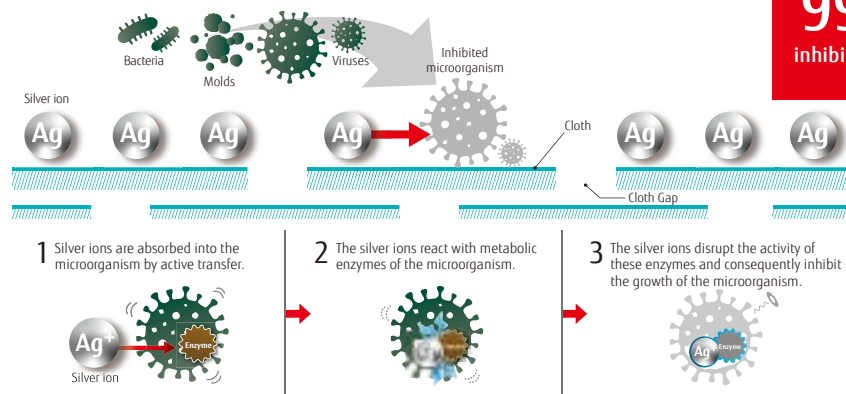
For Duct
UTD-HFTA / UTD-HFTB
UTD-HFTC / UTD-HFNC
UTD-HFNB / UTD-HFNA
UTD-HFND / UTD-HFKB
UTD-HFKA

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 × W × D)	mm	35 × 210 × 6	50 × 364 × 6	43 × 272 × 6	350 × 125 × 6	550 × 136 × 6
Weight	g	2	2	2	7	23
Quantity		2	2	2	1	1

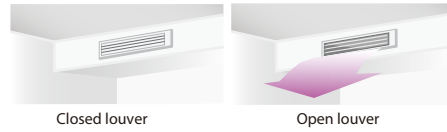
Model name		for Duct								
		UTD-HFTA	UTD-HFTB	UTD-HFTC	UTD-HFNC	UTD-HFNB	UTD-HFNA	UTD-HFND	UTD-HFKB	UTD-HFKA
Net Dimension (H × W × D)	mm	290 × 70 × 6	390 × 70 × 6	290 × 70 × 6 390 × 70 × 6	620 × 88 × 6	420 × 88 × 6	620 × 88 × 6	500 × 79 × 6	420 × 125 × 6	620 × 108 × 6
Weight	g	6	8	10	8	10	16	12	16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

Auto louver grille kit

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

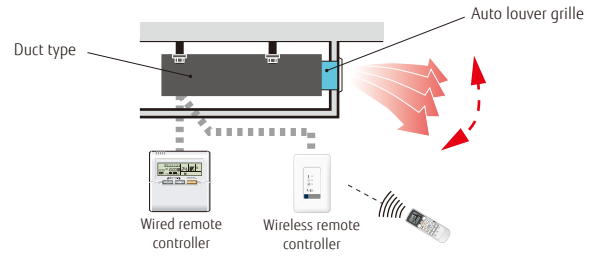


The optional clean-looking flat Auto louver grille kit blends into any interior and provides a comfortable airflow.

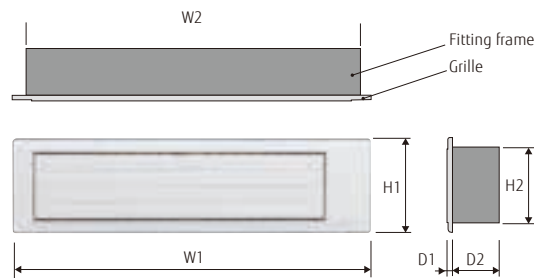


Flexible Control

- The Auto louver grille of the indoor unit can be operated in conjunction with the remote control of the indoor unit.
- **Vertical auto swing**
 - Auto airflow direction and auto swing
 - 4 steps selectable
- **Auto-closing louver**
The louvers will automatically close when the indoor unit stops operating.



Dimensions



Unit: mm

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

Specifications

Model name			UTD-GXTA-W	UTD-GXTB-W	UTD-GXTC-W
Applicable indoor unit			ARYG07/09LLTA ARYG12/14LLTB ARXG09/12/14KLLAP ARYG07/09/12/14LSLAP ARXD007/009/012/014GLEH (for VRF) ARXK004/007/009/012/014GLEH (for VRF) ARXD04GALH (for VRF)	ARYG18LLTB ARXG18KLLAP ARYG18LSLAP ARXD018GLEH (for VRF) ARXK018GLEH (for VRF)	ARXD024GLEH (for VRF) ARXK024GLEH (for VRF)
Power supply			Connecting with Control box of indoor unit		
Fixing Auto louver grille			Screwed to Flange or Square duct		
Extension Square duct limit			1.0 m (Max. duct length between indoor unit and Auto louver grille)		
Net Dimensions (H × W × D)		mm	180 × 683 × (84 + 9)	180 × 883 × (84 + 9)	180 × 1,083 × (84 + 9)
Weight	Net	kg (lbs)	2.0 (4.4)	2.5 (5.6)	3.0 (6.7)
	Gross		3.0 (6.7)	3.5 (7.8)	4.0 (8.9)
Color			White		
Louver motor			Stepping motor		
Accessories			Fitting Flame, etc.		
Operating range	Cooling	°C	18 to 32		
		% RH	80 % or less		
	Heating	°C	16 to 30		

Pressure sensor kit

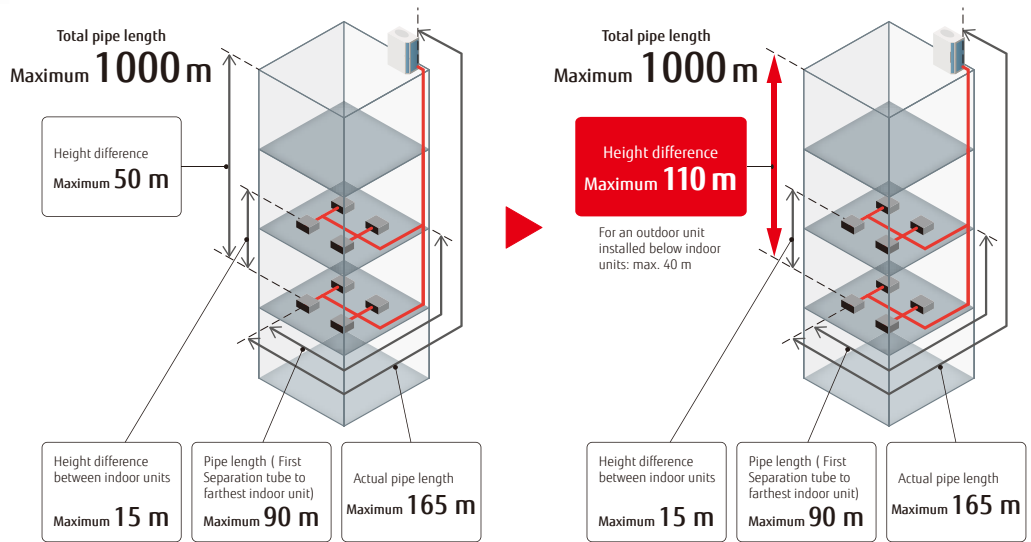
UTY-SPWX



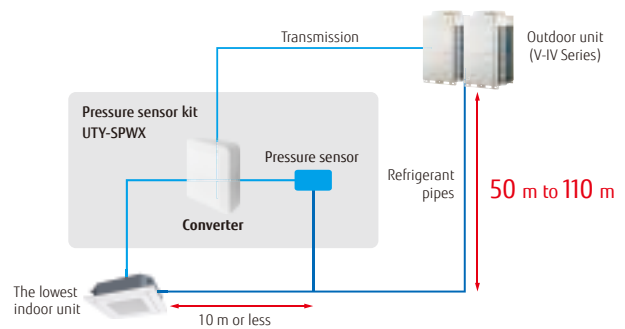
Design flexibility

The height difference between the outdoor unit and the indoor unit is normally 50 m for the V-IV Series, but can be extended to 110 m by installing the Pressure sensor kit.

(Can only be connected to the V-IV Series. Also, it can only be connected to outdoor units using outdoor unit software compatible with the product.)



System overview



Pressure sensor kit

Pressure sensor kit (Converter)	Refrigerant pressure sensor	Joint pipe

Specifications

Model name	UTY-SPWX
Power supply	9 to 16 V DC
Dimensions (H × W × D) (mm)	140 × 117 × 43
Weight (g)	200

External power supply unit

UTZ-GXXA / UTZ-GXXC



The External power supply unit protects the increment in the system even if the power supply for some of the indoor units is shut down.

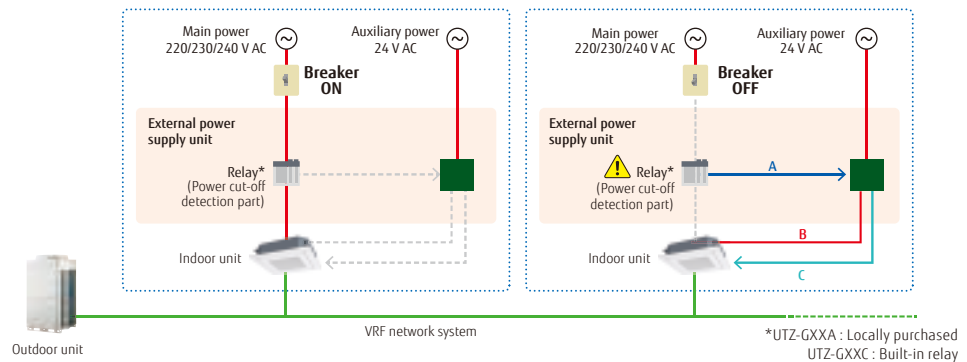
Connects to the External power supply unit to supply power to the indoor unit from the auxiliary power supply. This allows for continuous operation without system errors.

Built-in relays reduce installation time and cost.

The UTZ-GXXC has a built-in relay, which reduces installation time and cost.

High reliability

- A: Interruption of the main power supply is detected by the power cut-off detection part.
- B: Supplies power for driving the expansion valve of the indoor unit. (12 V or 5 V DC)
- C: Gives notification of the power supply from the External power supply unit.



Note

- When changing the power supply voltage to 24 V AC, use a power transformer with an insulated structure that complies with the regulations* of the installation region.
- A powered-off indoor unit driven by the External power supply unit is treated in the same way as an operation-off unit in the electricity charge appointment function. If standby power is generated, the result of the electricity charge appointment may not be zero.

* UL Class II or IEC 61558 Class III, for example.

Specifications

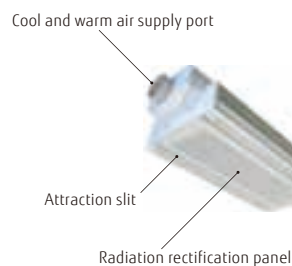
Model name	UTZ-GXXA	UTZ-GXXC
Power supply		24 V AC 50/60 Hz
Dimensions (H × W × D) (mm)		97 × 200 × 178
Weight (g)		800

AIR BEAM Radiation air outlet unit

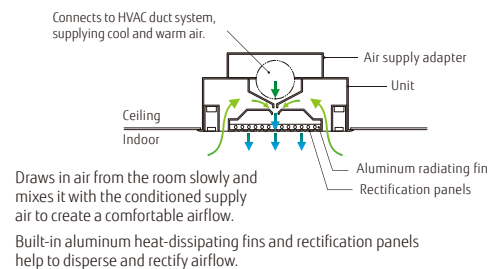
*Production by order
Contact us for more details.





Key component










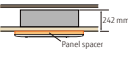
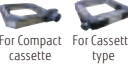






Cross-section view








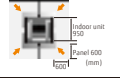
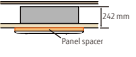





Airflow rate (m ³ /h)	180 (160-215)	270 (240-325)
Grid	600 × 2	600 × 3
AIR BEAM For system ceiling (Integrated type)	 KS-180	 KS-270

Optional parts list for Split/Multi-split

Type	Refrigerant	Indoor unit							
		Wall-mounted						Cassette	
		Designer Series		Standard Series		ECO Series		4-way flow Compact	Circular flow
		ASYG 07/09/12/14 KGTF	ASYG 07/09/12/14 KETF, KETF-B	ASYG 07/09/12/14 KMCF, ASYG18/24KMTE	ASYH30/36KMTB	ASYG 07/09/12 KPCE	ASYG18/24KLCA	AUXG 09/12/14/ 18/22/24 KVLA	AUXG 18/22/24/ 30/36/45/54 KRLB
Occupancy sensor kit									● UTY-SHZXC
Remote sensor unit	 The remote sensor provides additional convenience.								
Cassette grille	 UTG-UFYF-W UTG-UKYA-W UTG-UFYD-W UTG-UKYC-W UTG-UKYA-B							● UTG-UFYF-W	● UTG-UKYA-W, UTG-UKYC-W, UTG-UKYA-B
Auto louver grille kit									
Silver ion filter			● UTR-FA16-5		● UTR-FA13-3		● UTR-FA16-5	● UTD-HFAA	● UTD-HFRA
Long-life filter									
Flange									
Drain pump unit									
Wide Panel	 Indoor unit 950 Panel 600 (mm)								● UTG-AKXA-W
Panel spacer	 2x2 mm Panel spacer								● UTG-BKXA-W
Fresh air intake kit	 For Compact cassette For Cassette type							● UTZ-VXAA	● UTZ-VXRA
Air outlet shutter plate	 For Compact cassette For Cassette type							● UTR-YDZB	● UTR-YDZK
Insulation kit for high humidity	 For Compact cassette Series/ Cassette type							● UTZ-KXGC	● UTZ-KXRA
Half concealed kit	 Used to half conceal a floor type indoor unit in the wall.								
L-type piping kit									

Optional parts list for VRF

Type	Refrigerant	Indoor unit								
		Cassette					Duct			
		One-way flow	3D flow	Compact grid type/ Standard type	Slim type	Large type	Low static pressure duct			
					Circular flow		Mini (With drain pump)	Slim (With drain pump)		High Efficiency
	AUXV 004/007/009/ 012/014/018/ 024GLEH	AUXS 018/024GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	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 018/030 GLFH	
Occupancy sensor kit					● UTY-SHZXC					
Remote sensor unit							● UTY-XSZXZ1			
Cassette grille		● UTG-UNYA-W UTG-UNYB-W	● UTG-USYA-W	● UTG-UFYE-W UTG-UFYC-W	● UTG-UKYC-W UTG-UKYA-B					
Auto louver grille kit							● UTD-GXTA-W (4-14), UTD-GXTB-W (18), UTD-GXTC-W (24)			
Silver ion filter				● UTD-HFAA	● UTD-HFRA	● UTD-HFTA (004-014) UTD-HFTB (018) UTD-HFTC (024)	● UTD-HFTA	● UTD-HFTA (007-014) UTD-HFTB (018) UTD-HFTC (024)	● UTD-HFND	
Long-life filter									● UTD-LF25NA	
Flange									● UTD-SF045T UTD-RF204	
Drain Pump Unit									● UTZ-PX1NBA	
Wide Panel					● UTG-AKXA-W					
Panel spacer					● UTG-BKXA-W					
Fresh air intake kit*1				● UTZ-VXAA	● UTZ-VXRA					
Air outlet shutter plate:				● UTR-YDZB	● UTR-YDZX					
Insulation kit for high humidity				● UTZ-KXGC	● UTZ-KXRA					
Half concealed kit										
External power supply unit					● UTZ-GXXA UTZ-GXXC					
Pressure sensor kit										



Indoor unit											Outdoor unit
Medium static pressure	Duct		Floor		Floor/Ceiling	Ceiling	Wall-mounted				V-IV Series
	High static pressure	Normal		-			external EEV	-	external EEV	-	
Normal	Normal		-	external EEV	-	-	-	external EEV	-	-	-
ARXA 024/030/ 036/045 GLEH	ARXC 036/045/060 GTEH	ARXC 072/090/096 GTEH	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	ASYA 004/007/009 012/014 GCGH	ASYE 004/007/009 012/014 GCEH	ASYA 18/24GBCH	ASYA 030/034GTEH	AIY 072/090/108/ 126/144/162 LALDH
	● UTY-XSZXZ1										
● UTD-HFND	● UTD-HFKB		● UTR-FA03-5				● UTR-FA16-5		● UTR-FA13-3		
● UTD-LF25NA	● UTD-LF60KA										
● UTD-SF045T UTD-RF204						● UTD-RF204					
● UTZ-PX1NBA						● UTR-DPB24T					
			● UTR-STA								
										● UTZ-GXXA UTZ-GXXC	
											● UTZ-SPWX

Function list for Split/Multi-split

External input and output function/External connect kit/communication kit

Type	Refrigerant	Indoor unit												
		Wall-mounted						Cassette		Duct				
		Designer Series		Standard Series		ECO Series		Compact 4-way flow Series	Circular flow Series	Slim	Medium static pressure (Compact)	Medium static pressure (Standard)		
	ASYG 07/09/12/14 KGI-F	ASYG 07/09/12/14 KEIF, KEIF-B	ASYG 07/09/12/14 KMCF	ASYG 18/24KATE	ASVH 30/36KMTB	ASYG 07/09/12 KPCE	ASYG 18/24KLCA	AUXG 09/12/14/18/22/24 KVLA	AUXG 18/22/24/30/36/42/54KRLB	ARXG 09/12/14/18KLLAP	ARXG 12/14/18/22/24/30/36/45/54 KRTAP	ARXG 22/30/36/45/54/63/90/108/120/135/150/180/210/240/270/300/330/360/390/420/450/480/510/540/570/600/630/660/690/720/750/780/810/840/870/900/930/960/990/1020/1050/1080/1110/1140/1170/1200/1230/1260/1290/1320/1350/1380/1410/1440/1470/1500/1530/1560/1590/1620/1650/1680/1710/1740/1770/1800/1830/1860/1890/1920/1950/1980/2010/2040/2070/2100/2130/2160/2190/2220/2250/2280/2310/2340/2370/2400/2430/2460/2490/2520/2550/2580/2610/2640/2670/2700/2730/2760/2790/2820/2850/2880/2910/2940/2970/3000/3030/3060/3090/3120/3150/3180/3210/3240/3270/3300/3330/3360/3390/3420/3450/3480/3510/3540/3570/3600/3630/3660/3690/3720/3750/3780/3810/3840/3870/3900/3930/3960/3990/4020/4050/4080/4110/4140/4170/4200/4230/4260/4290/4320/4350/4380/4410/4440/4470/4500/4530/4560/4590/4620/4650/4680/4710/4740/4770/4800/4830/4860/4890/4920/4950/4980/5010/5040/5070/5100/5130/5160/5190/5220/5250/5280/5310/5340/5370/5400/5430/5460/5490/5520/5550/5580/5610/5640/5670/5700/5730/5760/5790/5820/5850/5880/5910/5940/5970/6000/6030/6060/6090/6120/6150/6180/6210/6240/6270/6300/6330/6360/6390/6420/6450/6480/6510/6540/6570/6600/6630/6660/6690/6720/6750/6780/6810/6840/6870/6900/6930/6960/6990/7020/7050/7080/7110/7140/7170/7200/7230/7260/7290/7320/7350/7380/7410/7440/7470/7500/7530/7560/7590/7620/7650/7680/7710/7740/7770/7800/7830/7860/7890/7920/7950/7980/8010/8040/8070/8100/8130/8160/8190/8220/8250/8280/8310/8340/8370/8400/8430/8460/8490/8520/8550/8580/8610/8640/8670/8700/8730/8760/8790/8820/8850/8880/8910/8940/8970/9000/9030/9060/9090/9120/9150/9180/9210/9240/9270/9300/9330/9360/9390/9420/9450/9480/9510/9540/9570/9600/9630/9660/9690/9720/9750/9780/9810/9840/9870/9900/9930/9960/9990/10020/10050/10080/10110/10140/10170/10200/10230/10260/10290/10320/10350/10380/10410/10440/10470/10500/10530/10560/10590/10620/10650/10680/10710/10740/10770/10800/10830/10860/10890/10920/10950/10980/11010/11040/11070/11100/11130/11160/11190/11220/11250/11280/11310/11340/11370/11400/11430/11460/11490/11520/11550/11580/11610/11640/11670/11700/11730/11760/11790/11820/11850/11880/11910/11940/11970/12000/12030/12060/12090/12120/12150/12180/12210/12240/12270/12300/12330/12360/12390/12420/12450/12480/12510/12540/12570/12600/12630/12660/12690/12720/12750/12780/12810/12840/12870/12900/12930/12960/12990/13020/13050/13080/13110/13140/13170/13200/13230/13260/13290/13320/13350/13380/13410/13440/13470/13500/13530/13560/13590/13620/13650/13680/13710/13740/13770/13800/13830/13860/13890/13920/13950/13980/14010/14040/14070/14100/14130/14160/14190/14220/14250/14280/14310/14340/14370/14400/14430/14460/14490/14520/14550/14580/14610/14640/14670/14700/14730/14760/14790/14820/14850/14880/14910/14940/14970/15000/15030/15060/15090/15120/15150/15180/15210/15240/15270/15300/15330/15360/15390/15420/15450/15480/15510/15540/15570/15600/15630/15660/15690/15720/15750/15780/15810/15840/15870/15900/15930/15960/15990/16020/16050/16080/16110/16140/16170/16200/16230/16260/16290/16320/16350/16380/16410/16440/16470/16500/16530/16560/16590/16620/16650/16680/16710/16740/16770/16800/16830/16860/16890/16920/16950/16980/17010/17040/17070/17100/17130/17160/17190/17220/17250/17280/17310/17340/17370/17400/17430/17460/17490/17520/17550/17580/17610/17640/17670/17700/17730/17760/17790/17820/17850/17880/17910/17940/17970/18000/18030/18060/18090/18120/18150/18180/18210/18240/18270/18300/18330/18360/18390/18420/18450/18480/18510/18540/18570/18600/18630/18660/18690/18720/18750/18780/18810/18840/18870/18900/18930/18960/18990/19020/19050/19080/19110/19140/19170/19200/19230/19260/19290/19320/19350/19380/19410/19440/19470/19500/19530/19560/19590/19620/19650/19680/19710/19740/19770/19800/19830/19860/19890/19920/19950/19980/20010/20040/20070/20100/20130/20160/20190/20220/20250/20280/20310/20340/20370/20400/20430/20460/20490/20520/20550/20580/20610/20640/20670/20700/20730/20760/20790/20820/20850/20880/20910/20940/20970/21000/21030/21060/21090/21120/21150/21180/21210/21240/21270/21300/21330/21360/21390/21420/21450/21480/21510/21540/21570/21600/21630/21660/21690/21720/21750/21780/21810/21840/21870/21900/21930/21960/21990/22020/22050/22080/22110/22140/22170/22200/22230/22260/22290/22320/22350/22380/22410/22440/22470/22500/22530/22560/22590/22620/22650/22680/22710/22740/22770/22800/22830/22860/22890/22920/22950/22980/23010/23040/23070/23100/23130/23160/23190/23220/23250/23280/23310/23340/23370/23400/23430/23460/23490/23520/23550/23580/23610/23640/23670/23700/23730/23760/23790/23820/23850/23880/23910/23940/23970/24000/24030/24060/24090/24120/24150/24180/24210/24240/24270/24300/24330/24360/24390/24420/24450/24480/24510/24540/24570/24600/24630/24660/24690/24720/24750/24780/24810/24840/24870/24900/24930/24960/24990/25020/25050/25080/25110/25140/25170/25200/25230/25260/25290/25320/25350/25380/25410/25440/25470/25500/25530/25560/25590/25620/25650/25680/25710/25740/25770/25800/25830/25860/25890/25920/25950/25980/26010/26040/26070/26100/26130/26160/26190/26220/26250/26280/26310/26340/26370/26400/26430/26460/26490/26520/26550/26580/26610/26640/26670/26700/26730/267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Indoor unit			Multi-split							Outdoor unit					
Duct			Floor	Ceiling	Wall-mounted	Mini duct	Slim duct	Compact cassette	Single Split			Simultaneous multi-split			
High static pressure	Big								AOYG 09/12/14 KVCA	ABYG 18/22/24/30/36/45/54KRTA	ASYG 22/24/30/36/45/54KSLAP	ARXG 07/09/12/14/18 KSLAP	ARRG 07/14/18	ALXG 07/14/18	ADYG 30/36/45/54 KRTB, ADYG 36/45/54 KRTA
ARXG 45/54KHTB	ARYG 60LHTA	ARYG 72/90LHTA				ARYG 07/09/12/14/18 KSLAP		ARYG 07/09/12/14/18 KSLAP	AUYG 07/09/12/14/18 KSLAP		ADYG 36/45/54/60 LATT			ADYG 36/45/54 LATT	
● PCB Terminal or ○ UTY-XCSX+UTZ-GXEA	● UTD-ECS5A	● PCB Terminal or ○ UTY-XCSX	● UTY-XWZXZ5	● PCB Terminal or ○ UTY-XCSX+UTZ-GXEA	● UTY-XCSXZ2+UTY-XWZXZ5	● PCB Terminal		● UTD-ECS5A	● PCB Terminal						
● PCB Terminal	● UTD-ECS5A	● PCB Terminal	● UTY-XWZXZ5	● PCB Terminal	● UTY-XCSXZ2+UTY-XWZXZ5	● PCB Terminal		● UTD-ECS5A	● PCB Terminal						
● UTY-XCSX+UTZ-GXEA	● UTD-ECS5A	● UTY-XCSX	● UTY-XWZXZ5	● UTY-XCSX+UTZ-GXEA	● UTY-XCSXZ2+UTY-XWZXZ5										
										● UTY-XWZXZ3	● UTY-XWZXZ2	● UTY-XWZXZ3	○ UTY-XWZXZ2		
										● UTY-XWZXZ3	● UTY-XWZXZ2	● UTY-XWZXZ3	○ UTY-XWZXZ2		
● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA	○ UTD-ECS5A	● UTY-XWZXZG or UTY-XCSX	● UTY-XWZXZ5	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA	● UTY-XCSXZ2+UTY-XWZXZ5	● UTY-XWZXZG		● UTD-ECS5A	● UTY-XWZXZG						
● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA			● UTY-XWZXZ5	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA	● UTY-XCSXZ2+UTY-XWZXZ5					● UTY-XWZXZ3	● UTY-XWZXZ2	● UTY-XWZXZ3	○ UTY-XWZXZ2		
										● UTY-XWZXZ3	● UTY-XWZXZ2	● UTY-XWZXZ3	○ UTY-XWZXZ2		
● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA	● UTD-ECS5A	● UTY-XWZXZG or UTY-XCSX	● UTY-XWZXZ5	● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA	● UTY-XCSXZ2+UTY-XWZXZ5	● UTY-XWZXZG		● UTD-ECS5A	● UTY-XWZXZG						
● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA	● UTD-ECS5A	● UTY-XWZXZG or UTY-XCSX		● UTY-XWZXZG or ○ UTY-XCSX+UTZ-GXEA		● UTY-XWZXZG									

●: Dry Contact ○: Apply Voltage

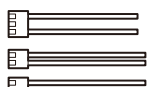
Communication system

External connect kit

For indoor unit



UTY-XWZX



UTY-XWZXZ5



UTY-XWZXZG

For outdoor unit



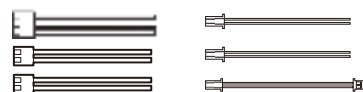
UTY-XWZXZ2



UTY-XWZXZ3

External control set


For indoor unit



UTD-ECS5A

Function list for VRF

External input and output function/External connect kit

Type	Refrigerant 	Indoor unit												
		Cassette			Duct			Floor						
		One-way flow	3D flow	Compact grid type/Standard type	Slim type	Large type	Low static pressure			Medium static pressure	High static pressure	-	EEV external	
	AUXV 004/007/009/ 012/014/018/ 024GLEH	AUXS 018/024 GLEH	AUXB 004/007/009/ 012/014/018/ 024GLEH	AUXM 018/024/030 GLEH	AUXK 018/024/030/ 034/036/045/ 054GLEH	Mini (With drain pump)	Slim (With drain pump)	High Efficiency	Normal	Normal		AGYA 004/007/ 009/012/014 GCCG	AGYE 004/007/ 009/012/014 GCCG	
Operation/Stop														● UTY-XWZXZD ○ UTY-XWZXZB
All On/All Off														
Group stop														
Forced stop														● UTY-XWZXZD ○ UTY-XWZXZB
Emergency stop														● UTY-XWZXZD ○ UTY-XWZXZB
Forced thermostat off														● UTY-XWZXZE ○ UTY-XWZXZ7
Low noise mode operation														
Cooling/Heating priority														
Outdoor unit operation peak control														
Power usage information from electricity meter														
Operation status														● UTY-XWZXZC
Error status														● UTY-XWZXZC
Indoor unit fan operation status														● UTY-XWZXZC
Auxiliary heater output														● UTY-XWZXZC
Base pan heater														

*2: The Touch panel controller has the functions of dry contact and voltage application, but the external connection kit described above is not necessary because the touch panel controller has an external input terminal block.

Communication system

External connect kit

For indoor unit

UTY-XWZXZ7 

UTY-XWZXZB 

UTY-XWZXZC 

UTY-XWZXZD 

UTY-XWZXZE 

For outdoor unit

UTY-XWZXZ6 

UTY-XWZXZ9 

UTY-XWZXZF 



Indoor unit						Outdoor unit					controller	Other
Floor/Ceiling		Wall-mounted				J-IVL	J-IV	J-IVS	V-IV	VR-IV	Central remote controller	RB unit
		-	EEV external	-	-							
ABYA 012/014/018/ 024GTEH	ABYA 030/036/045/ 054GTEH	ASVA 004/007/009 012/014 GCGH	ASVE 004/007/009 012/014 GCEH	ASVA 18/24GBCH	ASVA 030/034GTEH	AJY 072/090/108/ 126/144/162 LELDH	AJY 040/045/054 LELDH, AJY 040/045/054 LELDH	AJY 040/045/054 LCLDH	AJY 072/090/108/ 126/144/162 LALDH	AJY 072/090/108/ 126/144 GALDH	UTY-DCGYZ2	UTP-RX01AH UTP-RX01BH UTP-RX01CH UTP-RX04BH UTP-RX08AH UTP-RX12AH
● UTY-XWZXZD ○ UTY-XWZXZB												
											●UTY-XWZXZ7 ○UTY-XWZXZ8	
						● UTY-XWZXZ6						
● UTY-XWZXZD ○ UTY-XWZXZB												
● UTY-XWZXZD ○ UTY-XWZXZB						● UTY-XWZXZ6					●UTY-XWZXZ7 ○UTY-XWZXZ8	
● UTY-XWZXZE ○ UTY-XWZXZ7												
						● UTY-XWZXZ6						
						● UTY-XWZXZ6					●UTY-XWZXZ6 ○UTY-XWZXZB	
						● UTY-XWZXZ6						
						● UTY-XWZXZF						
● UTY-XWZXZC						○ UTY-XWZXZ6					○UTY-XWZXZA	
● UTY-XWZXZC						○ UTY-XWZXZ6					○UTY-XWZXZA	
● UTY-XWZXZC												
						● UTY-XWZXZ9		● UTY-XWZXZ9				

●: Dry Contact ○: Apply Voltage

For RB unit



Central remote controller



For Touch panel controller

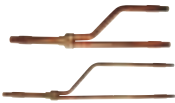



Separation tube



For SPLIT/MULTI-SPLIT/SIMULTANEOUS MULTI-SPLIT



















Separation tube

<p>UTP-SX236A/UTP-SX254A For 3-phase simultaneous multi-split</p> <p>UTP-SX272A For Simultaneous multi-split Twin/ Triple/Double Twin</p> 	<p>UTP-SX354A For 3-phase simultaneous multi-split</p> <p>UTP-SX372A For Simultaneous multi-split Twin/ Triple/Double Twin</p> 
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for VRF

Separation tube

<p>UTP-AX054A</p> <p>Gas pipe</p>  <p>Liquid pipe</p> 	<p>UTP-AX090A</p> <p>Gas pipe</p>  <p>Liquid pipe</p> 	<p>UTP-AX180A</p> <p>Gas pipe</p>  <p>Liquid pipe</p> 	<p>UTP-AX567A</p> <p>Gas pipe</p>  <p>Liquid pipe</p> 
<p>UTP-BX090A</p> <p>Suction Gas pipe</p>  <p>Discharge Gas pipe</p>  <p>Liquid pipe</p> 	<p>UTP-BX180A</p> <p>Suction Gas pipe</p>  <p>Discharge Gas pipe</p>  <p>Liquid pipe</p> 	<p>UTP-BX567A</p> <p>Suction Gas pipe</p>  <p>Discharge Gas pipe</p>  <p>Liquid pipe</p> 	<p>UTP-LX180A For DX kit</p> 

Header

<p>UTR-H0906L/UTR-H1806L</p> <p>Gas pipe</p>  <p>Liquid pipe</p> 	<p>UTR-H0908L/UTR-H1808L</p> <p>Gas pipe</p>  <p>Liquid pipe</p> 	<p>UTP-J0906A/UTP-J1806A</p> <p>Suction gas pipe</p>  <p>Discharge gas pipe</p>  <p>Liquid pipe</p> 	<p>UTP-J0908A/UTP-J1808A</p> <p>Suction gas pipe</p>  <p>Discharge gas pipe</p>  <p>Liquid pipe</p> 
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Outdoor unit branch kit

UTP-CX567A




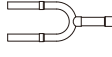
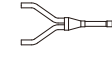
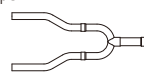
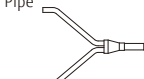
Gas Pipe

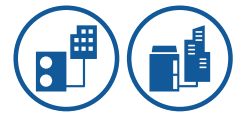


Liquid Pipe



Separation tube for RB unit

<p>UTP-DX567A</p> <p>Suction Gas Pipe</p>  <p>Discharge Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTP-EX060A</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 	<p>UTP-EX096A</p> <p>Gas Pipe</p>  <p>Liquid Pipe</p> 
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for VRF

EV kit

Model name ≧09: UTR-EV09XB
 Model name ≧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	UTP-H0906L	UTP-H1806L
	3-8 Branches	UTP-H0908L	UTP-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-IV)	UTP-DX567A (for VR-IV)
Number of outdoor units	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	V/φ/Hz						
	230/1/50						
Input power	W	17	24	31	96	136	204
Number of branches		1	1	1	4	8	12
Maximum capacity of connectable indoor units (Q)	kW	Q ≤ 8.0	Q ≤ 18.0	Q ≤ 28.0	Q ≤ 56.1*1	Q ≤ 72.0	Q ≤ 95.0
Maximum capacity of connectable indoor units per branch (Q)	kW	Q ≤ 8.0	Q ≤ 18.0	Q ≤ 28.0	Q ≤ 18.0	Q ≤ 8.0	Q ≤ 8.0
Maximum 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: When two RB units are connected in series (8 branches in total), the maximum capacity of the connectable indoor units is up to 56.0 kW.

Residential

AIR TO WATER

- W-002 WATERSTAGE Overview
- W-004 WATERSTAGE Lineup
- W-006 Benefits
- W-008 Home Heating & Domestic Hot Water Supply
- W-010 High-Efficiency Technology
- W-012 Split Type
 - Comfort Series
 - Super High Power Series
 - High Power Series
- W-018 Split DHW Integrated Type
 - Comfort Series
 - Super High Power Series
 - High Power Series
- W-024 Control Overview
- W-026 Comfort Control
- W-028 System Configuration
- W-030 Case Studies
- W-032 Simple installation
Easy Installation & Maintenance
- W-034 Installation Requirements
- W-036 AIR TO WATER Optional Parts



WATERSTAGE™

Innovative solutions for Home Heating

SPLIT TYPE/SPLIT DHW INTEGRATED TYPE

AIR TO WATER

Residential

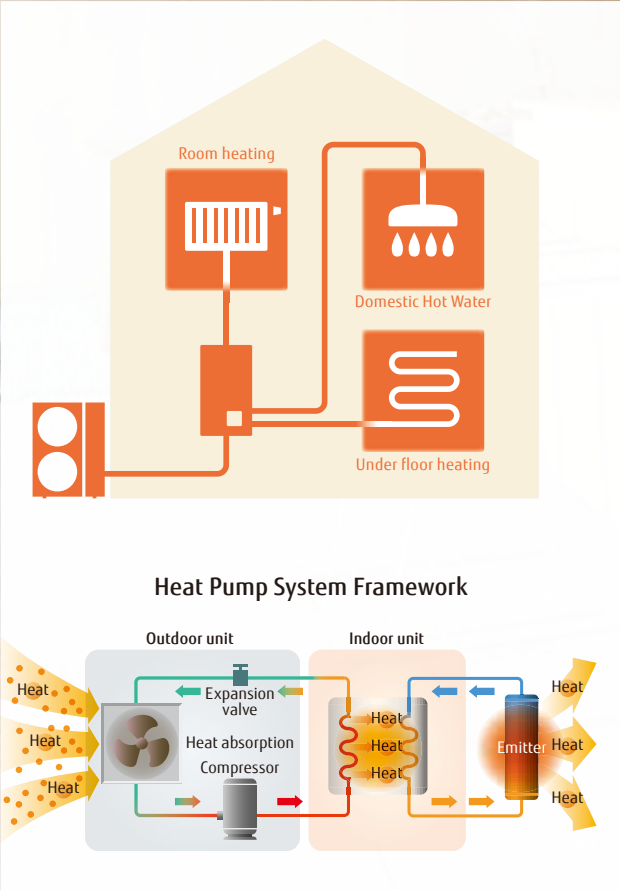


FUJITSU GENERAL LIMITED

WATERSTAGE Overview

Solutions that meet a variety of needs

Water heated by WATERSTAGE using clean energy is delivered reliably and comfortably throughout the house, including the living room, bedrooms, and bathrooms.



24 Models

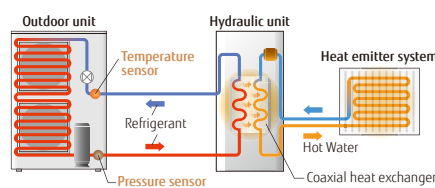
Fujitsu General WATERSTAGE heat pumps offer a variety of high-efficiency renewable central heating systems that absorb energy primarily from the air.



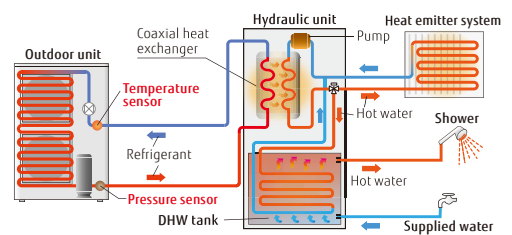
Optimized refrigerant cycle operation

Super High Power and High Power Series deliver high performance and efficiency with twin sensors and hot water heating technology.

Split Type

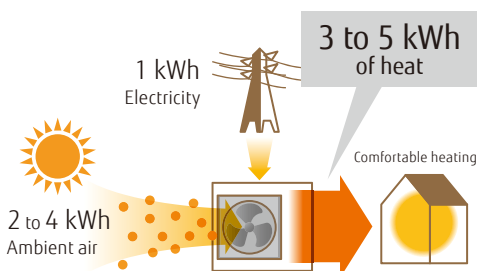


Split DHW Integrated Type



What is a heat pump?

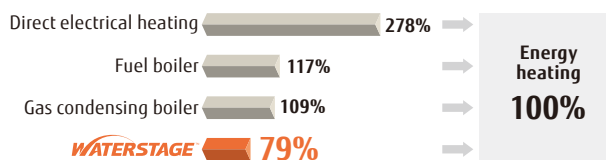
A heat pump extracts heat energy from the atmosphere. It requires only 1 kWh of electricity to generate 3 to 5 kWh of thermal energy.



Primary energy usage reduced substantially


Proportion of primary energy converted into heating energy is 100%

Primary Energy Consumption*



* The amount of electricity loss varies according to the power plant. Typical energy efficiency of a power plant: 36%

WATERSTAGE Lineup

Type	Split Type					
	Super High Power Series		High Power Series		Comfort Series	
Hydraulic unit						
Outdoor unit						
Capacity range	16 kW	15/17 kW	11/14 kW	11/14/16 kW	5/6 kW	8 kW 10 kW
System outline	<ul style="list-style-type: none"> Supplies 60°C hot water even when the outdoor temperature is -20°C. Supplies 55°C hot water even when the outdoor temperature is -22°C. Can be used with a variety of heating systems, including underfloor heating and radiators.* Heating and DHW supply in one system.* Equipped with additional electric heater for backup Up to two independent control circuits.* Cooling operation is possible.* Operating range is -25 to 35°C. 		<ul style="list-style-type: none"> Supplies 60°C hot water even when the outdoor temperature is -20°C. Can be used with a variety of heating systems, including underfloor heating and radiators.* Heating and DHW supply in one system.* Equipped with additional electric heater for backup Up to two independent control circuits.* Cascade connection is possible for up to three systems.* Cooling operation is possible.* Operating range is -25 to 35°C. 		<ul style="list-style-type: none"> Supplies 55°C hot water even when the outdoor temperature is -10°C. Heating and DHW supply in one system.* Equipped with additional electric heater for backup Up to two independent control circuits.* Cooling operation is possible.* Operating range is -20 to 35°C. Can be used with a variety of heating systems, including underfloor heating and radiators.* 	
Power source	Single phase, ~230 V, 50 Hz	3-phase, ~400 V, 50 Hz	Single phase, ~230 V, 50 Hz	3-phase, ~400 V, 50 Hz	Single phase, ~230 V, 50 Hz	
Capacity	5 kW				WSYA050ML3 WOYA060KLT 	
	6 kW				WSYA080ML3 WOYA060KLT 	
	8 kW				WSYA080ML3 WOYA080KLT 	
	10 kW				WSYA100ML3 WOYA100KLT 	
	11 kW			WSYG140DG6 WOYG112LHT	WSYK160DG9 WOYK112LCTA 	
	14 kW			WSYG140DG6 WOYG140LCTA	WSYK160DG9 WOYK140LCTA 	
	15 kW		WSYK170DJ9 WOYK150LJL			
	16 kW	WSYG160DJ6 WOYG160LJL			WSYK160DG9 WOYK160LCTA 	
17 kW		WSYK170DJ9 WOYK170LJL				



Split DHW Integrated Type

Super High Power Series		High Power Series		Comfort Series	
16 kW	15/17 kW	11/14 kW	11/14/16 kW	5/6 kW	8 kW 10 kW
<ul style="list-style-type: none"> Supplies 60°C hot water even when the outdoor temperature is -20°C. Supplies 55°C hot water even when the outdoor temperature is -22°C. Can be used with a variety of heating systems, including underfloor heating and radiators.* Space saving heating and DHW supply in a single Hydraulic unit Equipped with additional electric heater for backup Up to two independent control circuits.* Cooling operation is possible.* Operating range is -25 to 35°C. 		<ul style="list-style-type: none"> Supplies 60°C hot water even when the outdoor temperature is -20°C. Can be used with a variety of heating systems, including underfloor heating and radiators.* Space saving heating and DHW supply in a single Hydraulic unit Equipped with additional electric heater for backup Up to two independent control circuits.* Cooling operation is possible.* Operating range is -25 to 35°C. 		<ul style="list-style-type: none"> Supplies 55°C hot water even when the outdoor temperature is -10°C. Heating and DHW supply in one system. Equipped with additional electric heater for backup Up to two independent control circuits.* Cooling operation is possible.* Operating range is -20 to 35°C. Can be used with a variety of heating systems, including underfloor heating and radiators.* 	
Single phase, ~230 V, 50 Hz	3-phase, ~400 V, 50 Hz	Single phase, ~230 V, 50 Hz	3-phase, ~400 V, 50 Hz	Single phase, ~230 V, 50 Hz	
				WGYA050ML3 WOYA060KLT	
				WGYA080ML3 WOYA060KLT	
				WGYA080ML3 WOYA080KLT	
				WGYA100ML3 WOYA100KLT	
		WGYG140DG6 WOYG112LHT	WGYK160DG9 WOYK112LCTA		
		WGYG140DG6 WOYG140LCTA	WGYK160DG9 WOYK140LCTA		
	WGYK170DJ9 WOYK150LJL				
WGYG160DJ6 WOYG160LJL			WGYK160DG9 WOYK160LCTA		
	WGYK170DJ9 WOYK170LJL				

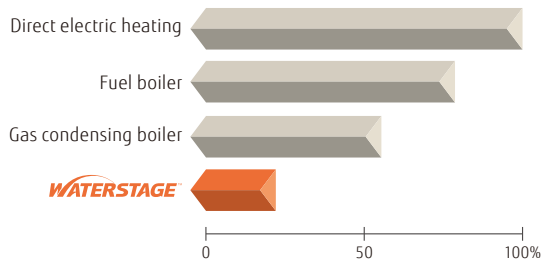
* Please refer to page W-036 and W-037 for optional parts information.

Benefits

Less CO₂ Emissions

WATERSTAGE is an environmentally friendly system that emits substantially less carbon dioxide than conventional gas and hydrocarbon combustion systems.

Average annual CO₂ emissions

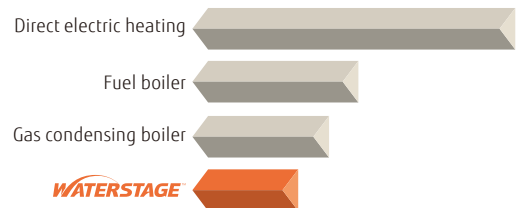


*Calculations based on energy efficiency data provided by the European Programme for Energy Efficiency in EU-27: 89% for fuel boilers; 93% for gas boiler

Low Running Cost

High-efficiency heat pump technology keeps the running cost of a WATERSTAGE system.

Average annual running cost



*The running cost may vary depending on a system's installation, geographical location, and operating conditions.

Clean and Healthy

As a WATERSTAGE system does not use a burner to heat water, it does not produce NOx or other harmful substances.

Environmentally friendly heating system



Easy Installation and Maintenance

All components are built into a compact outdoor unit or a Hydraulic unit.

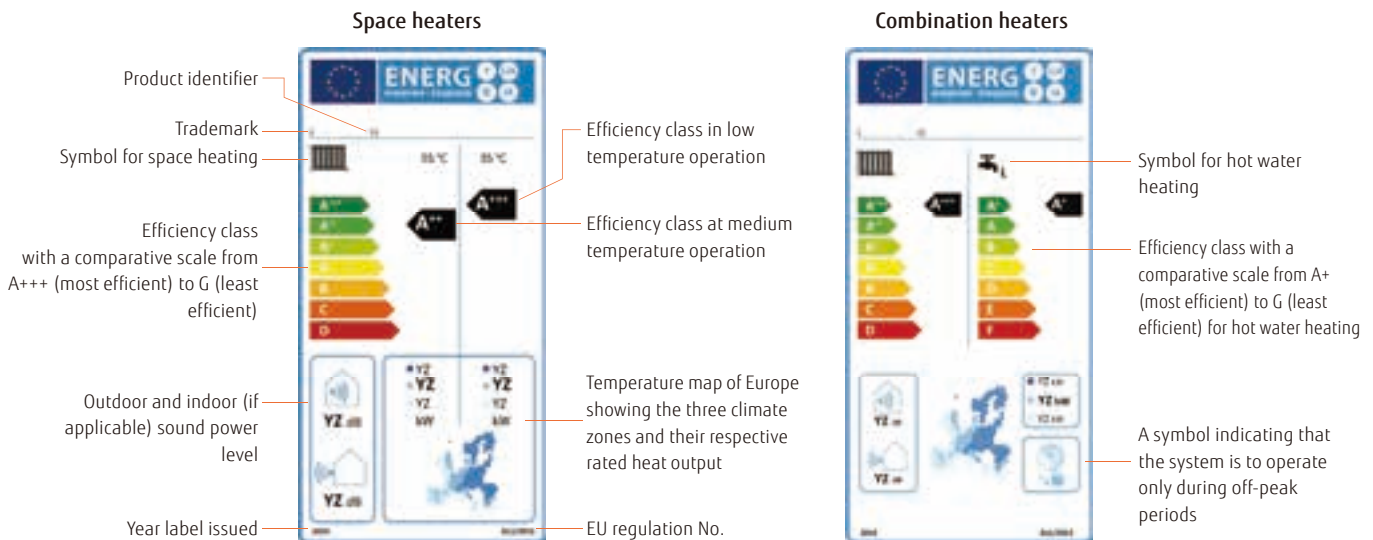


Well-designed Hydraulic unit

The sophisticated arrangement of Hydraulic units makes piping and maintenance work easy.

Energy Efficiency Standards

Product labels



The Ecodesign Directive Lot 1 Regulation 813/2013

The Ecodesign directive defines a regulatory framework for improving the environmental performance of energy-related products (ErP) through design.

Since September 26, 2015, the Ecodesign Directive has applied to space heaters, including heat pumps and fossil fuel fired boilers, combination heaters for space and hot water heating, water heaters, and water storage tanks.

All of these products must meet minimum requirements for energy efficiency*¹ and maximum sound power level. The minimum energy efficiency class were raised on September 26, 2017, and the maximum sound levels were lowered on September 26, 2018.

*1: Energy efficiency is expressed in terms of seasonal space heating efficiencies (η_s). The value is based upon the Seasonal Coefficient of Performance (SCOP).

The Energy Labelling Directive (EU) No. 811/2013

Energy label is intended to enable consumers to make direct comparisons of energy use and product features. All labels should indicate the product identifier, efficiency class, sound power level, and heat output. Heat generators are rated A+++ to D. There are two different product labels. One for space heaters and one for combination heaters.

Seasonal space heating Energy efficiency class

Class	Except low temp. HP 55°C	Low temp. HP 35°C
A+++	$\eta_s \geq 150$	$\eta_s \geq 175$
A++	$125 \leq \eta_s < 150$	$150 \leq \eta_s < 175$
A+	$98 \leq \eta_s < 125$	$123 \leq \eta_s < 150$
A	$90 \leq \eta_s < 98$	$115 \leq \eta_s < 123$
B	$82 \leq \eta_s < 90$	$107 \leq \eta_s < 115$
C	$75 \leq \eta_s < 82$	$100 \leq \eta_s < 107$
D	$36 \leq \eta_s < 75$	$61 \leq \eta_s < 100$
E	$34 \leq \eta_s < 36$	$59 \leq \eta_s < 61$
F	$30 \leq \eta_s < 34$	$55 \leq \eta_s < 59$
G	$\eta_s < 30$	$\eta_s < 55$

EHPA Quality Label



Fujitsu General's WATERSTAGE^{®2} has acquired the EHPA Quality Label^{®3} through testing in accordance with the International Standards EN14511 and EN17025. The EHPA Quality Label^{®3} is a label that shows the end-consumer a quality heat pump unit on the market.

*2: 3-phase High Power Series only
*3: Learn more about the validity of the mark at www.ehpa.org/quality/quality-label/

SG ready Label



SG ready is a label issued to heat pumps and their control technologies that meet the requirements set by BWP^{®4}, and technologies that conform to their standards can be integrated into a smart grid. SG ready labeled heat pumps receive signals from the power grid and PV systems with regard to energy and renewable energy sources such as wind, solar, and water. All of Fujitsu General's new heat pump series are SG ready compatible.

*4: BWP: Bundesverband Wärmepumpe e. V (Federal German Heat Pump Association)

The CEN Heat Pump KEYMARK



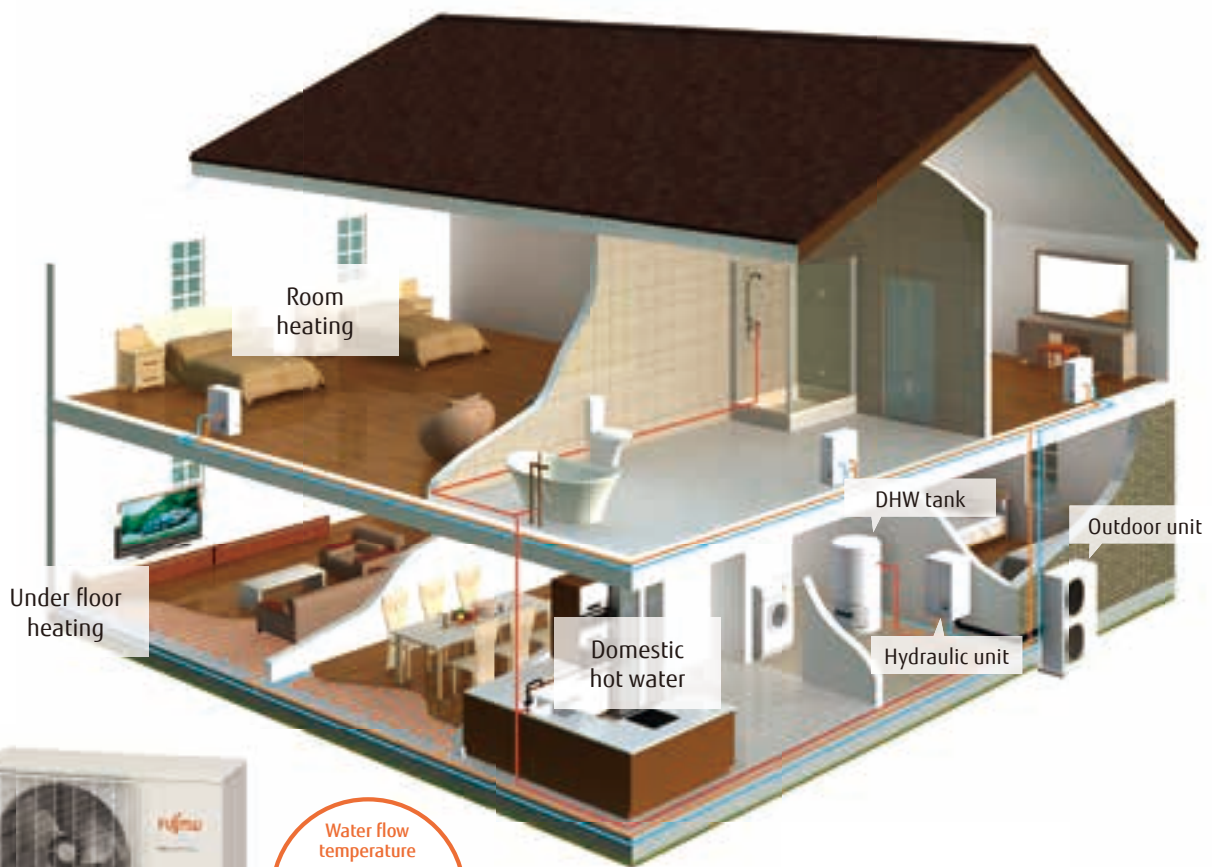
The Heat Pump KEYMARK is a full certificate supporting the quality of heat pumps in the European market. The Heat Pump KEYMARK is a voluntary, independent, European certification mark (ISO Type 5 Certification) for all heat pumps, combination heat pumps, and hot water heaters (as covered by Ecodesign, EU Regulation 813/2013 and 814/2013). Fujitsu General's WATERSTAGE^{®5} has acquired the KEYMARK certificate^{®6}.

*5: R32 refrigerant comfort model only
*6: Learn more about the validity of the mark at www.heatpumpkeymark.com/about/



Home Heating & Domestic Hot Water Supply

A wide range of products to suit regional characteristics, family structures, and usage patterns. We provide a variety of products to meet the needs of customers from the heating-centered High Power Series to the reasonably priced Compact Series.



Super High Power Series
Single phase: 16 kW
3-phase: 15/17 kW



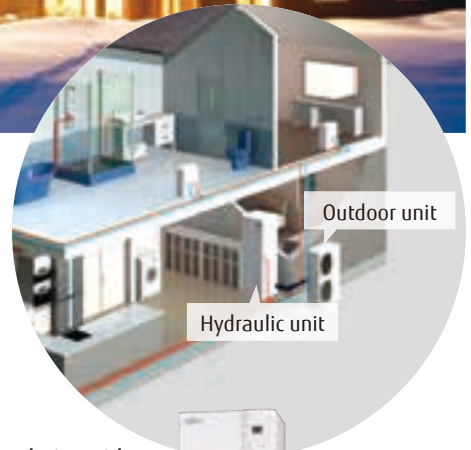
High water flow temperature

The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C.

Floor heating and domestic hot water supply

Outdoor units and hydraulic indoor units can be installed flexibly and easily. Hydraulic units installed inside the house prevent the circulating water from freezing. More units can be cascaded together to provide a greater heating capacity with greater flexibility.*1

*1: High Power Series only



5/6 kW

8 kW

10 kW

Stylish space saving solution with built-in DHW tank



Hydraulic unit

DHW tank

Adopting R32 refrigerant

R32 refrigerant is an environmentally friendly refrigerant with a significantly lower Global Warming Potential (GWP) than conventional refrigerants.

Built-in DHW tank saves a great deal of space.

Existing boilers can be replaced easily. A higher heating capacity can be achieved with the flexibility to cascade more units.



300 Liters

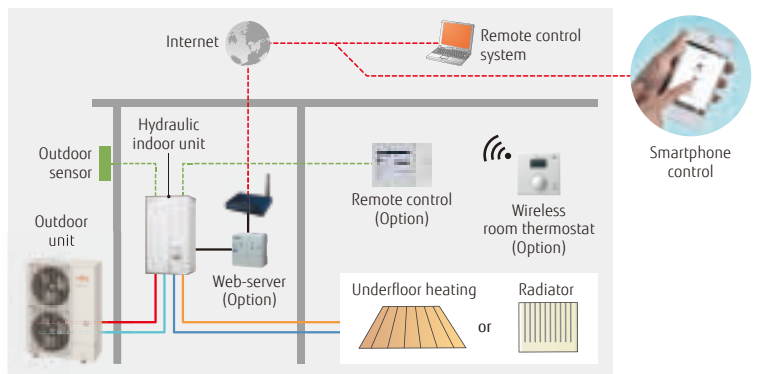
+ DHW tank

A DHW tank (optional) can be connected to supply hot water.

+ Boiler

By combining with an existing boiler, powerful heating can be achieved even at low outdoor temperature.

* Please refer to page W-036 and W-037 for optional parts information.



Smart control

To meet the diverse needs of customers, we offer a variety of control options, such as individual control and remote control options.

High-Efficiency Technology

Twin-Rotary Compressor

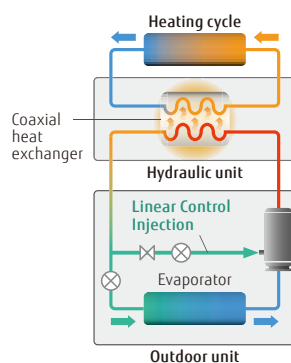
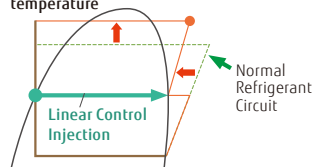


For Outdoor unit

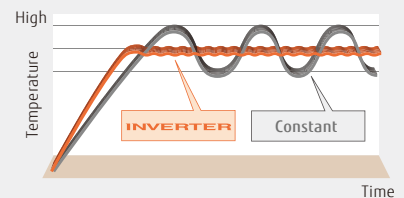
Twin-Rotary Compressor with Linear Control Injection Port

The compressor achieves a high condensing temperature without overheating the discharge gas temperature due to the Linear control injection process used during compression. This makes the condensing temperature higher than in a normal circuit. Higher water temperatures can be achieved by controlling the injection volume according to usage conditions.

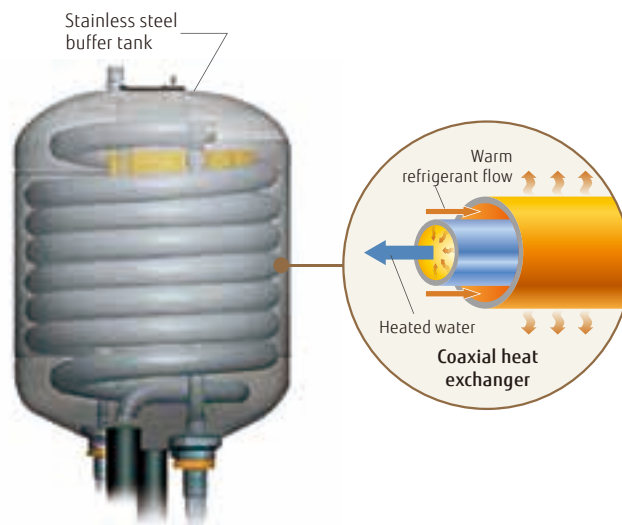
Optimized circuit = Higher water temperature



DC inverter technology controls temperatures precisely.



High-durability coaxial heat exchanger



For Hydraulic unit

Stainless steel buffer tank

Heat exchange amount is 25% higher than the previous model. Energy-saving performance has also been improved.

- Anti-corrosion protection
- No flow switch required
- Anti-freeze protection not required

Class A Pump

Energy-saving pump with the ability to adjust the flow rate and pressure to a constant level



Split Type

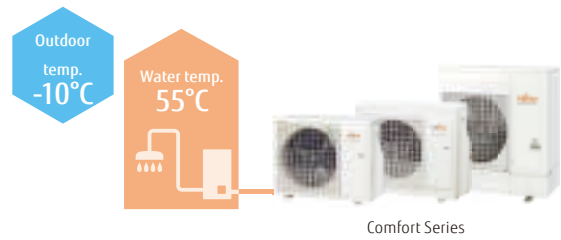
Comfort Series



High water flow temperature

The temperature of water flow is up to 55°C without a backup heater. Hot water supply temperature can be maintained even at -10°C outdoor temperature.

* If you want to raise the temperature of the water supply to above the maximum temperature, use a backup heater to supplement the primary heater.



High COP

Heat pumps of WATERSTAGE ATW Systems work more efficiently and consume less energy than conventional heating systems.

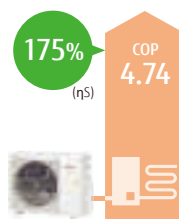
Energy efficiency class



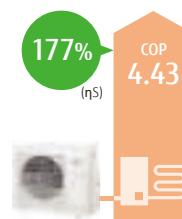
*Temperature application: Heating temp. 35°C

Seasonal space heating energy efficiency (η_s)

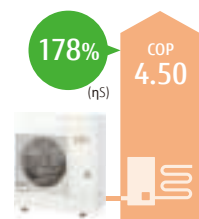
Conditions: Outdoor Temp. 7°C Heating Temp. 35°C



Comfort Series 5 kW class



Comfort Series 8 kW class



Comfort Series 10 kW class

Outdoor unit technology



DC Fan Motor

High-performance, high-efficiency small DC fan motor mounted



DC Twin-Rotary Compressor

High-efficiency DC twin-rotary compressor



DC Inverter

DC inverter provides smooth water temperature control.

Hydraulic unit:
WSYA050ML3/WSYA080ML3/
WSYA100ML3
Outdoor unit:
WOYA060KLT/WOYA080KLT/
WOYA100KLT



Specifications

Model Name	Hydraulic unit	WSYA050ML3	WSYA080ML3	WSYA080ML3	WSYA100ML3				
Capacity Range	Outdoor unit	WOYA060KLT	WOYA060KLT	WOYA080KLT	WOYA100KLT				
7°C/35°C floor heating *1	Heating capacity	5	6	8	10				
	Input power	4.50	5.50	7.50	9.50				
	COP	0.949	1.18	1.69	2.11				
2°C/35°C floor heating *1	Heating capacity	4.74	4.65	4.43	4.50				
	Input power	4.50	5.30	6.30	9.30				
	COP	1.33	1.65	1.96	3.08				
-7°C/35°C floor heating*1	Heating capacity	3.39	3.22	3.21	3.02				
	Input power	4.40	5.00	5.70	8.90				
	COP	1.59	1.90	2.13	3.36				
Space heating characteristics*2									
Temperature application	°C	55	35	55	35	55	35	55	35
Energy efficiency class		A++	A+++	A++	A+++	A++	A+++	A++	A+++
Rated heat output (P _{rated})	kW	5	5	5	6	6	7	8	9
Seasonal space heating energy efficiency (η _s)	%	125	175	125	175	128	177	130	178
Annual energy consumption	kWh	3,035	2,322	3,411	2,594	3,903	2,982	5,083	3,875
Sound power level*3	Hydraulic unit	40	-	40	-	40	-	40	-
	Outdoor unit	57	-	57	-	60	-	62	-
Hydraulic unit specifications									
Power source		Single phase, ~230 V, 50 Hz							
Dimensions H × W × D	mm	847 × 450 × 493	847 × 450 × 493	847 × 450 × 493	847 × 450 × 493	847 × 450 × 493	847 × 450 × 493	847 × 450 × 493	847 × 450 × 493
Weight (Net)	kg	47	47	47	47	47	47	47	47
Water circulation	Min./Max.	L/min	7.6/22.0	8.5/22.0	10.0/22.0	10.0/22.0	10.0/22.0	13.2/30.0	13.2/30.0
Buffer tank capacity	L	16	16	16	16	16	16	16	16
Expansion vessel capacity	L	8	8	8	8	8	8	8	8
Water flow temperature range	Max.	°C	55	55	55	55	55	55	55
Water pipe connection diameter	Flow/Return	mm	Ø25.4/Ø25.4	Ø25.4/Ø25.4	Ø25.4/Ø25.4	Ø25.4/Ø25.4	Ø25.4/Ø25.4	Ø25.4/Ø25.4	Ø25.4/Ø25.4
Backup heater	Capacity	kW	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Outdoor unit specifications									
Power source		Single phase, ~230 V, 50 Hz							
Current	Max.	A	13.0	13.0	18.0	18.0	18.0	19.0	19.0
Dimensions H × W × D	mm	632 × 799 × 290	632 × 799 × 290	632 × 799 × 290	716 × 820 × 315	716 × 820 × 315	716 × 820 × 315	998 × 940 × 320	998 × 940 × 320
Weight (Net)	kg	39	39	39	42	42	42	62	62
Refrigerant	Type (Global Warming Potential)		R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge	kg	0.97	0.97	1.02	1.02	1.02	1.63	1.63
Additional refrigerant charge	g/m	25	25	25	25	25	20	20	
Connection pipe	Diameter	Liquid	6.35	6.35	6.35	6.35	6.35	9.52	9.52
		Gas	12.70	12.70	12.70	12.70	12.70	15.88	15.88
	Length	Min./Max.	m	3/30	3/30	3/30	3/30	3/30	3/30
		Length (Pre-charge)	m	15	15	15	15	15	20
Height difference	Max.	m	20	20	20	20	20	20	
Operating range	Heating	°C	-20 to 35	-20 to 35	-20 to 35	-20 to 35	-20 to 35	-20 to 35	-20 to 35

*1: Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.

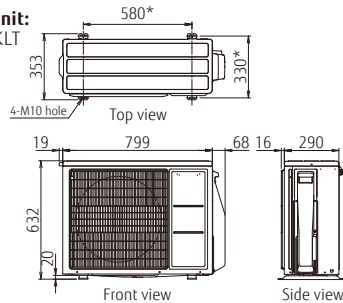
*2: Information about ErP can be downloaded from our website at www.fujitsu-general.com/global/support/downloads/search/

*3: The sound power level values are based on EN12102 standard measurements under EN14825 standard conditions.

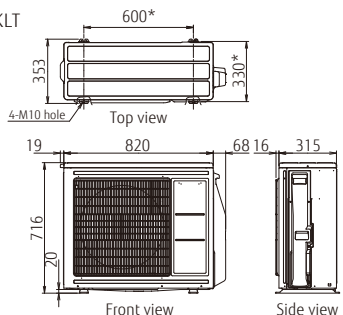
Dimensions

(Unit: mm)

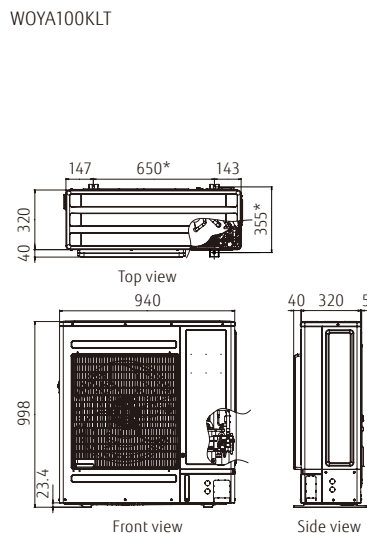
Outdoor unit:
WOYA060KLT



WOYA080KLT

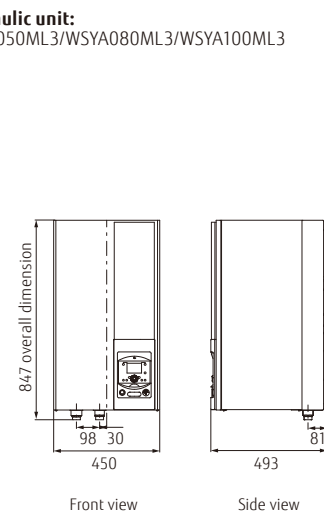


WOYA100KLT



Hydraulic unit:

WSYA050ML3/WSYA080ML3/WSYA100ML3



*Pitch of bolts for installation

Split Type

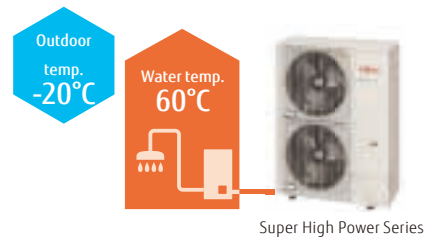
Super High Power Series



High water flow temperature

The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C. The system can supply 55°C water without a backup heater at an outdoor temperature of -22°C.

* If you want to raise the temperature of the water supply to above the maximum temperature, use a backup heater to supplement the primary heater.



High COP

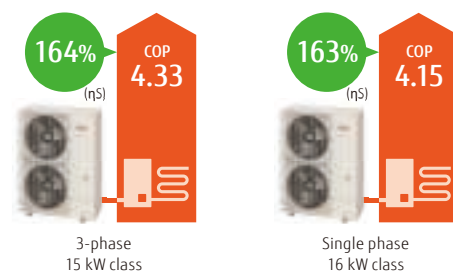
Heat pumps of WATERSTAGE ATW Systems work more efficiently and consume less energy than conventional heating systems.

Energy efficiency class



Seasonal space heating energy efficiency (η_s)

Conditions: Outdoor Temp. 7°C Heating Temp. 35°C



Operating range extended to -25°C

Operating range improved down to -25°C outdoor temperature



Hydraulic unit:
WSYG160DJ6/[3-phase] WSYK170DJ9
Outdoor unit:
WOYG160LJL
[3-phase] WOYK150LJL/WOYK170LJL



Hydraulic unit
 Single phase/
 3-phase



Outdoor unit
 Single phase 16 kW
 3-phase 15/17 kW

Specifications

Model Name	Hydraulic unit		WSYG160DJ6	WSYK170DJ9	WSYK170DJ9	
Capacity range	Outdoor unit		WOYG160LJL	WOYK150LJL	WOYK170LJL	
			16	15	17	
7°C/35°C floor heating *1	Heating capacity	kW	16.00	15.00	17.00	
	Input power		3.86	3.46	4.10	
	COP		4.15	4.33	4.15	
2°C/35°C floor heating *1	Heating capacity	kW	13.30	13.20	13.50	
	Input power		4.25	4.06	4.27	
	COP		3.13	3.25	3.16	
-7°C/35°C floor heating *1	Heating capacity	kW	14.50	13.20	15.00	
	Input power		5.27	4.55	5.32	
	COP		2.75	2.90	2.82	
Space heating characteristics*2						
Temperature application	°C		55	35	55	35
Energy efficiency class			A++	A++	A++	A++
Rated heat output (P _{rated})	kW		14	16	17	18
Seasonal space heating energy efficiency (η _s)	%		125	163	130	161
Annual energy consumption	kWh		8,757	8,014	9,915	8,606
Sound power level	Hydraulic unit	dB(A)	45	45	45	45
	Outdoor unit		67	66	67	66
Hydraulic unit specifications						
Power source			Single phase, ~230 V, 50 Hz		3-phase, ~400 V, 50 Hz	
Dimensions H × W × D	mm		805 × 450 × 471		805 × 450 × 471	
Weight (Net)	kg		52.5		52.5	
Water circulation	Min./Max.	L/min	26.4/57.8		24.0/54.2	
Buffer tank capacity	L		22		22	
Expansion vessel capacity	L		10		10	
Water flow temperature range	Max.	°C	60		60	
Water pipe connection diameter	Flow/Return	mm	Ø25.4/Ø25.4		Ø25.4/Ø25.4	
Backup heater	Capacity	kW	6.0 (3.0 kW × 2 pcs.)		9.0 (3.0 kW × 3 pcs.)	
Outdoor unit specifications						
Power source			Single phase, ~230 V, 50 Hz		3-phase, ~400 V, 50 Hz	
Current	Max.	A	28.0		14.0	
Dimensions H × W × D	mm		1,428 × 1,080 × 480		1,428 × 1,080 × 480	
Weight (Net)	kg		137		138	
Refrigerant	Type (Global Warming Potential)		R410A (2,088)			
	Charge	kg	3.80		3.80	
Additional refrigerant charge		g/m	50		50	
	Diameter	Liquid	Ø9.52		Ø9.52	
Connection pipe		Gas	Ø15.88		Ø15.88	
	Length	Min./Max.	5/30		5/30	
	Length (Pre-charge)	m	15		15	
	Height difference	Max.	m		25/15 (Outdoor unit: Upper/Lower)	
Operating range	Heating	°C	-25 to 35		-25 to 35	

*1: Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.

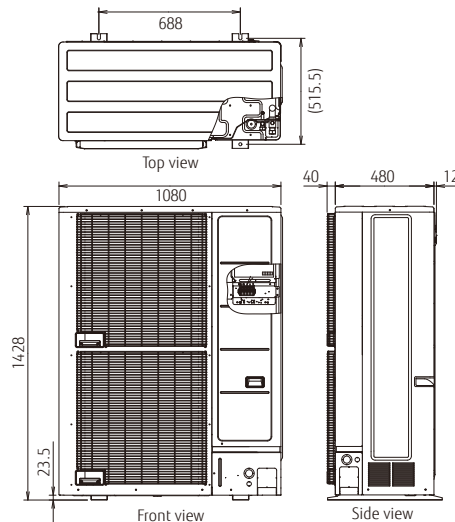
*2: Information about ErP can be downloaded from our website at www.fujitsu-general.com/global/support/downloads/search/

Dimensions

(Unit: mm)

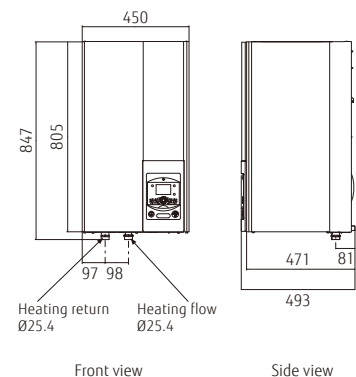
Outdoor unit:

Single phase: WOYG160LJL
 3-phase: WOYK150LJL/WOYK170LJL



Hydraulic unit:

Single phase: WSYG160DJ6
 3-phase: WSYK170DJ9



Split Type

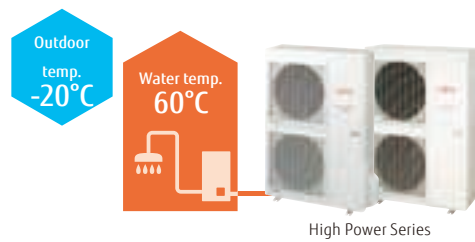
High Power Series



High water flow temperature

The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C.

* If you want to raise the temperature of the water supply to above the maximum temperature, use a backup heater to supplement the primary heater.



High COP

Heat pumps of WATERSTAGE ATW Systems work more efficiently and consume less energy than conventional heating systems.

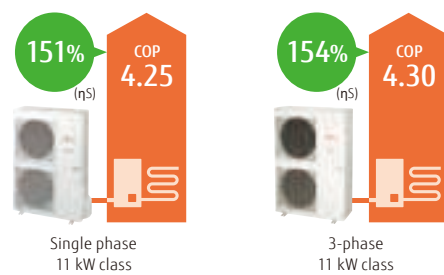
Energy efficiency class



*Temperature application: Heating temp. 35°C

Seasonal space heating energy efficiency (η_s)

Conditions: Outdoor Temp. 7°C Heating Temp. 35°C



Hydraulic unit:
WSYG140DG6/[3-phase] WSYK160DG9
Outdoor unit:
WOYG112LHT/WOYG140LCTA
[3-phase] WOYK112LCTA/WOYK140LCTA/
WOYK160LCTA



Hydraulic unit
 Single phase/
 3-phase



Outdoor unit
 Single phase
 11/14 kW



Outdoor unit
 3-phase
 11/14/16 kW

Specifications

Model Name	Hydraulic unit	WSYG140DG6	WSYG140DG6	WSYK160DG9	WSYK160DG9	WSYK160DG9	
Capacity range	Outdoor unit	WOYG112LHT	WOYG140LCTA	WOYK112LCTA	WOYK140LCTA	WOYK160LCTA	
7°C/35°C floor heating *1	Heating capacity	10.80	13.50	10.80	13.50	15.17	
	Input power	2.54	3.23	2.51	3.20	3.70	
	COP	4.25	4.18	4.30	4.22	4.10	
2°C/35°C floor heating *1	Heating capacity	10.77	12.00	10.77	13.00	13.50	
	Input power	3.44	3.87	3.40	4.15	4.34	
	COP	3.13	3.10	3.17	3.13	3.11	
-7°C/35°C floor heating*1	Heating capacity	10.38	11.54	10.38	12.20	13.50	
	Input power	4.32	5.08	4.28	5.13	5.40	
	COP	2.40	2.27	2.43	2.38	2.50	
Space heating characteristics*2							
Temperature application	°C	55	35	55	35	55	
Energy efficiency class		A+	A++	A+	A+	A+	
Rated heat output (P _{rated})	kW	9	11	11	13	14	
Seasonal space heating energy efficiency (η _s)	%	112	151	113	148	117	
Annual energy consumption	kWh	6,704	6,062	8,041	6,824	6,669	
Sound power level	Hydraulic unit	46		46		46	
	Outdoor unit	68		69		71	
Hydraulic unit specifications							
Power source		Single phase, ~230 V, 50 Hz			3-phase, ~400 V, 50 Hz		
Dimensions H × W × D	mm	800 × 450 × 457			800 × 450 × 457		
Weight (Net)	kg	42			42		
Water circulation	Min./Max.	L/min 19.5/39.0		24.4/48.7		27.4/54.8	
Buffer tank capacity	L	16			16		
Expansion vessel capacity	L	8			8		
Water flow temperature range	Max.	°C 60			60		
Water pipe connection diameter	Flow/Return	mm Ø25.4/Ø25.4			Ø25.4/Ø25.4		
Backup heater	Capacity	kW 6.0 (3.0 kW × 2 pcs.)			9.0 (3.0 kW × 3 pcs.)		
Outdoor unit specifications							
Power source		Single phase, ~230 V, 50 Hz			3-phase, ~400 V, 50 Hz		
Current	Max.	A 22.0		25.0		9.0	
Dimensions H × W × D	mm	1,290 × 900 × 330			9.5		
Weight (Net)	kg	92			99		
Refrigerant	Type (Global Warming Potential)	R410A (2,088)					
	Charge	kg 2.50					
Additional refrigerant charge		g/m 50					
Connection pipe	Diameter	Liquid	mm Ø9.52				
		Gas	mm Ø15.88				
	Length	m 5/20					
	Height difference	m 15					
Operating range	Heating	°C -25 to 35					

*1: Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.

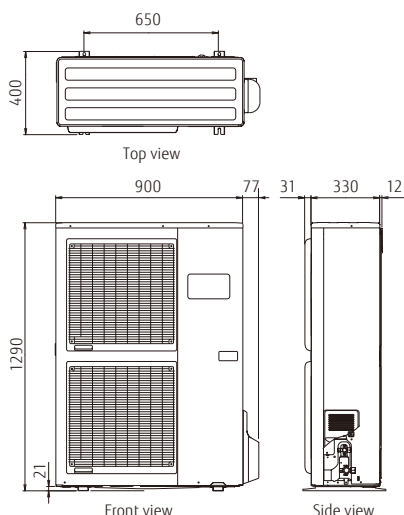
*2: Information about ErP can be downloaded from our website at www.fujitsu-general.com/global/support/downloads/search/

Dimensions

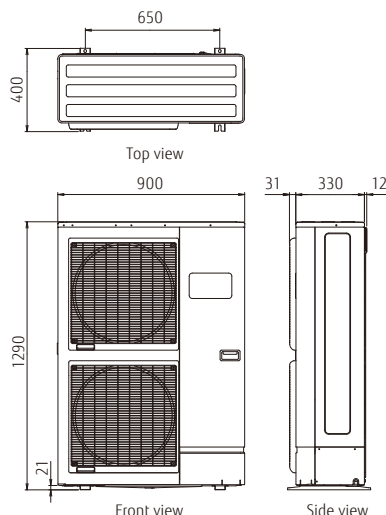
(Unit: mm)

Outdoor unit:

Single phase: WOYG112LHT/WOYG140LCTA



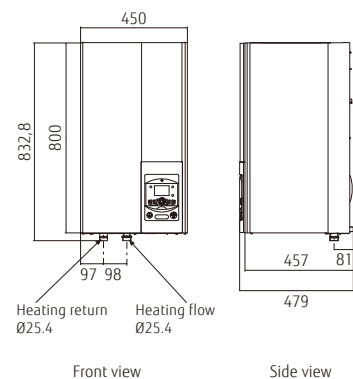
3-phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic unit:

Single phase: WSYG140DG6

3-phase: WSYK160DG9



Split DHW Integrated Type

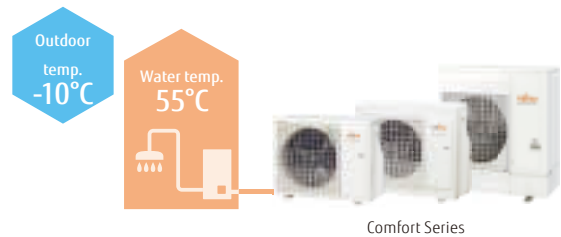
Comfort Series



High water flow temperature

The temperature of water flow is up to 55°C without a backup heater. Hot water supply temperature can be maintained even at -10°C outdoor temperature.

* If you want to raise the temperature of the water supply to above the maximum temperature, use a backup heater to supplement the primary heater.



High COP

Heat pumps of WATERSTAGE ATW Systems work more efficiently and consume less energy than conventional heating systems.

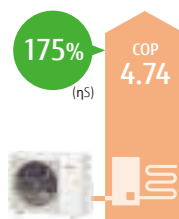
Energy efficiency class



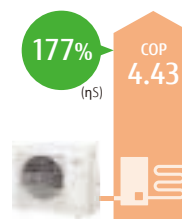
*Temperature application: Heating temp. 35°C

Seasonal space heating energy efficiency (η_s)

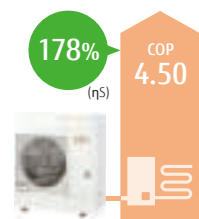
Conditions: Outdoor Temp. 7°C Heating Temp. 35°C



Comfort Series 5 kW class



Comfort Series 8 kW class



Comfort Series 10 kW class

Outdoor unit technology



DC Fan Motor

High-performance, high-efficiency small DC fan motor mounted



DC Twin-Rotary Compressor

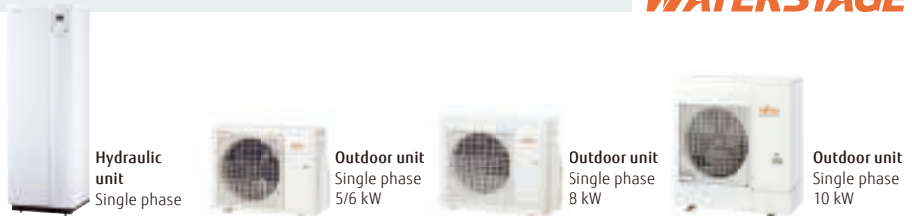
High-efficiency DC twin-rotary compressor



DC Inverter

DC inverter provides smooth water temperature control.

Hydraulic unit:
WGYA050ML3/WGYA080ML3/
WGYA100ML3
Outdoor unit:
WOYA060KLT/WOYA080KLT/
WOYA100KLT



Specifications

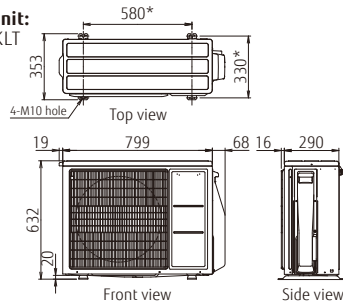
Model Name	Hydraulic unit	WGYA050ML3	WGYA080ML3	WGYA080ML3	WGYA100ML3				
Capacity range	Outdoor unit	WOYA060KLT	WOYA060KLT	WOYA080KLT	WOYA100KLT				
7°C/35°C floor heating *1	Heating capacity	4.50	5.50	7.50	9.50				
	Input power	0.949	1.18	1.69	2.11				
	COP	4.74	4.65	4.43	4.50				
2°C/35°C floor heating *1	Heating capacity	4.50	5.30	6.30	9.30				
	Input power	1.33	1.65	1.96	3.08				
	COP	3.39	3.22	3.21	3.02				
-7°C/35°C floor heating*1	Heating capacity	4.40	5.00	5.70	8.90				
	Input power	1.59	1.90	2.13	3.36				
	COP	2.76	2.63	2.68	2.65				
Space heating characteristics*2									
Temperature application	°C	55	35	55	35	55	35	55	35
Energy efficiency class		A++	A+++	A++	A+++	A++	A+++	A++	A+++
Rated heat output (P _{rated})	kW	5	5	5	6	6	7	8	9
Seasonal space heating energy efficiency (η _s)	%	125	175	125	175	128	177	130	178
Annual energy consumption	kWh	3,035	2,322	3,411	2,594	3,903	2,982	5,083	3,875
Sound power level*3	Hydraulic unit	40	-	40	-	40	-	40	-
	Outdoor unit	57	-	57	-	60	-	62	-
Domestic hot water characteristics*2									
Load profile		L	L	L	L	L	L	L	L
Energy efficiency class		A+	A+	A+	A+	A+	A+	A+	A+
Energy efficiency (η _{wh})	%	130	130	130	130	130	130	130	130
Annual electricity consumption	kWh	793	793	793	793	793	793	793	793
Hydraulic unit specifications									
Power source		Single phase, ~230 V, 50 Hz							
Dimensions H × W × D	mm	1,863 × 648 × 700	1,863 × 648 × 700	1,863 × 648 × 700	1,863 × 648 × 700				
Weight (Net)	kg	145	145	145	145				
Water circulation	Min./Max.	L/min	7.6/22.0	8.5/22.0	10.0/22.0	13.2/30.0			
DHW capacity	L	190	190	190	190	190			
Electrical heater capacity	Heating	kW	3.0	3.0	3.0	3.0			
	DHW	kW	1.5	1.5	1.5	1.5			
Buffer tank capacity	L	16	16	16	16	16			
Expansion vessel capacity	L	8	8	8	8	8			
Water flow temperature range	Max.	°C	55	55	55	55			
Water pipe connection diameter	Flow/Return	mm	Ø25.4/Ø25.4	Ø25.4/Ø25.4	Ø25.4/Ø25.4	Ø25.4/Ø25.4			
Hot water pipe connection diameter	mm	Ø19.05	Ø19.05	Ø19.05	Ø19.05	Ø19.05			
Outdoor unit specifications									
Power source		Single phase, ~230 V, 50 Hz							
Current	Max.	A	13.0	13.0	18.0	19.0			
Dimensions H × W × D	mm	632 × 799 × 290	632 × 799 × 290	716 × 820 × 315	998 × 940 × 320	998 × 940 × 320			
Weight (Net)	kg	39	39	42	62	62			
Refrigerant	Type (Global Warming Potential)		R32 (675)	R32 (675)	R32 (675)	R32 (675)			
	Charge	kg	0.97	0.97	1.02	1.63			
Additional refrigerant charge	g/m	25	25	25	20	20			
Connection pipe	Diameter	Liquid	mm	6.35	6.35	6.35	9.52		
		Gas	mm	12.70	12.70	12.70	15.88		
	Length	Min./Max.	m	3/30	3/30	3/30	3/30		
		Length (Pre-charge)	m	15	15	15	20		
Height difference	Max.	m	20	20	20	20			
	Heating	°C	-20 to 35	-20 to 35	-20 to 35	-20 to 35			

*1: Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.
 *2: Information about ErP can be downloaded from our website at www.fujitsu-general.com/global/support/downloads/search/
 *3: The sound power level values are based on EN12102 standard measurements under EN14825 standard conditions.

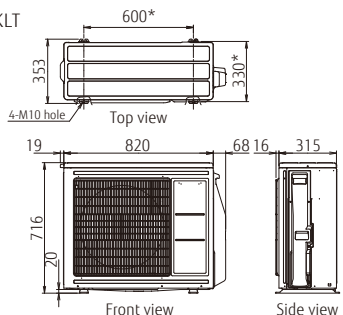
Dimensions

(Unit: mm)

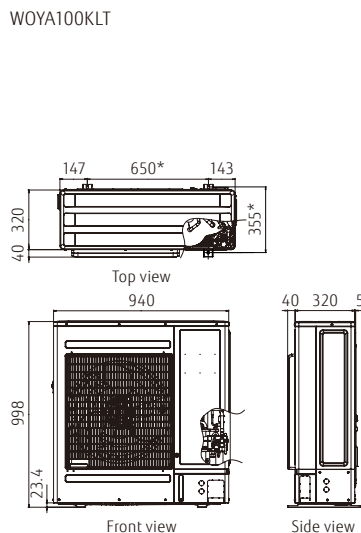
Outdoor unit:
WOYA060KLT



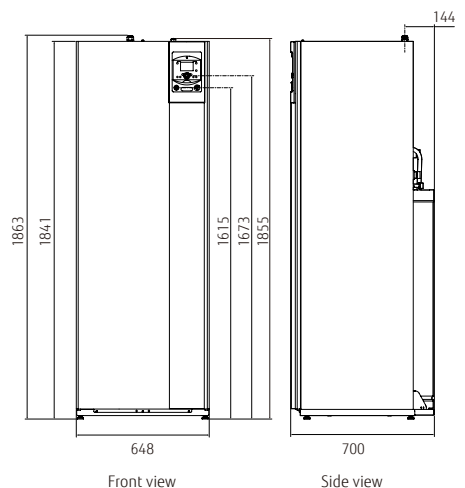
WOYA080KLT



WOYA100KLT



Hydraulic unit:
WGYA050ML3/WGYA080ML3/WGYA100ML3



*Pitch of bolts for installation

Split DHW Integrated Type

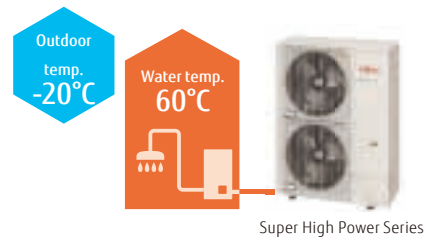
Super High Power Series



High water flow temperature

The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C. The system can supply 55°C water without a backup heater at an outdoor temperature of -22°C.

* If you want to raise the temperature of the water supply to above the maximum temperature, use a backup heater to supplement the primary heater.



High COP

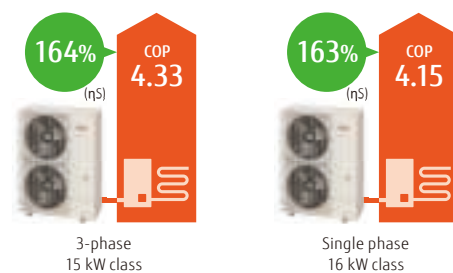
Heat pumps of WATERSTAGE ATW Systems work more efficiently and consume less energy than conventional heating systems.

Energy efficiency class



Seasonal space heating energy efficiency (η_s)

Conditions: Outdoor Temp. 7°C Heating Temp. 35°C



Operating range extended to -25°C

Operating range improved down to -25°C outdoor temperature



Stylish space saving solution with
**Built-in High-performance
DHW tank 190 L**



- Coil heat exchanger optimizes DHW supply performance.
- Temperature rises quickly due to the large surface of the exchanger.

Hydraulic unit:
WGYG160DJ6 / [3-phase] WGYK170DJ9
Outdoor unit:
WOYG160LJL
[3-phase] WOYK150LJL/WOYK170LJL



Hydraulic unit
 Single phase/
 3-phase



Outdoor unit
 Single phase 16 kW
 3-phase 15/17 kW

Specifications

Model Name	Hydraulic unit	WGYG160DJ6	WGYK170DJ9	WGYK170DJ9				
Capacity range	Outdoor unit	WOYG160LJL	WOYK150LJL	WOYK170LJL				
7°C/35°C floor heating *1	Heating capacity	16.00	15.00	17.00				
	Input power	3.86	3.46	4.10				
	COP	4.15	4.33	4.15				
2°C/35°C floor heating *1	Heating capacity	13.30	13.20	13.50				
	Input power	4.25	4.06	4.27				
	COP	3.13	3.25	3.16				
-7°C/35°C floor heating*1	Heating capacity	14.50	13.20	15.00				
	Input power	5.27	4.55	5.32				
	COP	2.75	2.90	2.82				
Space heating characteristics*2								
Temperature application	°C	55	35	55	35	55	35	
Energy efficiency class		A++	A++	A++	A++	A++	A++	
Rated heat output (P _{rated})	kW	14	16	16	17	17	18	
Seasonal space heating energy efficiency (η _s)	%	125	163	130	164	130	161	
Annual energy consumption	kWh	8,757	8,014	9,915	8,606	10,232	9,059	
Sound power level	Hydraulic unit	45	45	45	45	45	45	
	Outdoor unit	67	66	67	66	67	68	
Domestic hot water characteristics*2								
Load profile					L			
Energy efficiency class					A			
Energy efficiency (η _{wh})	%				109			
Annual electricity consumption	kWh				941			
Hydraulic unit specifications								
Power source		Single phase, ~230 V, 50 Hz		3-phase, ~400 V, 50 Hz				
Dimensions H × W × D	mm				1,841 × 648 × 698			
Weight (Net)	kg				166			
Water circulation	Min./Max.	L/min		26.4/57.8		24.0/54.2		27.3/61.4
DHW capacity	L				190			
Electrical heater capacity	Heating	6.0 (3.0 kW × 2 pcs.)			9.0 (3.0 kW × 3 pcs.)			
	DHW				1.5			
Buffer tank capacity	L				22			
Expansion vessel capacity	L				12			
Water flow temperature range	Max.	°C			60			
Water pipe connection diameter	Flow/Return	mm			Ø25.4/Ø25.4			
Hot water pipe connection diameter		mm			Ø19.05			
Outdoor unit specifications								
Power source		Single phase, ~230 V, 50 Hz		3-phase, ~400 V, 50 Hz				
Current	Max.	A		28.0			14.0	
Dimensions H × W × D	mm	1,428 × 1,080 × 480			1,428 × 1,080 × 480			
Weight (Net)	kg	137			138			
Refrigerant	Type (Global Warming Potential)	R410A (2,088)			R410A (2,088)			
	Charge	kg		3.80		3.80		
Additional refrigerant charge		g/m		50		50		
Connection pipe	Diameter	Liquid	mm		Ø9.52		Ø9.52	
		Gas	mm		Ø15.88		Ø15.88	
	Length	Min./Max.		m		5/30		
	Length (Pre-charge)			m		15		
Height difference	Max.	m		25/15 (Outdoor unit: Upper/Lower)		25/15 (Outdoor unit: Upper/Lower)		
Operating range	Heating	°C		-25 to 35		-25 to 35		

*1: Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.

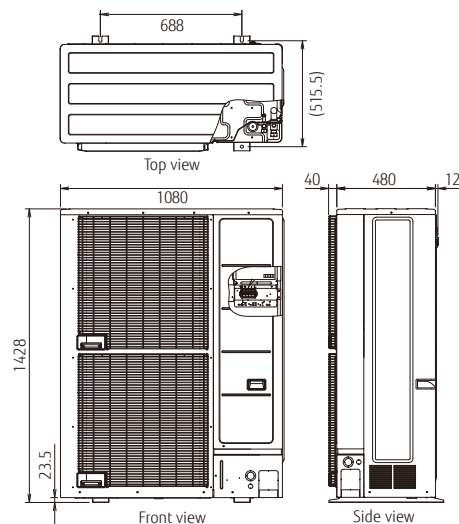
*2: Information about ErP can be downloaded from our website at www.fujitsu-general.com/global/support/downloads/search/

Dimensions

(Unit: mm)

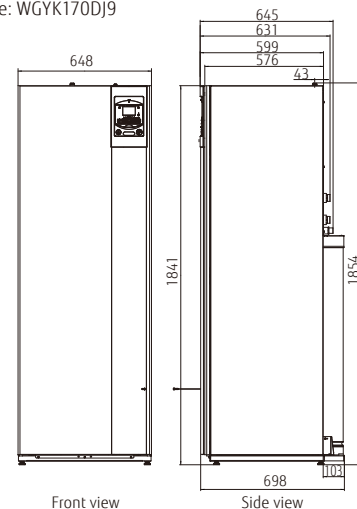
Outdoor unit:

Single phase: WOYG160LJL
 3-phase: WOYK150LJL/WOYK170LJL



Hydraulic unit:

Single phase: WGYG160DJ6
 3-phase: WGYK170DJ9



Split DHW Integrated Type

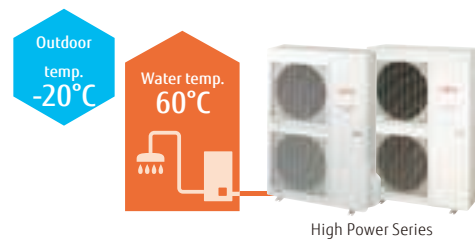
High Power Series



High water flow temperature

The temperature of water flow can be maintained at 60°C without using a backup heater, even when the outdoor temperature drops to -20°C.

* If you want to raise the temperature of the water supply to above the maximum temperature, use a backup heater to supplement the primary heater.



High COP

Heat pumps of WATERSTAGE ATW Systems work more efficiently and consume less energy than conventional heating systems.

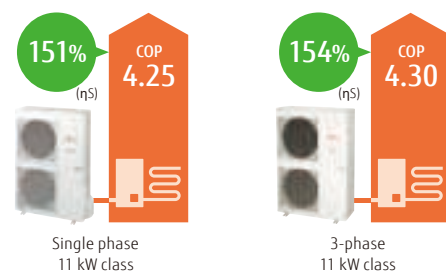
Energy efficiency class



*Temperature application: Heating temp. 35°C

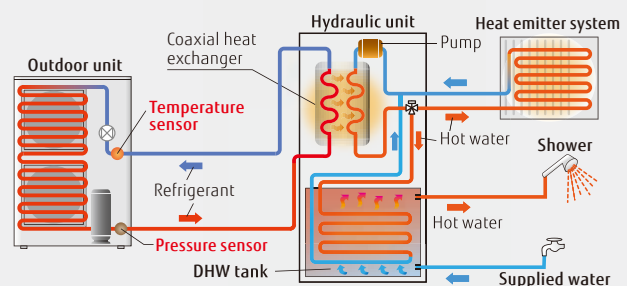
Seasonal space heating energy efficiency (η_s)

Conditions: Outdoor Temp. 7°C Heating Temp. 35°C



Optimized refrigerant cycle operation

The High Power Series deliver high performance and efficiency with twin sensors and hot water heating technology.



Hydraulic unit:
WGYG140DG6/[3-phase] WGYK160DG9
Outdoor unit:
WOYG112LHT/WOYG140LCTA
[3-phase] WOYK112LCTA/WOYK140LCTA/
WOYK160LCTA



Hydraulic unit
 Single phase/
 3-phase



Outdoor unit
 Single phase
 11/14 kW



Outdoor unit
 3-phase
 11/14/16 kW

Specifications

Model Name	Hydraulic unit	WGYG140DG6	WGYG140DG6	WGYK160DG9	WGYK160DG9	WGYK160DG9					
Capacity range	Outdoor unit	WOYG112LHT	WOYG140LCTA	WOYK112LCTA	WOYK140LCTA	WOYK160LCTA					
7°C/35°C floor heating *1	Heating capacity	10.80	13.50	10.80	13.50	15.17					
	Input power	2.54	3.23	2.51	3.20	3.70					
	COP	4.25	4.18	4.30	4.22	4.10					
2°C/35°C floor heating *1	Heating capacity	10.77	12.00	10.77	13.00	13.50					
	Input power	3.44	3.87	3.40	4.15	4.34					
	COP	3.13	3.10	3.17	3.13	3.11					
-7°C/35°C floor heating*1	Heating capacity	10.38	11.54	10.38	12.20	13.50					
	Input power	4.32	5.08	4.28	5.13	5.40					
	COP	2.40	2.27	2.43	2.38	2.50					
Space heating characteristics*2											
Temperature application	°C	55	35	55	35	55	35	55	35	55	35
Energy efficiency class		A+	A++	A+	A+	A+	A++	A+	A++	A+	A+
Rated heat output (P _{rated})	kW	9	11	11	13	9	11	11	13	13	14
Seasonal space heating energy efficiency (η _s)	%	112	151	113	148	112	154	117	150	117	149
Annual energy consumption	kWh	6,704	6,062	8,041	6,824	6,669	5,930	7,803	6,738	9,062	7,408
Sound power level	Hydraulic unit	46		46		46		46		46	
	Outdoor unit	68		69		69		68		71	
Domestic hot water characteristics*2											
Load profile							L				
Energy efficiency class							A				
Energy efficiency(η _{dhw})	%						88				
Annual electricity consumption	kWh						1166				
Hydraulic unit specifications											
Power source		Single phase, ~230 V, 50 Hz			3-phase, ~400 V, 50 Hz						
Dimensions H × W × D	mm						1,840 × 648 × 698				
Weight (Net)	kg						152				
Water circulation	Min./Max.	L/min	19.5/39.0	24.4/28.7	19.5/39.0	24.4/48.7	27.4/54.8				
DHW capacity		L				190					
Electrical heater capacity	Heating	kW	6.0 (3.0 kW × 2 pcs.)			9.0 (3.0 kW × 3 pcs.)					
	DHW					1.5					
Buffer tank capacity		L				16					
Expansion vessel capacity		L				12					
Water flow temperature range	Max.	°C				60					
Water pipe connection diameter	Flow/Return	mm				Ø25.4/Ø25.4					
Hot water pipe connection diameter		mm				Ø19.05					
Outdoor unit specifications											
Power source		Single phase, ~230 V, 50 Hz			3-phase, ~400 V, 50 Hz						
Current	Max.	A	22.0	25.0	9.0	9.5	10.5				
Dimensions H × W × D		mm				1,290 × 900 × 330					
Weight (Net)		kg	92			99					
Refrigerant	Type (Global Warming Potential)					R410A (2,088)					
	Charge	kg				2.50					
Additional refrigerant charge		g/m				50					
Connection pipe	Diameter	Liquid	mm				Ø9.52				
		Gas					Ø15.88				
	Length	Min./Max.	m				5/20				
	Length (Pre-charge)		m				15				
Height difference	Max.	m				15					
Operating range	Heating	°C				-25 to 35					

*1: Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.

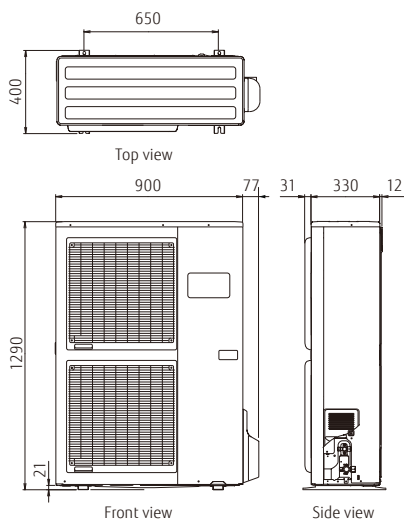
*2: Information about ErP can be downloaded from our website at www.fujitsu-general.com/global/support/downloads/search/

Dimensions

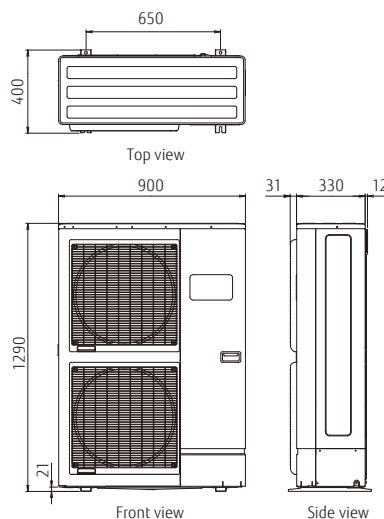
(Unit: mm)

Outdoor unit:

Single phase: WOYG112LHT/WOYG140LCTA

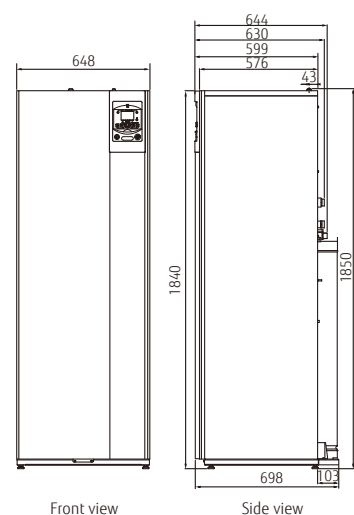


3-phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic unit:

Single phase: WGYG140DG6
 3-phase: WGYK160DG9



Control Overview

To meet the diverse needs of customers, we offer a variety of control options, such as individual control and remote control options.

Individual Control



Wireless room thermostat (option)
UTW-C58XD



Wired room thermostat (option)
UTW-C55XA



Wired remote controller (option)
UTW-C74TXF*1
UTW-C74HXF*1

RF module



UTW-MRCXD



Adapters for external devices



Web server (option)
UTW-KW1XD
UTW-KW4XD



MODBUS® clip (option)
UTW-KMBXJ*2

Internet



Remote control system



Smart device control



Home automation system

* Please refer to page W-036 and W-037 for system compatibility information.



Super High Power Series Hydraulic unit

Service & Maintenance Tool



Web server (option)
UTW-KW1XD
UTW-KW4XD

OR



LPB clip (option)
UTW-KL1XD

Service tool (option)



UTW-KPSXD*³
software



UTW-KSTXD*⁴

*³: UTW-KW1XD or UTW-KW4XD is required for the connection.
*⁴: UTW-KL1XD is required for the connection.

Hydraulic unit Controller

Easy-to-set operation modes

- Selecting the heating mode and domestic hot water (DHW) operation

Large liquid crystal display

- Shows operation status
- Shows error messages
- Messages in plain text

Navigation and setting

- Select from heating menu
- Setting Time program



HMI kit (option)
UTW-KHMXE
Supports multiple languages

Comfort Control

The high-grade heating controller automatically adjusts the flow temperature according to the climate conditions to maintain the room and domestic hot water temperatures at the desired levels.

Hydraulic unit Controller

4 Heating modes

1. Automatic mode

Enables automatic switching between Comfort mode and Reduce mode according to time program

2. Reduce mode

Maintains water temperature at a lower level

3. Comfort mode

Maintains water temperature at a comfortable level

4. Protection mode

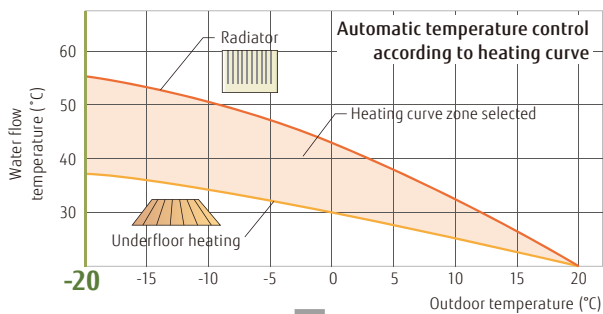
Activates frost protection in standby operation



Useful Features

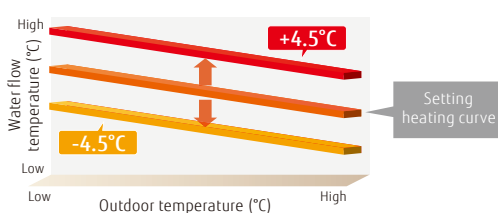
Automatic heating curve control

Automatic temperature regulation according to heating curve (depending on heating terminal and outdoor temperature)



The heating curve will shift to adjust the room temperature setting.

Can be fine-adjusted when it is too warm or too cold.



Quick recovery from defrosting

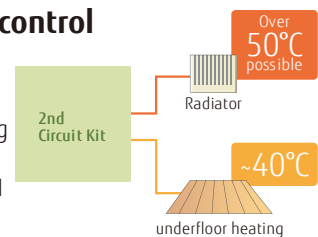
Maintains room temperature by boost start operation during defrosting.

Auto changeover

When cooling mode is selected, the system automatically switches between cooling and heating modes depending on the outdoor temperature to serve as an all-season air conditioner.

2-zone independent control

2-zone independent control (For example, the individual control of 2 underfloor heating zones or the combination of 1 underfloor heating zone and 1 radiator zone)*1

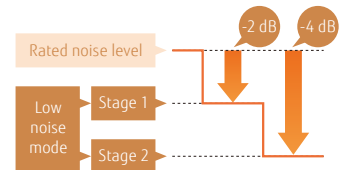


*1: Optional parts required

2-stage low-noise mode

The outdoor unit can be switched to quiet mode, depending on the installation environment.

*Effective only for High Power Series



Backup heater operation

Backup heater maintains a comfortable room temperature even when the outside temperature is low. The backup heater is intelligently controlled as a safety backup for very cold days and nights, and only operates when really needed.

Energy Saving

Time program

- The timer is easy to set.
- You can select the heating mode in conjunction with various times of the day.

Day-weekly timer

- Allows up to 3 settings per day.
- Allows individual settings for each day of the week.

Holiday timer

- Allows up to 8 settings.
- While you are away from home for an extended period during winter, the system prevents your room or house from freezing.

Peak cut Function*2

Sets the peak current value to reduce power consumption.

Mode	Ratio to reduce power consumption
1	100%
2	75%
3	50%
4	Almost 0%

* Please refer to page W-036 and W-037 for optional parts information.



Safety Features

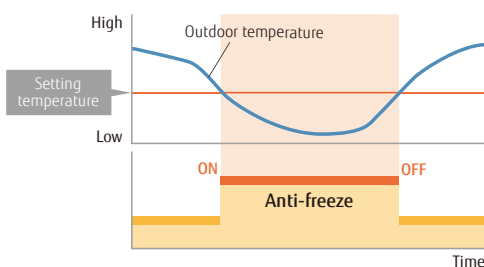
Anti-Legionella function

Prevents the growth of Legionella bacteria in the DHW tank to supply safe and clean hot water at all times.



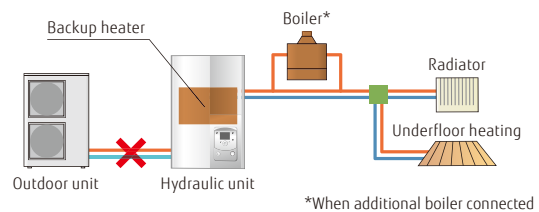
Anti-freeze function

When the outside temperature drops below a specified level, the compressor will self-activate and water will also be automatically circulated to prevent freezing.



Emergency operation

If an outdoor unit fails to operate, a built-in backup heater or an external boiler is activated to supply an uninterrupted supply of hot water to the house.

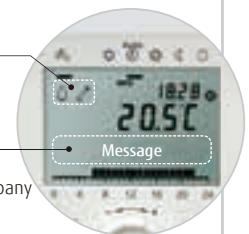


Error and Maintenance Alarm

Enables quick error-handling services and maintenance

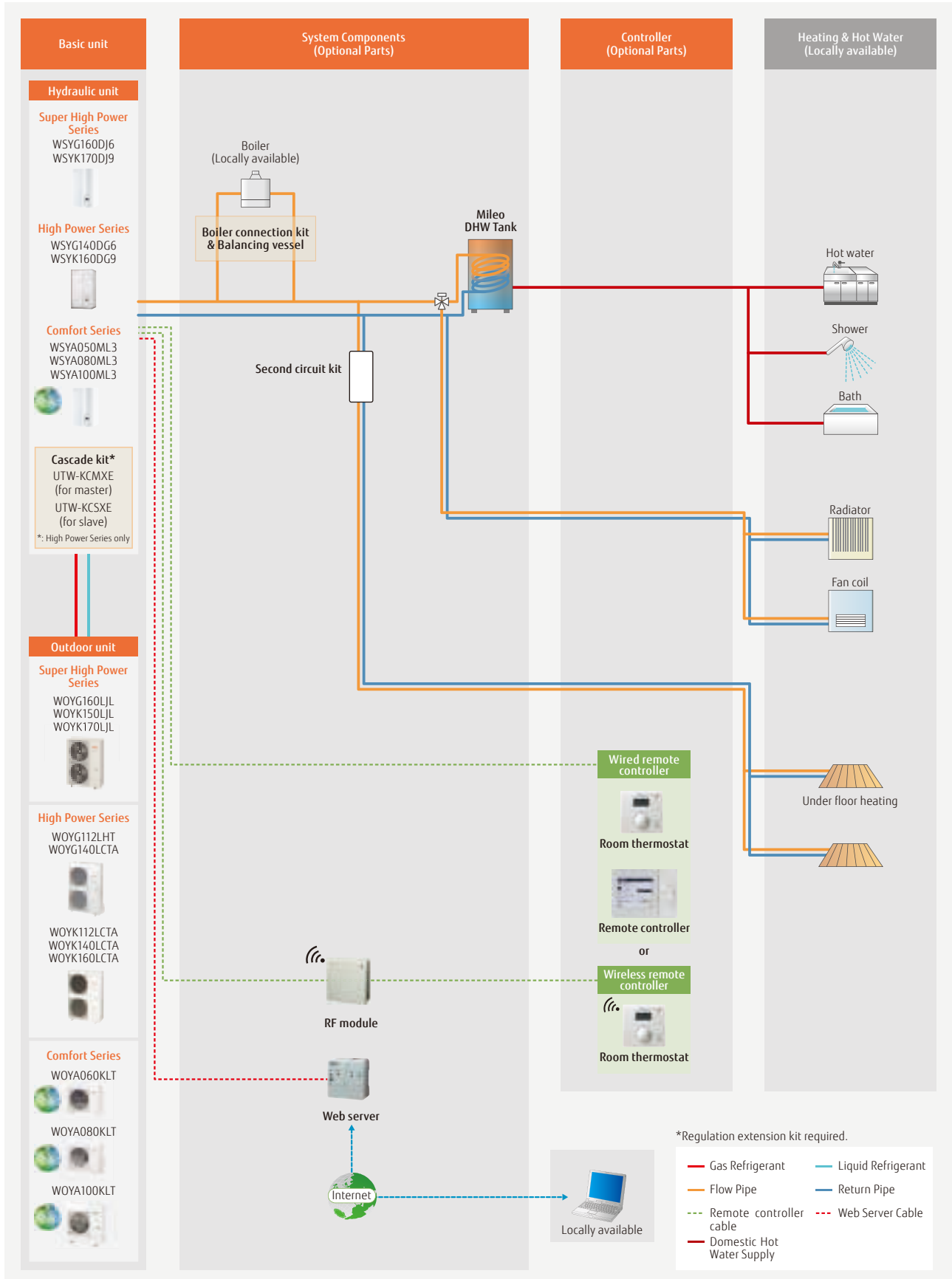
- Error
- Maintenance

- Error history saves 10 errors in memory
- Display telephone number of service company

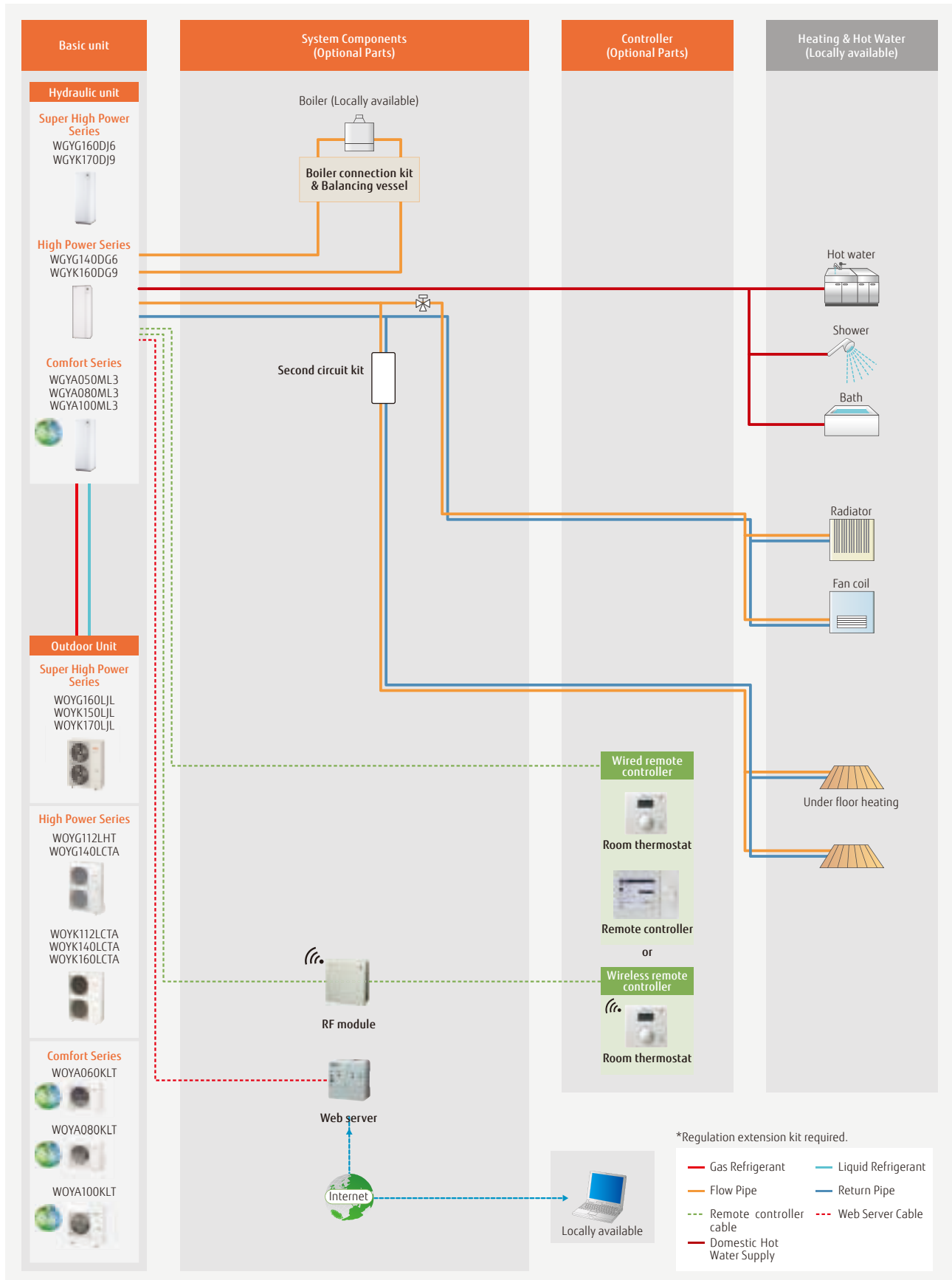


System Configuration

Split Type



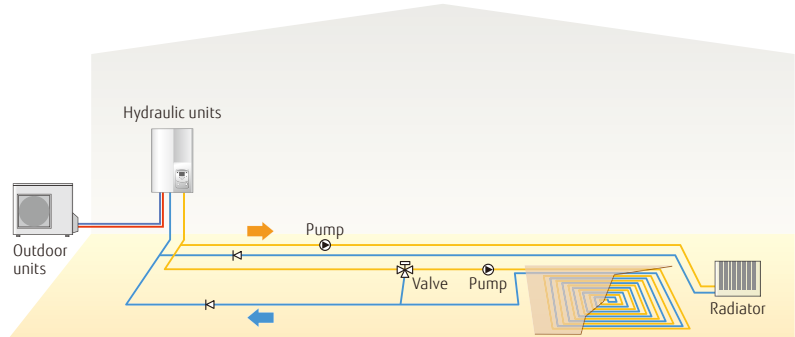
Split DHW Integrated Type



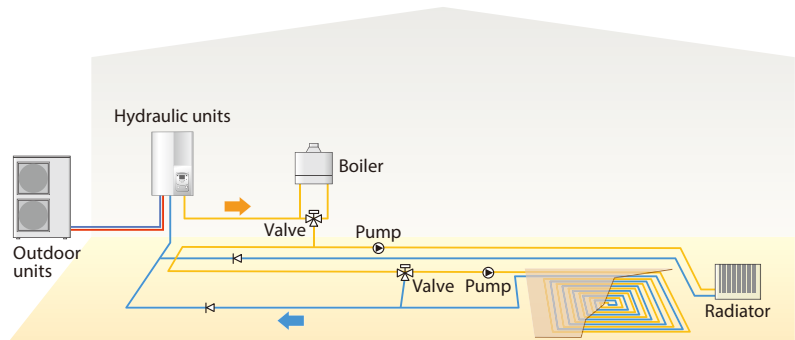
Case Studies

Split Type

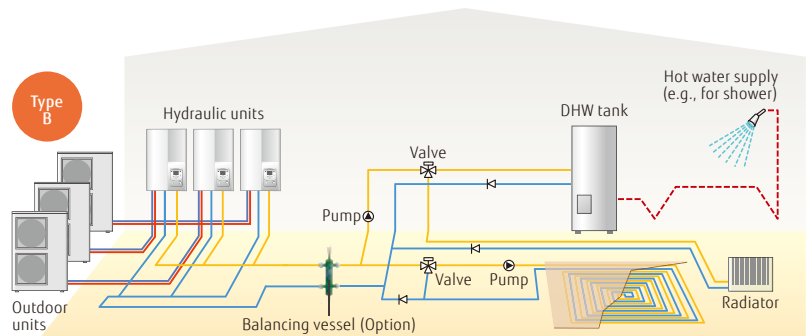
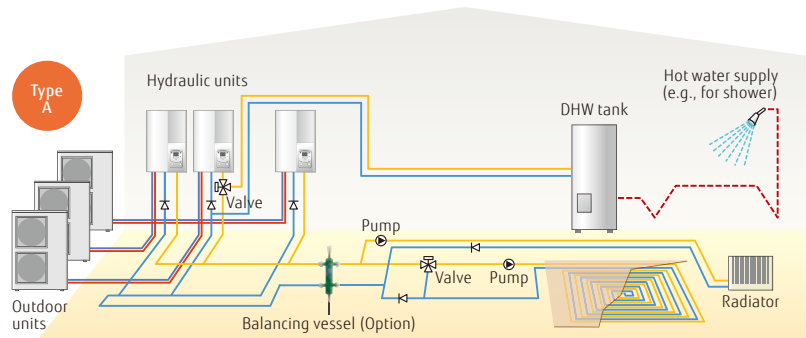
**2-emitter simultaneous heating
(Individual control)**
Underfloor heating + Radiator



**Boiler connected to heating
(Boiler + Heating)**



**2-emitter simultaneous heating &
domestic hot water supply (Cascade)**

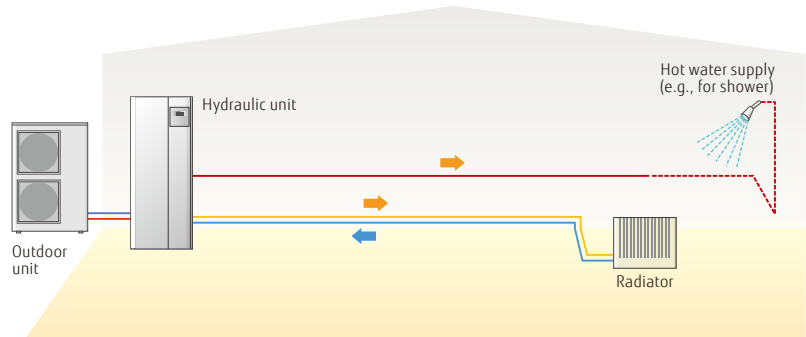


*The hydraulic layouts shown are mainly representation. Please check with local dealer for actual hydraulic connections.

Split DHW Integrated Type

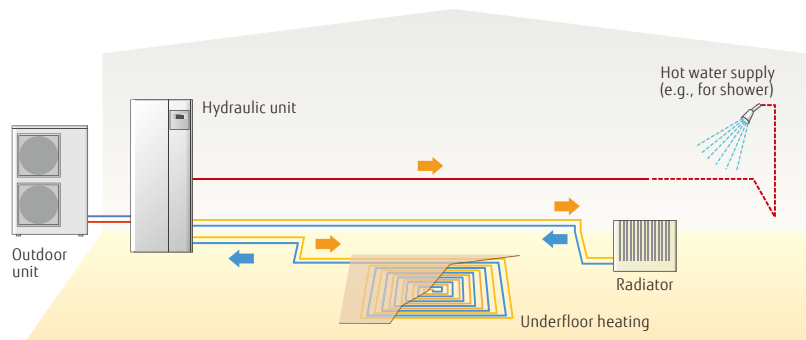
Single heating & domestic hot water supply

Radiator + domestic hot water supply

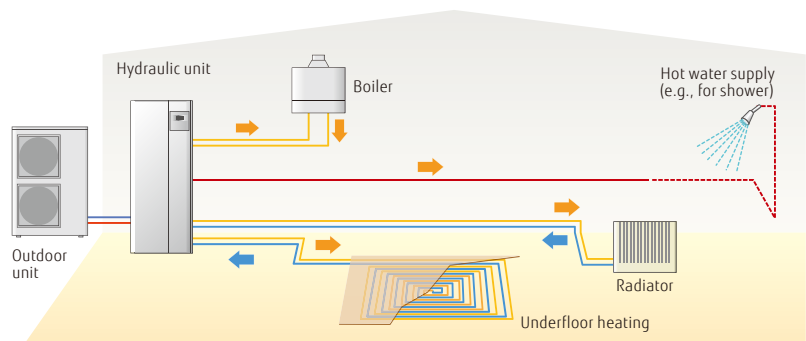


2-emitter simultaneous heating (Individual control) & domestic hot water supply

Radiator + domestic hot water supply



Boiler connected to heating (Boiler + Heating) and domestic hot water supply

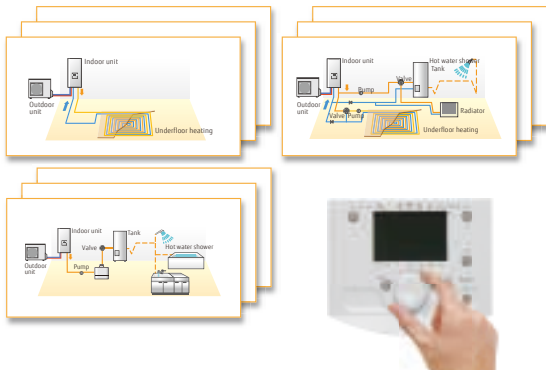


*The hydraulic layouts shown are mainly representation. Please check with local dealer for actual hydraulic connections.

Simple installation

Presetting configurations

A controller installed makes it easy to configure the system without having to set each component or unit individually.



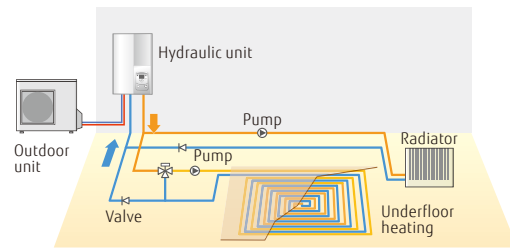
8 simple patterns for system presetting (Duo heating: 12 patterns)

Configuration (Parameter 5700)	Installation type
Presetting 1	1 heating circuit
Presetting 2	2 heating circuits
Presetting 3	1 heating circuit with boiler backup
Presetting 4	2 heating circuits with boiler backup
Presetting 5	1/2 heating circuit with buffer control
Presetting 6	1/2 heating circuit with buffer control and boiler backup
Presetting 7	Cascade connection Primary
Presetting 8	Cascade connection A
Presetting 9	Cascade connection B/C

- DHW & solar control auto detection
- Cascade connection only available in High Power models.

Outdoor temperature simulation

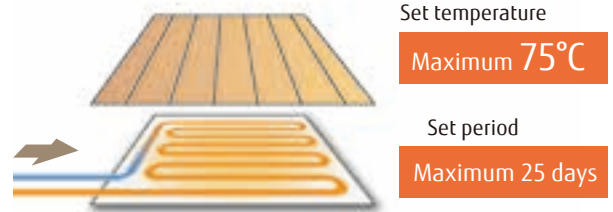
It verifies that each unit operates properly under the set conditions and expected outdoor air temperature when the system is actually assembled.



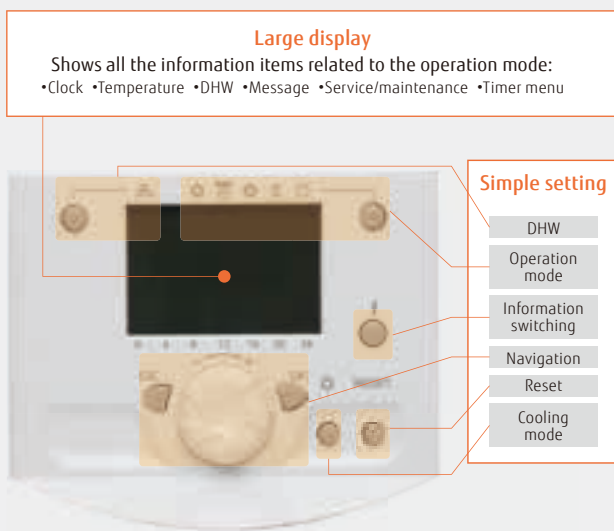
The outdoor temperatures can be simulated in the range of -50°C to +50°C.

Concrete floor drying

Allows the concrete surrounding the hot-water pipes to dry more quickly, shortening the construction period for underfloor heating installations.



Controller with a large liquid crystal display and buttons for easy function setting



Large display

Shows all the information items related to the operation mode:
•Clock •Temperature •DHW •Message •Service/maintenance •Timer menu

Simple setting

- DHW
- Operation mode
- Information switching
- Navigation
- Reset
- Cooling mode

Main operation flow and settings for installers and end users

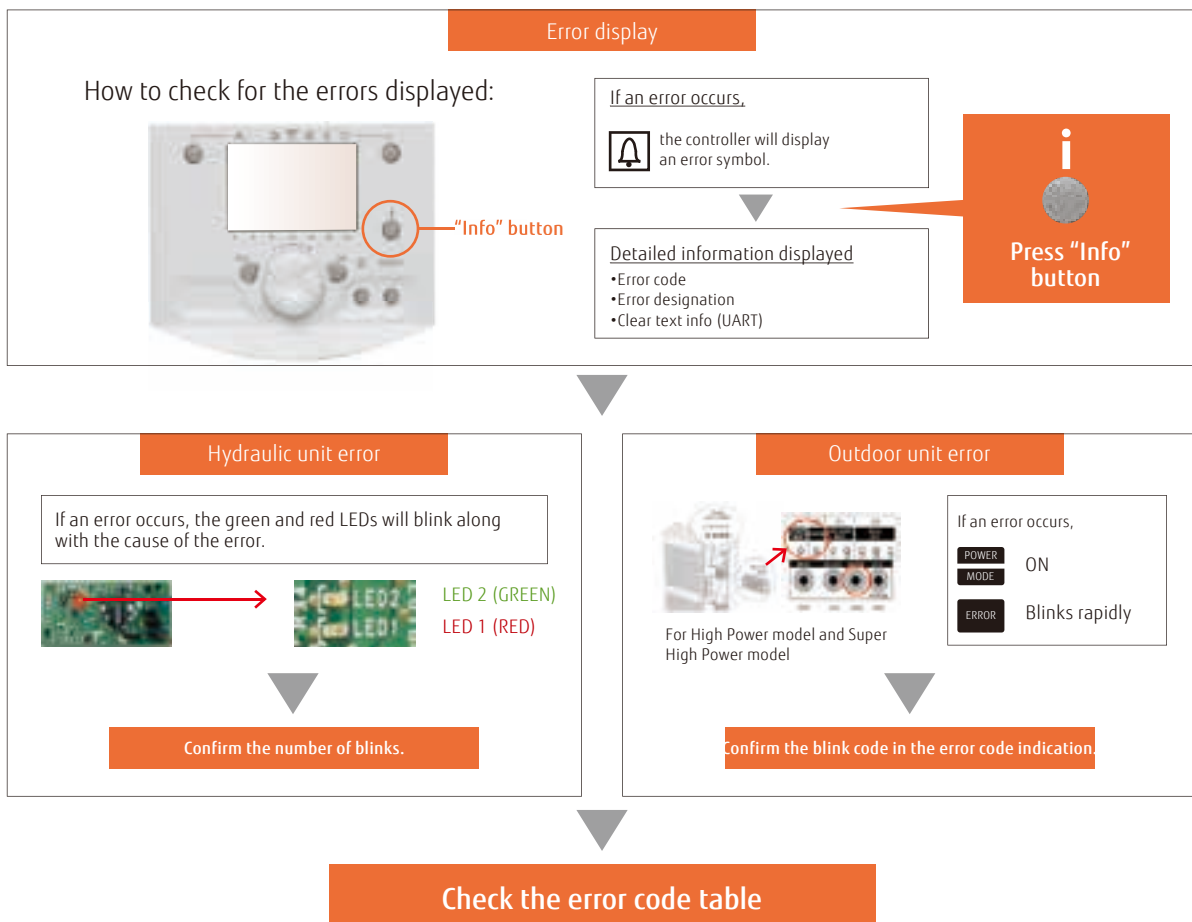
	Flow Chart	Example Item
Installers	1 Install Setting	Pump speed setting, Configuration, Heating curve setting, Heat pump shut off
	2 Option Setting	Cooling kit, DHW kit, Boiler kit
	3 Convenient Function	Automatic heating curve setting, Underfloor controlled driving, Outdoor temperature adjustment, Maintenance period setting
	4 Workout Setting	Outdoor temperature simulator
	5 Confirmation	Checking operation (Heating and cooling, DHW, option)
End users	6 User Setting	Date and time, Time program, Operation temperature setting

Easy Installation & Maintenance

- All hydraulic safety and control components are built in with no additional selection required.
- Lifting bars for installation free of difficulty or risk
- Easy access for maintenance
- Refrigerant pump down operation

Maintenance Support

Diagnostics functions for troubleshooting

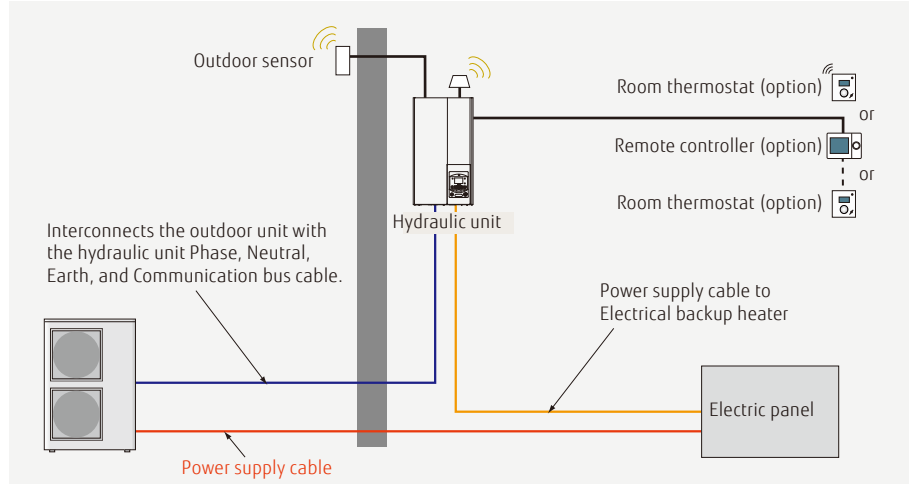
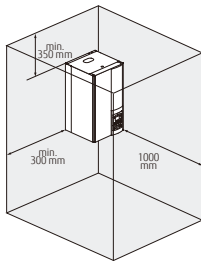


Installation requirements

Installation of equipment & electrical wiring

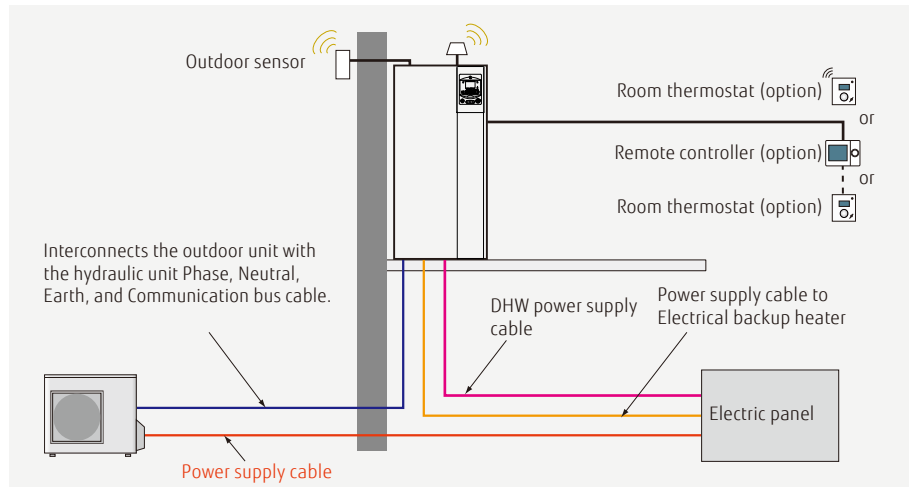
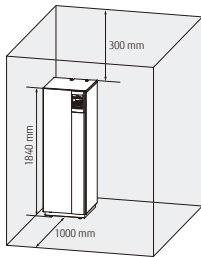
Split type Hydraulic unit

- The Hydraulic unit is hung on the wall.
- Weight ≤ 88 kg (including water)
- Space for maintenance needs to be taken into consideration.



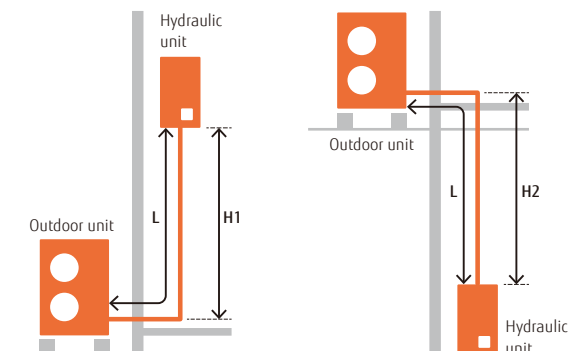
Split DHW Integrated Type Hydraulic Unit

- Floor standing
- Weight ≤ 393 kg (including water)
- Space for maintenance needs to be taken into consideration.

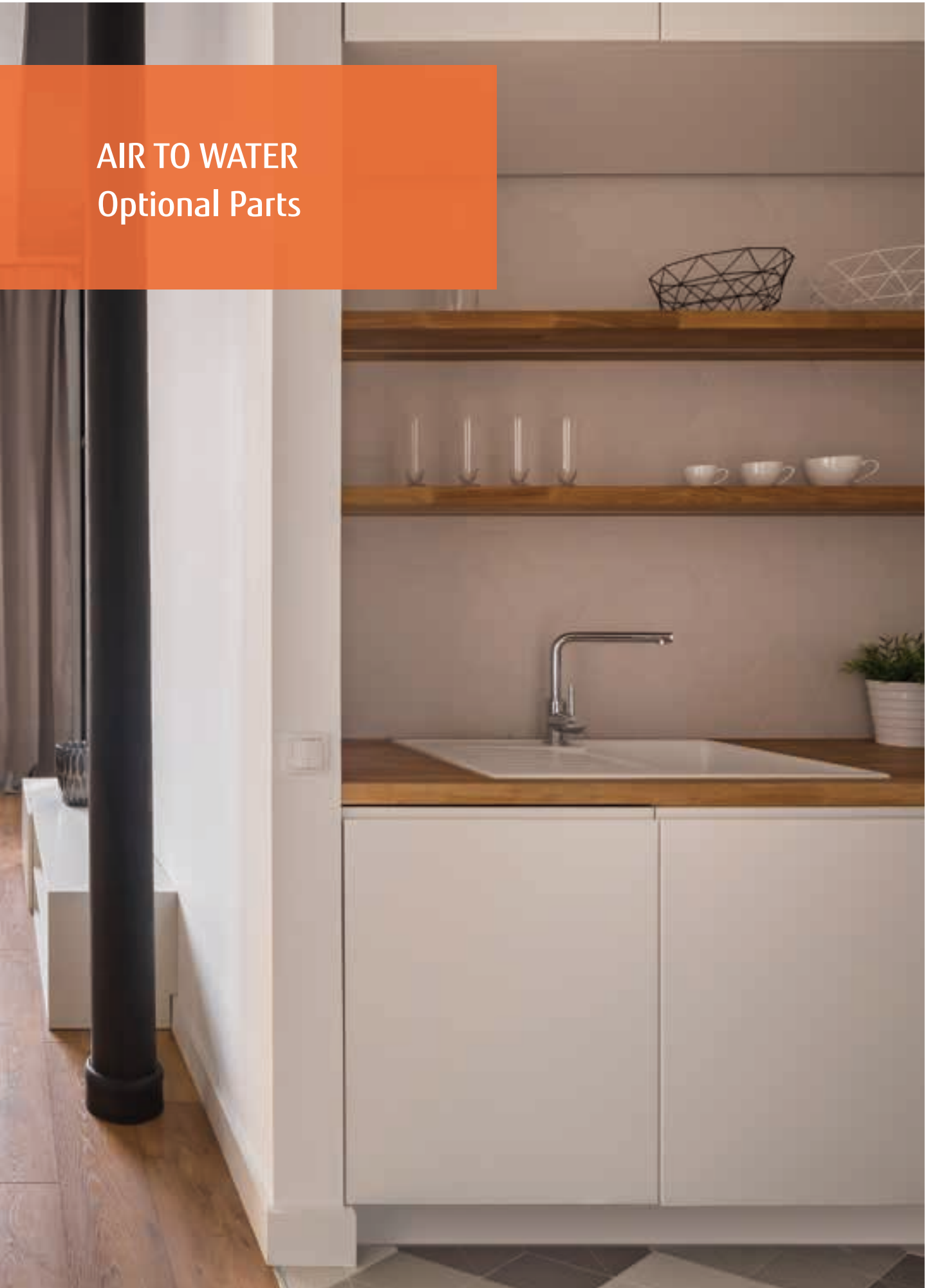


Piping and Wiring split type




















Series	Capacity range (kW)	Pipe diameter (Liquid/Gas) (mm)	H1 (m)	H2 (m)	L (m)
R32 Comfort	5	6.35/12.70	+20	-20	3-30
	6				
	8				
High Power	10	9.52/15.88	+15	-15	5-20
	11				
	14				
Super High Power	16	9.52/15.88	+15	-25	5-30
	15				
	17				



**AIR TO WATER
Optional Parts**



Optional Parts

Product Name	Model Name	Split Type												Split DHW Integrated Type											
		Super High Power			High Power				R32 Comfort					Super High Power			High Power						R32 Comfort		
		10	30		10		30		10					10	30		10		30		10				
		16	15	17	11	14	11	14	16	5	6	8	10	16	15	17	11	14	11	14	16	5	6	8	10
Second circuit Kit	 UTW-KZSXE*6	-	-	-	•	•	•	•	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-
	 UTW-KZDXE*6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•	•	•	•	•
	 UTW-KZSXJ	•	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	 UTW-KZDXJ	-	-	-	-	-	-	-	-	-	-	-	•	•	•	-	-	-	-	-	-	-	-	-	-
Boiler connection kit	 UTW-KBSXD	-	-	-	•	•	•	•	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-	-	
	 UTW-KBDXD	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•	•	•	•	
	 UTW-KBSXJ	•	•	•	-	-	-	-	-	-	-	-	•	•	•	-	-	-	-	-	-	-	-	-	
Balancing vessel	 UTW-TEVXA	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
DHW kit	 UTW-KDWXD (External)	•	•	•	•	•	•	•	•	•	•	•	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	
DHW tank	200 Liters 300 Liters  UTW-T20AXH UTW-T30AXH	•	•	•	•	•	•	•	•	•	•	•	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	
	200 Liters 300 Liters  UTW-T20BXH UTW-T30BXH	•	•	•	•	•	•	•	•	•	•	•	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	*1	
DHW expansion kit	 UTW-KDEXE	-	-	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•	•	•	-	-	-	-	
	 UTW-KDEXL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	•	
Circulating pump	 UTW-PHFXG	•	•	•	•	•	•	•	-	-	-	-	•	•	•	•	•	•	•	•	-	-	-	-	
Cooling kit	 UTW-KCLXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	-	-	-	-	
	 UTW-KCLXL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•	•	•	
Regulation extension kit	 UTW-KREXD	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
Drain pan	 UTW-KDPXB	-	-	-	-	-	-	-	•	•	•	•	-	-	-	-	-	-	-	-	•	•	•	•	
Cascade master kit (incl. LPB clip)	 UTW-KCMXE	-	-	-	•	•	•	•	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

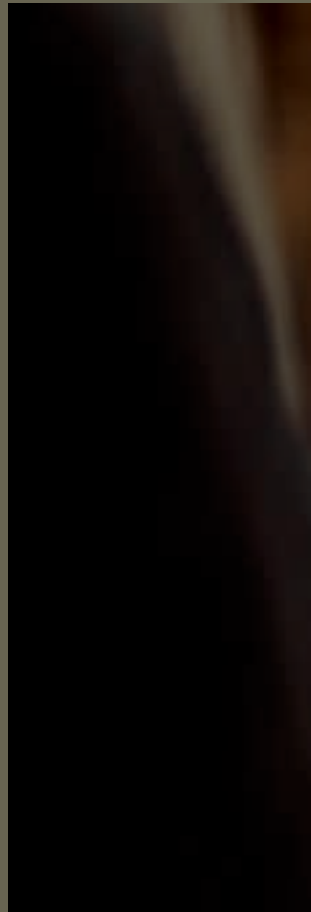
Product Name	Model Name	Split Type												Split DHW Integrated Type										
		Super High Power			High Power				R32 Comfort					Super High Power			High Power				R32 Comfort			
		1Ø	3Ø		1Ø	3Ø		1Ø		1Ø			1Ø	3Ø		1Ø	3Ø		1Ø					
		16	15	17	11	14	11	14	16	5	6	8	10	16	15	17	11	14	11	14	16	5	6	8
Cascade slave kit (incl. LPB clip)	UTW-KCSXE	-	-	-	●	●	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
HMI kit	UTW-KHMXE*2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Remote controller	Wired UTW-C74TXF*2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Wireless UTW-C74HXF*2	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Room thermostat	Wired UTW-C55XA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Wireless UTW-C58XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Outdoor sensor transmitter	UTW-M0SXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
RF modules for BSB-Port	UTW-MRCXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Web server	UTW-KW1XD UTW-KW4XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
LPB clip	UTW-KL1XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
MODBUS® clip	UTW-KMBXJ	-	-	-	●*5	●*5	●*5	●*5	●*5	-	-	-	-	-	-	●*5	●*5	●*5	●*5	●*5	●*5	-	-	-
Service tool (incl. OCI700 Adapter)	UTW-KSTXD	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3
Service tool software	UTW-KPSXD	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4
External connect kit	UTY-XWZXZ2	-	-	-	●	●	●	●	●	-	-	-	-	-	-	●	●	●	●	●	-	-	-	-
	UTY-XWZXZ3	●	●	●	-	-	-	-	-	-	-	●	●	●	●	-	-	-	-	-	-	-	-	●
Electrical backup heater relay	UTW-KBHL	-	-	-	-	-	-	-	●	●	●	●	-	-	-	-	-	-	-	-	●	●	●	●

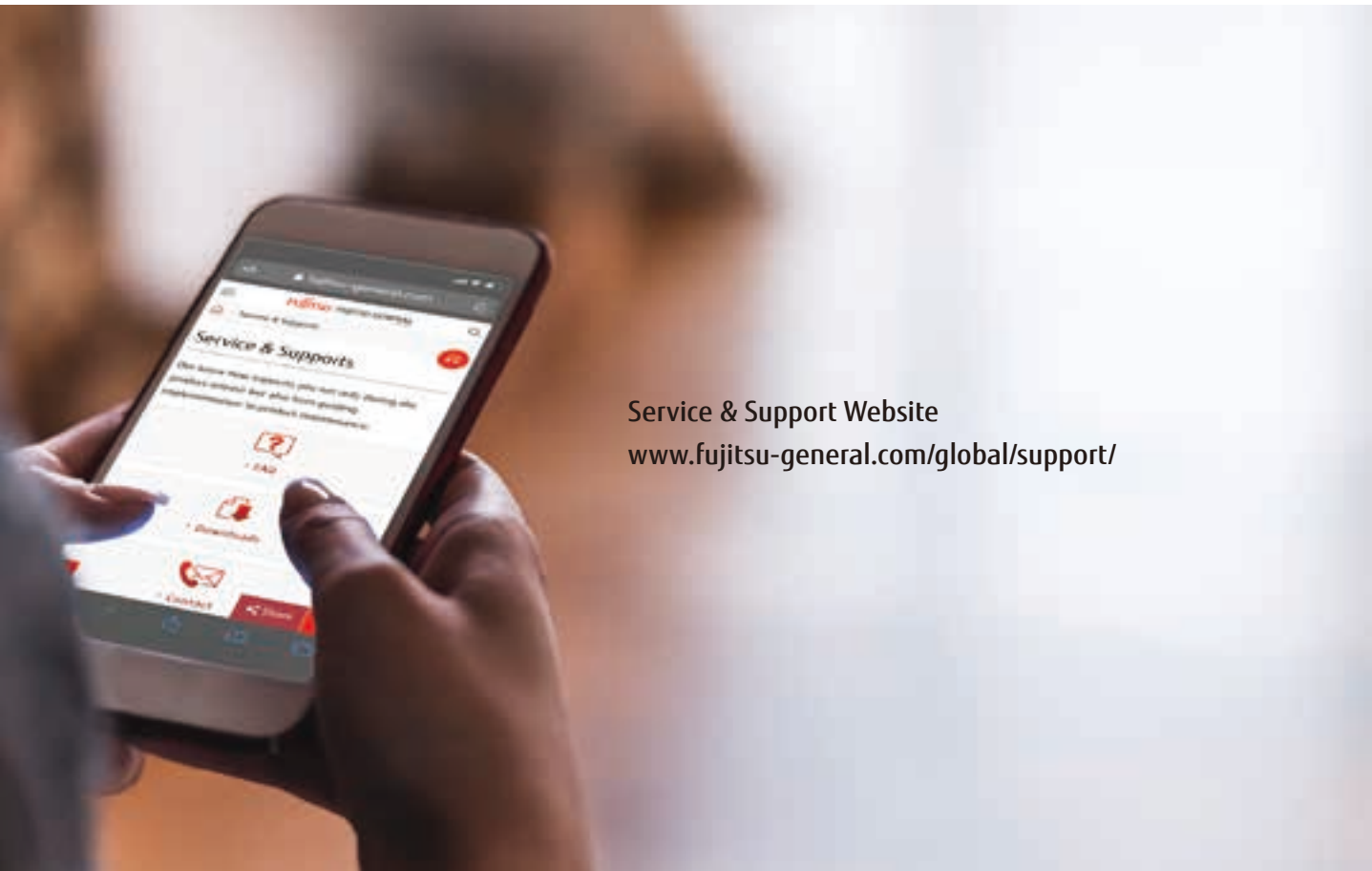
●: Available -: Not Available

*1: Split DHW integrated type supplies DHW without the DHW kit and DHW tank.
 *2: Includes 19 languages with no need to prepare an RC for Eastern Europe separately.
 C74TXF has a built-in room temperature sensor.
 C74HXF has a built-in room temperature and humidity sensor.
 *3: UTW-KL1XD is required for the connection.
 *4: UTW-KW1XD or UTW-KW4XD is required for the connection.
 *5: Additional Spare parts 9708302034 (Analogue interface PCB) and 109696 (connection wire) are required.
 *6: The UTW-KREXD (Regulation extension kit) is not included but is required for connection.

SUPPORT

- Sp-002 AIRSTAGE Support
- Sp-004 HVAC system design Support Tool
- Sp-006 WATERSTAGE Support Tool
- Sp-008 Quick Service & Maintenance
- Sp-010 Service Tool
- Sp-011 Web Monitoring Tool





Service & Support Website
www.fujitsu-general.com/global/support/

Our knowledgeable sales and service representatives assist you, from product selection to installation and maintenance.

Category	Information material											Tool						
	Product sales training material	Product technical training material	Product news	Brochures	Promotional movies	Operation manuals	Design & Technical manuals	Certification data	2D CAD data	3D CAD (Revit) data	Installation manuals	Service manual	WATERSTAGE Package label creator	Design simulator (Room air conditioner, Packaged air conditioner, and VRF)	WATERSTAGE proposer	CFD simulation	Service tool and Web monitoring tool	Mobile technician
Product training	●	●																
Product information seeking			●	●	●	●	●											
Technical information seeking							●	●					●					
Model selection							●							●	●			
Design							●		●	●								
Verification																●		
Installation							●				●							
After-sales service												●					●	●

AIRSTAGE Support

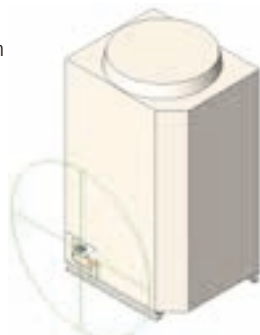
Fujitsu General provides engineers and consultants with a wide range of product and technical information. In addition, we conduct research on new products and support design activities. We provide a wide range of support services from design to installation to maintain high quality.

Technical information

We provide equipment selection software that facilitates the design of air conditioning systems by providing performance data for the units and estimation for model selection.

Features

- Design & Technical manuals
- Model selection & estimation
- Certification data
- 2D/3D CAD data



2D/3D CAD data

Product information

Information on new models is provided in the form of documents and movies in a timely manner for release, readily downloadable from the private section of our website. Contact your Fujitsu General representative for access information.

Features

- Product news
- Brochures & manuals
- Promotional movies



www.fujitsu-general.com/uk/support/downloads/vrf/

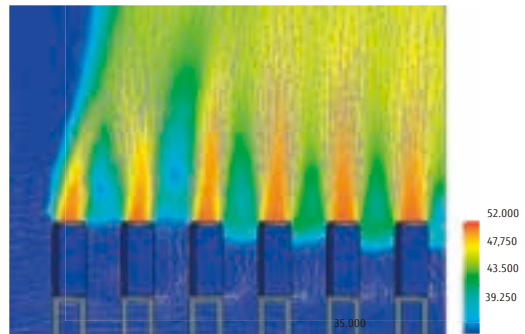


Technical support

Technical support is offered at every stage, from design through to installation, to assist in optimizing air conditioning solutions.

Features

- CFD simulation
- Guidelines
- Commissioning support



CFD simulation



Commissioning support

Training facilities



Fujitsu General regularly provides professional product, technical and service training at its training facilities worldwide. These research facilities also support the development of human resources with advanced technical skills.

Features

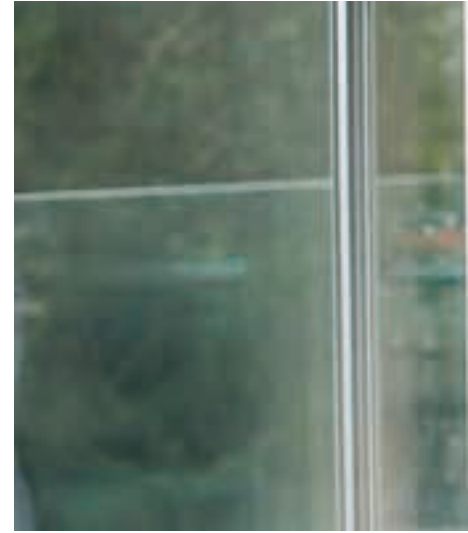
- Designing VRF systems
- On-site training for control systems

- 1 Head office training center in Japan
- 2 Training center in China
- 3 Asia training center in Singapore
- 4 Europe training center in the United Kingdom
- 5 Europe training center in Germany
- 6 America training center in the United States
- 7 Middle East training center in the UAE
- 8 Oceania training center in Australia

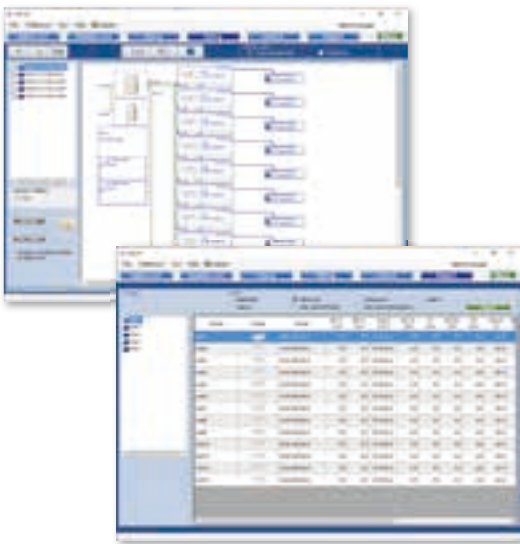
HVAC system design Support tool

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

Once the project design is complete, the Export function makes it easy to generate material lists, product specifications, and refrigerant calculations, and more. You can also export in Word, Excel, and Acrobat formats, as well as group CAD data related to your project.



Design simulator



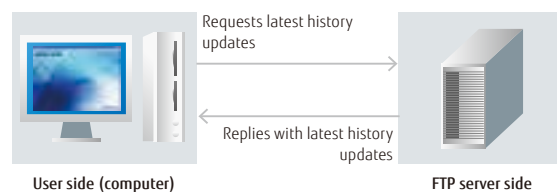
Outputs in the format that matches the application

You can export your project information 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

- The required performance, type, and temperature conditions for each indoor unit are entered and then dragged and dropped onto the outdoor unit to automatically set each unit.
- Creates piping and wiring diagrams automatically to facilitate branching, grouping, and option settings.
- The additional refrigerant charging is automatically calculated when the pipe length is entered.
- Easy configuration of remote controller groups, central controller, and converters.
- The equipment list including the equipment information is created automatically.



Update your Design simulator

The database can be updated easily online with the AutoUpdate function using FTP.



BIM

Building information modeling



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

Fujitsu General is releasing BIM files of our products on the BIMobject® 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 largest BIM platform.

About BIM files

- BIM files can be viewed in Autodesk Revit® 2018 version or later.
- In each BIM file, the location of the connectors for the refrigerant and drain pipe is different.
- Each BIM file includes several family types.
- A catalog and specification sheet is available in Revit file format for each product.



RFA (Revit data)

A data format available for BIM-designed projects

Data content

- Shape (Size)
- Drain direction
- Pipe direction
- Power supply location
- It contains information about the above specifications.



Type catalog with product specifications



DWG

a standard data format used for Autodesk products

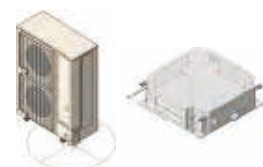


DXF

Intermediate data commonly available in CAD products

Data content

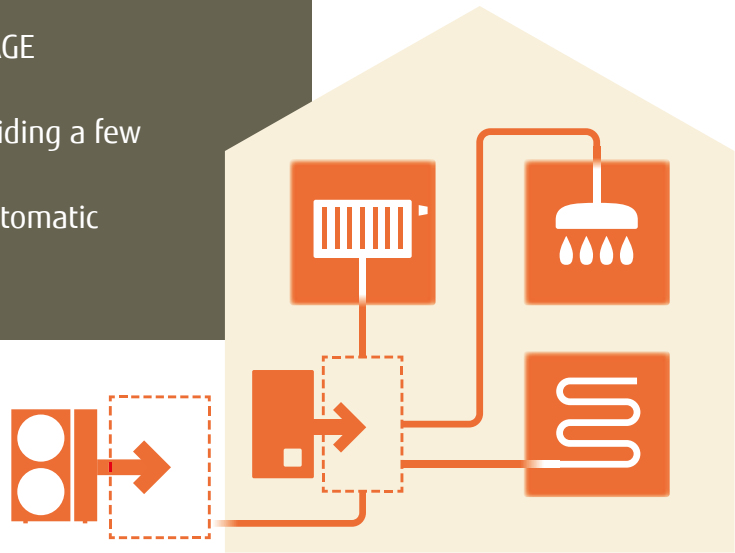
- Shape (Size)



*To learn more about how to use BIM files, refer to the instructional video on each product page. youtu.be/wfL-hwFQ7dM

WATERSTAGE Support tool

Fujitsu General's software for WATERSTAGE automatically creates a combination of WATERSTAGE equipment by simply providing a few parameters. Supports multiple languages with an automatic update function.



WATERSTAGE proposer



Selecting models with detailed technical information

- Simply enter the region where the equipment will be installed, the required heating capacity, the method of heating and other factors, and the software will select the appropriate equipment automatically.



The images of the optional items will help you configure your system correctly. If more than one WATERSTAGE equipment is required, all relevant option items will be selected automatically.



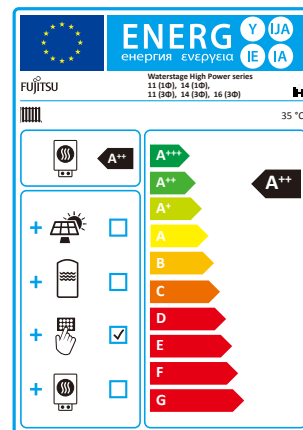
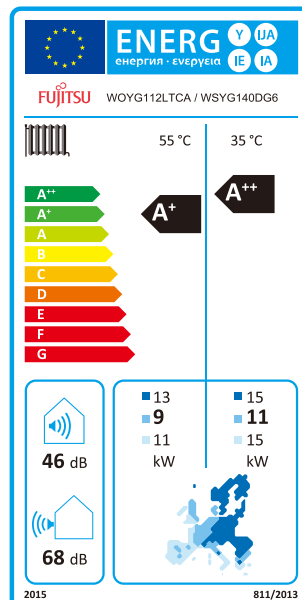
The selected unit can be modified after reviewing the overall system configuration. The images and the list of devices are displayed at the same time, helping to avoid mistakes in device selection.

WATERSTAGE Package label creator

Download Energy labels and Fiches from our website

ErP documents such as Energy labels, Product fiches, Package labels, Package lists, Information sheets, and EC Declarations can be searched for and downloaded from our website.

We will also provide an online service in the future so that installers can easily create various package labels and package fiches for different models.



Quick service & maintenance

In the unlikely event that a problem should occur with the unit or system, a wide variety of support tools are available to assist with prompt service and maintenance anytime, anywhere, including error code displays on the product, service tools to check the detailed status of the entire system, and remote monitoring tools using the internet.

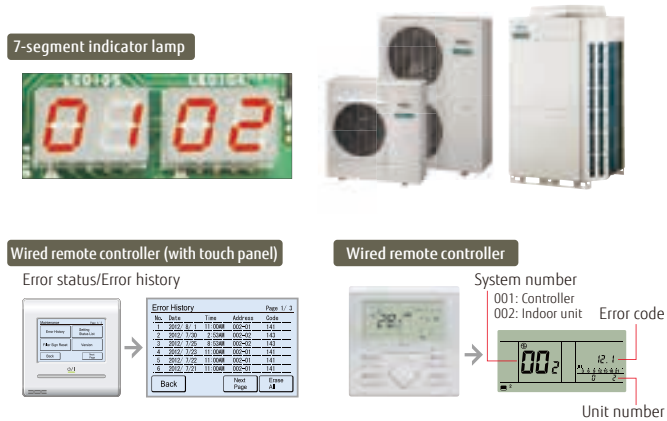


Easy maintenance & monitoring

Designed for easy maintenance

The operating status of the air conditioner and detailed trouble conditions are displayed on the 7-segment indicator lamp on the outdoor unit printed circuit board (PCB) and on the screen of the remote controller. Check the status of the unit quickly for a prompt response.

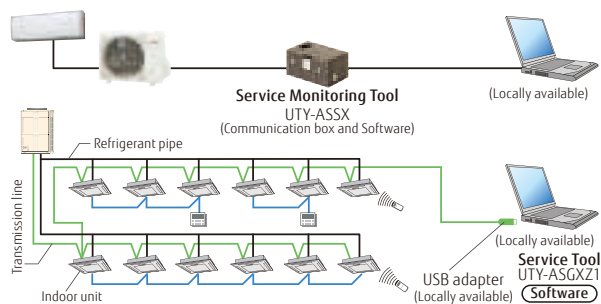
- Display the operation mode at the time.
- Discharge temperature and pressure
- Compressor operation status
- "Address/Type/Number" of the outdoor unit
- Error code



Error diagnosis by Service tool

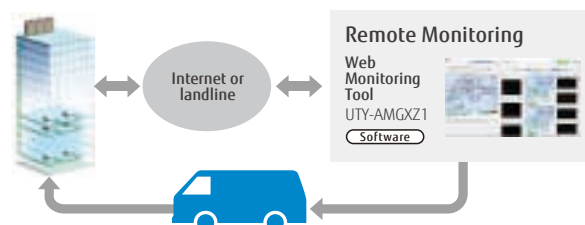
Connect Service tool to check the status details of units, from single split to VRF, on a computer screen. Check the errors quickly for prompt countermeasures.

- Operating status/control
- Monitoring operating conditions
- Monitoring sensor data
- Indicating trend graphs
- Error history
- Indicating refrigerant circuit diagrams (for VRF)



Remote monitoring

VRF system operating status and trouble status details can be monitored remotely at any time via the internet. Prompt coordination is available with service personnel.

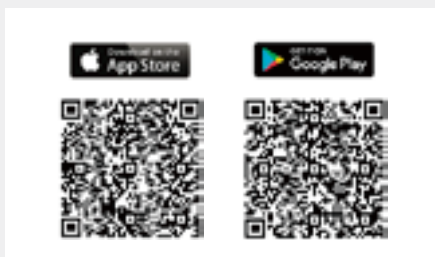




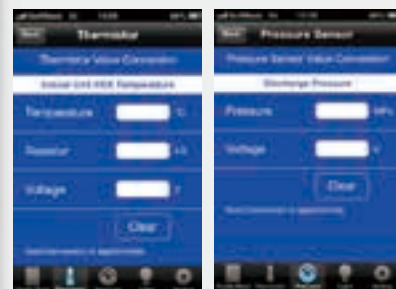
Mobile troubleshooting App for iOS and Android™ devices

We will release an App for troubleshooting tools for iPhone, iPod touch and other Apple devices, and Android products for Fujitsu General air conditioners (Room air conditioner/ Packaged air conditioners VRF and ATW, "AIRSTAGE Mobile", and R32 calculation of allowable refrigerant capacity)

Use Error Code Check, Troubleshooting, and Sensor Check to understand the status of your air conditioner.



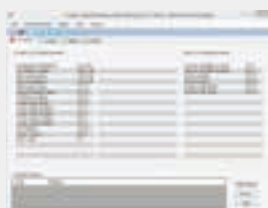
Mobile Technician **FREE**



Service monitoring tool for Single split, Multi-split & Air to water



- A quick overview of the temperature sensor readings and the electronic expansion valves (EEVs), fans, compressors and other control components
- It is not always easy to read the temperature sensor and know the status of the control components. So let the Service monitoring tool judge them.
- Visualizes protected operations
- Troubleshoots intermittent problems effectively
- Provides proof of normal operation to customers during periodical maintenance



Actual operating conditions



Graphs



Operational histories

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

Service tool

UTY-ASGXZ1

Extensive monitoring and analysis functions that make installation and maintenance easier

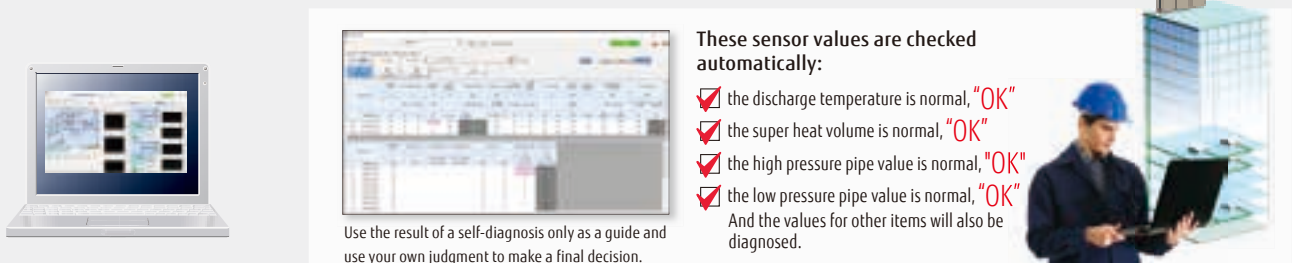
- The operation status of the system can be monitored and analyzed to detect any malfunctions.
- Data on the operation status of the system can be stored on a computer to allow for remote access.
- Up to 400 indoor units in a single VRF network system can be controlled and monitored for a large building or hotel.
- This software can be connected to any point of transmission line with a USB adapter (locally available).

* Saved data can be displayed offline. Note that the data saved by the following software applications cannot be displayed.

- UTR-YSTB/UTR-YSTC (Service tool)
- UTR-YMSA (Web monitoring tool)

Automatic operation check for refrigeration cycles

Once installed, the Service tool automatically checks for refrigeration cycles. The self-diagnosis function determines whether each sensor value is normal, which reduces the need for manual checks. The result of a diagnosis can be provided in a report.



Use the result of a self-diagnosis only as a guide and use your own judgment to make a final decision.

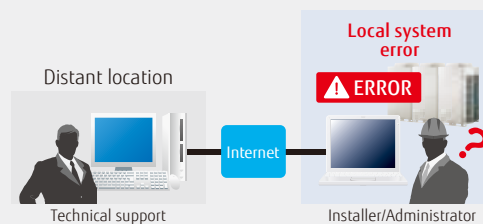
These sensor values are checked automatically:

- ✓ the discharge temperature is normal, "OK"
- ✓ the super heat volume is normal, "OK"
- ✓ the high pressure pipe value is normal, "OK"
- ✓ the low pressure pipe value is normal, "OK"

And the values for other items will also be diagnosed.

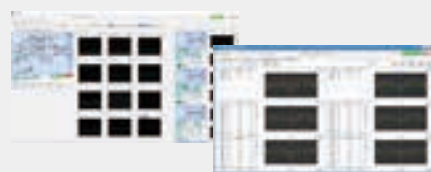
Remote technical support and maintenance

On-site check screen can be shared between on-site staff and a service technician in a remote location. When a service technician visits the site for troubleshooting, the system's operation status can be shared in real time with a remote service center for assistance. On-site staff can have an online chat with a remote service center to get further assistance.



Trend charts

Previous-generation application could display only 3 sets of data from sensors. However, the current generation of the service tool displays multiple charts simultaneously so that refrigeration cycles can be monitored and checked in greater detail.



Computer 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
Screen resolution	1366 × 768 pixels or higher
Interface	<ul style="list-style-type: none"> • USB port for U10 USB Network interface and software protection key
Software	Internet Explorer® 11 or Microsoft Edge

Packing list

Name	Quantity	Application
White-USB-key (Software protection key)	1	Software protection key to be connected to a USB port on a Service tool-installed computer. This software runs only on a computer with WibuKey.

- Computer requirements
- Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model name: 75010R) (Required for each VRF Network)

Web monitoring tool

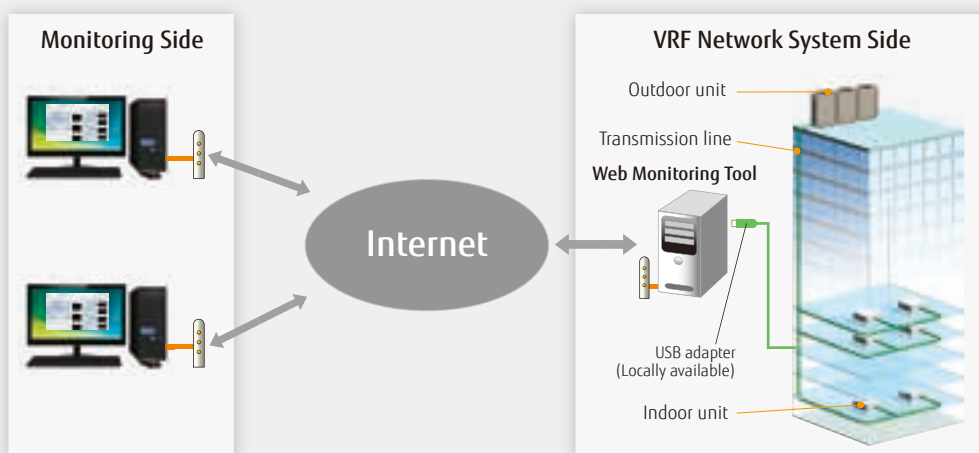
UTY-AMGXZ1

Features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during a periodical system check.
- An error notification is automatically transmitted to several locations via the internet*1.
- Requires either a dedicated internet connection or landline to operate.
- The occurrence of an error can be confirmed through an error alert and equipment status information obtained from a remote location.
- Monitoring data can be downloaded in a remote location. These data can be accessed and displayed even when the service tool is in offline mode.
- Can be viewed on the monitoring computer's Web browser without installing any special software.

*1: Internet e-mail access required.

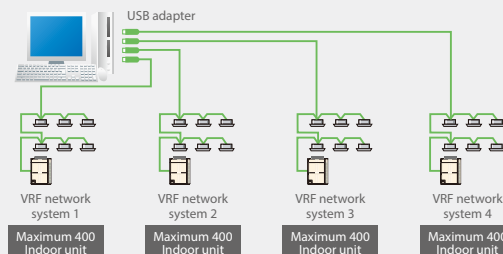
Web Monitoring System



Supporting up to 4 VRF network systems

Up to 4 USB adapters can be connected to a computer, enabling the monitoring of up to 1,600 indoor units.

Suitable for use in a large building or hotel.



Computer 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
Screen resolution	1366 × 768 pixels or higher
Interface	<ul style="list-style-type: none"> • USB ports (one for U10 USB Network interface and up to 4 ports for software protection keys) • Interface for remote connection: <ul style="list-style-type: none"> - Landline: Modem is required. - Internet using LAN: Ethernet port is required.
Software	Internet Explorer® 11 or Microsoft Edge

Packing list

Name	Quantity	Application
White-USB-key (Software protection key)	1	Software protection key to be connected to a USB port on a Service tool-installed computer. This software runs only on a computer with WibuKey.

- Computer requirements
- Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model name: 75010R) (Required for each VRF Network)

Notice regarding specifications

I.U. = Indoor Unit O.U. = Outdoor Unit Qu = Quiet * = Not decided yet

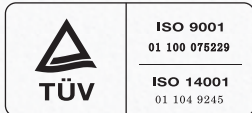
- Specifications and design are subject to change without notice for future improvement.
- For further details, check with our authorized dealers.
- Cooling and heating capacities are based on the following conditions:

Cooling	Indoor temp. : 27°C DB/19°C WB Outdoor temp.: 35°C DB/24°C WB	Heating	Indoor temp. : 20°C DB Outdoor temp.: 7°C DB/6°C WB
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- Performance tests are conducted in accordance with EN14511.
- Seasonal efficiency tests are conducted in accordance with EN14825.
- Sound power tests are conducted in accordance with EN12102.

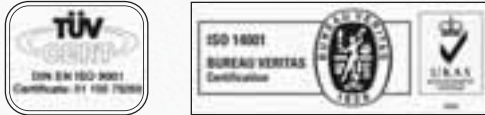


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ISO 9001 Certification number: 01 100 79269
ISO 14001 Certification number: CNBJ312244-UK

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ISO 9001 Certification number: 15917020073R5M
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