

## Notice regarding specifications

I.U. = Indoor Unit O.U. = Outdoor Unit Qu = Quiet \* = Not decided yet

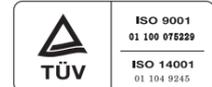
- Specifications and design are subject to change without notice for future improvement.
- For further details, check with our authorized dealers.
- Cooling and heating capacities are based on the following conditions:

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.



Fujitsu General (Thailand) Co., Ltd.



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

Fujitsu General (Shanghai) Co., Ltd.



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

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



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

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AIR CONDITIONERS LINEUP PRODUCT CATALOGUE 2022

## PRODUCT CATALOGUE 2022

### AIR CONDITIONERS LINEUP

FUJITSU GENERAL LIMITED

3-3-17, Suenaga, Takatsu-ku, Kawasaki, Kanagawa, 213-8502, Japan  
www.fujitsu-general.com



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FUJITSU GENERAL LIMITED

FUJITSU GENERAL LIMITED

## 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 or 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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#### PRODUCT LINEUP

### SPLIT & MULTI-SPLIT

### VRF

### VENTILATION

### CONTROL SYSTEM & OPTIONAL PARTS

### AIR TO WATER

### SUPPORT

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

# OUR MESSAGE



  
for Sustainable

  
for Cleanliness

  
for Future

**Innovation &  
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

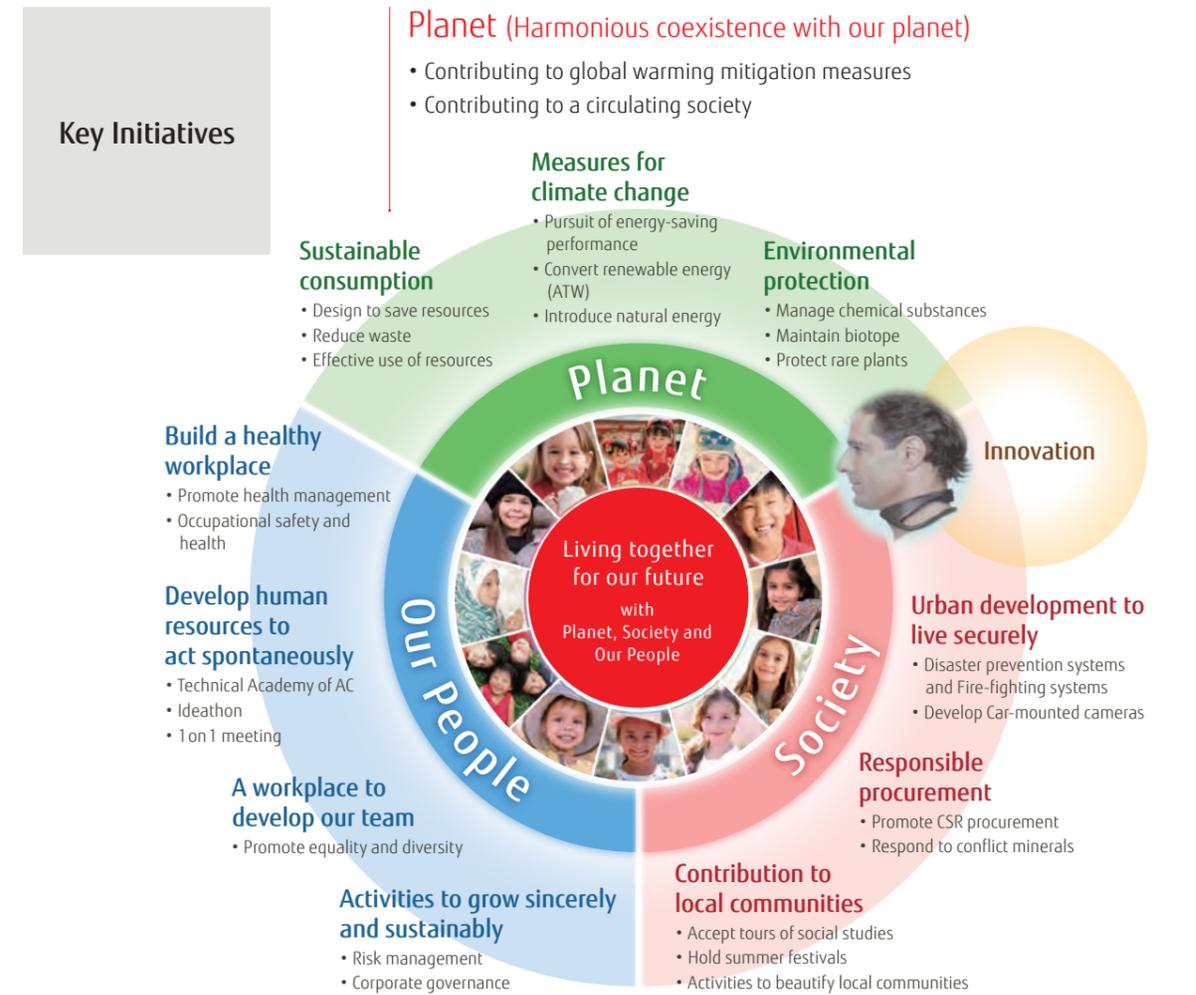


**Sustainable management**

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.

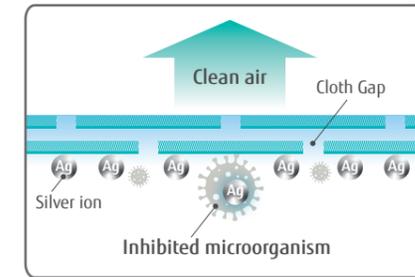


## Collecting dust particles to clean the air



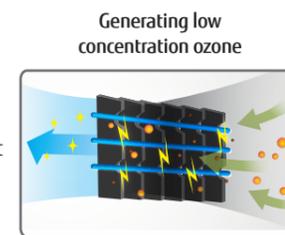
### Silver Ion Filter

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.



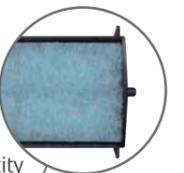
### Plasma Air Clean

Air passing through the indoor unit is cleaned by a built-in electrostatic dust collector. Pollen, house dust and other tiny pollutants are collected and removed with static electricity.

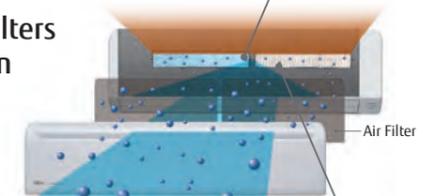


### Apple-catechin Filter

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



### Different filters are used on each side



### 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.



Adopts a high-efficiency counterflow heat exchange element

### Air handling unit

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





**The Green refrigerant**

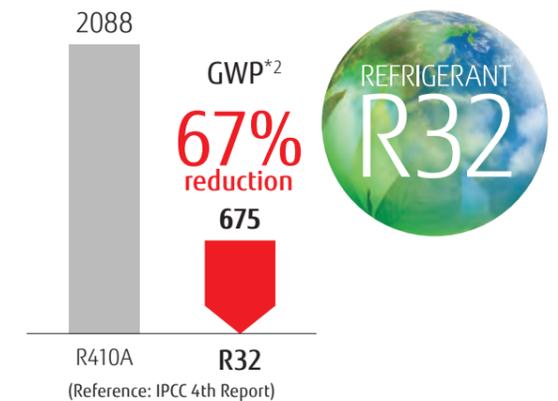
Throughout our research and development process, we are constantly striving to create products that we can be proud of in the future. The technologies we have cultivated through these efforts are incorporated into our environmentally friendly products, and are recognized in the European market, which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

### R32 refrigerant with reduced global warming potential

- **Zero** Ozone Depletion Potential (ODP<sup>\*1</sup>)
- High environmental properties
- High performance
- Economically efficient

<sup>\*1</sup> **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

<sup>\*2</sup> **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 CO<sub>2</sub>.



### 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 CO<sub>2</sub> emissions

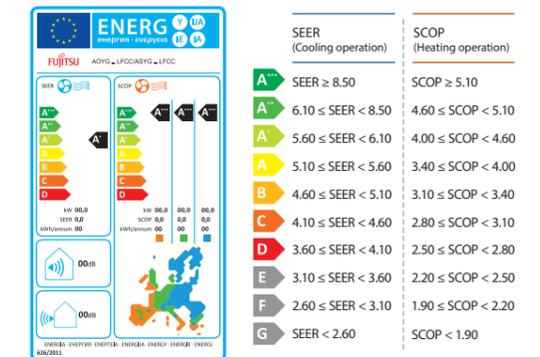
Fujitsu General products closely follow the F-Gas regulation 517/2014/EU.

#### 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.



**Less** is more

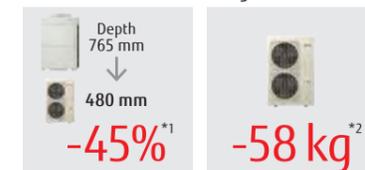
Space Noise Refrigerant

### 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)

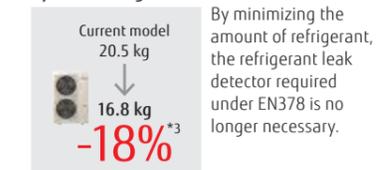


### Less Refrigerant

#### Refrigerant saving design

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

System refrigerant volume



### 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)



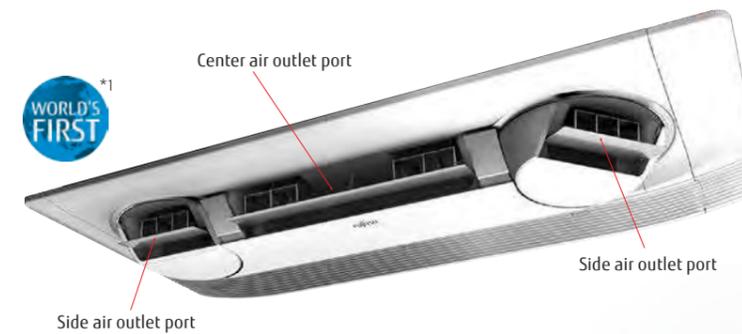
\*1: J-IV Series are compared with V Series 14/16/18 HP models. \*2: J-IV Series 18 HP model is compared with V-IV Series 18 HP models. \*3: E.g.) when 30 indoor units are connected to 1 system (Outdoor unit: 12 HP; Indoor unit: 1.1 kW × 30; Total pipe length: 277.5 m) • J-IV Series is compared with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



### Wall-mounted type

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

Hybrid Airflow, which combines air currents of different temperatures and velocities, creates a comfortable space.



\*1, \*2, \*3, \*4, \*5

## Comfort pursued through advanced technologies



Lambda heat exchanger<sup>\*3</sup>



Power diffuser<sup>\*4</sup>



Filter auto clean<sup>\*5</sup>



Dual-fans<sup>\*2</sup>



3 Air outlet ports<sup>\*1</sup>

The dual-fans equipped with the flagship "nocria X" model 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 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

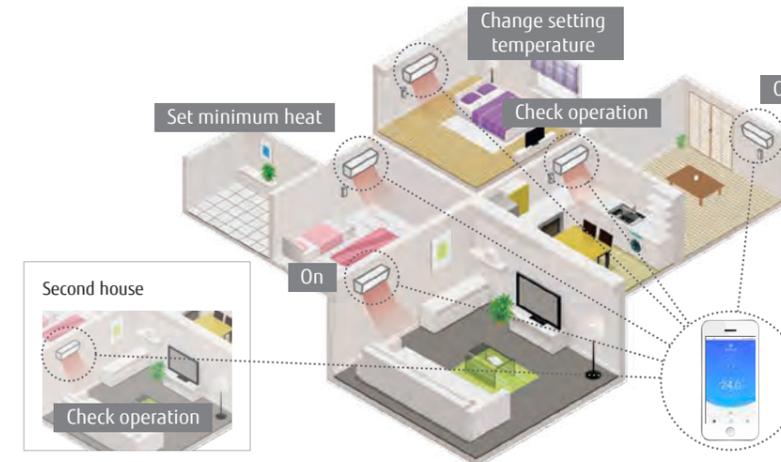
Using the Internet of Things (IoT), Fujitsu General is actively providing services that allow users to control their air conditioners from their smartphones. We are also expanding our open co-creation activities with external partners to deepen the development of new functions and services using IoT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



User-friendly screen display enables easy operation. With the WLAN adapter and the FGLair 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.

"FGLair" is a software application that allows users to control Fujitsu General air conditioners from anywhere outside 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.

WLAN adapter (USB)

**FGLair™**  
Download Free

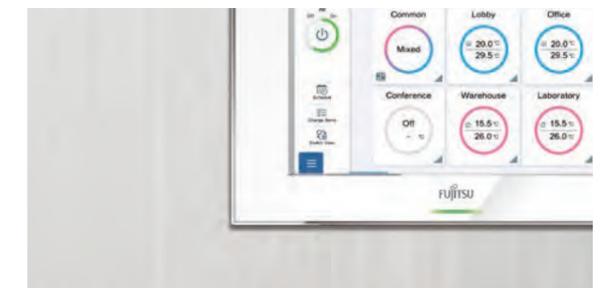
Download on the App Store | Get it on Google play



### 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**

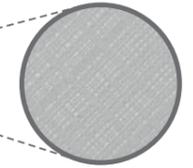
Fujitsu General offers a wide range of products for the European market, including models with unique textural designs, award-winning models that integrate with room interiors, and Cassette type models with different designs that match office spaces. We also have a lineup of models with elegant designs,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

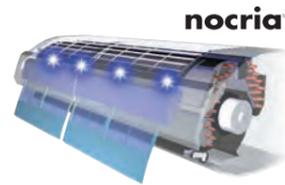
**WORLD'S FIRST** \*1,\*2 **1991** World's first air conditioner equipped with lambda heat exchanger

**1994** World's first air conditioner with power diffuser

**2001** AIRSTAGE™ Series released VRF air conditioners for large buildings



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



**2004** Standalone Compact VRF AIRSTAGE™ J Series released



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



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



**2009** Air to water system released

**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-IIIIL 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  
Cassette type 3D flow Series

**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 Light commercial use**

**AIRSTAGE**  
**2021-22** New Indoor units released for easy installation.



**For Commercial use**

**AIRSTAGE V-IV**  
Release of new products with energy-saving operation.



**For Residential use**

**R32** Split & Multi-split New products released for easy installation.



1950 ~

1970 ~

2000 ~

2010 ~

2022 What's New

## 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

**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



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

**2016** THE AIRSTAGE™ on Broadway in New York



\*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).

\*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

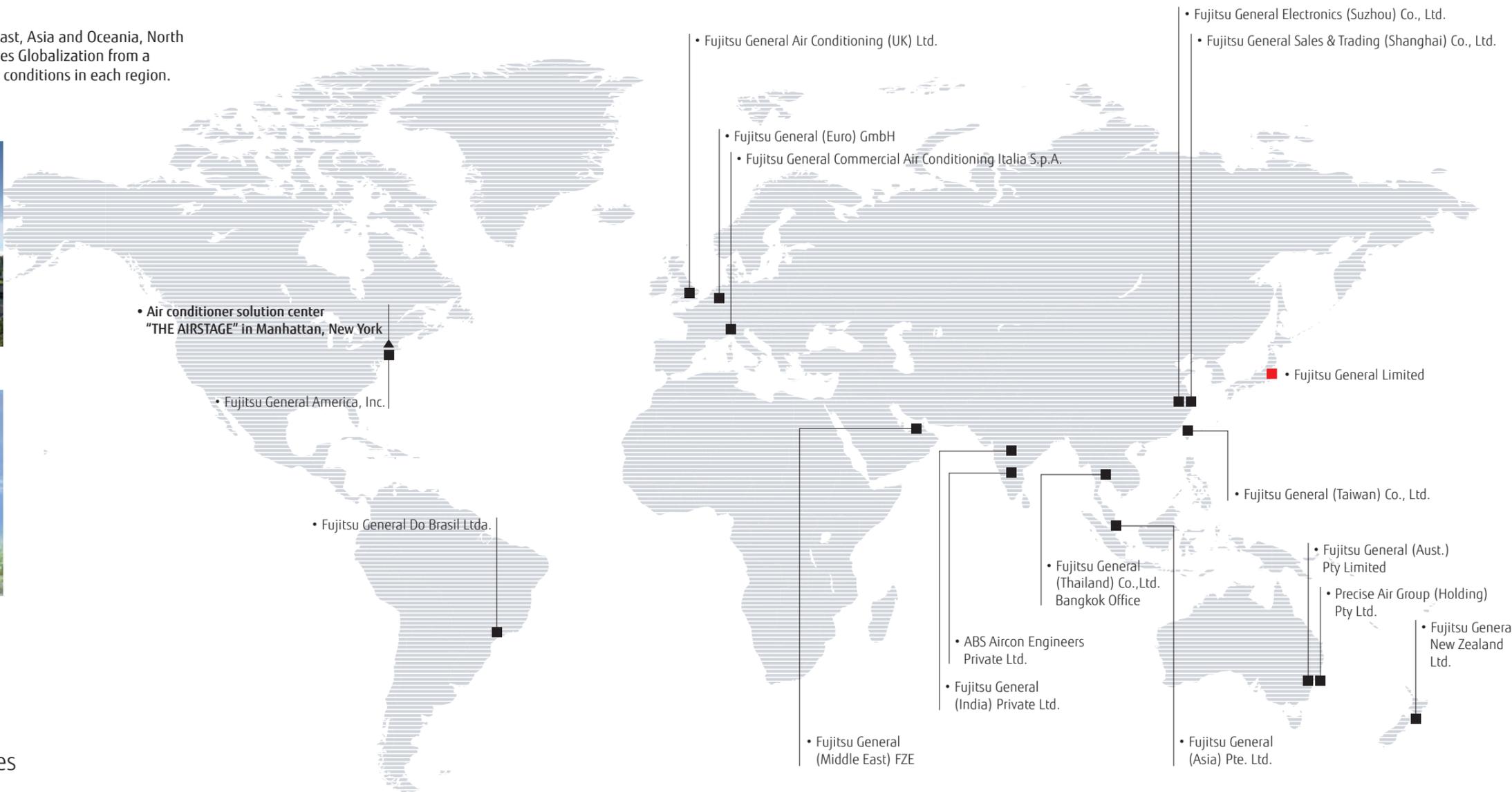
Under a system of five bases in Europe, the Middle East, Asia and Oceania, North and South America, and Japan, the company promotes Globalization from a worldwide perspective while emphasizing the actual conditions in each region.



JAPAN Head Office



Technology research building (Japan)



## 18 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.)



ABS Aircon Engineers Private Ltd. (India)



Fujitsu General Do Brasil Ltda. (Brasil)



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

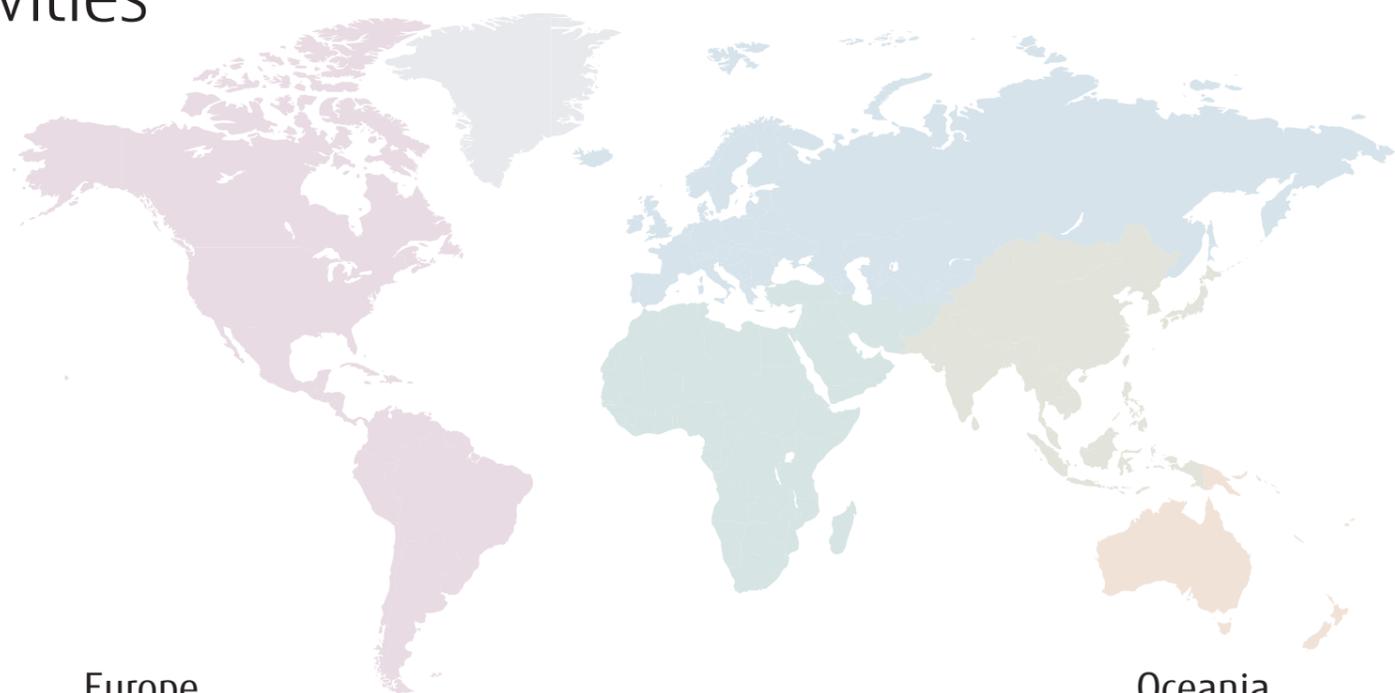


FUJITSU GENERAL SOLUTION CENTER "THE AIRSTAGE" (U.S.A.)



# 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 meeting



Call center

## Middle East



Exhibition



Dealer Convention in Kuwait



Technical seminar



New product seminar

## Europe



HVAC trade show in European countries



Presentation & training



HVAC trade show in European countries



The ACR Show



## Oceania



HVAC trade show in Australia



Volunteer in Australia



Service & Maintenance

## Asia



New product presentation meeting



Dealer convention in Thailand



Training



Call center

## 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.



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.



Voted by Australians as the 'Most Trusted Brand' - Air Conditioning Category 4 Years Running



China State Engineering Luban Prize



GOOD DESIGN

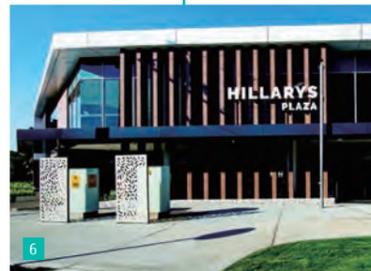
The Good Design Award is an award sponsored by the Japan Institute of Design Promotion, and is given once a year to items of outstanding design.



# Project references

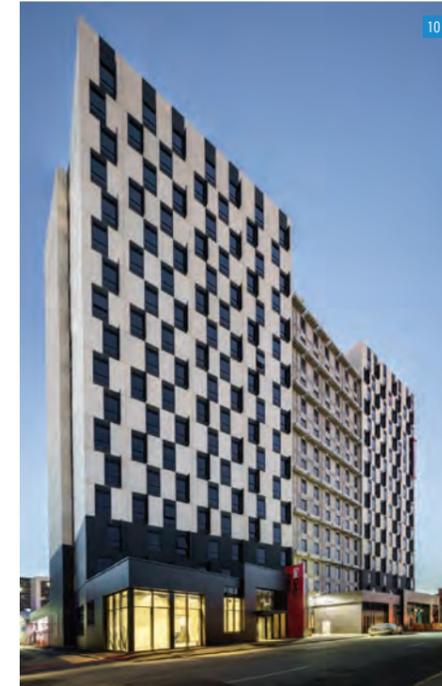
## Introduced in over 50 countries worldwide

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 Bank in Europe
- 2 Museum in Europe
- 3 School in Asia
- 4 Hospital in Asia
- 5 School in the Middle East
- 6 Shop in Oceania
- 7 Public facility in the United States



### For Commercial use

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

### For Residential use

- 14 Residence in Oceania
- 15 Residence in the United States
- 16 Villa in the Middle East





# 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



## 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

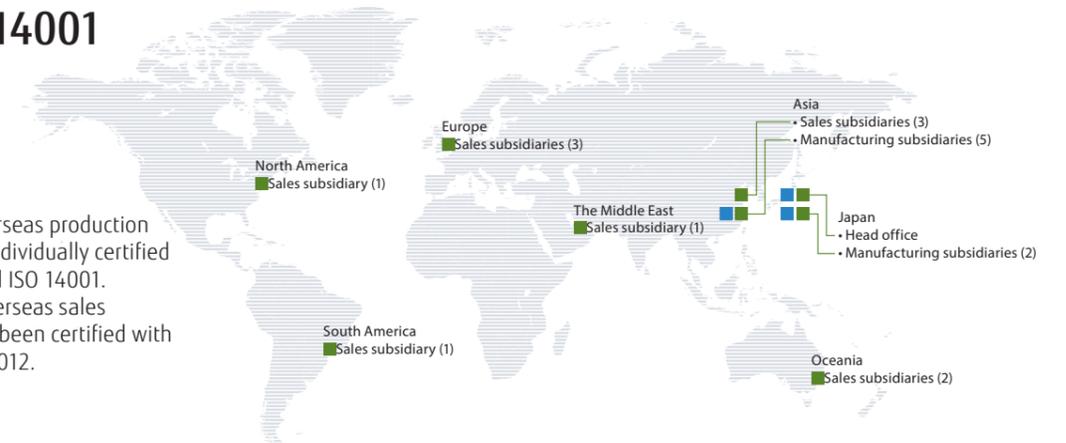
Tests oil circulation in a compressor for reliability.



## 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

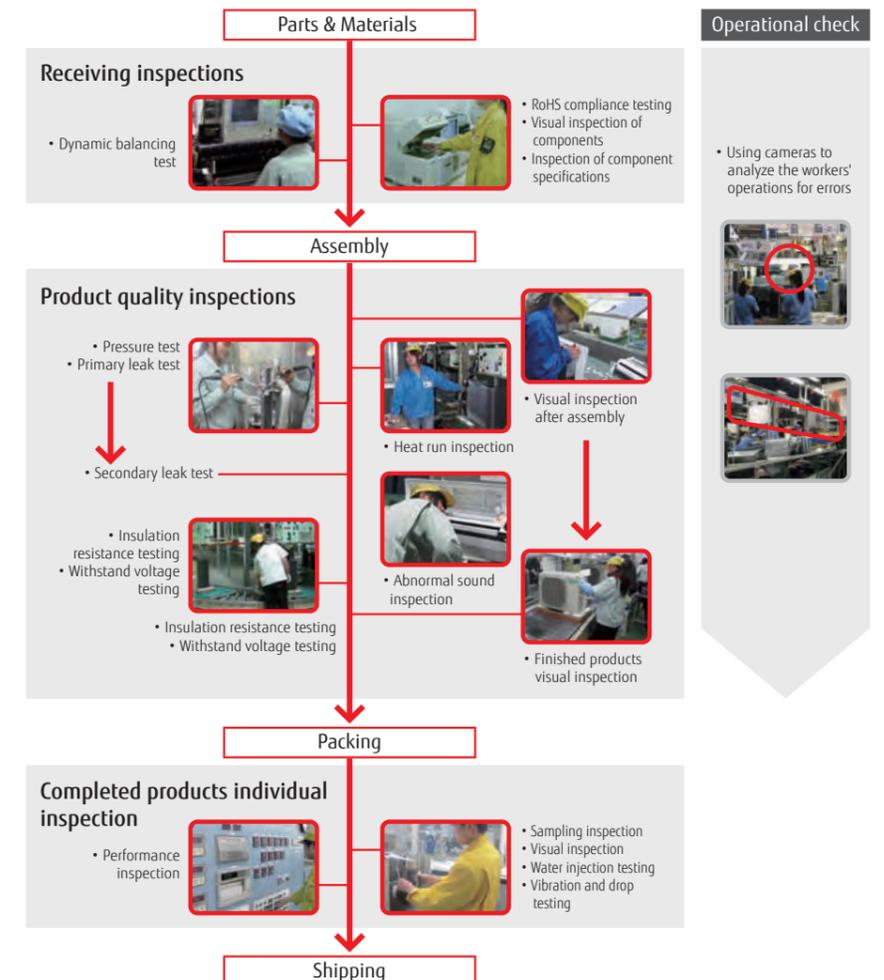
All Fujitsu General plants are ISO 9001 certified and operate under a unified quality control system. We deliver to customers all over the world high-quality products that have passed stringent quality inspections.

### 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.

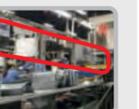
### Quality inspection of products

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.



### Operational check

• Using cameras to analyze the workers' operations for errors



# 2022 New Products



Split & Multi-split indoor unit  
Wall-mounted type Standard Series  
High-efficiency & Comfort



## Wall-mounted type

Designer Series, Standard Series, ECO Series

S-016-027

- 7-36 classes, 23 models
- High-efficiency
- New WLAN adapter (option)
- R32 refrigerant & low refrigerant volume
- Easy access to the flare pipe connection



## Duct type

High static pressure duct

S-040

- 45/54 classes, 2 models
- Link up with a variety of Central Control System (option)
- Easy installation
- Flexible Installation



## 2-unit to 5-unit Multi-split type

Indoor units

M-006, 022

Wall-mounted type  
Designer Series, Standard Series

- 16 models
- Capacity range  
from 7,000 to 24,000 BTU





## AIRSTAGE V-IV

Outdoor Unit 8 - 48 HP model

V-046-051

- 34 models
- New intelligent refrigerant control
- Low noise operation
- Indoor unit capacity range from 1.1 kW to 28.0 kW classes
- Up to 64 indoor units can be connected



8, 10 HP

12, 14, 16 HP

## AIRSTAGE Indoor unit

### High static pressure duct type

Normal

V-074

- 2 models
- Static pressure mode selection
- Easy installation (Compact & Lightweight)
- Low noise



High Static Pressure Duct

### Wall-mounted type

V-084

- 2 models
- Powerful & Comfort airflow
- 6-step fan speed control for quiet operation



Wall-mounted type

## CONTROL SYSTEM

### Wired remote controller

(with touch panel)

C-010

For tenants in small to midsize commercial premises

- Multi system control
- Refrigerant cycle monitor
- Touch screen LCD
- Built-in daily/weekly timer (ON/OFF, temperature, modes)
- Backlit screen for easy operation in the dark.



### Central remote controller

C-028

For tenants in small to midsize commercial premises

- Monitoring room temperature of each room
- 50 Remote controller groups display
- Remote controller groups rename
- Added individual wind direction control
- Human sensor setting of Indoor unit
- Increased the number of accounts for remote management



## AIRSTAGE mobile

Future Release

- Operation from anywhere
- Multiple air conditioning management
- Group management



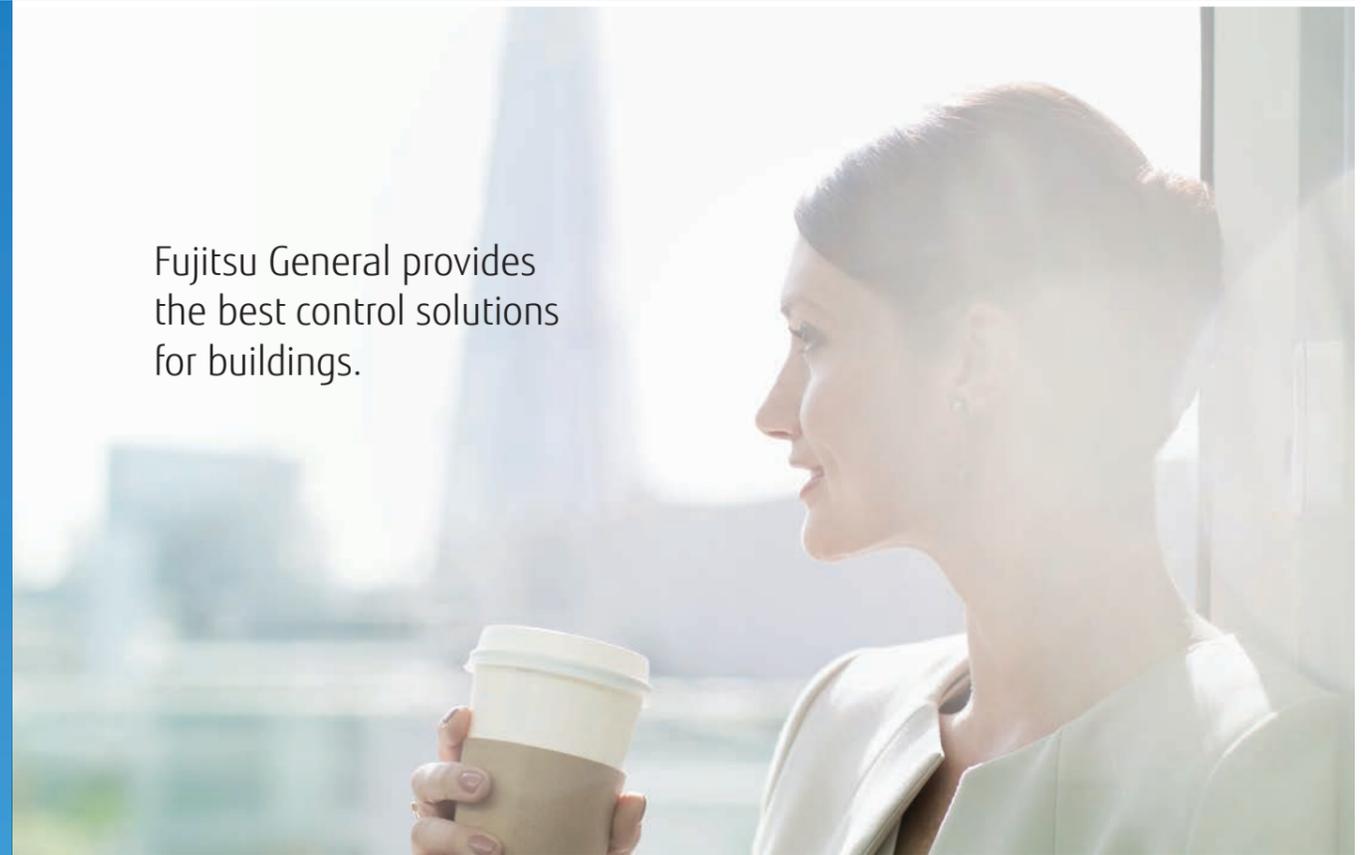
From Business to private spaces  
**SOLUTIONS**



**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

- 034 Shops and Restaurants
- 036 Small offices
- 038 Hotels
- 040 Schools



**For Commercial use**

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

- 044 Large Buildings



**For Residences**

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

- 046 Residences

# Restaurant, shops

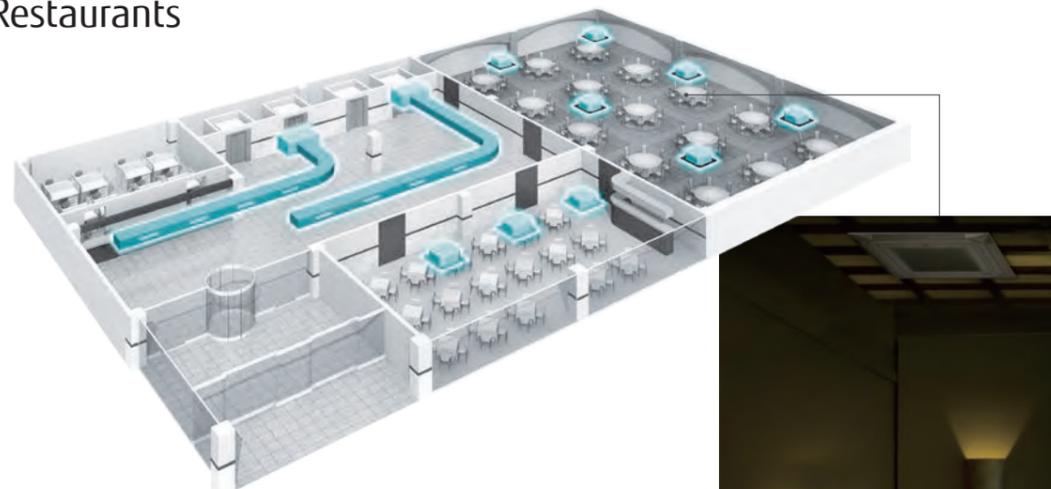
For Light commercial use

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



### R32 large model lineup expanded

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



Circular flow cassette Series  
For ambience with dimmed lighting

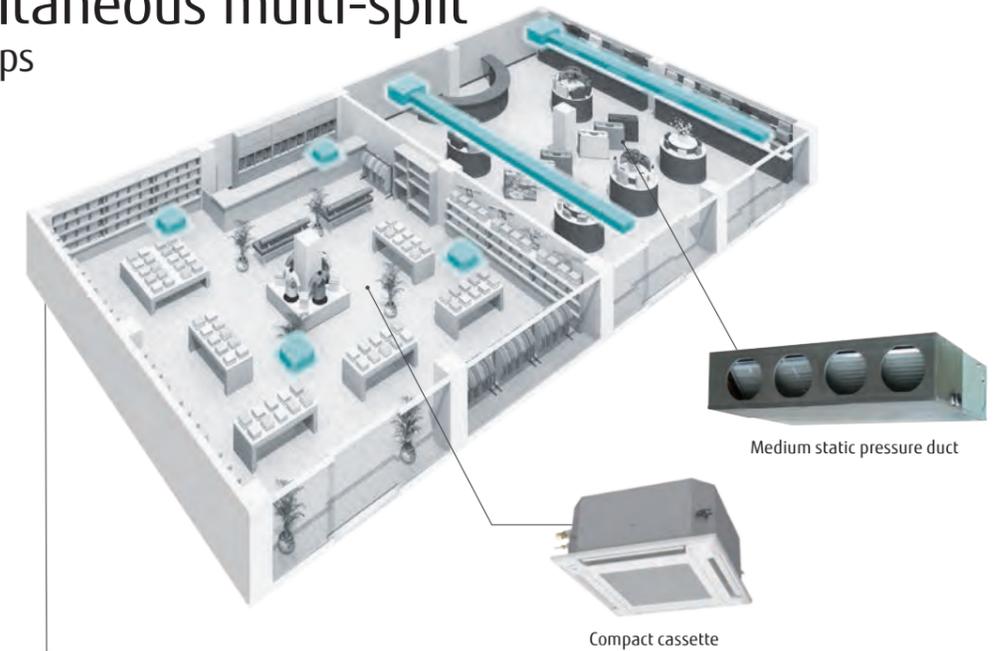
For rooms with bright interiors

### 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



### Various indoor unit lineup

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



### Small, lightweight outdoor unit

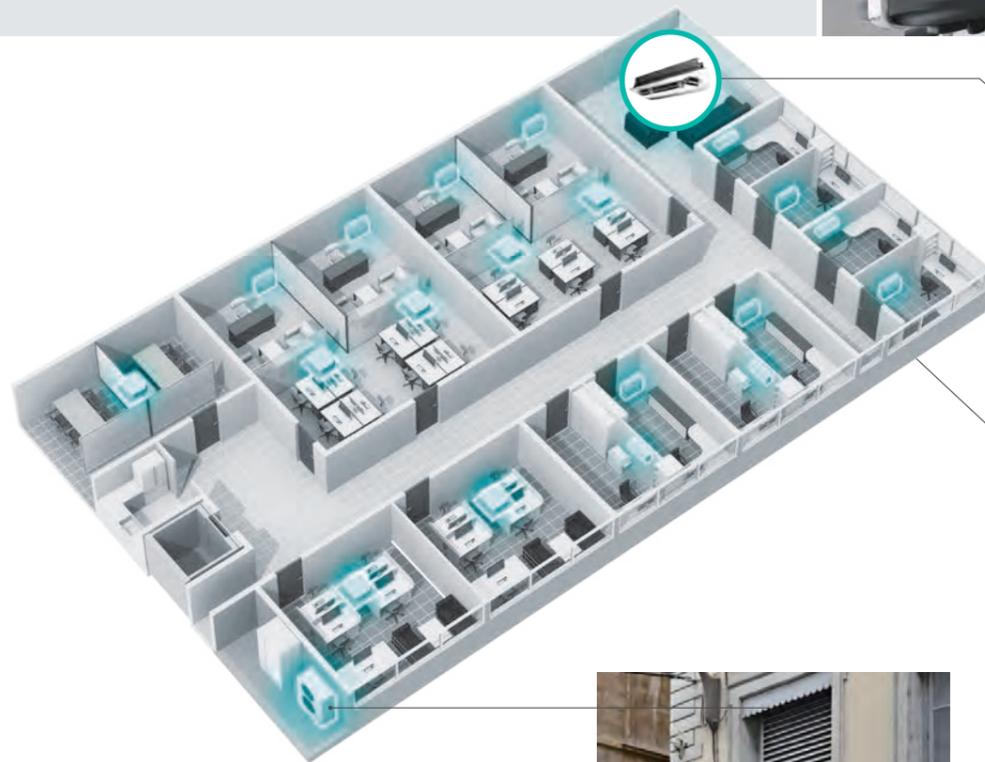
Models equipped with the new R32 refrigerant. Compared to current models, the outdoor unit is more compact and easier to install. (45/54 models)  
Compact cassette Series for grid ceiling were added to the lineup of indoor units to improve ease of installation.



# Small offices

For Light commercial use

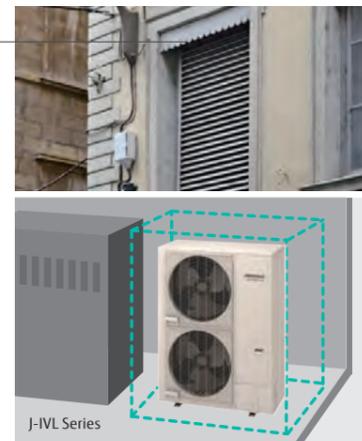
Fujitsu General offers a perfect total air conditioning system for small office buildings with multiple small rooms, taking into consideration energy savings, low noise, comfortable air volume, usage and purpose, and centralized control.



## AIRSTAGE™ 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



### 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.

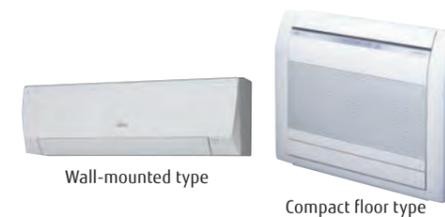
### Breakthrough 3D flow cassette with innovative pursuit of comfort

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.



Central remote controller UTY-DCGY22



### 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.



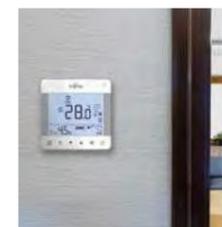
Wireless LAN



Tablet PC

Smartphone

\*Wireless LAN will be supported in the future.



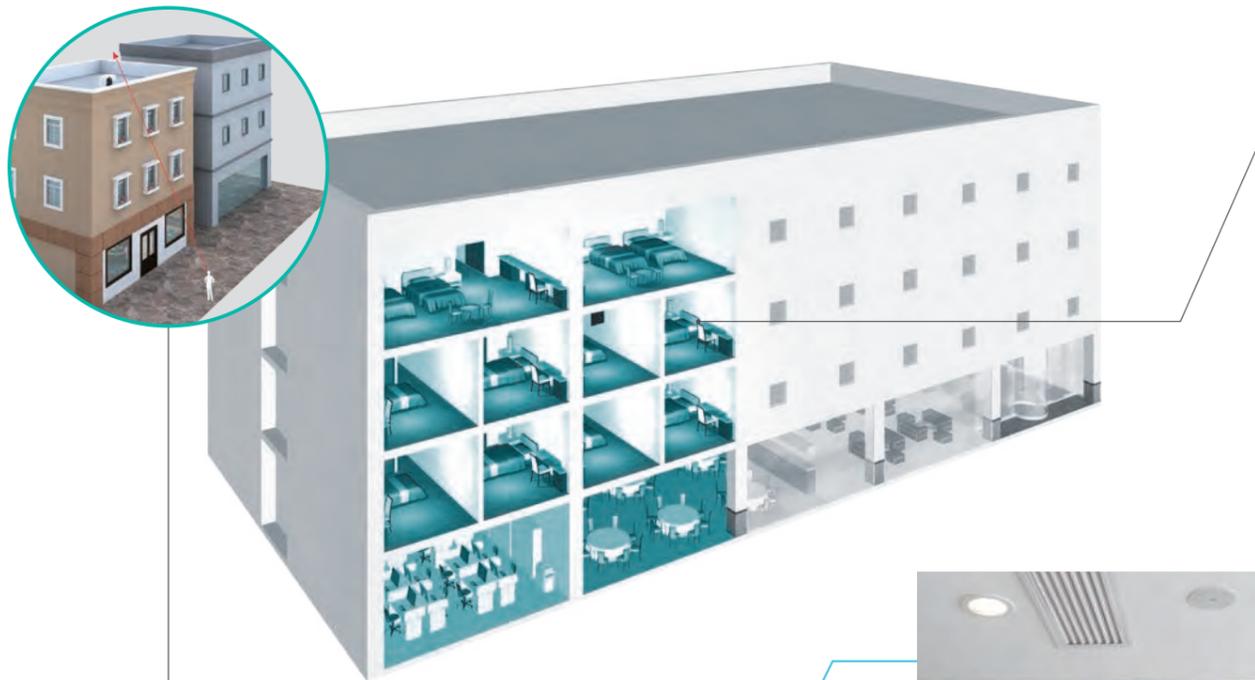
### Compact wired remote controller

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

# Hotels

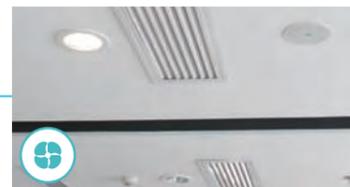
For Light commercial use

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.



## AIRSTAGE™ J Series compact outdoor unit with appearance-conscious design

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



## 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.



## 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

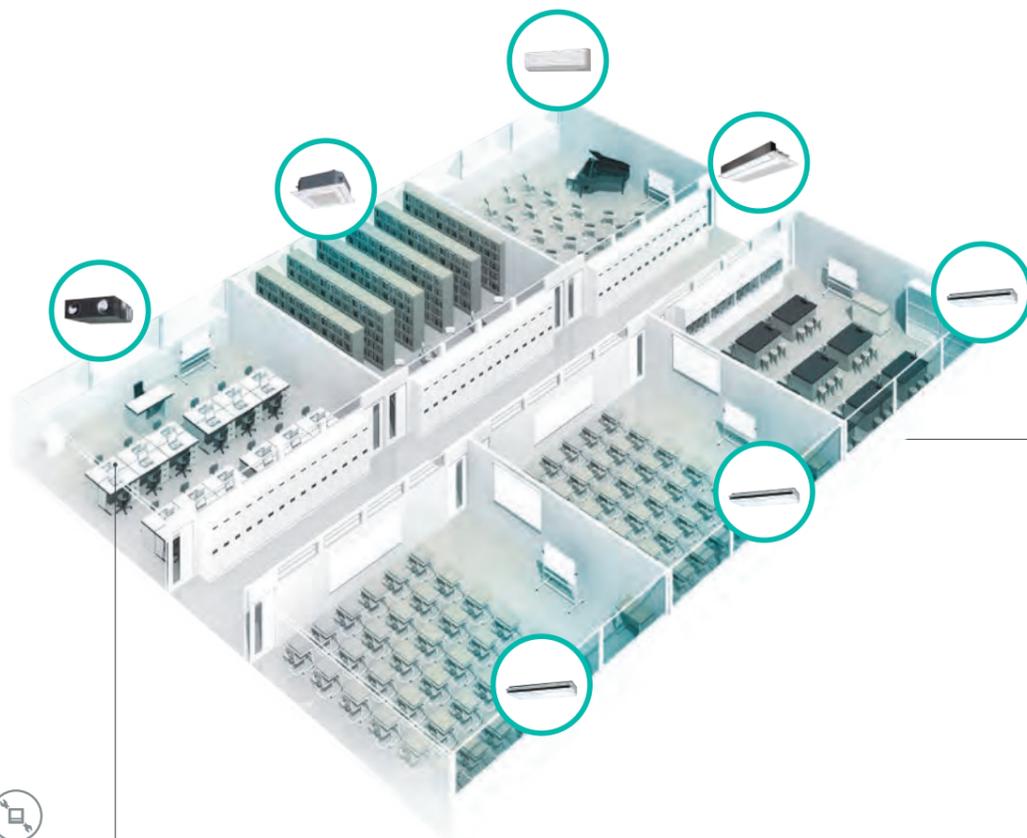
Duct type Big duct Series suitable for large spaces with high ceilings



# 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.



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 human sensor.





# Large buildings

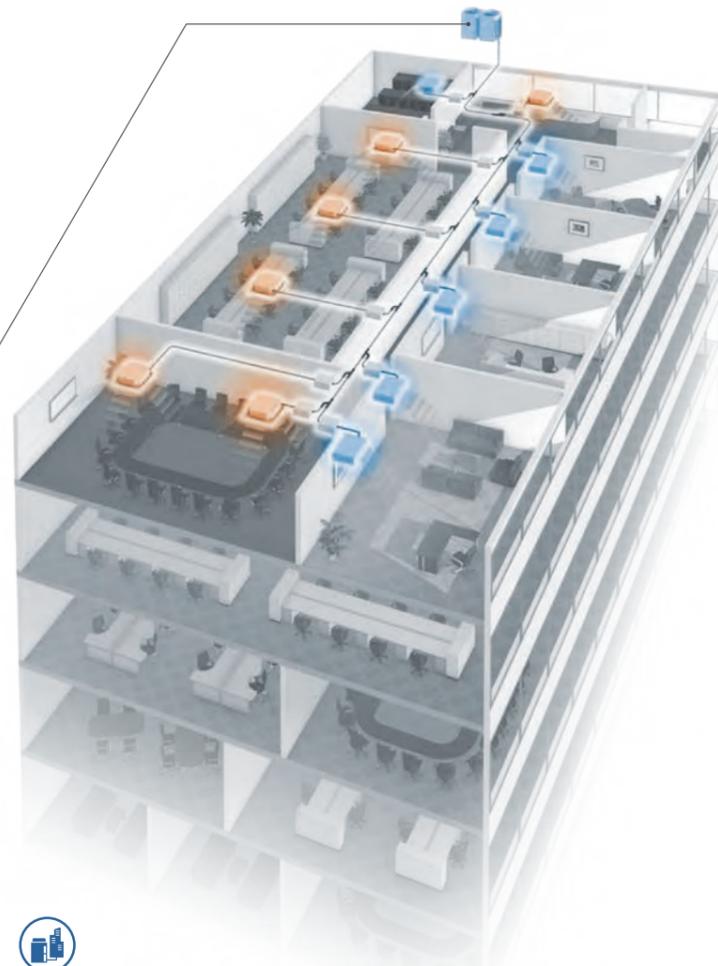
For Commercial use

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.



### AIRSTAGE 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

### AIRSTAGE 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



## Centralized control

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



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



## Linkage with various BMS

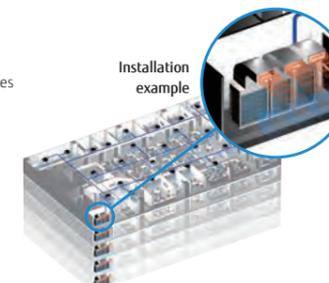
Linking with MODBUS®, BACnet®, KNX® and other interfaces allows centralized control of equipment other than air conditioning.



## High system flexibility

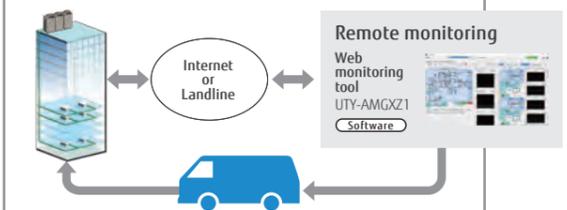
The industry-leading high static pressure, long pipe design, and connection capacity enable flexible installation on each floor and installation of various indoor units.

**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.

KE Series



KM Series

### For Large rooms

**Standard & Comfort Series**  
The basic functions and powerful, comfortable airflow volume controls are optimal for large spaces.



KP Series

reddot award 2019 winner



KG Series GOOD DESIGN

### For Primary bedrooms or Living rooms

**Good Design Award winning, Quietet Series**  
High performance, low noise with emphasis on design



KM Series GOOD DESIGN

### For Bedrooms or Home offices

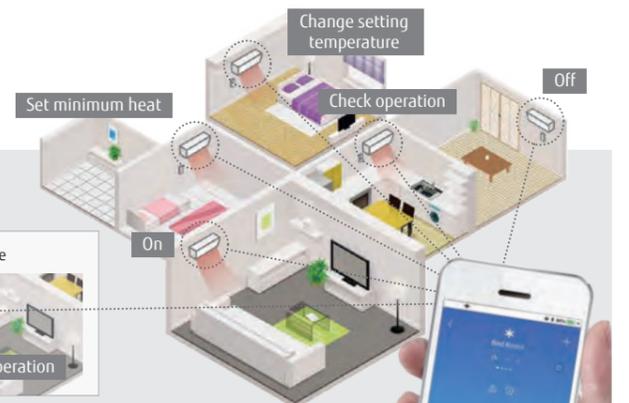
**Standard & ECO Range Series**  
High performance and compact design suitable for bedrooms, home offices and other small spaces



### 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).



With the WLAN adapter and the FGLair 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 to 8-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-050 ECO Series Lineup Specifications
- S-054 Feature Summary



### Refrigerant R32 models

#### Wall-mounted type

- S-014 Flagship Series
- S-016 Designer Series
  - High Spec & Design
  - Cool Beauty Design
- S-020 Standard Series
  - High-Efficiency
  - High-Efficiency for Large Rooms
- S-026 ECO Series
  - Compact & Comfort
  - Comfort for Large Rooms

#### Cassette

- S-030 Compact 4-way Flow Series – Compact Size
- S-032 Circular Flow Series – Comfort for Large Rooms

#### Duct

- S-034 Slim Duct – Slim Design
- S-036 Medium Static Pressure Duct – Compact & Comfort
- S-038 Medium Static Pressure Duct – Standard
- S-040 High Static Pressure Duct

#### Floor, Ceiling

- S-046 Floor – Compact & Comfort
- S-048 Ceiling



### Refrigerant R410A models

#### Duct

- S-042 High Static Pressure Duct
- S-044 Big Duct

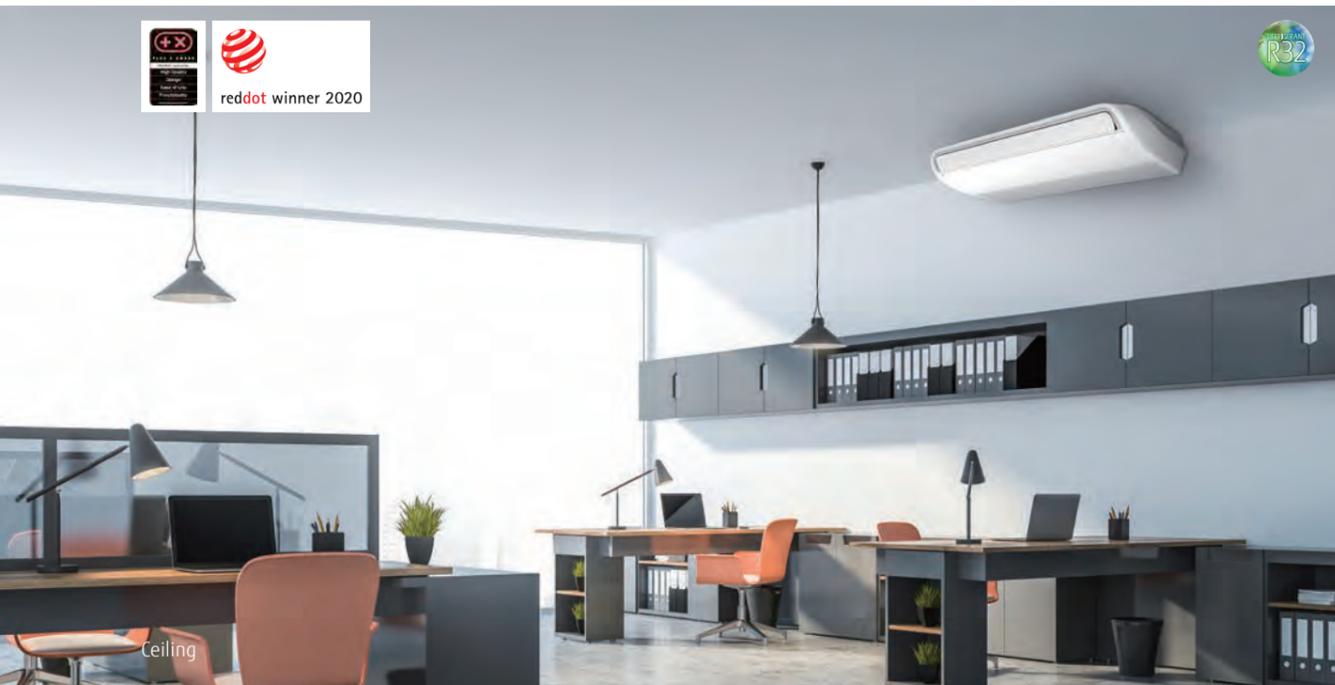


# Split Overview

Fujitsu General provides its customers with 6 types and 128 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, including the flagship model equipped with dual-fan, 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



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

Type	Series	Refrigerant	Model	Class								Class					
				7	9	12	14	18	22	24	30	36	45	54	60	72	90
Wall-mounted type	Flagship Series <b>nocria X</b>	R32				ASYG12KXCA											
	Designer Series High Spec & Design	R32		ASYG07KGTE	ASYG09KGTE	ASYG12KGTE	ASYG14KGTE										
	Designer Series Cool Beauty Design	R32		ASYG07KETE ASYG07KETE-B	ASYG09KETE ASYG09KETE-B	ASYG12KETE ASYG12KETE-B	ASYG14KETE ASYG14KETE-B										
	Standard Series High-Efficiency & Comfort	R32		ASYG07KMCE	ASYG09KMCE	ASYG12KMCE	ASYG14KMCE										
	Standard Series High-Efficiency & Large Rooms	R32						ASYG18KMTE		ASYG24KMTE							
	Standard Series High-Efficiency & Large Rooms	R32									ASYH30KMTB	ASYH36KMTB					
	ECO Series Compact Size	R32		ASYG07KPCE	ASYG09KPCE	ASYG12KPCE											
	ECO Series Comfort for Large Rooms	R32						ASYG18KLCA*		ASYG24KLCA*							
Cassette	Compact 4-way Flow Series Compact Size	R32			AUXG09KVLA	AUXG12KVLA	AUXG14KVLA	AUXG18KVLA	AUXG22KVLA	AUXG24KVLA							
	Circular Flow Series Comfort for Large Rooms	R32		18/22/24	30/36/45/54			AUXG18KRLB	AUXG22KRLB	AUXG24KRLB	AUXG30KRLB	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB			
Duct	Slim Duct	R32		09/12/14	18	ARXG09KLLAP	ARXG12KLLAP	ARXG14KLLAP	ARXG18KLLAP								
	Medium Static Pressure Duct Compact Size	R32		12/14	18/22/24/30	36/45/54	ARXG12KHTAP	ARXG14KHTAP	ARXG18KHTAP	ARXG22KHTAP	ARXG24KHTAP	ARXG30KHTAP	ARXG36KHTAP	ARXG45KHTAP	ARXG54KHTAP		
	Medium Static Pressure Duct Standard	R32								ARXG22KMLB	ARXG24KMLA	ARXG30KMLA	ARXG36KMLA	ARXG45KMLA			
	High Static Pressure Duct	R32												ARXG45KHTB	ARXG54KHTB		
		R410A														ARYG60LHTA	
Big Duct	R410A														ARYG72LHTA*	ARYG90LHTA*	
Floor Compact & Comfort	R32			AGYG09KVCA	AGYG12KVCA	AGYG14KVCA											
Ceiling	R32		18/22	24/30	36/45/54			ABYG18KRTA	ABYG22KRTA	ABYG24KRTA	ABYG30KRTA	ABYG36KRTA	ABYG45KRTA	ABYG54KRTA			

# Features

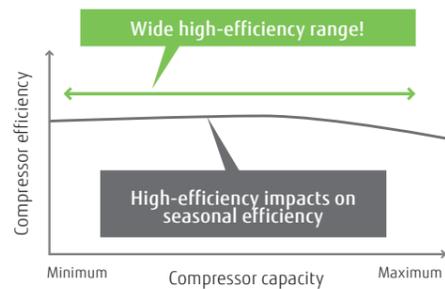
## High-Efficiency

### ALL DC All DC Inverter Technology



#### 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.



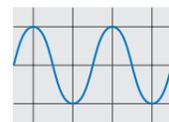
#### DC fan motor

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



#### Sine-wave DC inverter control

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



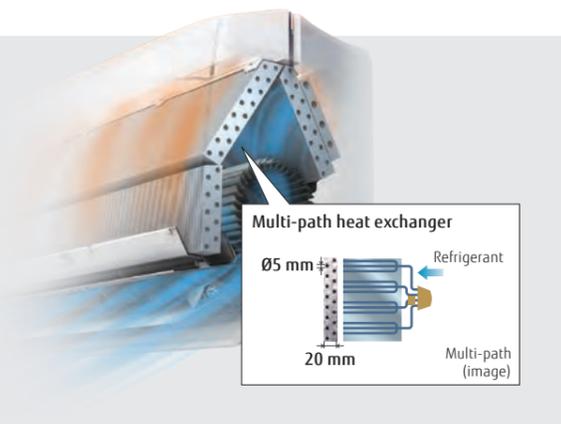
### Heat Exchanger for Wall-mounted type

#### 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

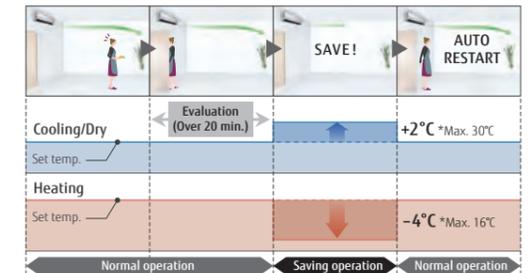
A counter-type bypass circuit has been incorporated to achieve a higher performance. (Large multi-split type, VRF)



## High Energy Saving

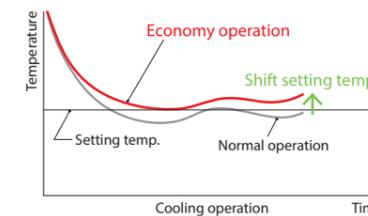
### Human sensor control

The Human 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.



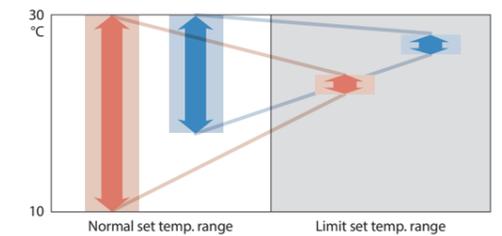
### Economy operation

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



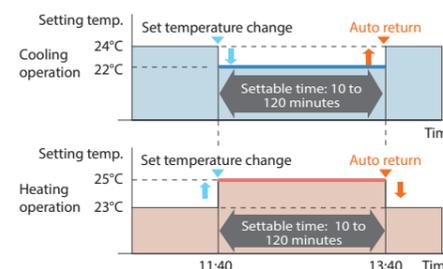
### Setting temperature range limitation

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



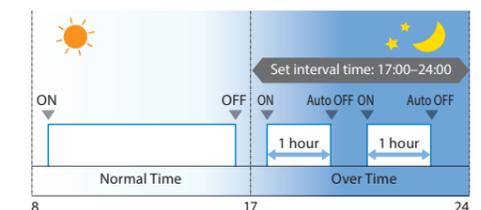
### Set temperature auto return

- 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.

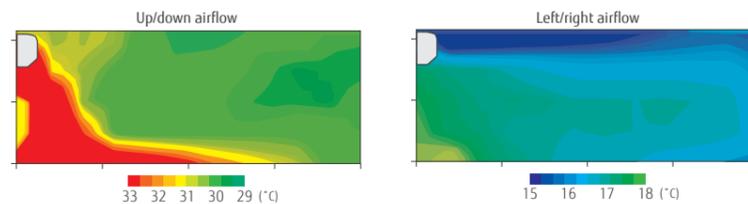


# More Comfort



## Power diffuser

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

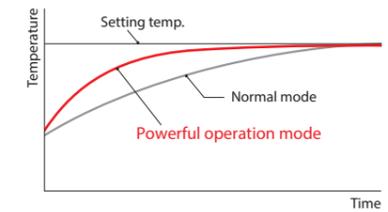


## Powerful heating

A large heat exchanger, a large DC rotary compressor, and a high-performance inverter PCB provide high heating capacity even at low outdoor temperature.

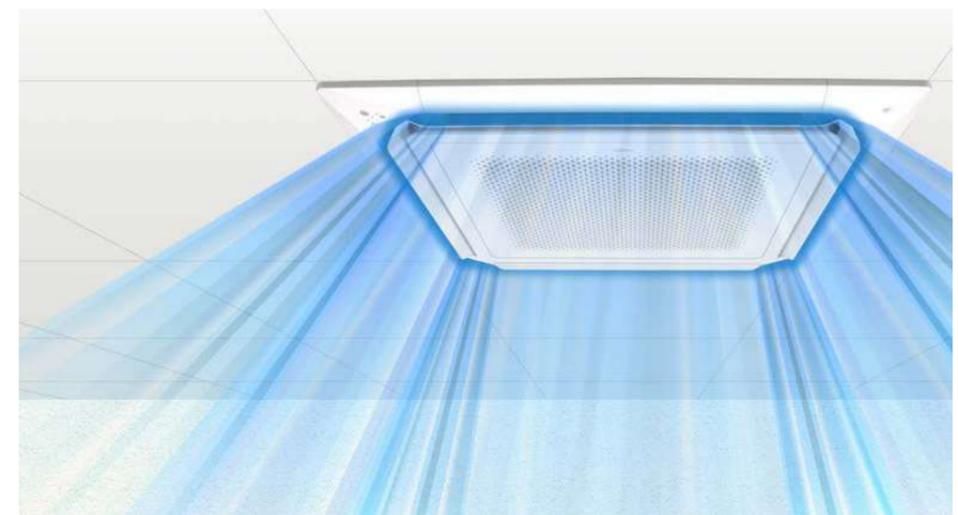
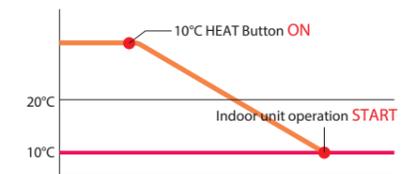
## Powerful operation

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



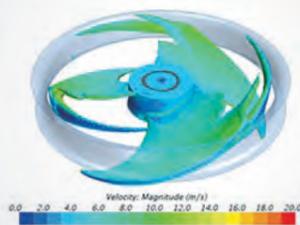
# Quiet and Comfort Control



## Low Noise Technology

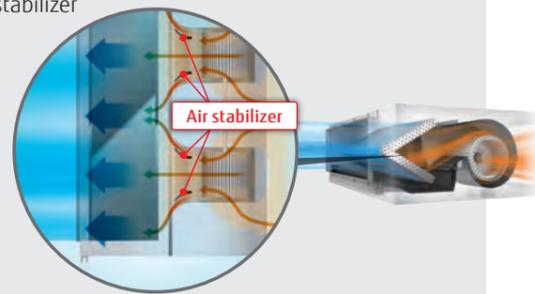
### Outdoor unit fan

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



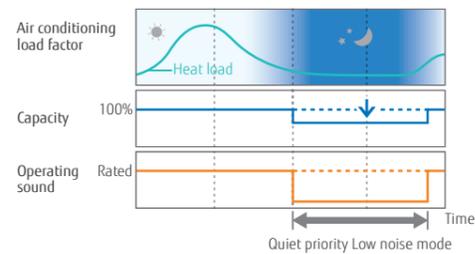
### Air stabilizer in Duct

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



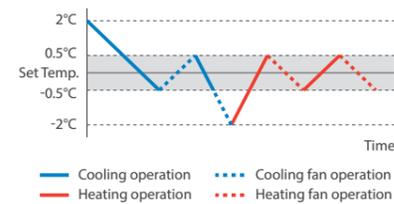
### Outdoor unit low noise operation

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.



# Feature Explanation

## Energy-Saving Features

- Dual-fan**: Hybrid Airflow, which combines air currents of different temperatures and velocities, creates a comfortable space.
- Economy mode**: The thermostat setting is adjusted automatically according to the room temperature to avoid unnecessary cooling or heating.
- Save Human sensor**: The Human 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.
- Human sensor for saving/stop modes**: The Human 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.

## Features for Comfort

- Powerful heating**: Maintains the rated heating capacity even when the outdoor ambient temperature is -7°C.
- 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.
- Power diffuser**: An additional louver that opens based on input from monitoring sensors to quickly enhance immediate comfort needs.
- Low noise mode**: 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 mode**: 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.

## 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 Cooling" 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

- Plasma air clean**: The electrostatic precipitator removes dust particles such as pollen and house dust. It is washable and thus can always be kept clean.
- 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.
- Filter auto clean**: The dust collected by the air filter is automatically removed. A routine disposal of the dust stored in the dust box is necessary.
- Long-life filter**
- 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.

## Installation / Support

- Automatic airflow adjustment**: Automatically detects required airflow in each application case and adjusts the volume.
- Refrigerant cycle monitor**: The values of each sensor and actuator can be displayed, and the status of the refrigeration cycle can be checked.
- Drain pump as standard**
- Blue fin**

**ALL DC** All DC models

# Wall-mounted type Flagship Series

## nocria™ X



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



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



\*1: Announced 2012. In room air conditioner for the home (Our company's investigation)

### Filter Auto Clean



Dust on the filter is automatically removed to prevent power from being wasted by the clogged filter.



\*2: Announced 2002. In room air conditioner for the home (our company's investigation)

### Plasma Air Clean

Air that passes through the indoor unit is cleaned by a built-in electrostatic dust collector. Pollen, house dust and other tiny pollutants are collected and removed with static electricity.



### Human Sensor

The Human sensor detects movement of people in a room and operates at reduced capacity when people leave the room. When people return to the room, the system automatically returns to the previous room settings.



Rank **A+++** SEER **8.5** SCOP **5.1**

Model: ASYG12KXCA

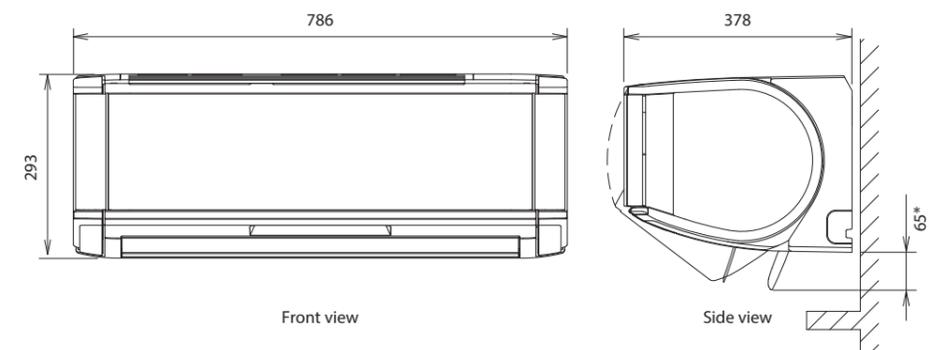


### Specifications

Model name	Indoor unit		Outdoor unit	
	ASYG12KXCA		AOYG12KXCA	
Power Source	Single phase, ~230 V, 50 Hz			
Capacity	Cooling	kW	3.4 (0.6-5.3)	
	Heating		5.0 (0.6-9.0)	
Input Power	Cooling/Heating		kW	0.670/1.020
	Cooling			
EER	Cooling		W/W	4.90
	Heating			
Pdesign	Cooling/Heating (-10°C)		kW	8.50
	Cooling			
SEER	Cooling		W/W	A+++
	Heating (Average)			
SCOP	Cooling		A	9.0/16.0
	Heating (Average)			
Max. Operating Current	Cooling/Heating		kWh/a	961
	Cooling			
Annual Energy Consumption	Cooling		I/h	46/42/38/28
	Heating			
Moisture Removal	Indoor (Cooling)	H/M/L/Q	dB(A)	44/43
	Indoor (Heating)	H/M/L/Q		
Sound Pressure Level	Outdoor (Cooling/Heating)		High	57/57
	Indoor (Cooling/Heating)			
Sound Power Level	Indoor (Cooling/Heating)		High	810/1,975
	Outdoor (Cooling/Heating)			
Airflow Rate	Indoor/Outdoor (Cooling)		m³/h	704 × 820 × 315
	Indoor/Outdoor (Heating)			
Net Dimensions H x W x D	Indoor		kg (lbs)	41 (90)
	Outdoor			
Weight	Indoor		mm	11.8/15.0 to 16.8
	Outdoor			
Connection Pipe Diameter (Liquid/Gas)	Indoor		m	10
	Outdoor			
Drain Hose Diameter (I.D./O.D.)	Cooling		°CDB	-15 to 24
	Heating			
Max. Pipe Length (Pre-Charge)	Cooling		kg (CO2eq-T)	1.30 (0.878)
	Heating			
Max. Height Difference	Cooling			
	Heating			
Refrigerant	Type (Global Warming Potential)			
	Charge			

### Dimensions

(Unit: mm)



\* Dimensions when air flowing downward

# Wall-mounted type Designer Series

High Spec & Design



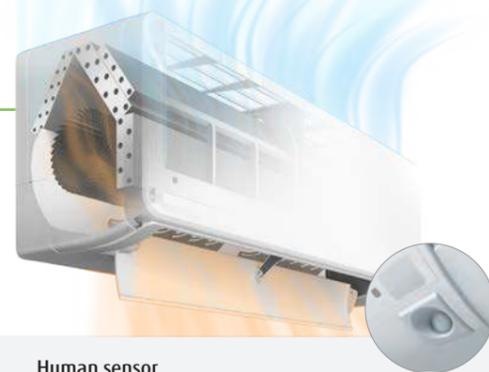
## High energy saving

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

**Rank A+++** <sup>\*1\*2</sup>

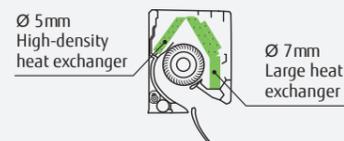
**SEER 9.2** <sup>\*1</sup> **SCOP 5.2** <sup>\*2</sup>

\*1: 07, 09, 12 models \*2: 07, 09 models



### 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.



### Human sensor

The Human 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.



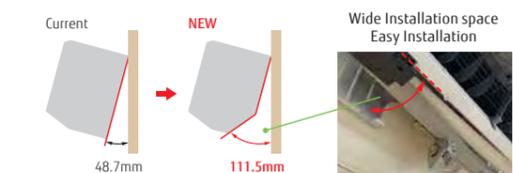
## Smart Device control (Option)

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: ASYG07KGTE/ASYG09KGTE/ASYG12KGTE/ASYG14KGTE



## Specifications

Model name	Indoor unit		ASYG07KGTE	ASYG09KGTE	ASYG12KGTE	ASYG14KGTE
	Outdoor unit		AOYG07KGCA	AOYG09KGCA	AOYG12KGCA	AOYG14KGCA
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	kW	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		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
	Heating	W/W	5.00	5.00	4.40	4.00
Pdesign	Cooling/Heating (-10°C)		2.0/2.3	2.5/2.4	3.4/2.5	4.2/4.0
SEER	Cooling	W/W	9.20	9.20	9.20	8.40
	Heating (Average)	W/W	5.20	5.20	5.10	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
	Cooling	kWh/a	82	103	140	207
Annual Energy Consumption	Heating	kWh/a	628	658	685	1,298
	Moisture Removal	l/h	1.0	1.3	1.8	2.1
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	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
Sound Power Level	Outdoor (Cooling/Heating)	High	46/46	46/48	50/50	50/50
	Indoor (Cooling/Heating)	High	54/56	55/57	56/58	57/59
Airflow Rate	Outdoor (Cooling/Heating)	High	61/62	61/63	65/66	65/66
	Indoor/Outdoor (Cooling)	High	650/1,610	700/1,610	700/1,680	770/1,680
Net Dimensions H x W x D	Indoor/Outdoor (Heating)	High	720/1,560	750/1,610	770/1,580	800/1,580
	Indoor	mm	270 × 834 × 215	270 × 834 × 215	270 × 834 × 215	270 × 834 × 215
Weight	Outdoor	mm	542 × 799 × 290	542 × 799 × 290	542 × 799 × 290	542 × 799 × 290
	Indoor	kg (lbs)	10 (22)	10 (22)	10 (22)	10 (22)
Connection Pipe Diameter (Liquid/Gas)	Indoor	kg (lbs)	30 (66)	30 (66)	31 (68)	32 (71)
	Outdoor	kg (lbs)	30 (66)	30 (66)	31 (68)	32 (71)
Drain Hose Diameter (I.D./O.D.)	6.35/9.52					
Max. Pipe Length (Pre-Charge)	11.8/15.0 to 16.8					
Max. Height Difference	20 (15)					
Operating Range	Cooling					15
	Heating					-10 to 46
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)

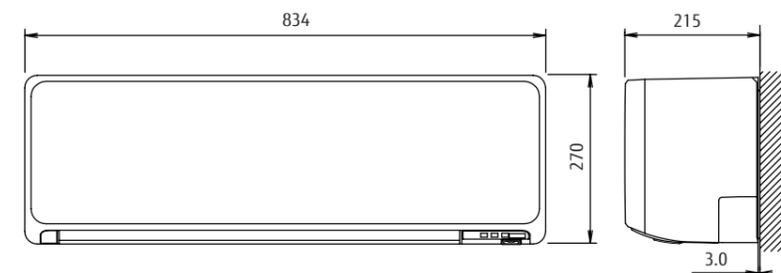
## Optional parts

\* For optional parts compatibility of Intesis devices, please refer to the optional parts compatibility list page C-046.

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-TFSXF2	Network Converter for single split (AC power supply type):	UTY-VTGXV
Wired remote controller:	UTY-RLRY	Communication kit:	UTY-TWRXZ2	Silver Ion filter:	UTR-FA16-5
Simple remote controller (without operation mode):	UTY-RHRY	External input and output PCB:	UTY-XCSXZ2		
Simple remote controller:	UTY-RSRY	External connect kit:	UTY-XWZX		

## Dimensions

(Unit: mm)



# Wall-mounted type 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

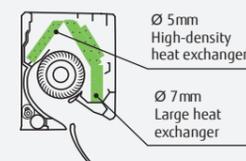
The texture of the front panel expresses the craftsmanship of Europe, and changes its expression with the changing light of the day.

## High energy saving

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



### Hybrid-heat exchanger



### Ø107 Large cross-flow fan



## Comfortable airflow & Quiet operation

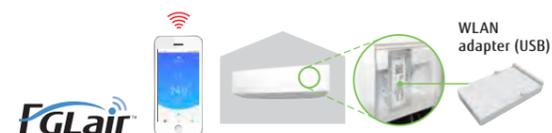
The large louver and the new air-blowing structure create a comfortable air flow that spreads all the way down to the user's feet with quiet operation.



## 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 FGLair app on your smart device in order to control the air conditioner.



Model: ASYG07KETE/ASYG09KETE/ASYG12KETE/ASYG14KETE  
 ASYG07KETE-B/ASYG09KETE-B/ASYG12KETE-B/ASYG14KETE-B



## Specifications

Model name	Indoor unit		ASYG07KETE ASYG07KETE-B	ASYG09KETE ASYG09KETE-B	ASYG12KETE ASYG12KETE-B	ASYG14KETE ASYG14KETE-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	kW	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
EER	Cooling		4.43	3.97	3.65	3.44
	Heating	W/W	4.52	4.52	4.17	3.83
Pdesign	Cooling/Heating (-10°C)	kW	2.0/2.3	2.5/2.4	3.4/2.5	4.2/4.0
SEER	Cooling		9.20	9.20	9.20	8.40
	Heating (Average)	W/W	5.20	5.20	5.10	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	6.5/9.0
Annual Energy Consumption	Cooling	kWh/a	95	118	163	213
	Heating	kWh/a	785	819	795	1,367
Moisture Removal		l/h	1.0	1.3	1.8	2.1
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
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	770/1,470	800/1,580
Net Dimensions	Indoor	mm	295 × 950 (wall side: 840) × 230			
H x W x D	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)			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	°CDB	-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)

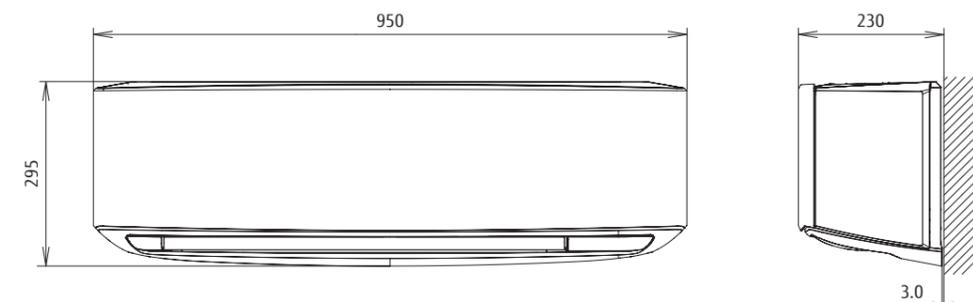
## Optional parts

\* For optional parts compatibility of Inesis devices, refer to the optional parts compatibility list Page C-046.

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-XWZXZ5	Silver Ion filter:	UTR-FAT6-5
Simple remote controller (without operation mode):	UTY-RHRY	External switch controller:	UTY-TERX		
Simple remote controller:	UTY-RSRY	WLAN adapter:	UTY-TFSXF2		

## Dimensions

(Unit: mm)



# Wall-mounted type

## Standard Series

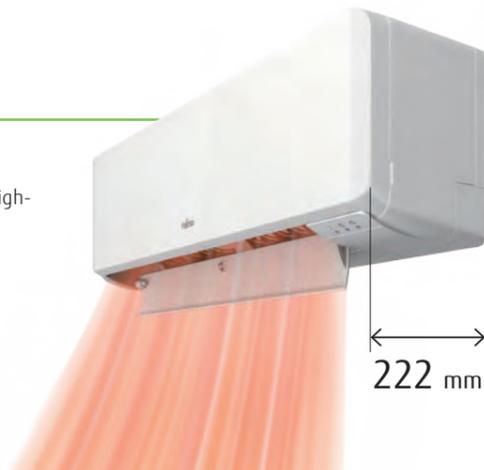
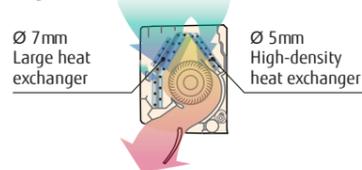
High-Efficiency & Comfort



### 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 heat exchanger, large cross-flow fan, and the new refrigerant.

Rank Cooling A++ Heating A+

SEER 7.4 \*1 SCOP 4.4 \*2

\*1: 07/09 models \*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.



### Smart Device control (Option)

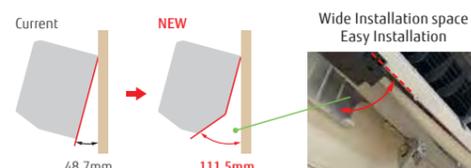
With the optional WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device. WLAN adapter can be installed easily without specialized installation work.

You need to install the FGLair 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: ASYG07KMCE/ASYG09KMCE/ASYG12KMCE/ASYG14KMCE



### Specifications

Model name	Indoor unit		ASYG07KMCE	ASYG09KMCE	ASYG12KMCE	ASYG14KMCE
	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	kW	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
	Cooling	W/W	4.43	3.97	3.65	3.44
EER	Heating		4.52	4.52	4.17	3.83
	Cooling/Heating (-10°C)	kW	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
	Heating (Average)		4.10	4.10	4.40	4.10
SCOP	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
	Cooling	kWh/a	95	118	163	213
Annual Energy Consumption	Heating		785	819	795	1367
	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
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 x 834 x 222			
	Outdoor		mm 541 x 663 x 290	mm 541 x 663 x 290	mm 541 x 663 x 290	mm 542 x 799 x 290
Weight	Indoor		kg (lbs) 10 (22)			
	Outdoor		kg (lbs) 22 (49)	kg (lbs) 22 (49)	kg (lbs) 24 (53)	kg (lbs) 31 (68)
Connection Pipe Diameter (Liquid/Gas)			6.35/9.52	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	11.8/15.0 to 16.8
Max. Pipe Length (Pre-Charge)			20 (15)	20 (15)	20 (15)	20 (15)
Max. Height Difference			15	15	15	15
	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46
Operating Range	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)
Refrigerant Charge			kg (CO2eq-T) 0.6 (0.405)	kg (CO2eq-T) 0.6 (0.405)	kg (CO2eq-T) 0.7 (0.473)	kg (CO2eq-T) 0.85 (0.574)

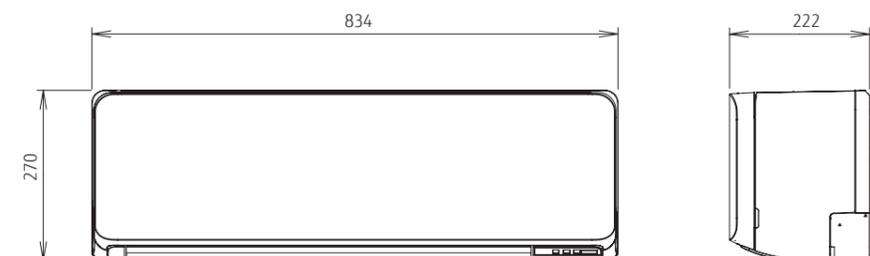
### Optional parts

\* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

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-XWZXZ5	Silver Ion filter:	UTR-FA16-5
Simple remote controller (without operation mode):	UTY-RLRY	External switch controller:	UTY-TERX		
Simple remote controller:	UTY-RSRY	WLAN adapter:	UTY-TFSXF2		

### Dimensions

(Unit: mm)



# Wall-mounted type

## Standard Series

High-Efficiency & Large Rooms



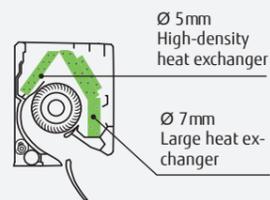
### High energy saving

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



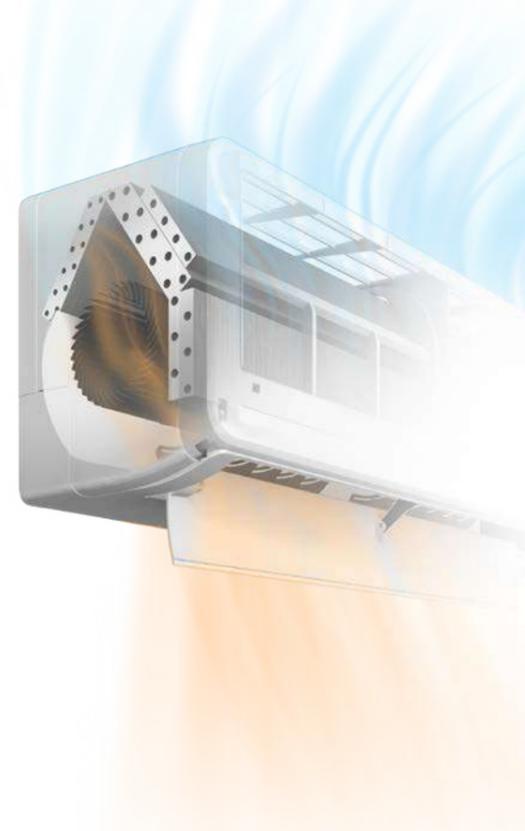
#### Hybrid-heat exchanger

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)

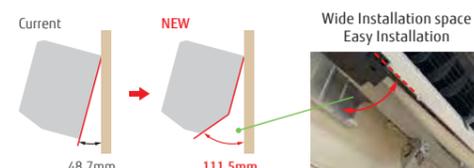
With the optional WLAN adapter installed in the air conditioner, you can control it from anywhere with your smart device. WLAN adapter can be installed easily without specialized installation work.

You need to install the FGLair 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: ASYG18KMTE/ASYG24KMTE



### Specifications

Model name	Indoor unit		Outdoor unit		ASYG18KMTE	ASYG24KMTE	
	Indoor unit		Outdoor unit		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	kW			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	
	Cooling	W/W			3.74	3.41	
EER	Cooling		W/W		4.04	4.19	
	Heating		W/W		5.2/4.8	7.1/7.1	
COP	Cooling/Heating (-10°C)		kW		7.77	7.30	
	Cooling		W/W		4.60	4.20	
Pdesign	Cooling/Heating (Average)		W/W		A++	A++	
	Heating (Average)		W/W		A+	A+	
SEER	Cooling/Heating		A		9.5/13.5	13.5/16.0	
	Cooling		kWh/a		234	341	
SCOP	Cooling/Heating		kWh/a		1,472	2,372	
	Heating		l/h		1.7	2.7	
Moisture Removal	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	
	Outdoor (Cooling/Heating)	High	dB(A)		50/50	54/52	
Sound Power Level	Indoor (Cooling/Heating)	High			60/61	65/65	
	Outdoor (Cooling/Heating)	High			65/65	67/66	
	Indoor/Outdoor (Cooling)	High	m³/h		980/2,350	1,170/3,240	
Airflow Rate	Indoor/Outdoor (Heating)	High			1,020/2,100	1,170/2,820	
	Indoor	mm			280 × 980 × 240	280 × 980 × 240	
Net Dimensions H x W x D	Outdoor	mm			632 × 799 × 290	716 × 820 × 315	
	Indoor	kg (lbs)			12.5 (28)	12.5 (28)	
Weight	Outdoor	kg (lbs)			36 (79)	42 (93)	
	Indoor/Outdoor (Cooling)	mm			6.35/12.70	6.35/12.70	
Connection Pipe Diameter (Liquid/Gas)					13.8/15.8 to 16.7	13.8/15.8 to 16.7	
Drain Hose Diameter (I.D./O.D.)					25 (15)	30 (15)	
Max. Pipe Length (Pre-Charge)					20	25	
Max. Height Difference					-10 to 46	-10 to 46	
Operating Range	Cooling					-15 to 24	-15 to 24
	Heating					R32 (675)	R32 (675)
Refrigerant	Type (Global Warming Potential)					1.02 (0.689)	1.32 (0.891)
	Charge	kg (CO2eq-T)					

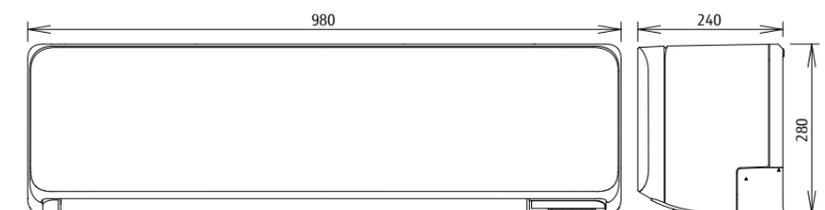
### Optional parts

\* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

Compact wired remote controller:	UTY-RCRYZ1	Communication kit:	UTY-TWRX22	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired remote controller (touch panel):	UTY-RNRYZ5	External input and output PCB:	UTY-XCSX22	Network Converter for single split (AC power supply type):	UTY-VTGXV
Wired remote controller:	UTY-RLRY	External connect kit:	UTY-XWZX25	Silver Ion filter:	UTR-FA16-5
Simple remote controller (without operation mode):	UTY-RHRY	WLAN adapter:	UTY-TFSXF2		
Simple remote controller:	UTY-RSRY	External switch controller:	UTY-TERX		

### Dimensions

(Unit: mm)



# Wall-mounted type

## Standard Series

High-Efficiency & Large Rooms



### 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.



### Human sensor

The Human 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.



### Adopting new R32 refrigerant

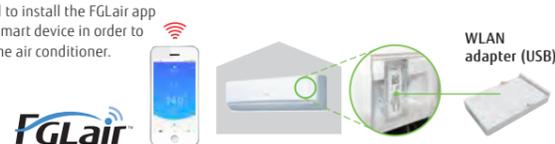
R32 refrigerant is an environmentally friendly refrigerant with a significantly lower Global Warming Potential (GWP) than conventional refrigerant.



### 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.

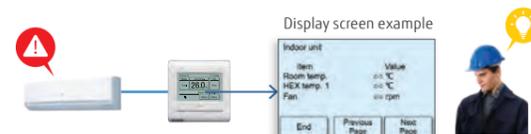
You need to install the FGLair app on your smart device in order to control the air conditioner.



### 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.



Model: ASYH30KMTB/ASYH36KMTB



### Specifications

Model name	Indoor unit		Outdoor unit		Tentative	
	ASYH30KMTB		ASYH36KMTB		AOYH30KMTB	
Power Source						
Capacity	Cooling					
	Heating	kW				
Input Power	Cooling/Heating					
			kW			
EER	Cooling					
COP	Heating					
			W/W			
Pdesign	Cooling/Heating (-10°C)					
SEER	Cooling					
			W/W			
SCOP	Heating (Average)					
			W/W			
Energy Efficiency Class	Cooling					
	Heating (Average)					
Max. Operating Current	Cooling/Heating					
			A			
Annual Energy Consumption	Cooling					
	Heating		kWh/a			
Moisture Removal			l/h			
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q				
	Indoor (Heating)	H/M/L/Q				
Sound Power Level	Outdoor (Cooling/Heating)		High	dB(A)		
			High			
Airflow Rate	Indoor/Outdoor (Cooling)		High	m³/h		
	Indoor/Outdoor (Heating)		High			
Net Dimensions H x W x D	Indoor		mm			
	Outdoor		mm			
Weight	Indoor		kg (lbs)			
	Outdoor		kg (lbs)			
Connection Pipe Diameter (Liquid/Gas)			mm			
Drain Hose Diameter (I.D./O.D.)			mm			
Max. Pipe Length (Pre-Charge)			m			
Max. Height Difference			m			
Operating Range	Cooling		°CDB			
	Heating					
Refrigerant	Type (Global Warming Potential)					
	Charge		kg (CO2eq-T)			

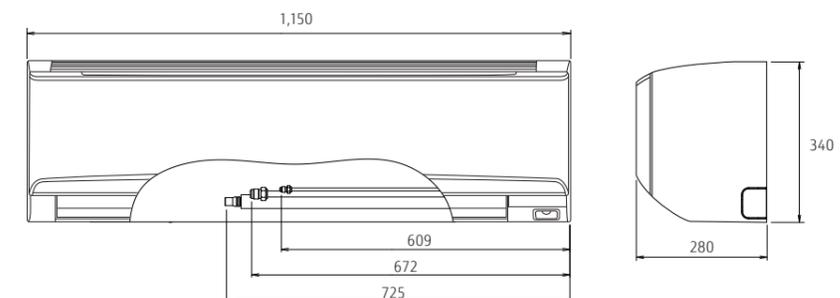
### Optional parts

\* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

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	Communication kit:	UTY-TWRXZ2	Silver Ion Filter:	UTR-FA13-3
Simple remote controller (without operation mode):	UTY-RHRY	WLAN adapter:	UTY-TFSXF2		
Simple remote controller:	UTY-RSRY	External switch controller:	UTY-TERX		

### 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 heat exchanger, large cross-flow fan, and the new refrigerant.



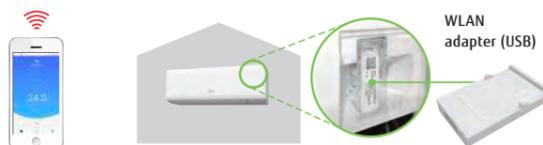
### Comfortable airflow & Quiet operation

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.



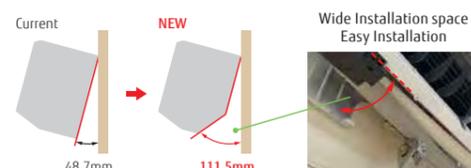
### Smart device Control (Option)

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



### 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	kW	2.5 (0.9-3.4)	2.8 (0.9-3.8)	3.8 (0.9-4.8)
Input Power	Cooling/Heating		0.48/0.63	0.71/0.79	1.00/1.14
	Cooling	W/W	4.17	3.52	3.40
EER	Cooling		3.97	3.54	3.33
	Heating		2.0/2.2	2.5/2.4	3.4/2.5
Pdesign	Cooling/Heating (-10°C)		6.70	6.70	6.30
	Cooling	W/W	4.00	4.00	4.10
SEER	Cooling		A++	A++	A++
	Heating (Average)		A+	A+	A+
SCOP	Heating (Average)		6.5/9.0	6.5/9.0	6.5/9.0
	Cooling/Heating	A	104	131	189
Energy Efficiency Class	Cooling		769	840	853
	Heating		1.0	1.3	1.8
Max. Operating Current	Cooling/Heating		45/38/31/22	45/38/31/22	46/40/33/22
	Cooling	kWh/a	45/40/36/26	45/40/36/26	46/40/35/27
Annual Energy Consumption	Indoor (Cooling)	H/M/L/Q	45/46	47/47	49/51
	Indoor (Heating)	H/M/L/Q	57/58	58/58	59/59
Moisture Removal	Outdoor (Cooling/Heating)	High	57/58	59/59	62/62
	Indoor (Cooling/Heating)	High	580/1,650	580/1,650	630/1,700
Sound Pressure Level	Indoor/Outdoor (Cooling)	High	580/1,450	580/1,450	630/1,470
	Indoor/Outdoor (Heating)	High	270 × 784 × 224	270 × 784 × 224	270 × 784 × 224
Sound Power Level	Indoor (Cooling/Heating)	High	8 (18)	8 (18)	8 (18)
	Outdoor (Cooling/Heating)	High	23 (51)	23 (51)	25 (55)
Airflow Rate	Indoor	mm	6.35/9.52	6.35/9.52	6.35/9.52
	Outdoor	mm	11.8/15.0 to 16.8	11.8/15.0 to 16.8	11.8/15.0 to 16.8
Net Dimensions H x W x D	Indoor	kg (lbs)	20 (15)	20 (15)	20 (15)
	Outdoor	kg (lbs)	15	15	15
Weight	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46
	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24
Connection Pipe Diameter (Liquid/Gas)	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)
Drain Hose Diameter (I.D./O.D.)	Max. Height Difference		15	15	15
	Operating Range		15	15	15
Max. Pipe Length (Pre-Charge)	Refrigerant		15	15	15
	Charge		15	15	15

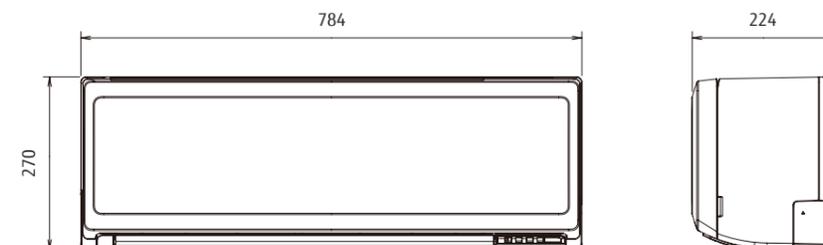
### Optional parts

\* For optional parts compatibility of Inetis devices, refer to the optional parts compatibility list Page C-046.

WLAN adapter:	UTY-TFSXF2
Silver Ion Filter:	UTR-FA16-5

### Dimensions

(Unit: mm)



# Wall-mounted type

## ECO Series

Comfort for Large Rooms



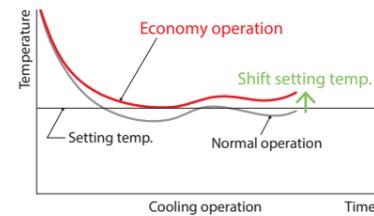
### Narrow width & Compact Design

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



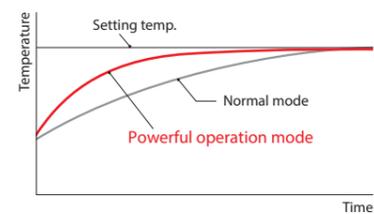
### Economy operation

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

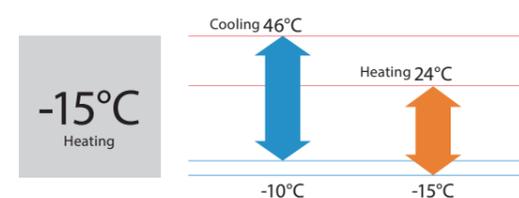
In powerful operation mode, the compressor operates at maximum speed for 20 minutes to provide a powerful airflow. Rapid cooling and heating makes the room comfortable quickly.



### 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	
	Indoor unit		Outdoor unit		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
	Cooling					3.09	2.93
EER	Cooling		W/W			3.50	3.60
	Heating					5.20/4.80	7.10/7.10
Pdesign	Cooling/Heating (-10°C)		kW			7.20	7.10
	Cooling					4.30	4.00
SEER	Cooling		W/W			A++	A++
	Heating (Average)					A+	A+
SCOP	Cooling		A			9.5/13.5	13.5/17.5
	Heating (Average)					253	350
Max. Operating Current	Cooling/Heating		kWh/a			1563	2485
	Cooling					1.9	3.1
Annual Energy Consumption	Heating		l/h			47/44/40/35	51/45/38/33
	Cooling					50/45/41/37	52/45/41/37
Moisture Removal	Indoor (Cooling)	H/M/L/Q			50/56	55/57	
	Indoor (Heating)	H/M/L/Q			60/65	64/65	
Sound Pressure Level	Outdoor (Cooling/Heating)	High	dB(A)			61/66	65/67
	Indoor (Cooling/Heating)	High				865/1,830	1,040/2,885
Sound Power Level	Indoor (Cooling/Heating)	High			995/2,265	1,040/3,030	
	Outdoor (Cooling/Heating)	High			293 × 790 × 249	293 × 790 × 249	
Airflow Rate	Indoor/Outdoor (Cooling)	High	m³/h			542 × 799 × 290	632 × 799 × 290
	Indoor/Outdoor (Heating)	High				9.5 (21)	10.0 (22)
Net Dimensions H x W x D	Indoor	mm			33 (73)	38 (84)	
	Outdoor	mm			6.35/9.52	6.35/12.70	
Weight	Indoor	kg (lbs)			13.8/15.8 to 16.7	13.8/15.8 to 16.7	
	Outdoor	kg (lbs)			25 (15)	30 (15)	
Connection Pipe Diameter (Liquid/Gas)			m			20	25
						-10 to 46	-10 to 46
Drain Hose Diameter (I.D./O.D.)			°CDB			-15 to 24	-15 to 24
						R32 (675)	R32 (675)
Max. Pipe Length (Pre-Charge)			kg (CO2eq-T)			0.85 (0.574)	1.10 (0.743)
Max. Height Difference							
Operating Range							
Refrigerant							

### Optional parts

\* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

Silver Ion Filter: UTR-FA16-5

### Dimensions

(Unit: mm)



# Compact Cassette

## Compact 4-way Flow Series

Compact Size



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

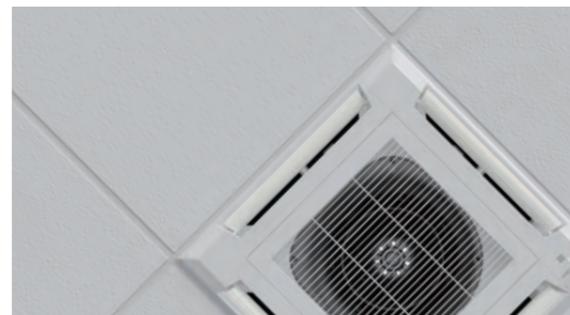


### Specifications

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
COP	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	A++	A++	A++	A++	A++	A++
	Heating (Average)		A+	A+	A+	A+	A+	A+
Max. Operating Current	Cooling/Heating	kWh/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
	Cooling		131	186	231	275	318	390
Annual Energy Consumption	Heating	I/h	826	1,106	1,208	1,466	1,562	2,097
	Moisture Removal		0.6	1.2	1.5	2.2	2.6	2.7
Sound Pressure Level	Indoor (Cooling)	dB(A)	33/31/29/27	37/34/30/27	38/34/30/27	38/34/30/26	44/42/36/30	49/44/36/30
	Indoor (Heating)		34/32/29/27	37/34/31/29	43/38/34/30	43/38/34/30	45/43/40/33	49/45/40/33
Sound Power Level	Outdoor (Cooling/Heating)	High	46/46	47/47	49/49	50/50	51/51	53/54
	Indoor (Cooling/Heating)		46/47	49/49	50/55	50/55	56/57	59/61
Airflow Rate	Outdoor (Cooling/Heating)	High	59/59	61/61	62/62	62/62	63/63	65/66
	Indoor/Outdoor (Cooling)		540/1,480	600/1,580	680/1,670	680/2,160	830/2,240	930/2,700
Net Dimensions H x W x D	Indoor	mm	245 x 570 x 570					
	Outdoor		542 x 799 x 290	542 x 799 x 290	542 x 799 x 290	632 x 799 x 290	632 x 799 x 290	716 x 820 x 315
Weight	Indoor	kg (lbs)	15 (33)	15 (33)	15 (33)	15 (33)	16 (35)	16 (35)
	Outdoor		32 (71)	33 (73)	33 (73)	36 (79)	38 (84)	42 (93)
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 Hose Diameter (I.D./O.D.)		mm	25/32	25/32	25/32	25/32	25/32	25/32
Max. Pipe Length (Pre-Charge)		m	20 (15)	25 (15)	25 (15)	30 (20)	30 (20)	30 (20)
Max. Height Difference	Cooling	°CDB	15	20	20	20	25	25
	Heating		-15 to 46					
Operating Range	Cooling	°CDB	-15 to 24					
	Heating		R32 (675)					
Refrigerant	Type (Global Warming Potential)	kg (CO2eq-T)	0.85 (0.574)	0.85 (0.574)	0.85 (0.574)	1.02 (0.689)	1.25 (0.844)	1.25 (0.844)
	Charge		UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W
Cassette Grille	Model name	mm	49 x 620 x 620					
	Dimensions (H x W x D)		2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)
	Weight	kg (lbs)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	

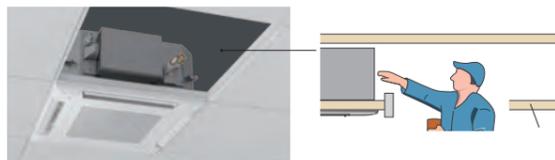
### Compact and stylish panel design

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.



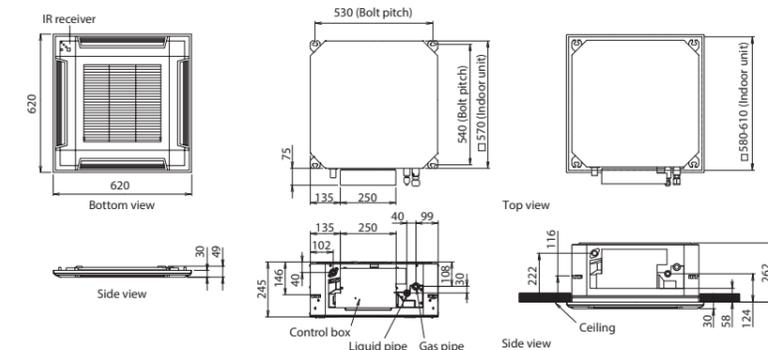
### Optional parts

\* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

Compact wired remote controller:	UTY-RCRYZ1	Wireless remote controller:	UTY-LNTY	Network Converter for single split (DC power supply type):	UTY-VTGX
Wired remote controller (touch panel):	UTY-RNRYZ5	External switch controller:	UTY-TERX	Network Converter for single split (AC power supply type):	UTY-VTGXV
Wired remote controller:	UTY-RLRY	WLAN adapter:	UTY-TFSXZ1	Insulation kit for high humidity:	UTZ-KXGC
	UTY-RNNYM		FJ-RC-WIFI-1	External input and output PCB:	UTY-XCSX
	UTY-RVNYM	Air Outlet Shutter Plate:	UTR-YDZB	External input and output PCB box:	UTZ-GXRA
Simple remote controller (without operation mode):	UTY-RHRY	External connect kit:	UTY-XWZGZG	Silver Ion Filter:	UTD-HFAA
Simple remote controller:	UTY-RSRY	Cassette Grille:	UTG-UFYF-W		
	UTY-RSNYM	Fresh air intake kit:	UTZ-VXAA		

### Dimensions

(Unit: mm)



# Cassette Circular Flow Series Comfort for Large Rooms

UTG-UKYA-B  
Black Grille



## 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 Human 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.



## 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.



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		AOYG18KBTB	AOYG22KBTB	AOYG24KBTB	AOYG30KBTB	AOYG36KBTB	AOYG45KBTB	AOYG54KBTB	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
	Cooling		3.82	3.51	3.60	3.49	3.26	3.35	3.04	3.26	3.35	3.04
EER	Cooling	W/W	3.80	3.85	3.95	3.98	4.40	4.20	3.73	4.40	4.20	3.73
	Heating		3.80	3.85	3.95	3.98	4.40	4.20	3.73	4.40	4.20	3.73
COP	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	-	-
	Cooling		7.00	7.00	6.60	6.70	6.55	-	-	6.55	-	-
SEER	Cooling	W/W	4.30	4.40	4.20	4.30	4.30	-	-	4.30	-	-
	Heating (Average)		A++	A++	A++	A++	A++	-	-	A++	-	-
Energy Efficiency Class	Cooling	A	A+	A+	A+	A+	A+	-	-	A+	-	-
	Heating (Average)		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
Max. Operating Current	Cooling/Heating	kWh/a	260	300	360	444	507	-	-	507	-	-
	Cooling		1.431	1.527	1.999	2.601	2.828	-	-	2.828	-	-
Annual Energy Consumption	Cooling	I/h	1.5	2.2	2.7	2.5	3.3	4.5	5.0	3.3	4.5	5.0
	Heating		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
Moisture Removal	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)		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
Sound Pressure Level	Outdoor (Cooling/Heating)	dB(A)	50/50	51/51	53/54	53/55	55/55	57/57	57/59	55/55	57/57	57/59
	Indoor (Cooling/Heating)		47/47	49/49	49/49	54/54	58/58	60/60	61/61	58/58	60/60	61/61
Sound Power Level	Outdoor (Cooling/Heating)	High	62/62	63/63	65/66	68/69	70/70	71/71	73/73	70/70	71/71	73/73
	Indoor (Cooling/Heating)		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
Airflow Rate	Indoor/Outdoor (Cooling)	m³/h	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	2.100/4.450
	Indoor/Outdoor (Heating)		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
Net Dimensions H x W x D	Indoor	mm	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		23 (51)	23 (51)	24 (53)	26 (57)	29 (64)	29 (64)	29 (64)	29 (64)	29 (64)	29 (64)
Weight	Indoor	kg (lbs)	36 (79)	38 (84)	42 (93)	52 (115)	52 (115)	67 (148)	67 (148)	53 (117)	67 (148)	67 (148)
	Outdoor		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
Connection Pipe Diameter (Liquid/Gas)	Indoor	mm	25/32	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)	50 (30)
Drain Hose Diameter (I.D./O.D.)	Indoor	m	20	25	25	30	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	-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	-15 to 24
	Heating		R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
Refrigerant	Type (Global Warming Potential)	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)
	Charge		UTG-UKYA-W: White wired remote controller (touch panel) UTG-UKYC-W: White/UTG-UKYA-B*: Black						UTG-UKYA-W: White wired remote controller (touch panel) UTG-UKYC-W: White/UTG-UKYA-B*: Black			
Cassette Grille	Variation	mm	UTG-UKYA-W: White wired remote controller (touch panel) UTG-UKYC-W: White/UTG-UKYA-B*: Black									
	Dimensions (H × W × D)		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	Indoor	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)	6.0 (13)	6.0 (13)
	Outdoor		*1: IR Receiver kit and Human sensor kit cannot be connected.									

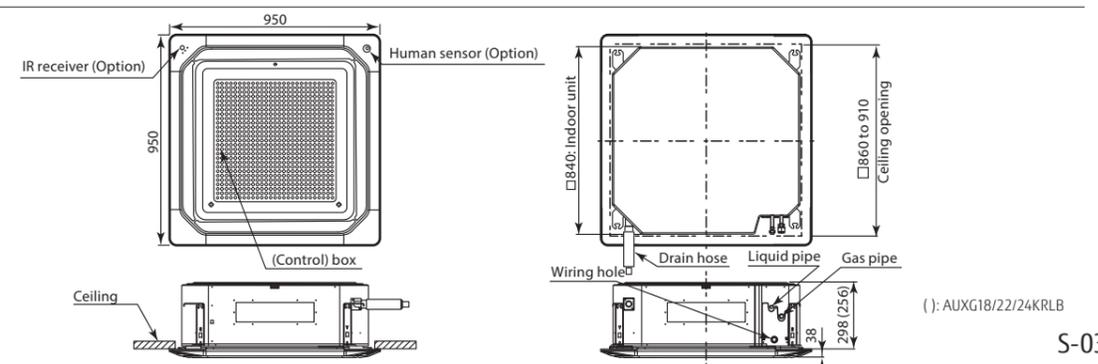
## Optional parts

\* For optional parts compatibility of Inesis devices, refer to the optional parts compatibility list Page C-046.

Compact wired remote controller:	UTY-RCRYZ1	WLAN adapter:	UTY-TFSXZ1	Cassette Grille:	UTG-UKYA-B
Wired remote controller (touch panel):	UTY-RNRYZ5	External input and output PCB:	FJ-RC-WIFI-1	UTG-UKYA-W	UTG-UKYA-W
Wired remote controller:	UTY-RLRY	External input and output PCB box:	UTY-XCSX	UTG-UKYC-W	UTG-UKYC-W
	UTY-RNNYM	Insulation kit for high humidity:	UTZ-GXRA	Air Outlet Shutter Plate:	UTR-YDZK
	UTY-RVNYM	Fresh air intake kit:	UTZ-KXRA	Network Converter for single split (DC power supply type):	UTY-VTGX
Simple remote controller (without operation mode):	UTY-RHRY	Wide Panel:	UTZ-VXRA	Network Converter for single split (AC power supply type):	UTY-VTGX
Simple remote controller:	UTY-RSRY	Panel Spacer:	UTG-AKXA-W	Silver Ion Filter:	UTD-HFRA
	UTY-RSNYM	IR receiver unit:	UTG-BKXA-W		
Human sensor kit:	UTY-SH2XC	External connect kit:	UTY-LBXYC	(Outdoor unit 30/36/45/54)	
External switch controller:	UTY-TERX		UTY-XWZXC	External connect kit:	UTY-XWZXC

## 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.



Central Control System

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		0.60/0.79	0.93/1.08	1.28/1.32	1.55/1.62
	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)		2.5/2.6	3.5/3.4	4.3/3.8	5.2/4.4
SEER	Cooling		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+	A++
	Heating		A+	A+	A	A+
Max. Operating Current	Cooling/Heating		7.9/7.9	9.7/9.7	10.2/10.2	12.1/12.1
Annual Energy Consumption	Cooling		141	201	259	293
	Heating		845	1,189	1,362	1,501
Moisture Removal			0.7	1.3	1.5	2.0
	Indoor (Cooling)	H/M/L/Q	28/27/26/25	29/28/26/25	32/30/28/26	32/30/29/27
Sound Pressure Level	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	57/57	58/58	60/60	58/58
	Outdoor (Cooling/Heating)	High	59/59	61/61	62/62	62/62
Airflow Rate	Indoor/Outdoor (Cooling)	High	600/1,480	650/1,580	800/1,670	940/2,160
	Indoor/Outdoor (Heating)	High	600/1,410	650/1,520	800/1,580	940/1,830
Static pressure range (Standard)			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	542 × 799 × 290	542 × 799 × 290	542 × 799 × 290	632 × 799 × 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)			6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70
Drain Hose Diameter (I.D./O.D.)			25/32	25/32	25/32	25/32
Max. Pipe Length (Pre-Charge)			20 (15)	25 (15)	25 (15)	30 (20)
Max. Height Difference			15	20	20	20
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		kg (CO2eq-T)	0.85 (0.574)	0.85 (0.574)	0.85 (0.574)

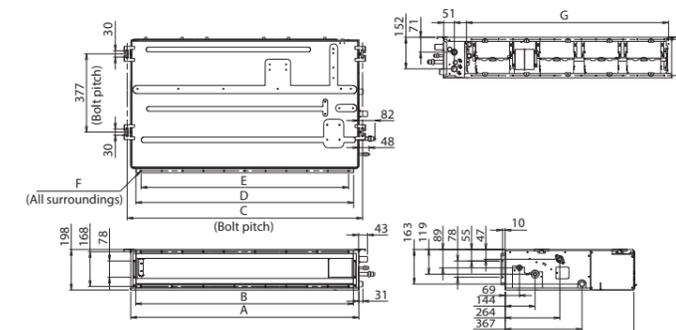
### Optional parts

\* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

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-VTGXV
Wired remote controller:	UTY-RLRY		FJ-RC-WIFI-1	External connect kit:	UTY-XWZXXZG
	UTY-RNNYM	Silver Ion Filter:	UTD-HFTA (09-14)	Remote sensor unit:	UTY-XSZX
	UTY-RVNYM		UTD-HFTB (18)	Fresh air intake kit:	UTZ-VXAA
Simple remote controller (without operation mode):	UTY-RHRY	Auto Louver Grille Kit:	UTD-GXTA-W (09-14)		
Simple remote controller:	UTY-RSRY		UTD-GXTB-W (18)		
	UTY-RSNYM	IR receiver unit:	UTY-LBTYM		

### Dimensions

(Unit: mm)



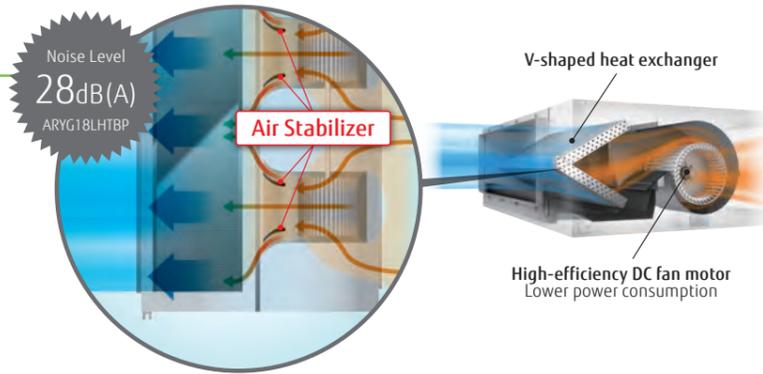
	ARXG09/12/14KLLAP	ARXG18KLLAP
A	700	900
B	650	850
C	734	934
D	650	850
E	P100 × 6 = 600	P100 × 8 = 800
F	18 × Ø5	22 × Ø5
G	574	774

# Medium Static Pressure Duct Compact Size



## 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		ADVG12KHTB	ADVG14KHTB	ADVG18KHTB	ADVG22KHTB	ADVG24KHTB	ADVG30KHTB	ADVG36KHTB	ADVG45KHTB	ADVG54KHTB	ADVG36KHTA	ADVG45KHTA	ADVG54KHTA	
Power Source	Single phase, ~230 V, 50 Hz											3-phase, ~400 V, 50 Hz			
Capacity	Cooling	kW													
	Heating	kW													
Input Power	Cooling/Heating	kW													
		W/W													
EER	Cooling	W/W													
	Heating	W/W													
COP	Cooling	W/W													
	Heating	W/W													
Pdesign	Cooling/Heating (-10°C)	kW													
		W/W													
SEER	Cooling	W/W													
	Heating (Average)	W/W													
SCOP	Cooling	W/W													
	Heating (Average)	W/W													
Energy Efficiency Class	Cooling	A++													
	Heating (Average)	A+													
Max. Operating Current	Cooling/Heating	A													
		kWh/a													
Annual Energy Consumption	Cooling	kWh/a													
	Heating	kWh/a													
Moisture Removal	Cooling	l/h													
	Heating	l/h													
Sound Pressure Level	Indoor (Cooling)	dB(A)													
	Indoor (Heating)	dB(A)													
Sound Power Level	Outdoor (Cooling/Heating)	dB(A)													
		dB(A)													
Airflow Rate	Indoor (Cooling)	m³/h													
	Indoor/Outdoor (Heating)	m³/h													
Static pressure range (Standard)	Indoor	Pa													
	Outdoor	Pa													
Net Dimensions	Indoor	mm													
	Outdoor	mm													
H x W x D	Indoor	mm													
	Outdoor	mm													
Weight	Indoor	kg (lbs)													
	Outdoor	kg (lbs)													
Connection Pipe Diameter (Liquid/Gas)	Indoor	mm													
	Outdoor	mm													
Drain Hose Diameter (I.D./O.D.)	Indoor	mm													
	Outdoor	mm													
Max. Pipe Length (Pre-Charge)	Indoor	m													
	Outdoor	m													
Max. Height Difference	Indoor	m													
	Outdoor	m													
Operating Range	Cooling	°CDB													
	Heating	°CDB													
Refrigerant	Type (Global Warming Potential)	R32 (675)													
	Charge	kg (CO2eq-T)													

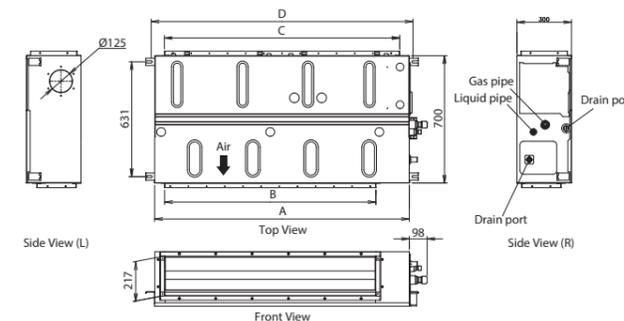
### Optional parts

\* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

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		FJ-RC-WIFI-1
Wired remote controller:	UTY-RLRY	External input and output PCB:	UTZ-GXNA	Network Converter for single split (DC power supply type):	UTY-VTGX
	UTY-RNNYM	Long-life filter:	UTD-LFNA (36-54)	Network Converter for single split (AC power supply type):	UTY-VTGXV
	UTY-RVNYM		UTD-LFNB (18-30)		
Simple remote controller (without operation model):	UTY-RHRY	Silver Ion Filter:	UTD-HFNC (12-14)	(Outdoor unit 30/36/45/54)	
Simple remote controller:	UTY-RSRY		UTD-HFNB (18-30)	External connect kit:	UTY-XWZXZ3
	UTY-RSNYM	IR receiver unit:	UTY-LBTYM		
Remote sensor unit:	UTY-XSZX				
External switch controller:	UTY-TERX				

### Dimensions

(Unit: mm)



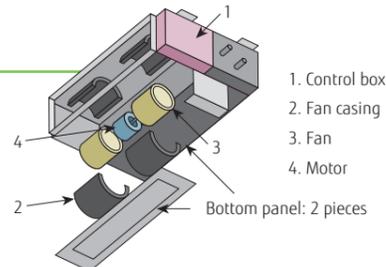
	ARXG12/14KHTAP	ARXG18/22/24/30KHTAP	ARXG36/45/54KHTAP
A	700	1,000	1,400
B	462	762	1,162
C	650	895	1,295
D	740	1,040	1,440

# Medium Static Pressure Duct Standard



## 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.

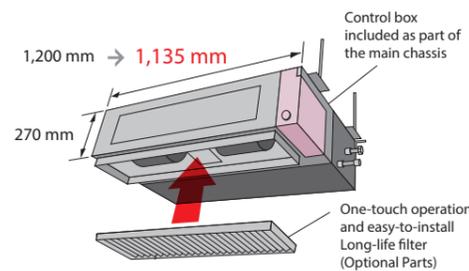


See below for case of rear-suction type

## 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.

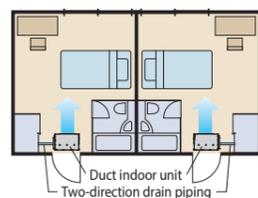


### Outdoor Unit

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]



## 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	-
SCOP	Cooling		A++	A++	A++	A++	-	A++	-
	Heating		A+	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	Cooling	l/h	2.1	2.5	2.5	3.0	4.0	3.0	4.0
	Heating								
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	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	42/35/30/26	42/35/30/26
Sound Power Level	Outdoor (Cooling/Heating)	High	51/51	53/54	53/55	55/55	57/57	55/55	57/57
	Indoor (Cooling/Heating)		High	60/62	60/62	65/69	65/70	68/70	65/70
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
Static pressure range (Standard)	Cooling	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)
	Heating								
Net Dimensions H x W x D	Indoor	mm	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
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)
Connection Pipe Diameter (Liquid/Gas)	Cooling	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
	Heating								
Drain Hose Diameter (I.D./O.D.)	Cooling	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
	Heating								
Max. Pipe Length (Pre-Charge)	Cooling	m	30 (20)	30 (20)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)
	Heating								
Max. Height Difference	Cooling	°CDB	-15 to 46	-15 to 46					
	Heating								
Refrigerant	Type (Global Warming Potential)		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)

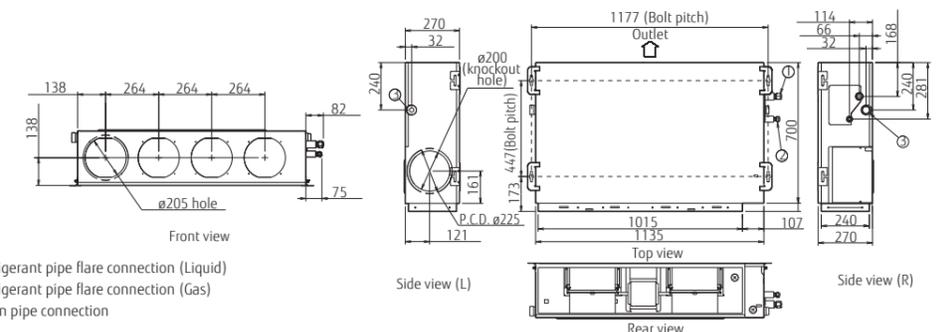
## Optional parts

\* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

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-VTGXV
Wired remote controller:	UTY-RLRY		FJ-RC-WIFI-1	Drain pump unit:	UTZ-PXINBA
	UTY-RNNYM	Flange (Round):	UTD-RF204	Long-life filter:	UTD-LF25NA
	UTY-RVNYM	Flange (Square):	UTD-SF045T	Silver Ion Filter:	UTD-HFND
Simple remote controller (without operation mode):	UTY-RHRY	IR receiver unit:	UTY-LBTYM		
Simple remote controller:	UTY-RSRY	Remote sensor unit:	UTY-XSZX	(Outdoor unit 30/36/45/54)	
	UTY-RSNYM	External connect kit:	UTY-XWZXZG	External connect kit:	UTY-XWZXZ3

## Dimensions

(Unit: mm)



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

# 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.

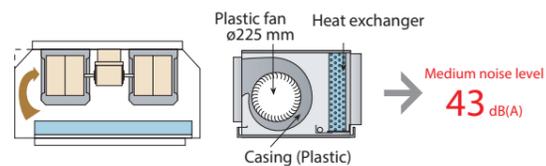


## Design also suits high static pressure



## 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		AOYG45KHTB	AOYG54KHTB	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	kW	4.16/3.61	4.77/4.18	4.16/3.61	4.77/4.18	
	EER		W/W	2.91	2.81	2.91	2.81
COP	Cooling			3.74	3.71	3.74	3.71
	Heating						
Pdesign	Cooling/Heating (-10°C)	kW	-	-	-	-	
SEER	Cooling	W/W	-	-	-	-	
	Heating		-	-	-	-	
SCOP	Cooling		-	-	-	-	
	Heating		-	-	-	-	
Energy Efficiency Class	Cooling		-	-	-	-	
Max. Operating Current	Cooling/Heating	A	28.5/28.5	28.5/28.5	14.0/14.0	14.0/14.0	
	Annual Energy Consumption		kWh/a	-	-	-	-
Moisture Removal	Cooling	l/h		1.5	2.0	1.5	2.0
	Heating						
Sound Pressure Level	Indoor (Cooling)	H/M/L	47/43/40	47/43/40	47/43/40	47/43/40	
	Indoor (Heating)		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		m³/h	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)		Pa	100 to 250 (100)	100 to 250 (100)	100 to 250 (100)	100 to 250 (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		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		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.)		mm	23.4/25.4	23.4/25.4	23.4/25.4	23.4/25.4	
Max. Pipe Length (Pre-Charge)		m	50 (30)	50 (30)	50 (30)	50 (30)	
Max. Height Difference			30	30	30	30	
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)	2.70 (1.823)	2.70 (1.823)	2.70 (1.823)	2.70 (1.823)	

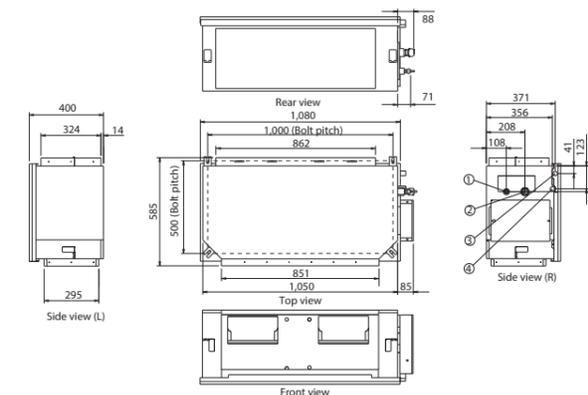
## Optional parts

\* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

Compact wired remote controller:	UTY-RCRYZ1	External connect kit:	UTY-XWZXZG	External input and output PCB:	UTY-XCSX+UTZ-GXEA
Wired remote controller (touch panel):	UTY-RNRYZ5	Remote sensor unit:	UTY-XSZX		
Wired remote controller:	UTY-RLRY	Long-life filter:	UTD-LF60KA	(Outdoor unit)	
Simple remote controller:	UTY-RSRY	External switch controller:	UTY-TERX	External connect kit:	UTY-XWZXZ3
	UTY-RHRY	WLAN adapter:	UTY-TFSXZ1		
IR Receiver unit:	UTY-LBTYM	Silver Ion Filter:	UTD-HFKB		

## Dimensions

(Unit: mm)



- 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)

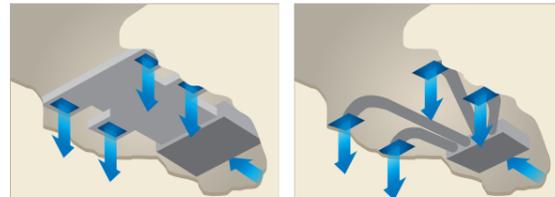
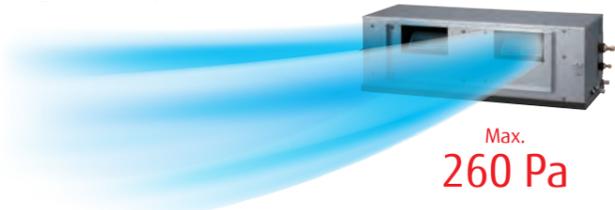
# High Static Pressure Duct



## High energy efficiency

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

## Design also corresponding to high static pressure



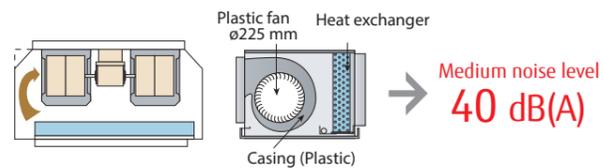
## Easy installation (Compact & Lightweight)

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]



## Specifications

Model name	Indoor unit		ARYG60LHTA	
	Outdoor unit		AOYG60LATT	
Power Source			3-phase, ~400 V, 50 Hz	
Capacity	Cooling	kW	15.0 (6.2-17.5)	
	Heating	kW	18.0 (6.2-20.0)	
Input Power	Cooling/Heating		kW	
EER	Cooling		W/W	
COP	Heating		W/W	
Max. Operating Current	Cooling/Heating		A	
Moisture Removal			l/h	
Sound Pressure	Indoor (Cooling)	H/M/L/Q	dB(A)	
	Indoor (Heating)	H/M/L/Q	45/40/36/-	
	Outdoor (Cooling/Heating)	High	56/58	
Airflow Rate	Indoor/Outdoor (Cooling)	High	m³/h	
	Indoor/Outdoor (Heating)	High	3,550/6,900 3,550/7,300	
Static pressure range (Standard)			Pa	
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)			mm	
Drain Hose Diameter (I.D./O.D.)			mm	
Max. Pipe Length (Pre-Charge)			m	
Max. Height Difference			m	
Operating Range	Cooling	°CDB	-15 to 46	
	Heating	°CDB	-15 to 24	
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	
	Charge	kg (CO2eq-T)	3.45 (7.204)	

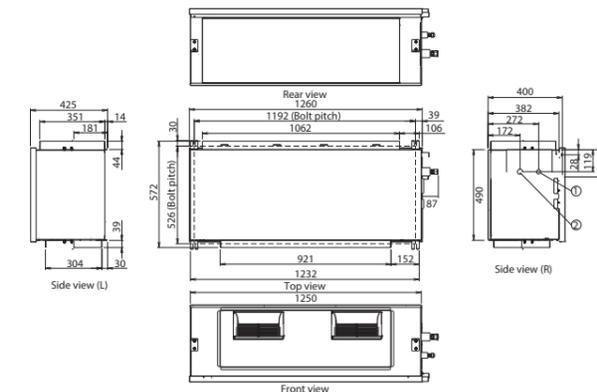
## Optional parts

\* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

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-ECS5A
External switch controller:	UTY-TERX	IR receiver unit:	UTY-LRHYM
WLAN adapter:	UTY-TFNXZ1	(Outdoor unit)	
	FJ-RC-WIFI-1	External connect kit:	UTY-XWZXZ2
Remote sensor unit:	UTY-XSZX		

## Dimensions

(Unit: mm)



- 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)

# Big Duct



Model: ARYG72LHTA/ARYG90LHTA



Wired RC

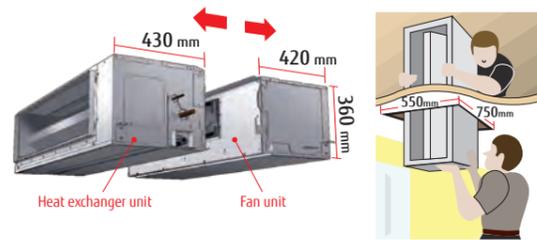


## Specifications

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		6.46/6.59	7.77/8.18
	Cooling	W/W	2.94	2.83
EER	Heating		3.40	3.30
COP	Indoor (Cooling/Heating)		-	-
	Outdoor (Cooling/Heating)		-	-
Max. Operating Current	Indoor (Cooling/Heating)		-	-
	Outdoor (Cooling/Heating)		-	-
Moisture Removal	Indoor (Cooling)		4.5	6.0
	Indoor (Heating)		4.5	6.0
Sound Pressure	Indoor (Cooling)	H/M/L/Q	46/43/41/39	47/44/42/40
	Indoor (Heating)		46/43/41/39	47/44/42/40
Airflow Rate	Outdoor (Cooling/Heating)	High	55/55	55/57
	Indoor/Outdoor (Cooling)		4,300/8,400	4,300/8,400
Static pressure range (Standard)	Indoor/Outdoor (Heating)		4,300/8,400	4,300/9,000
	High		4,300/8,400	4,300/9,000
Net Dimensions	Indoor		50 to 150 (72)	50 to 200 (72)
	Outdoor		360 × 1,400 × 850	360 × 1,400 × 850
H x W x D	Indoor		1,428 × 1,080 × 480	1,428 × 1,080 × 480
	Outdoor		69 (152)	80 (176)
Weight	Indoor		165 (364)	174 (384)
	Outdoor		12.7/25.4	12.7/25.4
Connection Pipe Diameter (Liquid/Gas)	Indoor		25/32	25/32
	Outdoor		100 (30)	100 (30)
Drain Hose Diameter (I.D./O.D.)	Indoor		30	30
	Outdoor		-15 to 46	-15 to 46
Max. Pipe Length (Pre-Charge)	Indoor		-20 to 24	-20 to 24
	Outdoor		100 (30)	100 (30)
Max. Height Difference	Cooling		30	30
	Heating		-15 to 46	-15 to 46
Operating Range	Cooling		-20 to 24	-20 to 24
	Heating		-15 to 46	-15 to 46
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)
	Charge		5.6 (11.693)	7.1 (14.825)

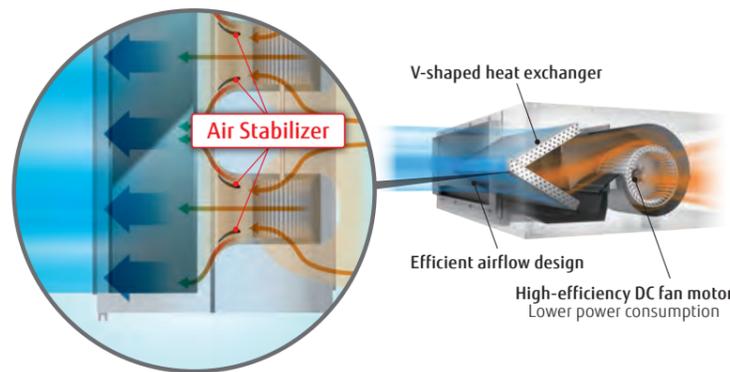
## Splittable, lightweight, and compact design

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.



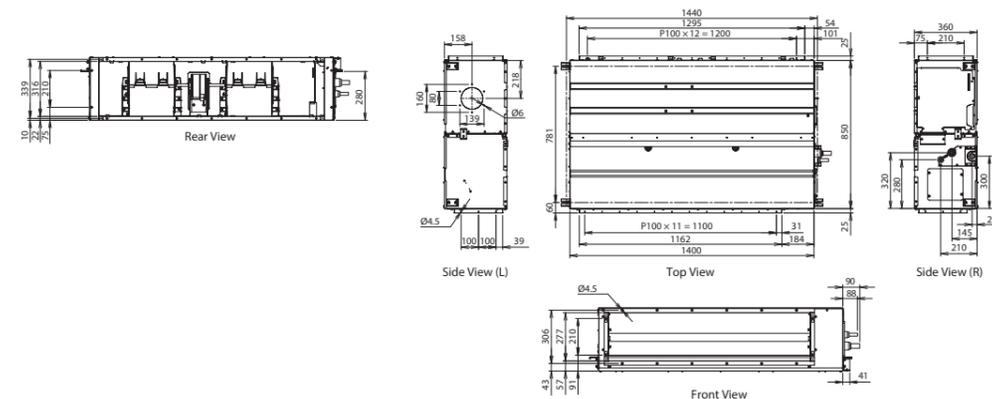
## Optional parts

\* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

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-VTGXV
Wired remote controller:	UTY-RLRY		FJ-RC-WIFI-1	IR receiver unit:	UTY-LBXYM
	UTY-RNNYM	External input and output PCB:	UTY-XCSX	Silver Ion Filter:	UTY-LRHYM
	UTY-RVNYM	Remote sensor unit:	UTY-XSZX		UTD-HFKA
Simple remote controller (without operation mode):	UTY-RHRY	Long-life filter:	UTD-LFKA		
Simple remote controller:	UTY-RSRY	External connect kit:	UTY-XWZXZG	(Outdoor unit 72/90)	
	UTY-RSNYM	Drain pump unit:	UTZ-PXINAB	External connect kit:	UTY-XWZXZ3

## 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.

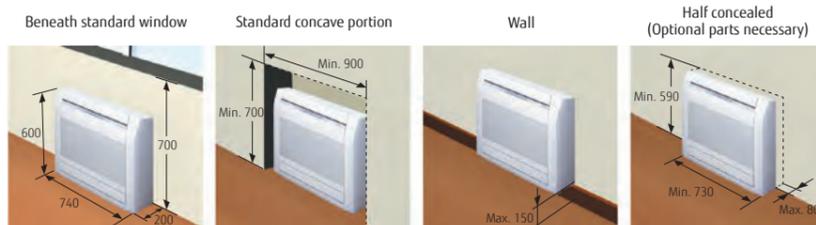


SEER 8.50\*1 SCOP 4.30\*1

\*1: 09 model

## Flexible & easy installation

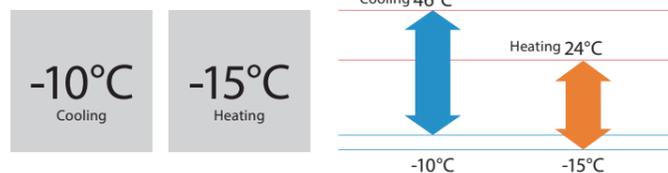
The compact and whole-surface suction design provides flexible installation options, including floor-standing, embedded, half concealed, and wall mount installation to match the room layout.



(Unit: mm)  
\* Concaved position installation with concealment is prohibited.

## Low ambient operation

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



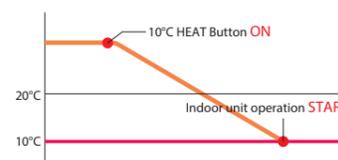
## Smart device Control (Option)

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



## Specifications

Model name	Indoor unit		AGYG09KVCA	AGYG12KVCA	AGYG14KVCA
	Outdoor unit		AOYG09KVCA	AOYG12KVCA	AOYG14KVCA
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	kW	3.5 (0.9-5.1)	4.5 (0.9-5.3)	5.2 (0.9-6.3)
Input Power	Cooling/Heating		0.53/0.81	0.88/1.22	1.06/1.41
	Cooling	W/W	4.70	4.00	3.95
COP	Heating		4.30	3.70	3.70
	Cooling/Heating (-10°C)	kW	2.50/2.60	3.50/3.50	4.20/4.20
SEER	Cooling	W/W	8.50	8.20	8.10
SCOP	Heating (Average)		4.30	4.10	4.00
	Cooling		A+++	A++	A++
Energy Efficiency Class	Heating (Average)		A+	A+	A+
	Cooling/Heating	A	7.0/8.5	7.0/8.5	11.0/12.0
Max. Operating Current	Cooling		103	149	181
	Heating (Average)		845	1,192	1,466
Annual Energy Consumption	Cooling		1.3	1.8	2.1
	Heating				
Moisture Removal	Indoor (Cooling)	H/M/L/Q	40/35/29/22	40/35/29/22	44/38/31/22
	Indoor (Heating)	H/M/L/Q	41/35/29/22	41/35/29/22	43/37/29/22
Sound Pressure Level	Outdoor (Cooling/Heating)	High	43/47	45/51	51/50
	Indoor (Cooling/Heating)	High	53/54	53/54	57/56
Sound Power Level	Outdoor (Cooling/Heating)	High	58/61	61/64	63/63
	Indoor/Outdoor (Cooling)	High	570/1,530	570/1,530	650/2,210
Airflow Rate	Indoor/Outdoor (Heating)	High	600/1,510	600/1,510	650/2,100
	Indoor	mm	600 × 740 × 200	600 × 740 × 200	600 × 740 × 200
Net Dimensions H x W x D	Outdoor	mm	542 × 799 × 290	542 × 799 × 290	632 × 799 × 290
	Indoor	kg (lbs)	14 (31)	14 (31)	14 (31)
Weight	Outdoor	kg (lbs)	31 (68)	31 (68)	38 (83)
	Indoor/Outdoor (Cooling)	mm	6.35/9.52	6.35/9.52	6.35/9.52
Connection Pipe Diameter (Liquid/Gas)	mm	13.8/15.8 to 16.7	13.8/15.8 to 16.7	13.8/15.8 to 16.7	
Drain Hose Diameter (I.D./O.D.)	m	20 (15)	20 (15)	20 (15)	
Max. Pipe Length (Pre-Charge)		15	15	15	
Max. Height Difference	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46
	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24
Operating Range	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)

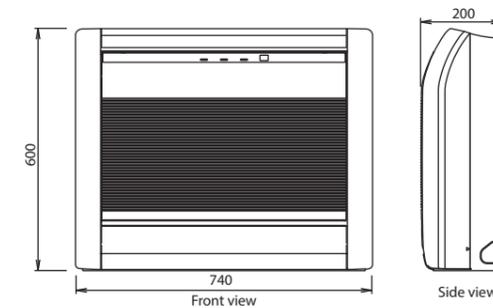
## Optional parts

\* For optional parts compatibility of Intesis devices, refer to the optional parts compatibility list Page C-046.

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-VTGXV
Wired remote controller:	UTY-RLRY	Half concealed kit:	UTR-STA	Silver Ion Filter:	UTR-FA03-5
Simple remote controller (without operation mode):	UTY-RHRY	Communication kit:	UTY-TWRXZ3		
Simple remote controller:	UTY-RSRY	External connect kit:	UTY-XWXZ5		

## Dimensions

(Unit: mm)



# Ceiling



## 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.



## 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.



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			ABYG54KRTA		
	Outdoor unit		ADYG18KBTB	ADYG22KBTB	ADYG24KBTB	ADYG30KBTB	ADYG36KBTB	ADYG45KBTB	ADYG36KRTA	ADYG45KRTA	ADYG54KRTA	ADYG36KRTA	ADYG45KRTA	ADYG54KRTA	ADYG36KRTA	ADYG45KRTA	ADYG54KRTA	ADYG36KRTA	ADYG45KRTA	ADYG54KRTA	ADYG36KRTA	ADYG45KRTA	ADYG54KRTA
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)	9.5 (2.8-11.2)	12.1 (4.0-13.5)	13.4 (4.5-14.5)	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)	10.8 (2.7-12.7)	13.5 (4.2-16.2)	15.5 (4.7-16.5)
	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)	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)	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	1.55/1.62	1.87/1.95	2.14/1.97	2.65/2.77	2.96/2.88	4.22/3.84	1.55/1.62	1.87/1.95	2.14/1.97	2.65/2.77	2.96/2.88	4.22/3.84	1.55/1.62	1.87/1.95	2.14/1.97	1.55/1.62	1.87/1.95	2.14/1.97	2.65/2.77	2.96/2.88	4.22/3.84
	Cooling		3.35	3.21	3.18	3.21	3.21	2.87	3.35	3.21	3.18	3.21	3.21	2.87	3.35	3.21	3.18	3.35	3.21	3.18	3.21	3.21	2.87
EER	Cooling	W/W	3.70	3.59	3.81	3.61	3.75	3.52	3.70	3.59	3.81	3.61	3.75	3.52	3.70	3.59	3.81	3.70	3.59	3.81	3.61	3.75	3.52
	Heating		3.35	3.21	3.18	3.21	3.21	2.87	3.35	3.21	3.18	3.21	3.21	2.87	3.35	3.21	3.18	3.35	3.21	3.18	3.21	3.21	2.87
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	-	5.2/4.4	6.0/4.8	6.8/6.0	8.5/8.0	9.5/8.7	-	5.2/4.4	6.0/4.8	6.8/6.0	5.2/4.4	6.0/4.8	6.8/6.0	8.5/8.0	9.5/8.7	-
	Cooling		6.2	6.1	6.2	6.1	6.37	-	6.2	6.1	6.2	6.1	6.37	-	6.2	6.1	6.2	6.2	6.1	6.2	6.1	6.37	-
SEER	Cooling	W/W	4.1	4.0	4.1	4.0	4.21	-	4.1	4.0	4.1	4.0	4.21	-	4.1	4.0	4.1	4.1	4.0	4.1	4.0	4.21	-
	Heating (Average)		4.1	4.0	4.1	4.0	4.21	-	4.1	4.0	4.1	4.0	4.21	-	4.1	4.0	4.1	4.1	4.0	4.1	4.0	4.21	-
SCOP	Cooling	W/W	A++	A++	A++	A++	A++	-	A++	A++	A++	A++	-	A++	-								
	Heating (Average)		A+	A+	A+	A+	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	28.5/28.5	-	12.1/12.1	12.6/12.6	13.6/13.6	22.6/22.6	28.5/28.5	-	12.1/12.1	12.6/12.6	13.6/13.6	12.1/12.1	12.6/12.6	13.6/13.6	22.6/22.6	28.5/28.5	-
	Cooling		293	344	384	486	524	-	293	344	384	486	524	-	293	344	384	293	344	384	486	524	-
Annual Energy Consumption	Cooling	kWh/a	1.501	1.677	2.042	2.796	2.904	-	1.501	1.677	2.042	2.796	2.904	-	1.501	1.677	2.042	1.501	1.677	2.042	2.796	2.904	-
	Heating		1.501	1.677	2.042	2.796	2.904	-	1.501	1.677	2.042	2.796	2.904	-	1.501	1.677	2.042	1.501	1.677	2.042	2.796	2.904	-
Moisture Removal	Cooling	l/h	2.0	2.5	2.2	3.0	2.6	4.5	2.0	2.5	2.2	3.0	2.6	4.5	2.0	2.5	2.2	2.0	2.5	2.2	3.0	2.6	4.5
	Heating		2.0	2.5	2.2	3.0	2.6	4.5	2.0	2.5	2.2	3.0	2.6	4.5	2.0	2.5	2.2	2.0	2.5	2.2	3.0	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	38/36/33/31	42/37/34/31	41/36/32/29	45/40/35/32	44/40/37/32	45/41/39/34	38/36/33/31	42/37/34/31	41/36/32/29	38/36/33/31	42/37/34/31	41/36/32/29	45/40/35/32	44/40/37/32	45/41/39/34
	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	38/36/33/31	42/37/34/31	41/36/32/29	45/40/35/32	44/40/37/32	45/41/39/34	38/36/33/31	42/37/34/31	41/36/32/29	38/36/33/31	42/37/34/31	41/36/32/29	45/40/35/32	44/40/37/32	45/41/39/34
Sound Power Level	Outdoor (Cooling/Heating)	High	50/50	51/51	53/54	53/55	55/55	57/57	50/50	51/51	53/54	53/55	55/55	57/57	50/50	51/51	53/54	50/50	51/51	53/54	53/55	55/55	57/57
	Indoor (Cooling/Heating)		High	53/53	57/57	56/56	60/60	59/59	60/60	53/53	57/57	56/56	60/60	59/59	60/60	53/53	57/57	56/56	53/53	57/57	56/56	60/60	59/59
Airflow Rate	Indoor/Outdoor (Cooling)	High	840/2,160	900/2,240	1,230/2,700	1,400/3,750	1,850/4,450	1,850/4,450	840/2,160	900/2,240	1,230/2,700	1,400/3,750	1,850/4,450	1,850/4,450	840/2,160	900/2,240	1,230/2,700	840/2,160	900/2,240	1,230/2,700	1,400/3,750	1,850/4,450	1,850/4,450
	Indoor/Outdoor (Heating)		High	840/1,830	900/1,960	1,230/2,700	1,400/3,750	1,800/3,750	1,850/4,450	840/1,830	900/1,960	1,230/2,700	1,400/3,750	1,800/3,750	1,850/4,450	840/1,830	900/1,960	1,230/2,700	840/1,830	900/1,960	1,230/2,700	1,400/3,750	1,800/3,750
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 × 1,080 × 705	235 × 1,080 × 705	235 × 1,390 × 705	235 × 1,390 × 705	235 × 1,700 × 705	235 × 1,700 × 705	235 × 1,080 × 705	235 × 1,080 × 705	235 × 1,390 × 705	235 × 1,080 × 705	235 × 1,080 × 705	235 × 1,390 × 705	235 × 1,390 × 705	235 × 1,700 × 705	235 × 1,700 × 705
	Outdoor		632 × 799 × 290	632 × 799 × 290	716 × 820 × 315	788 × 940 × 320	788 × 940 × 320	998 × 940 × 320	632 × 799 × 290	632 × 799 × 290	716 × 820 × 315	788 × 940 × 320	788 × 940 × 320	998 × 940 × 320	632 × 799 × 290	632 × 799 × 290	716 × 820 × 315	632 × 799 × 290	632 × 799 × 290	716 × 820 × 315	788 × 940 × 320	788 × 940 × 320	998 × 940 × 320
Weight	Indoor	kg (lbs)	24 (53)	24 (53)	31 (68)	31 (68)	38 (84)	38 (84)	24 (53)	24 (53)	31 (68)	31 (68)	38 (84)	38 (84)	24 (53)	24 (53)	31 (68)	24 (53)	24 (53)	31 (68)	31 (68)	38 (84)	38 (84)
	Outdoor		36 (79)	38 (84)	42 (93)	52 (115)	52 (115)	67 (148)	36 (79)	38 (84)	42 (93)	52 (115)	52 (115)	67 (148)	36 (79)	38 (84)	42 (93)	36 (79)	38 (84)	42 (93)	52 (115)	52 (115)	67 (148)
Connection Pipe Diameter (Liquid/Gas)	Cooling	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	6.35/12.7	6.35/12.7	6.35/12.7	9.52/15.88	9.52/15.88	9.52/15.88	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	6.35/12.7	9.52/15.88	9.52/15.88	9.52/15.88
	Heating		25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32
Drain Hose Diameter (I.D./O.D.)	Cooling	mm	30 (20)	30 (20)	30 (20)	50 (30)	50 (30)	50 (30)	30 (20)	30 (20)	30 (20)	50 (30)	50 (30)	50 (30)	30 (20)	30 (20)	30 (20)	30 (20)	30 (20)	30 (20)	30 (20)	50 (30)	50 (30)
	Heating		30 (20)	30 (20)	30 (20)	50 (30)	50 (30)	50 (30)	30 (20)	30 (20)	30 (20)	50 (30)	50 (30)	50 (30)	30 (20)	30 (20)	30 (20)	30 (20)	30 (20)	30 (20)	30 (20)	50 (30)	50 (30)
Max. Height Difference	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	-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	-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)	R32 (675)	R32 (675)	R32 (675)	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)	1.02 (0.689)	1.25 (0.844)	1.25 (0.844)	1.90 (1.283)	1.90 (1.283)	2.70 (1.823)	1.02 (0.689)	1.25 (0.844)	1.25 (0.844)	1.02 (0.689)					



# 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
	Cooling		3.68	3.21	3.14	3.08	3.08	3.01
EER	Cooling	W/W	3.64	3.50	3.52	3.49	3.50	3.61
	Heating		2.5/2.3	3.5/2.8	4.3/3.2	5.2/3.8	6.0/4.4	6.8/5.4
Pdesign	Cooling/Heating (-10°C)	kW	6.2	6.1	6.1	6.1	6.1	5.9
	Cooling		4.0	4.0	4.0	3.9	3.9	3.8
SEER	Cooling	W/W	4.0	4.0	4.0	3.9	3.9	3.8
	Heating		A++	A++	A++	A++	A++	A+
Energy Efficiency Class	Cooling		A+	A+	A+	A	A	A
	Heating		6.9/6.9	7.7/7.7	9.2/9.2	10.1/10.1	11.6/11.6	12.6/12.6
Max. Operating Current	Cooling/Heating	A	141	201	247	298	344	403
	Cooling		804	979	1,120	1,362	1,578	1,988
Annual Energy Consumption	Cooling	kWh/a	0.6	1.2	1.5	2.2	2.6	2.7
	Heating		33/31/29/27	37/34/30/27	38/34/30/27	38/34/30/26	44/42/36/30	49/44/36/30
Moisture Removal	Indoor (Cooling)	l/h	34/32/29/27	37/34/31/29	43/38/34/30	43/38/34/30	45/43/40/33	49/45/40/33
	Indoor (Heating)		47/48	49/50	50/51	51/52	52/53	54/55
Sound Pressure Level	Indoor (Cooling/Heating)	dB(A)	46/47	49/49	50/55	50/55	56/57	59/61
	Outdoor (Cooling/Heating)		60/60	62/62	63/63	63/64	64/65	66/67
Sound Power Level	Indoor (Cooling/Heating)	High	540/1,610	600/1,630	680/1,670	680/1,710	830/2,240	930/2,885
	Outdoor (Cooling/Heating)		540/1,550	600/1,410	800/1,580	800/1,840	860/2,240	930/2,350
Airflow Rate	Indoor/Outdoor (Cooling)	m³/h	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570	245 × 570 × 570
	Indoor/Outdoor (Heating)		541 × 663 × 290	541 × 663 × 290	542 × 799 × 290	542 × 799 × 290	632 × 799 × 290	632 × 799 × 290
Net Dimensions	Indoor	mm	15 (33)	15 (33)	15 (33)	15 (33)	16 (35)	16 (35)
	Outdoor		23 (51)	25 (55)	32 (71)	33 (73)	36 (79)	38 (84)
H x W x D	Indoor	kg (lbs)	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.70	6.35/12.70	6.35/12.70
	Outdoor		25/32	25/32	25/32	25/32	25/32	25/32
Weight	Indoor	mm	15 (15)	15 (15)	20 (15)	20 (15)	25 (15)	25 (20)
	Outdoor		15	15	15	15	20	20
Connection Pipe Diameter (Liquid/Gas)	Indoor	m	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Outdoor		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Max. Pipe Length (Pre-Charge)	Cooling	°CDB	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Heating		0.6 (0.405)	0.7 (0.473)	0.85 (0.574)	0.9 (0.608)	1.1 (0.743)	1.25 (0.844)
Refrigerant	Type (Global Warming Potential)	kg (CO2eq-T)	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W
	Charge		49 × 620 × 620	49 × 620 × 620	49 × 620 × 620	49 × 620 × 620	49 × 620 × 620	49 × 620 × 620
Cassette Grille	Model name	mm	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)
	Dimensions (H × W × D)		2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)	2.3 (5)
Weight	Model name	kg (lbs)	UTG-UKYA-W: White wired remote controller (touch panel) UTG-UKYC-W: White/UTG-UKYA-B*: Black					
	Weight		53 × 950 × 950	53 × 950 × 950	53 × 950 × 950	53 × 950 × 950	53 × 950 × 950	53 × 950 × 950

## 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		
	Cooling		3.25	3.24	3.21	3.32	3.10	2.80	2.75	3.10	2.80	2.75		
EER	Cooling	W/W	3.61	3.63	3.81	3.79	4.19	3.58	3.19	4.19	3.58	3.19		
	Heating		5.2/3.8	6.0/4.4	6.8/5.4	8.5/8.0	9.5/8.7	-	-	9.5/8.7	-	-		
Pdesign	Cooling/Heating (-10°C)	kW	6.2	6.2	6.1	6.1	6.1	-	-	6.1	-	-		
	Cooling		4.1	4.1	4.0	4.0	4.0	-	-	4.0	-	-		
SEER	Cooling	W/W	A+	A+	A+	A+	A+	-	-	A+	-	-		
	Heating		A+	A+	A+	A+	A+	-	-	A+	-	-		
Energy Efficiency Class	Cooling		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		
	Heating		293	338	390	488	545	-	-	545	-	-		
Max. Operating Current	Cooling	A	1,297	1,502	1,887	2,794	3,044	-	-	3,044	-	-		
	Heating		1.5	2.2	2.7	2.5	3.3	4.5	5.0	3.3	4.5	5.0		
Annual Energy Consumption	Cooling	kWh/a	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		
	Heating		51/52	52/53	54/55	53/55	55/55	58/59	58/61	55/55	60/60	61/61		
Moisture Removal	Indoor (Cooling)	l/h	47/47	49/49	49/49	54/54	58/58	60/60	61/61	58/58	-	-		
	Indoor (Heating)		63/64	64/65	66/67	68/69	70/70	72/73	74/75	70/70	72/73	74/75		
Sound Pressure Level	Indoor (Cooling/Heating)	dB(A)	1,050/1,710	1,050/2,240	1,150/2,885	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		
	Outdoor (Cooling/Heating)		1,050/1,840	1,050/2,240	1,150/2,350	1,600/3,750	1,870/3,750	2,000/4,450	2,100/4,780	1,870/3,750	2,000/4,450	2,100/4,780		
Sound Power Level	Indoor/Outdoor (Cooling)	High	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		
	Indoor/Outdoor (Heating)		542 × 799 × 290	632 × 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		
Net Dimensions	Indoor	mm	23 (51)	23 (51)	24 (53)	26 (57)	29 (64)	29 (64)	29 (64)	29 (64)	29 (64)	29 (64)		
	Outdoor		33 (73)	36 (79)	38 (84)	52 (115)	52 (115)	61 (134)	63 (139)	53 (117)	62 (137)	63 (139)		
H x W x D	Indoor	kg (lbs)	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		
	Outdoor		20 (15)	25 (15)	25 (20)	30 (30)	30 (30)	30 (30)	30 (30)	30 (30)	30 (30)	30 (30)		
Weight	Indoor	m	15	20	20	30	30	30	30	30	30	30		
	Outdoor		-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		
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	-15 to 24		
	Heating		R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)		
Refrigerant	Type (Global Warming Potential)	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)		
	Charge		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		
Cassette Grille	Model name	mm	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)			
	Dimensions (H × W × D)		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)		
Weight	Model name	kg (lbs)	UTG-UKYA-W: White wired remote controller (touch panel) UTG-UKYC-W: White/UTG-UKYA-B*: Black											
	Weight		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		

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	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)			
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+	-	
	Heating	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	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	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
	Indoor/Outdoor (Heating)	High	1,100/2,240	1,100/2,350	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 - 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				
	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)	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	ABYG36KRTA	ABYG45KRTA
	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+	-	
	Heating	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
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			15	20	20	30	30	30	30	30
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)	0.9 (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)

# Feature Summary

Type	Wall-mounted type				Wall-mounted type			
Series	Flagship Series	Designer Series		Standard Series	ECO Series			
Model name	ASYG12KXCA	ASYG07/09/12/14KGTE	ASYG07/09/12/14KETE, ASYG07/09/12/14KETE-B	ASYG07/09/12/14KMCE	ASYG18/24KMTE	ASYH30/36KMTB	ASYG07/09/12KPCE	ASYG18/24KLCA
Energy-Saving Features	Dual-fan	●						
	Save Human sensor	●	●			●		
	Save & Stop Human sensor							
	Economy mode	●	●	●	●	●	●	●
	Setting temperature range limitation		○	○	○	○	○	
	Set temperature auto return		○	○	○	○	○	
Features for Comfort	Powerful heating							
	Power diffuser	●						
	Powerful mode	●	●	●	●	●	●	●
	10°C Heat	●	●	●	●	●		
	Low noise mode	●	●	●	●	●		
	Auto changeover	●	●	●	●	●	●	●
	UP/DOWN swing louver		●	●	●		●	●
	Double swing automatic	●				●	●	
	Automatic fan speed	●	●	●	●	●	●	●
	Auto restart	●	●	●	●	●	●	●
	Connectable fresh air duct							
	Fresh air intake							
	Connectable distributing duct							
	Individual airflow direction control							
Convenience Features	Auto-off timer		○	○	○	○		
	Sleep timer	●	●	●	●	●	●	●
	Program timer	●	●	●	●	●	●	●
	Weekly timer		●	●	○	●	●	
	Weekly & Temperature setback timer		○	○	○	○		
	Filter sign		●	●	●	●	●	●
	External error output		○	○	○	○	○	
	External ON/OFF input		○	○	○	○	○	
	Wireless LAN control	●	○	○	○	○	○	○
	Multi system control						○	
Clean Features	Special cooling					●		
	Plasma air clean	●						
	Filter auto clean	●						
	Ion deodorization filter		●	●	○	●	●	
	Apple-catechin filter		●	●	○	●	●	
	Long-life filter							
Installation / Support	Washable panel		●	●	●		●	●
	Silver Ion Filter		○	○	○	○	○	○
	Automatic airflow adjustment							
	Drain pump as standard							
Blue fin						●		
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.

○: Optional function

# Feature Summary

Type	Cassette		Duct		Duct			Floor	Ceiling	
Series	Compact 4-way Flow Series	Circular Flow Series	Slim (With drain pump)	Medium Static Pressure (Compact & Comfort)	Medium Static Pressure (Standard)	High Static Pressure		Big		
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	ARXG22KMLB ARXG24/30/36/45KMLA	ARXG45/54KHTB	ARYG60LHTA	ARYG72/90LHTA	AGYG09/12/14KVCA	ABYG 18/22/24/30/36/45/54 KRTA
Energy-Saving Features	Dual-fan									
	Save human sensor									
	Save & Stop human sensor		○							
	Economy mode	●	●	●	●	●	●	●	●	●
	Setting temperature range limitation	○	●	○	●	○	○	○	●	●
	Set temperature auto return	●	●	●	●	●	○	○	●	●
Features for Comfort	Powerful heating									
	Power diffuser									
	Powerful mode								●	
	10°C Heat	●	○	○	○	○	○	○	●	○
	Low noise mode		○ (45/54)		○ (45/54)	○ (45) (36/LMLA)		○	●	○
	Auto changeover	●	●	●	●	●	●	●	●	●
	UP/DOWN swing louver	●	●	○					●	●
	Double swing automatic									
	Automatic fan speed	●	●	●	●	●	●	●	●	●
	Auto restart	●	●	●	●	●	●	●	●	●
	Connectable fresh air duct		●		●	●				●
	Fresh air intake	○	○	○	○	○	○	○		○
	Connectable distributing duct		●			●				
Individual airflow direction control		●								
Convenience Features	Auto-off timer	●	●	●	●	●	○	●	○	●
	Sleep timer	●	○	○	○	○	○	○	●	○
	Program timer	●	○	○	○	○	○	○	●	○
	Weekly timer	●	●	●	●	●	●	●	●	●
	Weekly & Temperature setback timer	○		●	●	●	●	●		
	Filter sign	●	●	●	●	●	●	●	●	●
	External error output		○		○		○	○	○	○
	External ON/OFF input	●	●	●	●	●	○	●	○	●
	Wireless LAN control	○	○	○	○	○	○	○	○	○
	Multi system control									
Clean Features	Special cooling									
	Plasma air clean									
	Filter auto clean									
	Ion deodorization filter								●	
	Apple-catechin filter								●	
	Long-life filter				○	○	○	○	○	○
Installation / Support	Washable panel									
	Silver Ion Filter	○	○	○	○	○	○	○	○	○
	Automatic airflow adjustment				●			●		
	Drain pump as standard	●	●	●	●	○		○		○
Blue fin		● (30/36/45/54)		● (30/36/45/54)	● (45)	●	●	●	● (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.

○: Optional function



## Light Commercial & Residential MULTI-SPLIT

- M-002 Multi-split Overview
- M-004 Multi-split Outdoor Units Lineup
- M-006 2-unit to 8-unit Multi-split Connectable Indoor Units
- M-010 Simultaneous Multi-split Connectable Indoor Units
- M-048 Feature Summary



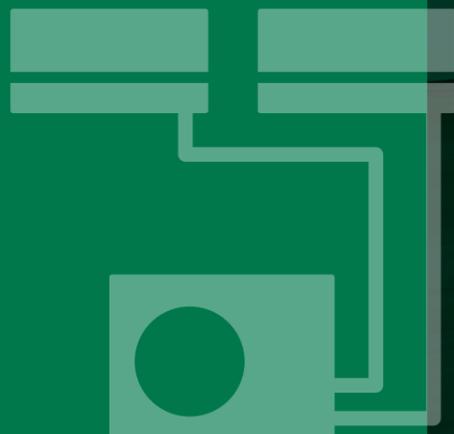
### Refrigerant type R32 models

- M-012 2-unit to 5-unit Multi-split
- M-018 Simultaneous Multi-split Twin/Triple
- 
- M-022 2-unit to 5-unit Multi-split Indoor Units Specifications
- 
- M-026 2-unit to 5-unit Multi-split Combination Table



### Refrigerant type R410A models

- 6-unit to 8-unit Multi-split**
- M-014 6-unit Multi-split
- M-016 8-unit Multi-split
- Simultaneous Multi-split Type**
- M-020 Simultaneous Multi-split Twin/Triple/Double Twin
- 
- M-024 6-unit to 8-unit Multi-split Indoor Units Specifications
- 
- M-036 6-unit to 8-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 8-unit Multi-split

Recommended for residences, offices, and other situations where multiple rooms require air conditioning. Each of the 2 to 8 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, 8-unit Multi-split



6-unit 45 class



8-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



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

		Class	14	18	18	24	30	36	45		54	72	90
		Cooling rated capacity (kW)	4.0	5.0	5.4	6.8	8.0	10.0	12.5	14.0	14.0	19.0	22.0
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				AOYG18KBTA3	AOYG24KBTA3							
	4-unit Multi-split Up to 4 units						AOYG30KBTA4						
	5-unit Multi-split Up to 5 units							AOYG36KBTA5*1					
6-unit Multi-split	6-unit Multi-split Up to 6 units								AOYG45LBLA6*				
8-unit Multi-split Up to 8 units											AOYG45LBT8*		
Simultaneous Multi-split	Twin Single-phase							AOYG36KBTB	AOYG45KBTB				
	Twin 3-phase							AOYG36KRTA	AOYG45KRTA				
	Twin/Triple Single-phase										AOYG54KBTB		
	Twin/Triple 3-phase										AOYG54KRTA		
	Twin/Triple/Double Twin 3-phase											AOYG72LRLA	AOYG90LRLA

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.

**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.  
**6. 8-unit Multi-split:** Connectable indoor units are 2 to 8 units.  
AOYG45LBT8: Total capacity of indoor units connected must be between 11.0 kW and 18.0 kW.

Cooling rated capacity: \*1: 9.5 kW

# 2-unit to 8-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						
 ASYG07/09/12/14KGTE	7,000	2.0	●	●	●	●	●	●
 ASYG07/09/12/14KETE	9,000	2.5	●	●	●	●	●	●
 ASYG07/09/12/14KMCE	12,000	3.5	●	●	●	●	●	●
 ASYG07/09/12/14KETE-B	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	—	—	—	●	●	●
 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	—	—	—	—	●	●



Type	6-unit	8-unit	
Model name	AOYG45LBA6	AOYG45LBT8	
Multi-split Type Outdoor Unit			
Capacity (kW)	Cooling	12.5	14.0
	Heating	13.5	16.0

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	●	●
	18,000	5.0	●	●
 ABYG14LVTA ABYG18LVTB	14,000	4.0	●	●
	18,000	5.0	●	●
 ARYG07/09/12/14/18LSLAP	7,000	2.0	●	—
	9,000	2.5	●	—
	12,000	3.5	●	—
	14,000	4.0	●	—
	18,000	5.0	●	—
 ARYG07/09/12/14/18LL	7,000	2.0	●	●
	9,000	2.5	●	●
	12,000	3.5	●	●
	14,000	4.0	●	●
	18,000	5.0	●	●

# 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
			● × 2	● × 2	● × 2	● × 3
 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
	22,000	6.5	-	● × 2	-	-
	24,000	7.0	-	-	● × 2	-
 ARXG22KMLB ARXG24KMLA	22,000	6.5	-	● × 2	-	-
	24,000	7.0	-	-	● × 2	-
	Separation tube			UTP-SX236A (18/22/24)		



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

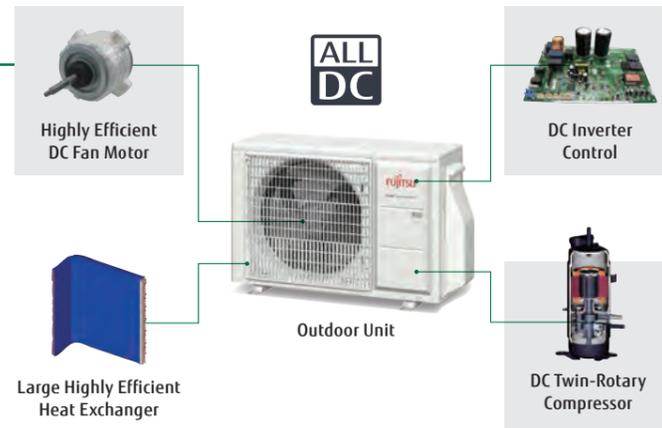
Indoor Unit	BTU	kW Class	Twin	Triple	Double Twin	Twin	Triple	Double Twin
			● × 2	● × 3	● × 4	● × 2	● × 3	● × 4
 AUYG18/22/24LV	18,000	5.0	-	-	● × 4	-	-	-
	22,000	6.5	-	-	-	-	-	● × 4
	24,000	7.0	-	● × 3	-	-	-	-
 AUYG30/36/45LR	30,000	8.8	-	-	-	-	● × 3	-
	36,000	10.6	● × 2	-	-	-	-	-
	45,000	12.5	-	-	-	● × 2	-	-
 ARYG18LLTB	18,000	5.0	-	-	● × 4	-	-	-
	22,000	6.5	-	-	-	-	-	● × 4
	24,000	7.0	-	● × 3	-	-	-	-
 ARYG22/24/ 30/36/45LM	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
 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	-	-

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.



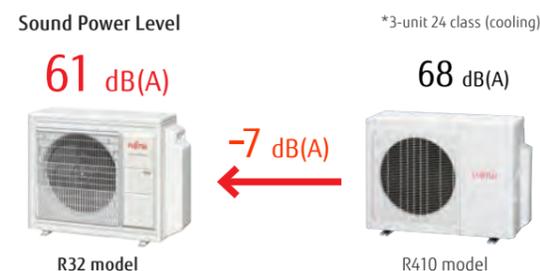
### R32 refrigerant model

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.



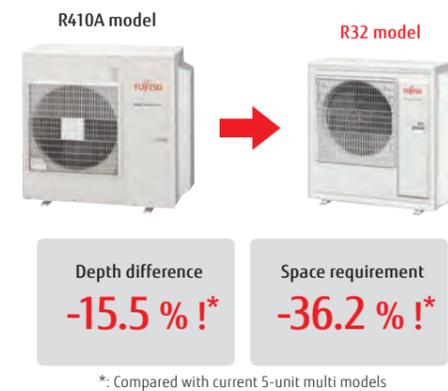
### Space-saving installation

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

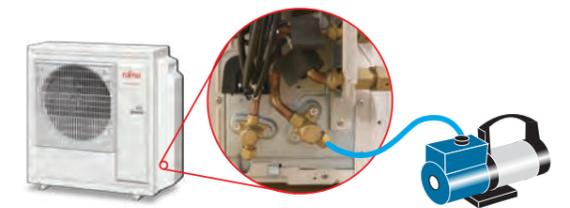
Unlike a single type, the outdoor unit can be installed in the most space-saving location.



\*: 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



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



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	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	4.12		4.03	
	Heating	4.63		4.59	
COP	Cooling	4.7		4.7	
	Heating	4.9		5.0	
Sound Pressure Level (High)	Cooling	60		60	
	Heating	62		62	
Sound Power Level (High)	Cooling	1,670/1,670		1,960/2,020	
	Heating	542 × 799 × 290		632 × 799 × 290	
Net Dimensions H × W × D		mm		mm	
Weight		kg (lbs)		kg (lbs)	
Connection Pipe Diameter		mm		mm	
Max. Pipe Length	Liquid	33 (73)		37 (82)	
	Gas	6.35 × 2		6.35 × 2	
Max. Height Difference	Total/Each	30/20		30/20	
	Between Outdoor Unit and Each Indoor Unit	15		15	
Operating Range	Between Indoor Units	10		10	
	Cooling	-10 to 46		-10 to 46	
Refrigerant	Heating	-15 to 24		-15 to 24	
	Type (Global Warming Potential)	R32 (675)		R32 (675)	
Charge		kg (CO2eq-T)		kg (CO2eq-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	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	4.78		3.90	
	Heating	4.89		4.40	
COP	Cooling	4.6		4.8	
	Heating	4.9		5.3	
Sound Pressure Level (High)	Cooling	59		61	
	Heating	61		67	
Sound Power Level (High)	Cooling	2,220/2,160		2,270/2,730	
	Heating	716 × 820 × 315		716 × 820 × 315	
Net Dimensions H × W × D		mm		mm	
Weight		kg (lbs)		kg (lbs)	
Connection Pipe Diameter		mm		mm	
Max. Pipe Length	Liquid	46 (102)		46 (102)	
	Gas	6.35 × 3		6.35 × 3	
Max. Height Difference	Total/Each	50/25		50/25	
	Between Outdoor Unit and Each Indoor Unit	15		15	
Operating Range	Between Indoor Units	10		10	
	Cooling	-10 to 46		-10 to 46	
Refrigerant	Heating	-15 to 24		-15 to 24	
	Type (Global Warming Potential)	R32 (675)		R32 (675)	
Charge		kg (CO2eq-T)		kg (CO2eq-T)	
		1.8 (1.215)		1.8 (1.215)	

Specifications (4-unit, 5-unit)

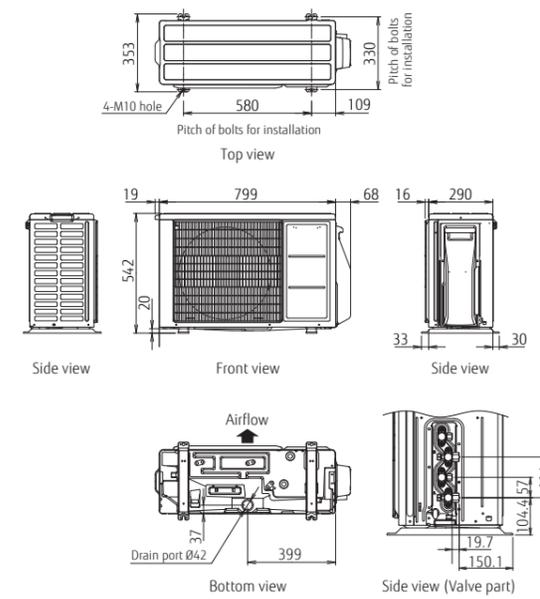
Model name		AOYG30KBTA4		AOYG36KBTA5	
Power Source		Single phase, ~230 V, 50 Hz			
Rated Capacity (Min. - Max.)	Cooling	8.0 (2.4-10.1)		9.5 (3.0-11.0)	
	Heating	9.6 (3.0-11.2)		10.6 (3.5-12.0)	
EER	Cooling	3.90		3.80	
	Heating	4.55		4.50	
COP	Cooling	5.0		5.2	
	Heating	5.4		5.5	
Sound Pressure Level (High)	Cooling	63		65	
	Heating	66		68	
Sound Power Level (High)	Cooling	2,400/2,950		2,450/2,900	
	Heating	884 × 820 × 315		884 × 820 × 315	
Net Dimensions H × W × D		mm		mm	
Weight		kg (lbs)		kg (lbs)	
Connection Pipe Diameter		mm		mm	
Max. Pipe Length*	Liquid	55 (121)		59 (130)	
	Gas	6.35 × 4		6.35 × 5	
Max. Height Difference	Total/Each	9.52 × 2, 12.70 × 2 adapter [12.70 → 9.52] × 2		9.52 × 3, 12.70 × 2 adapter [12.70 → 9.52] × 2	
	Between Outdoor Unit and Each Indoor Unit	70/25		75/25	
Operating Range	Between Indoor Units	15		15	
	Cooling	10		10	
Refrigerant	Heating	-10 to 46		-10 to 46	
	Type (Global Warming Potential)	-15 to 24		-15 to 24	
Charge		kg (CO2eq-T)		kg (CO2eq-T)	
		2.2 (1.485)		2.5 (1.688)	

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

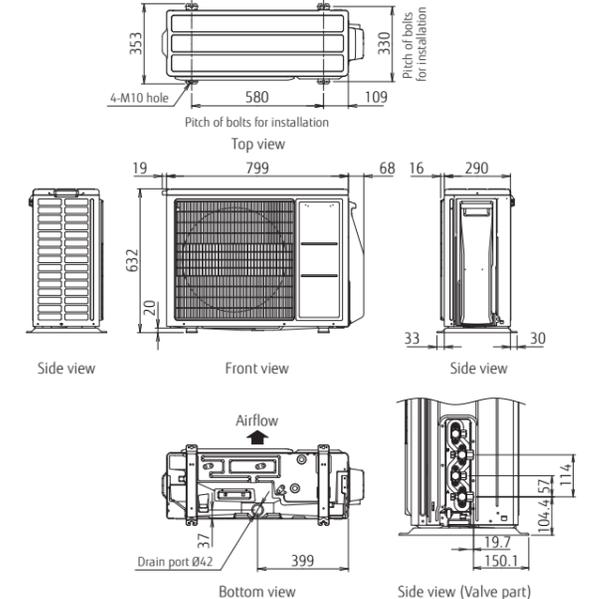
Dimensions

(Unit: mm)

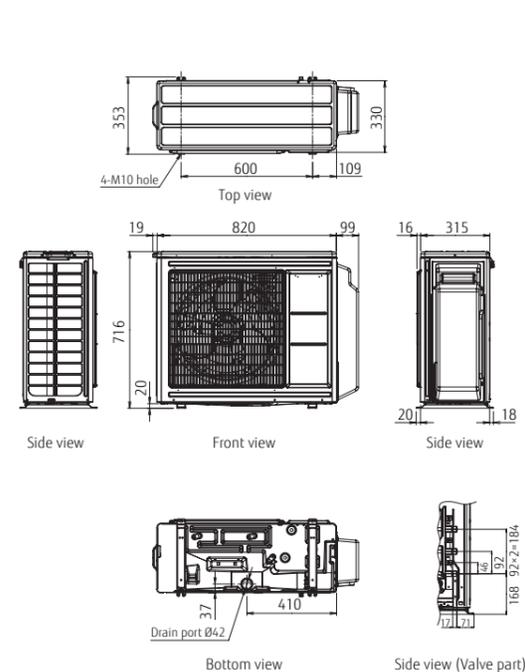
2-unit: AOYG14KBTA2



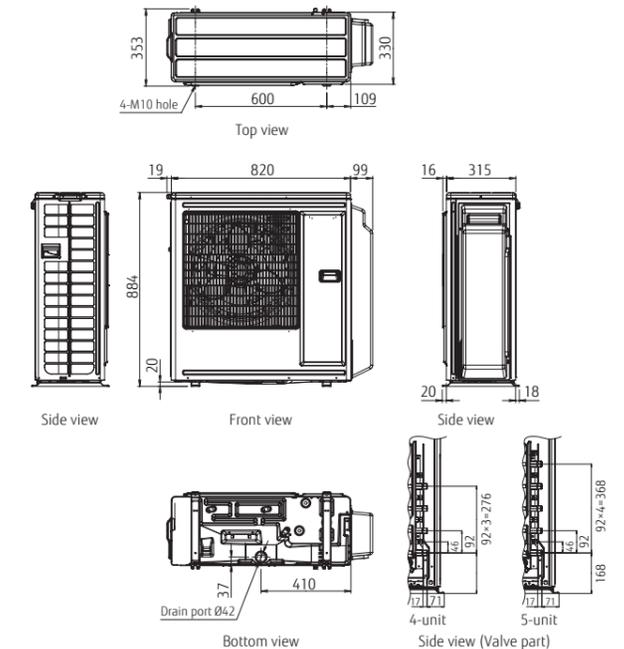
2-unit: AOYG18KBTA2



3-unit: AOYG18KBTA3/AOYG24KBTA3



4-unit: AOYG30KBTA4  
5-unit: AOYG36KBTA5



# 6-unit Multi-split



6-unit: AOYG45LBLA6

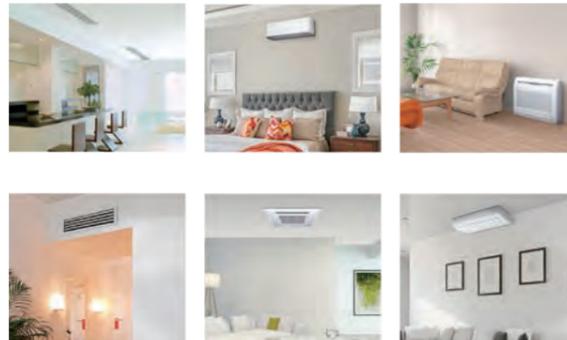


### Specifications (5-unit, 6-unit)

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
	Heating		4.00
Sound Pressure Level (High)	Cooling	dB(A)	53
	Heating		55
Sound Power Level (High)	Cooling	-	-
	Heating		-
Airflow Rate	Cooling/Heating	m <sup>3</sup> /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		m
Operating Range	Between Outdoor Unit and Each Indoor Unit.		10
	Between Indoor Units.		-
Refrigerant	Type (Global Warming Potential)		R410A (2,088)
	Charge	kg (CO <sub>2</sub> eq-T)	4.00 (8.352)

### 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.



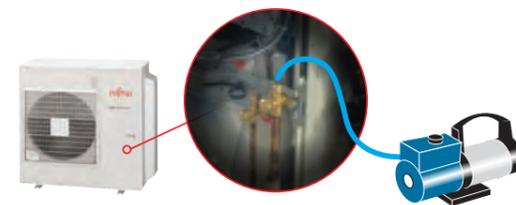
### Compact design

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

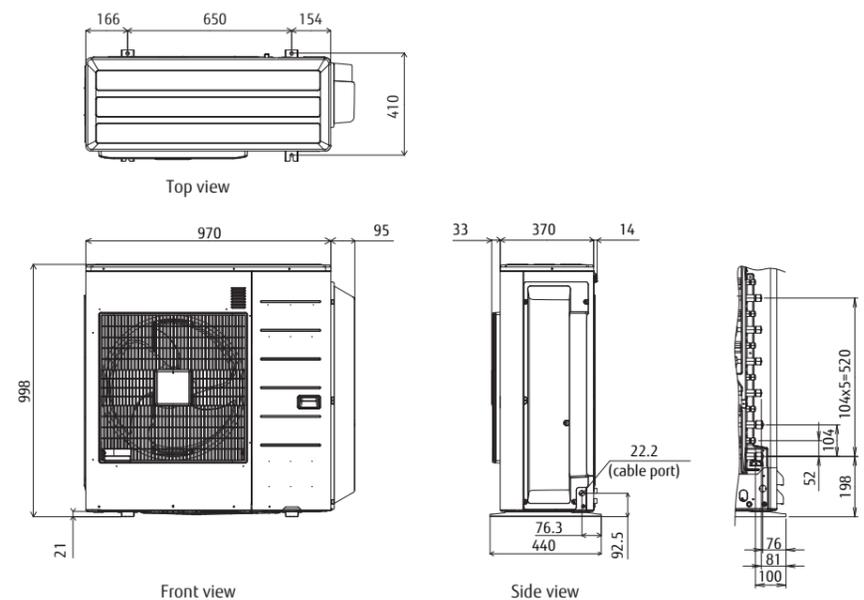
- Batched control of up to 8 indoor units. Unified setting of room temperature, airflow volume, and local control restrictions across units.
- Language can be selected from English, French, German, Greek, Italian, Portuguese, Russian, Spanish, or Turkish.
- Large backlit LED screen
- Large easy-to-see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

Max. Controllable  
**1 multi-system**  
Max. Controllable  
**8 indoor units**



### Dimensions

(Unit: mm)



# 8-unit Multi-split

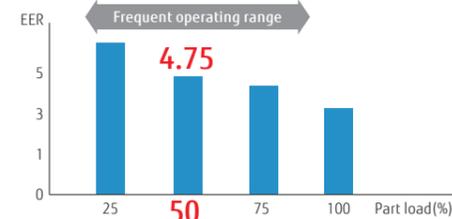


## Compact outdoor unit

The compact design outdoor unit can be installed below a window or in a narrow space.

## High seasonal energy efficiency

An air conditioner operates under a wide range of outdoor temperatures depending on the season and climate conditions. Moreover, a multi-split system does not have to cool or warm every room in a house or building all the time. This means that an air conditioner operates at partial capacity, instead of rated capacity, for more than 90% of its operation time. Therefore, we pay attention to the energy-saving performance of our air conditioners based on real-world usage. The use of our all DC design and proprietary inverter system significantly improves the energy efficiency of our air conditioners operating in partial-load efficiency.



## Innovated technology

**High-efficiency large fan:** Incorporates high-efficiency fan.

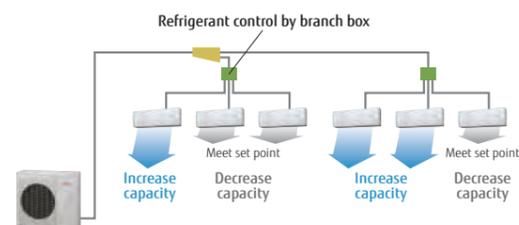
**DC fan motor:** The use of a small DC motor achieves both high performance and high efficiency.

**Heat exchanger:** The use of high-density piping and the 3-row design achieves a compact and energy-efficient heat exchanger.

**High-efficiency DC twin-rotary compressor:** A high-performance, low noise, large-capacity DC twin-rotary compressor is used.

## Optimized refrigerant control for faster air conditioning

Optimized refrigerant control allows for faster cooling of every room in a house or building to the desired temperature.



## 8-unit: AOYG45LBT8

### Branch Box: UTP-PY03A/UTP-PY02A



### Specifications (Outdoor unit/Branch box)

Outdoor Unit Model Name		AOYG45LBT8	
Maximum Connectable Indoor Unit		8	
Connectable capacity range of indoor units		Cooling	11.2 - 18.2 kW
Power source		Single phase, ~230 V, 50 Hz	
Rated Capacity	Cooling	kW	14.0
	Heating	kW	16.0
Input Power	Cooling	kW	5.20
	Heating	kW	5.07
Airflow rate	Cooling	m <sup>3</sup> /h	4,650
	Heating	m <sup>3</sup> /h	4,800
Sound Pressure Level	Cooling	dB(A)	56
	Heating	dB(A)	58
Heat Exchanger Fin		Plate fin coil	
Net Dimensions H × W × D		mm	914 × 970 × 370
Weight		kg (lbs)	98 (216)
Connection Pipe Diameter (Liquid/Gas)		mm	9.52/15.88
Max. Pipe Length		m	115 (Total)
Max. Height Difference (O.U ~ I.U)		m	30
Operating Range	Cooling	°CDB	-5 to 46
	Heating	°CDB	-15 to 24
Refrigerant	Type (Global Warming Potential)	R410A (2,088)	
	Charge	kg (CO2eq-T)	3.45 (7.204)

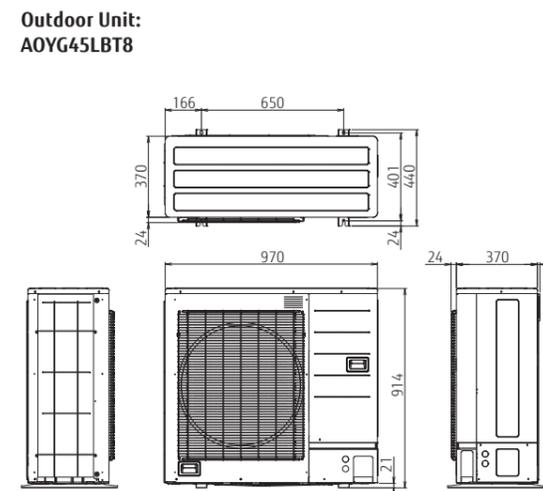
Branch Box Model Name		UTP-PY03A	UTP-PY02A
Connectable Indoor Unit		1 to 3 Units	1 to 2 Units
Power source		Single phase, ~230 V, 50 Hz	
Available Voltage Range		198-264 V	198-264 V
Power Consumption		W	10
Running Current		A	0.05
Net Dimensions H × W × D		mm	195 × 433 × 370
Weight		kg (lbs)	9 (20)
Connection pipe diameter	Liquid	Main: 9.52 × 1, Branch: 6.35 × 3	
	Gas	Main: 15.88 × 1, Branch: 12.70 × 3	
	Method	Flare	

Notes: Specifications are determined based on the following conditions:

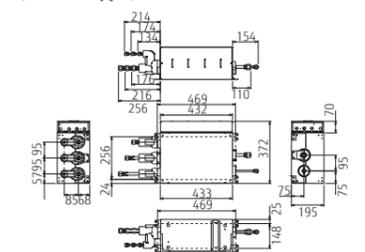
- Two indoor units (7-kW class each) are connected.
- Measured in the manufacturer's anechoic chamber.
- Cooling: Indoor temp. of 27°CDB/19°CWB, outdoor temp. of 35°CDB/24°CWB Heating: Indoor temp. of 20°CDB/15°CWB, outdoor temp. of 7°CDB/6°CWB
- Pipe length: 5 m (Outdoor unit - Branch box), 3 m (Branch box - Indoor unit) Height difference: 0 m

## Dimensions

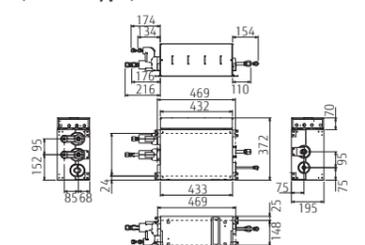
(Unit: mm)



## Branch Box: UTP-PY03A (3-zone type)



## Branch Box: UTP-PY02A (2-zone type)



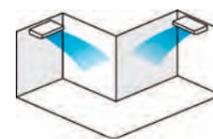
# Simultaneous Multi-split Type Twin/Triple



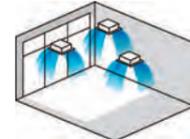
## Meets a variety of installation needs from offices to commercial spaces, with up to 3 indoor units in the same room connected to an outdoor unit.

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



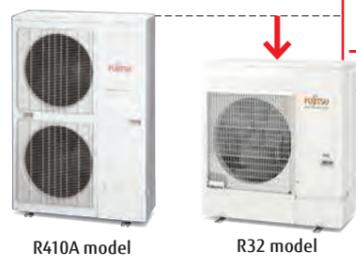
Installation according to lighting conditions



## Design flexibility

### Slim & Compact Design

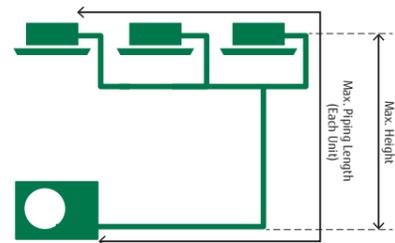
The outdoor unit in this series is 22.7% shorter\* than a twin-fan outdoor unit. The reduced height makes it easy to install in tight spaces.



Height -22.7%\*  
(\*: Applicable to the 45,000- and 54,000-BTU models)

## 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-storey 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.



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



## 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 <sup>3</sup> /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		
Weight				kg (lbs)		
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 <sup>3</sup> /h	940/880/820/750	1,100/910/750/580	1,100/910/750/580
	Heating	H/M/L/Q		1,100/880/820/750	1,100/910/750/580	1,100/910/750/580
Net Dimensions H × W × D				mm		
Weight				kg (lbs)		

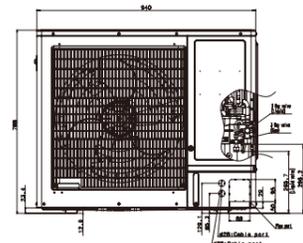
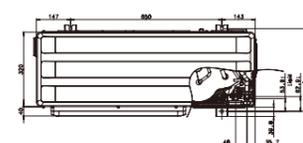
Outdoor Units Model name			AOYG36KBTB	AOYG45KBTB	AOYG54KBTB	AOYG36KRTA	AOYG45KRTA	AOYG54KRTA	
			Capacity	Cooling	kW	9.5	12.1	13.4	9.5
		Heating	10.8	13.5	15.5	10.8	13.5	15.5	
Power Source			Single phase, ~230 V, 50 Hz			3-phase, ~400 V, 50 Hz			
Pdesign		Cooling	9.5	-	-	9.5	-	-	
		Heating (-10°C)	8.7	-	-	8.7	-	-	
SEER		Cooling	6.10	-	-	6.10	-	-	
SCOP		Heating	4.00	-	-	4.00	-	-	
Annual Energy Consumption		Cooling	545	-	-	545	-	-	
		Heating	3,044	-	-	3,044	-	-	
Energy Efficiency Class		Cooling	A++	-	-	A++	-	-	
		Heating	A+	-	-	A+	-	-	
Sound Pressure Level (High)		Cooling	55	57	57	55	57	57	
		Heating	55	57	59	55	57	59	
		Heating	70	71	73	70	71	73	
Sound Power Level (High)		Cooling	70	71	73	70	71	73	
		Heating	70	71	73	70	71	73	
		Heating	70	71	73	70	71	73	
Airflow Rate		Cooling/Heating	m <sup>3</sup> /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	788 × 940 × 320	998 × 940 × 320	998 × 940 × 320	788 × 940 × 320	998 × 940 × 320	998 × 940 × 320
Weight			kg (lbs)	52 (115)	67 (148)	67 (148)	53 (117)	67 (148)	67 (148)
Connection Pipe Diameter (Liquid/Gas)			mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Max. Pipe Length (Pre-Charge)			m	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)	50 (30)
Max. Height Difference				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
		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)
		Charge	kg (CO <sub>2</sub> eq-T)	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-SX236A (Twin)	UTP-SX236A (Twin)	UTP-SX236A (Twin)

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

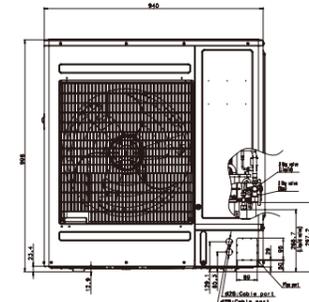
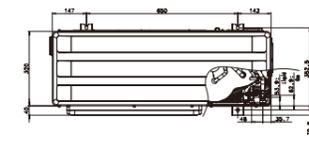
## Dimensions

(Unit: mm)

### AOYG36KBTB/AOYG36KRTA



### AOYG45KBTB/AOYG54KBTB AOYG45KRTA/AOYG54KRTA

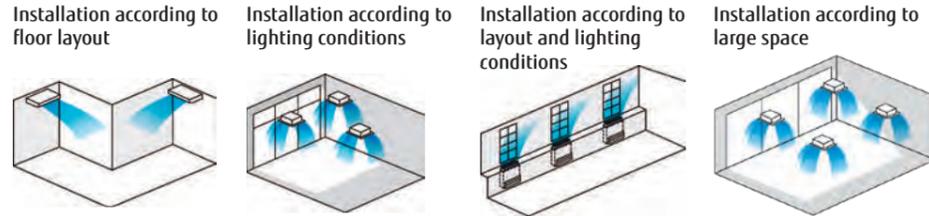


# Simultaneous Multi-split Type Twin/Triple/Double Twin



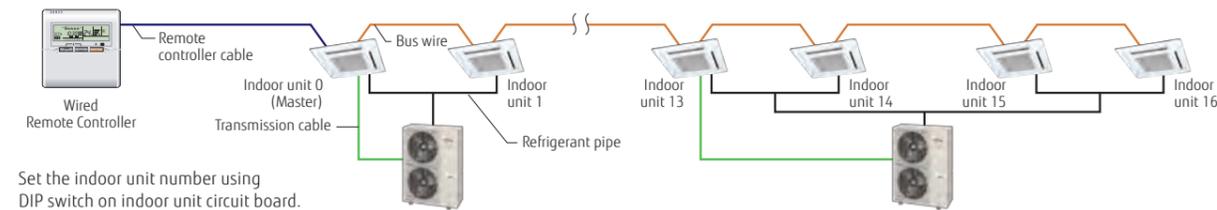
Meets a variety of installation needs from an open-plan office to a retail store, with up to 4 indoor units connected to an outdoor unit.

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.



## Simultaneous control

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

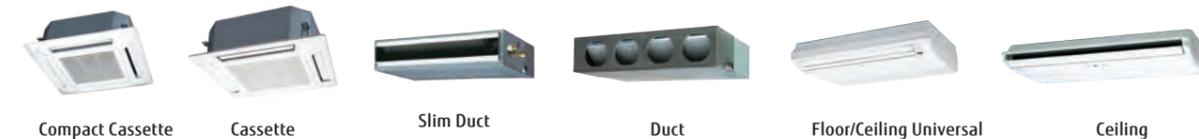


Set the indoor unit number using DIP switch on indoor unit circuit board.

\*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.



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 <sup>3</sup> /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	m <sup>3</sup> /h	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								
	ARYG18LTLB	ARYG22LMLA	ARYG24LMLA	ARYG30LMLE	ARYG36LMLE	ARYG45LMLA			
Power Source	Single phase, ~230 V, 50 Hz								
Airflow Rate	Cooling	H/M/L/Q	m <sup>3</sup> /h	940/880/820/750	1,100/910/750/580	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	m <sup>3</sup> /h	940/880/820/750	1,100/910/750/580	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	270 × 1135 × 700
Weight	kg (lbs)			23 (51)	38 (84)	38 (84)	40 (88)	40 (88)	40 (88)

Indoor Units Model name	Floor/Ceiling, Ceiling								
	ABYG18LVTB	ABYG22LVTA	ABYG24LVTA	ABYG30LRTE	ABYG36LRTE	ABYG45LRTA			
Power Source	Single phase, ~230 V, 50 Hz								
Airflow Rate	Cooling	H/M/L/Q	m <sup>3</sup> /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	m <sup>3</sup> /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
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)

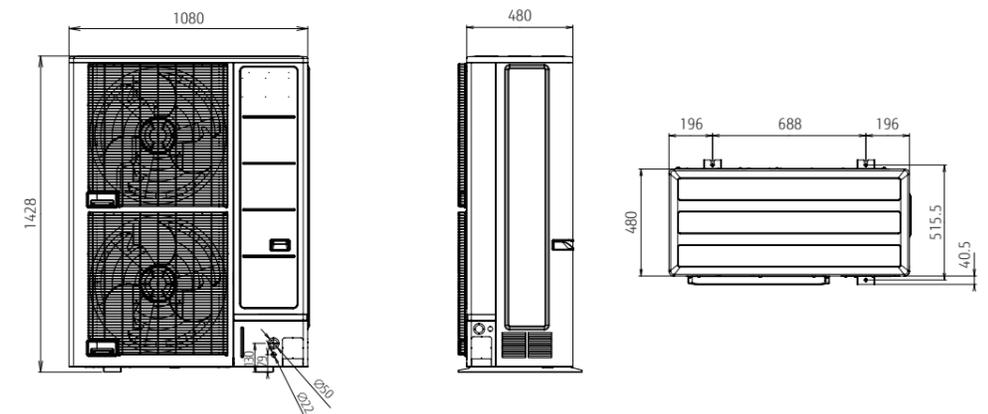
Outdoor Units Model name	AOYG72LRLA		AOYG90LRLA	
	Capacity	kW	Capacity	kW
Capacity	Cooling	19.0	Cooling	22.0
	Heating	22.4	Heating	27.0
Power Source	3-phase, ~400 V, 50 Hz			
Sound Pressure Level (High)	Cooling/Heating	55/55		55/57
Airflow Rate	Cooling/Heating	8,400/8,400		8,400/9,000
Net Dimensions H × W × D	mm			1,428 × 1,080 × 480
Weight	kg (lbs)			172 (379)
Connection Pipe Diameter (Liquid/Gas)	mm			12.7/25.4
Max. Pipe Length (Pre-Charge)	m			100 (30)
Max. Height Difference	m			30
Operating Range	Cooling	°CDB		-15 to 46
	Heating	°CDB		-20 to 24
Refrigerant	Type (Global Warming Potential)	R410A (2,088)		R410A (2,088)
	Charge	kg (CO2eq-T)		5.6 (11.693)
Separation tube	UTP-SX272A × 1 (Twin)		UTP-SX372A × 1 (Triple)	
	UTP-SX272A × 1 UTP-236A × 2 (Double Twin)		UTP-SX272A × 1 (Twin) UTP-SX372A × 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

Model name	Indoor unit		ASYG07KGTE	ASYG09KGTE	ASYG12KGTE	ASYG14KGTE
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	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
Sound Power Level	Cooling	H	54	55	56	57
			Heating	56	57	58
Airflow Rate	Cooling	H/M/L/Q	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
Net Dimensions			mm 270 × 834 × 215	mm 270 × 834 × 215	mm 270 × 834 × 215	mm 270 × 834 × 215
Weight			kg (lbs) 10 (22)	kg (lbs) 10 (22)	kg (lbs) 10 (22)	kg (lbs) 10 (22)
Connection Pipe Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52



## Wall-mounted type

Model name	Indoor unit		ASYG07KETE ASYG07KETE-B	ASYG09KETE ASYG09KETE-B	ASYG12KETE ASYG12KETE-B	ASYG14KETE ASYG14KETE-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	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
Sound Power Level	Cooling	H	54	55	55	57
			Heating	56	57	58
Airflow Rate	Cooling	H/M/L/Q	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
Net Dimensions			mm 295 × 950 (wall side: 840) × 230	mm 295 × 950 (wall side: 840) × 230	mm 295 × 950 (wall side: 840) × 230	mm 295 × 950 (wall side: 840) × 230
Weight			kg (lbs) 11(24)	kg (lbs) 11 (24)	kg (lbs) 11 (24)	kg (lbs) 11.5 (25)
Connection Pipe Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52



## Wall-mounted type

Model name	Indoor unit		ASYG07KMCE	ASYG09KMCE	ASYG12KMCE	ASYG14KMCE
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	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
Sound Power Level	Cooling	H	54	55	55	57
			Heating	56	57	58
Airflow Rate	Cooling	H/M/L/Q	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
Net Dimensions			mm 270 × 834 × 222	mm 270 × 834 × 222	mm 270 × 834 × 222	mm 270 × 834 × 222
Weight			kg (lbs) 10 (22)	kg (lbs) 10 (22)	kg (lbs) 10 (22)	kg (lbs) 10 (22)
Connection Pipe Diameter	Liquid/Gas	mm	6.35/9.52	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	45/40/35/29	48/40/35/29	49/40/35/29
			Heating	46/40/35/29	48/40/35/29
Sound Power Level	Cooling	H	60	62	65
			Heating	61	62
Airflow Rate	Cooling	H/M/L/Q	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
Net Dimensions			mm 280 × 980 × 240	mm 280 × 980 × 240	mm 280 × 980 × 240
Weight			kg (lbs) 12.5 (27)	kg (lbs) 12.5 (27)	kg (lbs) 12.5 (27)
Connection Pipe Diameter	Liquid/Gas	mm	6.35/12.70	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	39/34/28/22	42/36/30/22	44/38/31/22
			Heating	39/35/30/22	42/38/32/22
Sound Power Level	Cooling	H	52	55	56
			Heating	52	55
Airflow Rate	Cooling	H/M/L/Q	530/440/360/270	600/490/380/270	650/520/400/270
			Heating	530/460/380/270	600/510/410/270
Net Dimensions			mm 600 × 740 × 200	mm 600 × 740 × 200	mm 600 × 740 × 200
Weight			kg (lbs) 14 (31)	kg (lbs) 14 (31)	kg (lbs) 14 (31)
Connection Pipe Diameter	Liquid/Gas	mm	6.35/9.52	6.35/9.52	6.35/9.52



## Ceiling

Model name	Indoor unit		ABYG18KRTA	ABYG22KRTA
kW Class			5.0	6.0
Power Source			Single phase, ~230 V, 50 Hz	
Sound Pressure Level	Cooling	H/M/L/Q	38/36/33/31	42/37/34/31
			Heating	38/36/33/31
Sound Power Level	Cooling	H	53	57
			Heating	53
Airflow Rate	Cooling	H/M/L/Q	840/790/710/650	900/790/710/650
			Heating	840/790/710/650
Net Dimensions			mm 235 × 1,080 × 705	mm 235 × 1,080 × 705
Weight			kg (lbs) 24(52)	kg (lbs) 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			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	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
Sound Power Level	Cooling	H	46	46	49	50	50	56
			Heating	47	47	49	55	55
Airflow Rate	Cooling	H/M/L/Q	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
Net Dimensions			mm 245 × 570 × 570	mm 245 × 570 × 570	mm 245 × 570 × 570	mm 245 × 570 × 570	mm 245 × 570 × 570	mm 245 × 570 × 570
Weight			kg (lbs) 15 (33)	kg (lbs) 15 (33)	kg (lbs) 15 (33)	kg (lbs) 15 (33)	kg (lbs) 15 (33)	kg (lbs) 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			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	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
Sound Power Level	Cooling	H	52	54	55	60	58
			Heating	53	56	57	62
Airflow Rate	Cooling	H/M/L/Q	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
Net Dimensions			mm 198 × 700 × 450	mm 198 × 700 × 450	mm 198 × 700 × 450	mm 198 × 700 × 450	mm 198 × 900 × 450
Weight			kg (lbs) 15.5 (34)	kg (lbs) 15.5 (34)	kg (lbs) 15.5 (34)	kg (lbs) 15.5 (34)	kg (lbs) 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	Pa 0 to 30	Pa 0 to 30	Pa 0 to 50	Pa 0 to 50
Drain pump			Standard	Standard	Standard	Standard	Standard



## Slim duct

Model name	Indoor unit		ARXG07KLLAP	ARXG09KLLAP	ARXG12KLLAP	ARXG14KLLAP	ARXG18KLLAP
kW Class			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	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
Sound Power Level	Cooling	H	57	57	58	60	58
			Heating	57	57	58	60
Airflow Rate	Cooling	H/M/L/Q	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
Net Dimensions			mm 198 × 700 × 620	mm 198 × 700 × 620	mm 198 × 700 × 620	mm 198 × 700 × 620	mm 198 × 900 × 620
Weight			kg (lbs) 16 (35)	kg (lbs) 17 (37)	kg (lbs) 17 (37)	kg (lbs) 17 (37)	kg (lbs) 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	Pa 0 to 90	Pa 0 to 90	Pa 0 to 90	Pa 0 to 90
Drain pump			Standard	Standard	Standard	Standard	Standard



## Medium Static Pressure Duct

Model name	Indoor unit		ARXG22KMLB
kW Class			6.0
Power Source			Single phase, ~230 V, 50 Hz
Sound Pressure Level	Cooling	H/M/L/Q	31/29/27/25
			Heating
Sound Power Level	Cooling	H	60
			Heating
Airflow Rate	Cooling	H/M/L/Q	1,100/910/750/580
			Heating
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 to 8-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	m³/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	m³/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	m³/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	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	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	m³/h	640/590/540/480	780/700/560/500
	Heating			640/590/540/480	780/700/560/500
Net Dimensions	mm			199 × 990 × 655	199 × 990 × 655
Weight	kg (lbs)			27 (60)	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	m³/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	245 × 570 × 570
Weight	kg (lbs)			15 (33)	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	m³/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 (33)				
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	m³/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)			17 (37)	19 (42)	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

AOYG14KBTAZ	Combination of Indoor Units		Cooling Operation				Seasonal Data			
			Cooling Capacity			Input Power (Min. - Max.) kW	EER	Pdesign kW	SEER	Energy efficiency class
			Unit 1 kW	Unit 2 kW	Total Capacity (Min. - Max.) 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.

AOYG18KBTAZ	Combination of Indoor Units		Cooling Operation				Seasonal Data			
			Cooling Capacity			Input Power (Min. - Max.) kW	EER	Pdesign kW	SEER	Energy efficiency class
			Unit 1 kW	Unit 2 kW	Total Capacity (Min. - Max.) 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

AOYG14KBTAZ	Combination of Indoor Units		Heating Operation				Seasonal Data			
			Heating Capacity			Input Power (Min. - Max.) kW	COP	Pdesign kW	SCOP	Energy efficiency class
			Unit 1 kW	Unit 2 kW	Total Capacity (Min. - Max.) kW					
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.

AOYG18KBTAZ	Combination of Indoor Units		Heating Operation				Seasonal Data			
			Heating Capacity			Input Power (Min. - Max.) kW	COP	Pdesign kW	SCOP	Energy efficiency class
			Unit 1 kW	Unit 2 kW	Total Capacity (Min. - Max.) kW					
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.) kW	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++
	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++
3-unit connection	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.) kW	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++
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					Seasonal Data			
				Heating Capacity			Input Power (Min. - Max.) kW	COP	Pdesign kW	SCOP	Energy efficiency	
				Unit 1 kW	Unit 2 kW	Unit 3 kW						Total Capacity (Min. - Max.) kW
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+
	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+
3-unit connection	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					Seasonal Data			
				Heating Capacity			Input Power (Min. - Max.) kW	COP	Pdesign kW	SCOP	Energy efficiency	
				Unit 1 kW	Unit 2 kW	Unit 3 kW						Total Capacity (Min. - Max.) kW
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+
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						





# 5-unit Multi-split Combination Table-Cooling

## 5-unit Multi-split cooling

AOYG36K8TA5	Combination of Indoor Units					Cooling Operation						Seasonal Data				
						Cooling Capacity					Input Power (Min. - Max.)				EER	
						Unit 1	Unit 2	Unit 3	Unit 4	Unit 5		Total Capacity (Min. - Max.)	Pdesign	SEER		Energy efficiency
					kW					kW						
2-unit connection	7	24	-	-	-	2.00	7.00	-	-	-	9.00 (3.0-11.0)	2.91 (0.30-3.45)	3.09	9.0	7.9	A++
	9	22	-	-	-	2.50	6.00	-	-	-	8.50 (3.0-11.0)	2.67 (0.30-3.45)	3.18	8.5	7.9	A++
	9	24	-	-	-	2.50	7.00	-	-	-	9.50 (3.0-11.0)	3.17 (0.30-3.45)	3.00	9.5	7.8	A++
	12	22	-	-	-	3.50	6.00	-	-	-	9.50 (3.0-11.0)	3.17 (0.30-3.45)	3.00	9.5	7.8	A++
	12	24	-	-	-	3.17	6.33	-	-	-	9.50 (3.0-11.0)	3.17 (0.30-3.45)	3.00	9.5	7.8	A++
	14	22	-	-	-	3.69	3.61	-	-	-	9.50 (3.0-11.0)	3.17 (0.30-3.45)	3.00	9.5	7.8	A++
	14	24	-	-	-	3.50	6.00	-	-	-	9.50 (3.0-11.0)	3.17 (0.30-3.45)	3.00	9.5	7.8	A++
	18	18	-	-	-	4.75	4.75	-	-	-	9.50 (3.0-11.0)	3.17 (0.30-3.45)	3.00	9.5	7.8	A++
	18	22	-	-	-	4.27	5.23	-	-	-	9.50 (3.0-11.0)	3.17 (0.30-3.45)	3.00	9.5	7.8	A++
	18	24	-	-	-	4.07	5.43	-	-	-	9.50 (3.0-11.0)	3.17 (0.30-3.45)	3.00	9.5	7.8	A++
	22	22	-	-	-	4.75	4.75	-	-	-	9.50 (3.0-11.0)	3.17 (0.30-3.45)	3.00	9.5	7.8	A++
	22	24	-	-	-	4.54	4.96	-	-	-	9.50 (3.0-11.0)	3.17 (0.30-3.45)	3.00	9.5	7.8	A++
	24	24	-	-	-	4.75	4.75	-	-	-	9.50 (3.0-11.0)	3.17 (0.30-3.45)	3.00	9.5	7.8	A++
	7	7	14	-	-	2.00	2.00	4.00	-	-	8.00 (3.0-10.0)	2.26 (0.30-2.88)	3.54	8.0	8.2	A++
	7	7	18	-	-	2.00	2.00	5.00	-	-	9.00 (3.0-11.0)	2.68 (0.30-3.45)	3.36	9.0	8.1	A++
	7	7	22	-	-	1.85	1.85	5.80	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++
	7	7	24	-	-	1.75	1.75	6.00	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++
	7	9	12	-	-	2.00	2.50	3.50	-	-	8.00 (3.0-10.0)	2.26 (0.30-2.88)	3.54	8.0	8.2	A++
	7	9	14	-	-	2.00	2.50	4.00	-	-	8.50 (3.0-10.7)	2.46 (0.30-3.27)	3.45	8.5	8.1	A++
	7	9	18	-	-	2.00	2.50	5.00	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++
7	9	22	-	-	1.75	2.25	5.50	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
7	9	24	-	-	1.66	2.14	5.70	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
7	12	12	-	-	2.00	3.50	3.50	-	-	9.50 (3.0-11.0)	2.68 (0.30-3.45)	3.36	9.0	8.1	A++	
7	12	14	-	-	2.00	3.50	4.00	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
7	12	18	-	-	1.80	3.08	4.62	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
7	12	22	-	-	1.62	2.78	5.10	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
7	12	24	-	-	1.55	2.65	5.30	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
7	14	14	-	-	1.90	3.80	3.80	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
7	14	18	-	-	1.71	3.41	4.38	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
7	14	22	-	-	1.55	3.09	4.86	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
7	14	24	-	-	1.47	2.96	5.07	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
7	18	18	-	-	1.54	3.98	3.98	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
7	18	22	-	-	1.41	3.64	4.45	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
7	18	24	-	-	1.36	3.49	4.65	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
9	9	9	-	-	2.50	2.50	2.50	-	-	7.50 (3.0-9.6)	2.07 (0.30-2.70)	3.63	7.5	8.2	A++	
9	9	12	-	-	2.50	2.50	3.50	-	-	8.50 (3.0-10.7)	2.46 (0.30-3.27)	3.45	8.5	8.1	A++	
9	9	14	-	-	2.50	2.50	4.00	-	-	9.00 (3.0-11.0)	2.68 (0.30-3.45)	3.36	9.0	8.1	A++	
9	9	18	-	-	2.38	2.38	4.74	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
9	9	22	-	-	2.14	2.14	5.22	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
9	9	24	-	-	2.04	2.04	5.42	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
9	12	12	-	-	2.50	3.50	3.50	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
9	12	14	-	-	2.44	3.26	3.80	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
9	12	18	-	-	2.19	2.92	4.39	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
9	12	22	-	-	1.99	2.65	4.86	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
9	12	24	-	-	1.90	2.53	5.07	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
9	14	14	-	-	2.32	3.59	3.59	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
9	14	18	-	-	2.09	3.24	4.17	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
9	14	22	-	-	1.90	2.96	4.64	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
9	14	24	-	-	1.82	2.83	4.85	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
9	18	18	-	-	2.00	3.80	3.80	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
9	18	22	-	-	1.74	3.49	4.27	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
9	18	24	-	-	1.68	3.35	4.47	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
12	12	12	-	-	3.17	3.17	3.17	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
12	12	14	-	-	3.00	3.00	3.50	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
12	12	18	-	-	2.71	2.71	4.08	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
12	12	22	-	-	2.48	2.48	4.54	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
12	12	24	-	-	2.38	2.38	4.74	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
12	14	14	-	-	2.84	3.33	3.33	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
12	14	18	-	-	2.59	3.02	3.89	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
12	14	22	-	-	2.38	2.77	4.35	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
12	14	24	-	-	2.28	2.66	4.56	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
12	18	18	-	-	2.38	3.56	3.56	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
12	18	22	-	-	2.19	3.29	4.02	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
12	18	24	-	-	2.11	3.17	4.22	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
14	14	14	-	-	3.17	3.17	3.17	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
14	14	18	-	-	2.89	2.89	3.72	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
14	14	22	-	-	2.66	2.66	4.18	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
14	14	24	-	-	2.56	2.56	4.38	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
14	18	18	-	-	2.66	3.42	3.42	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
18	18	18	-	-	3.17	3.17	3.17	-	-	9.50 (3.0-11.0)	2.91 (0.30-3.45)	3.27	9.5	8.0	A++	
7	7	7	7	-	2.00	2.00	2.00	2.00	-	8.00 (3.0-10.0)	2.11 (0.30-2.88)	3.80	8.0	8.5	A++	
7	7	7	9	-	2.00	2.00	2.00	2.50	-	8.50 (3.0-10.7)	2.29 (0.30-3.27)	3.71	8.5	8.4	A++	
7	7	7	12	-	2.00	2.00	2.00	3.50	-	9.50 (3.0-11.0)	2.69 (0.30-3.45)	3.53	9.5	8.3	A++	
7	7	7	14	-	1.90	1.90	1.90	3.80	-	9.50 (3.0-11.0)	2.69 (0.30-3.45)	3.53	9.5	8.3	A++	
7	7	7	18	-	1.71	1.71	1.71	4.37	-	9.50 (3.0-11.0)	2.69 (0.30-3.45)	3.53	9.5	8.3	A++	
7	7	7	22	-	1.55	1.55	1.55	4.85	-	9.50 (3.0-11.0)	2.69 (0.30-3.45)	3.53	9.5	8.3	A++	
7	7	7	24	-	1.48	1.48	1.48	5.06	-	9.50 (3.0-11.0)	2.69 (0.30-3.45)	3.53	9.5	8.3	A++	
7	7	9	9	-	2.00	2.00	2.50	2.50	-	9.00 (3.0-11.0)	2.49 (0.30-3.45)	3.62	9.0	8.4	A++	
7	7	9	12	-	1.90	1.90	2.44	3.26	-	9.50 (3.0-11.0)	2.69 (0.30-3.45)	3.53	9.5	8.3	A++	
7	7	9	14	-	1.80	1.80	2.31	3.59	-	9.50 (3.0-11.0)	2.69 (0.30-3.45)	3.53	9.5	8.3	A++	
7	7	9	18	-	1.62	1.62	2.09	4.17	-	9.50 (3.0-11.0)	2.69 (0.30-3.45)	3.53	9.5	8.3	A++	
7	7	9	22	-	1.48	1.48	1.90	4.64	-	9.50 (3.0-11.0)	2.69 (0.30-3.45)	3.53	9.5	8.3	A++	
7	7	9	24	-	1.41	1.41	1.82	4.86	-	9.50 (3.0-11.0)	2.69 (0.30-3.45)	3.53	9.5	8.3	A++	
7	7	12	12	-	1.75	1.75	3.00	3.00	-	9.50 (3.0-11.0)	2.69 (0.30-3.45)	3.53	9.5	8.3	A++	
7	7	12	14	-	1.66	1.66	2.85	3.33	-	9.50 (3.0-11.0)	2.69 (0.30-3.45)	3.53	9.5	8.3	A++	
7	7	12														



# 5-unit Multi-split Combination Table-Heating

## 5-unit Multi-split heating

AOYG36KBTAS	Combination of Indoor Units					Heating Operation						Seasonal Data					
						Heating Capacity					Input Power (Min. - Max.)	COP	Pdesign kW	SCOP	Energy efficiency		
						Unit 1	Unit 2	Unit 3	Unit 4	Unit 5						Total Capacity (Min. - Max.)	
2-unit connection	7	24	-	-	-	2.39	8.21	-	-	-	10.60 (3.5-12.0)	2.65 (0.25-3.25)	4.00	7.0	4.3	A+	
	9	22	-	-	-	3.00	7.20	-	-	-	10.20 (3.5-12.0)	2.52 (0.25-3.25)	4.04	6.8	4.3	A+	
	9	24	-	-	-	2.89	7.71	-	-	-	10.60 (3.5-12.0)	2.65 (0.25-3.25)	4.00	7.0	4.3	A+	
	12	22	-	-	-	3.74	6.86	-	-	-	10.60 (3.5-12.0)	2.65 (0.25-3.25)	4.00	7.0	4.3	A+	
	12	24	-	-	-	3.53	7.07	-	-	-	10.60 (3.5-12.0)	2.65 (0.25-3.25)	4.00	7.0	4.3	A+	
	14	24	-	-	-	4.12	3.68	-	-	-	10.60 (3.5-12.0)	2.65 (0.25-3.25)	4.00	7.0	4.3	A+	
	14	24	-	-	-	3.91	6.69	-	-	-	10.60 (3.5-12.0)	2.65 (0.25-3.25)	4.00	7.0	4.3	A+	
	18	18	-	-	-	5.30	5.30	-	-	-	10.60 (3.5-12.0)	2.65 (0.25-3.25)	4.00	7.0	4.3	A+	
	18	22	-	-	-	4.77	5.83	-	-	-	10.60 (3.5-12.0)	2.65 (0.25-3.25)	4.00	7.0	4.3	A+	
	18	24	-	-	-	4.54	6.06	-	-	-	10.60 (3.5-12.0)	2.65 (0.25-3.25)	4.00	7.0	4.3	A+	
	22	22	-	-	-	5.30	5.30	-	-	-	10.60 (3.5-12.0)	2.65 (0.25-3.25)	4.00	7.0	4.3	A+	
	22	24	-	-	-	5.07	5.53	-	-	-	10.60 (3.5-12.0)	2.65 (0.25-3.25)	4.00	7.0	4.3	A+	
	24	24	-	-	-	5.30	5.30	-	-	-	10.60 (3.5-12.0)	2.65 (0.25-3.25)	4.00	7.0	4.3	A+	
	3-unit connection	7	7	14	-	-	2.40	2.40	4.80	-	-	9.60 (3.5-11.2)	2.25 (0.25-2.87)	4.26	6.5	4.5	A+
		7	7	18	-	-	2.32	2.32	5.96	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+
		7	7	22	-	-	2.06	2.06	6.48	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+
		7	7	24	-	-	1.95	1.95	6.70	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+
		7	9	12	-	-	2.40	3.00	4.20	-	-	9.60 (3.5-11.2)	2.25 (0.25-2.87)	4.26	6.5	4.5	A+
		7	9	14	-	-	2.40	3.00	4.80	-	-	10.20 (3.5-12.0)	2.42 (0.25-3.25)	4.21	6.8	4.4	A+
		7	9	18	-	-	2.18	2.81	5.61	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+
		7	9	22	-	-	1.95	2.51	6.14	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+
		7	9	24	-	-	1.85	2.39	6.36	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+
		7	12	12	-	-	2.40	4.10	4.10	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+
		7	12	14	-	-	2.25	3.85	4.50	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+
7		12	18	-	-	2.00	3.44	5.16	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+	
7		12	22	-	-	1.81	3.10	5.69	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+	
7		12	24	-	-	1.72	2.96	5.92	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+	
7		14	14	-	-	2.12	4.24	4.24	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+	
7		14	18	-	-	1.90	3.81	4.89	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+	
7		14	22	-	-	1.73	3.45	5.42	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+	
7		14	24	-	-	1.65	3.30	5.65	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+	
7		18	18	-	-	1.72	4.44	4.44	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+	
7		18	22	-	-	1.58	4.06	4.96	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+	
7		18	24	-	-	1.51	3.89	5.20	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+	
9		9	9	-	-	3.00	3.00	3.00	-	-	9.00 (3.5-10.8)	2.09 (0.25-2.70)	4.31	6.0	4.5	A+	
9		9	12	-	-	3.00	3.00	4.20	-	-	10.20 (3.5-12.0)	2.42 (0.25-3.25)	4.21	6.8	4.4	A+	
9		9	14	-	-	2.98	2.98	4.64	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+	
9	9	18	-	-	2.65	2.65	5.30	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
9	9	22	-	-	2.39	2.39	5.82	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
9	9	24	-	-	2.27	2.27	6.06	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
9	12	12	-	-	2.80	3.85	3.85	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
9	12	14	-	-	2.73	3.63	4.24	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
9	12	18	-	-	2.45	3.26	4.89	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
9	12	22	-	-	2.22	2.96	5.42	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
9	12	24	-	-	2.12	2.83	5.65	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
9	14	14	-	-	2.58	4.01	4.01	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
9	14	18	-	-	2.33	3.62	4.65	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
9	14	22	-	-	2.12	3.30	5.18	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
9	14	24	-	-	2.03	3.16	5.41	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
9	18	18	-	-	2.12	4.24	4.24	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
9	18	22	-	-	1.95	3.89	4.76	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
9	18	24	-	-	1.87	3.74	4.99	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
12	12	12	-	-	3.53	3.53	3.53	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
12	12	14	-	-	3.35	3.35	3.90	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
12	12	18	-	-	3.03	3.03	4.54	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
12	12	22	-	-	2.77	2.77	5.06	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
12	12	24	-	-	2.65	2.65	5.30	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
12	14	14	-	-	3.18	3.71	3.71	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
12	14	18	-	-	2.89	3.37	4.34	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
12	14	22	-	-	2.65	3.09	4.86	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
12	14	24	-	-	2.54	2.97	5.09	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
12	18	18	-	-	2.64	3.98	3.98	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
12	18	22	-	-	2.45	3.67	4.48	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
12	18	24	-	-	2.36	3.53	4.71	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
14	14	14	-	-	3.53	3.53	3.53	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
14	14	18	-	-	3.23	3.23	4.14	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
14	14	22	-	-	2.97	2.97	4.66	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
14	14	24	-	-	2.89	2.85	4.90	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
14	18	18	-	-	2.98	3.82	3.82	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
18	18	18	-	-	3.53	3.53	3.53	-	-	10.60 (3.5-12.0)	2.54 (0.25-3.25)	4.18	7.0	4.4	A+		
4-unit connection	7	7	7	7	-	2.40	2.40	2.40	2.40	-	9.60 (3.5-11.2)	2.17 (0.25-2.87)	4.42	6.5	4.6	A++	
	7	7	7	9	-	2.40	2.40	2.40	3.00	-	10.20 (3.5-12.0)	2.33 (0.25-3.25)	4.37	6.8	4.5	A+	
	7	7	7	12	-	2.25	2.25	2.25	3.85	-	10.60 (3.5-12.0)	2.44 (0.25-3.25)	4.34	7.0	4.5	A+	
	7	7	7	14	-	2.12	2.12	2.12	4.24	-	10.60 (3.5-12.0)	2.44 (0.25-3.25)	4.34	7.0	4.5	A+	
	7	7	7	18	-	1.90	1.90	1.90	4.90	-	10.60 (3.5-12.0)	2.44 (0.25-3.25)	4.34	7.0	4.5	A+	
	7	7	7	22	-	1.73	1.73	1.73	5.41	-	10.60 (3.5-12.0)	2.44 (0.25-3.25)	4.34	7.0	4.5	A+	
	7	7	7	24	-	1.65	1.65	1.65	5.65	-	10.60 (3.5-12.0)	2.44 (0.25-3.25)	4.34	7.0	4.5	A+	
	7	7	9	9	-	2.32	2.32	2.98	2.98	-	10.60 (3.5-12.0)	2.40 (0.25-3.25)	4.34	7.0	4.5	A+	
	7	7	9	12	-	2.12	2.12	2.73	3.63	-	10.60 (3.5-12.0)	2.44 (0.25-3.25)	4.34	7.0	4.5	A+	
	7	7	9	14	-	2.01	2.01	2.57	4.01	-	10.60 (3.5-12.0)	2					

# 6-unit Multi-split Combination Table-Cooling

## 6-unit Multi-split cooling

AOYG45LBLA6	Combination of Indoor Units		Cooling Operation							Input Power (Min. - Max.)	EER
			Cooling Capacity								
			Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Total Capacity (Min. - Max.)		
		kW							kW		
2-unit connection	12	24	-	-	-	-	-	-	10.5 (3.5-11.5)	3.06 (0.8-3.32)	3.43
	14	24	-	-	-	-	-	-	11.0 (3.5-12.1)	3.28 (0.8-3.30)	3.35
	18	18	-	-	-	-	-	-	10.0 (3.5-11.5)	2.92 (0.8-3.32)	3.42
	18	24	-	-	-	-	-	-	12.0 (3.5-13.4)	3.75 (0.8-4.46)	3.20
	24	24	-	-	-	-	-	-	12.5 (3.5-14.0)	4.01 (0.8-4.84)	3.12
	7	7	24	-	-	-	-	-	3.19 (0.8-3.70)	3.19 (0.8-3.70)	3.65
	7	9	18	-	-	-	-	-	9.5 (3.5-10.8)	2.55 (0.8-2.93)	3.73
	7	9	24	-	-	-	-	-	11.5 (3.5-12.7)	3.41 (0.8-4.08)	3.37
	7	12	18	-	-	-	-	-	10.5 (3.5-11.8)	3.02 (0.8-3.51)	3.48
	7	12	24	-	-	-	-	-	12.4 (3.5-13.7)	3.82 (0.8-4.65)	3.25
	7	14	14	-	-	-	-	-	10.0 (3.5-11.1)	2.81 (0.8-3.13)	3.56
	7	14	18	-	-	-	-	-	11.0 (3.5-12.4)	3.23 (0.8-3.89)	3.41
7	14	24	-	-	-	-	-	12.5 (3.5-14.0)	3.89 (0.8-4.84)	3.21	
7	18	18	-	-	-	-	-	12.0 (3.5-13.7)	3.69 (0.8-4.65)	3.25	
7	18	24	-	-	-	-	-	12.5 (3.5-14.0)	3.87 (0.8-4.84)	3.23	
7	24	24	-	-	-	-	-	12.5 (3.5-14.0)	3.83 (0.8-4.84)	3.26	
9	9	18	-	-	-	-	-	10.0 (3.5-11.5)	2.84 (0.8-3.32)	3.52	
9	9	24	-	-	-	-	-	12.0 (3.5-13.4)	3.65 (0.8-4.46)	3.29	
9	12	14	-	-	-	-	-	10.0 (3.5-11.1)	2.81 (0.8-3.13)	3.56	
9	12	18	-	-	-	-	-	11.0 (3.5-12.4)	3.23 (0.8-3.89)	3.41	
9	12	24	-	-	-	-	-	12.5 (3.5-14.0)	3.89 (0.8-4.84)	3.21	
9	14	14	-	-	-	-	-	10.5 (3.5-11.8)	3.02 (0.8-3.51)	3.48	
9	14	18	-	-	-	-	-	11.5 (3.5-12.7)	3.41 (0.8-4.08)	3.37	
9	14	24	-	-	-	-	-	12.5 (3.5-14.0)	3.88 (0.8-4.84)	3.22	
9	18	18	-	-	-	-	-	12.5 (3.5-14.0)	3.89 (0.8-4.84)	3.21	
9	18	24	-	-	-	-	-	12.5 (3.5-14.0)	3.86 (0.8-4.84)	3.24	
9	24	24	-	-	-	-	-	12.5 (3.5-14.0)	3.82 (0.8-4.84)	3.27	
12	12	12	-	-	-	-	-	10.5 (3.5-11.5)	2.98 (0.8-3.32)	3.52	
12	12	14	-	-	-	-	-	11.0 (3.5-12.1)	3.19 (0.8-3.70)	3.45	
12	12	18	-	-	-	-	-	12.0 (3.5-13.4)	3.65 (0.8-4.46)	3.29	
12	12	24	-	-	-	-	-	12.5 (3.5-14.0)	3.87 (0.8-4.84)	3.23	
12	14	14	-	-	-	-	-	10.5 (3.5-11.8)	3.02 (0.8-3.51)	3.48	
12	14	18	-	-	-	-	-	11.5 (3.5-12.7)	3.41 (0.8-4.08)	3.37	
12	14	24	-	-	-	-	-	12.5 (3.5-14.0)	3.89 (0.8-4.84)	3.21	
12	18	18	-	-	-	-	-	12.5 (3.5-14.0)	3.86 (0.8-4.84)	3.24	
12	18	24	-	-	-	-	-	12.5 (3.5-14.0)	3.87 (0.8-4.84)	3.23	
12	24	24	-	-	-	-	-	12.5 (3.5-14.0)	3.85 (0.8-4.84)	3.25	
14	14	14	-	-	-	-	-	12.0 (3.5-13.4)	3.65 (0.8-4.46)	3.29	
14	14	18	-	-	-	-	-	12.5 (3.5-14.0)	3.88 (0.8-4.84)	3.22	
14	14	24	-	-	-	-	-	12.5 (3.5-14.0)	3.85 (0.8-4.84)	3.25	
14	18	18	-	-	-	-	-	12.5 (3.5-14.0)	3.85 (0.8-4.84)	3.24	
14	18	24	-	-	-	-	-	12.5 (3.5-14.0)	3.83 (0.8-4.84)	3.26	
14	24	24	-	-	-	-	-	12.5 (3.5-14.0)	3.80 (0.8-4.84)	3.29	
18	18	18	-	-	-	-	-	12.5 (3.5-14.0)	3.85 (0.8-4.84)	3.25	
18	18	24	-	-	-	-	-	12.5 (3.5-14.0)	3.81 (0.8-4.84)	3.28	
7	7	7	14	-	-	-	-	10.0 (3.5-11.1)	2.50 (0.8-3.13)	4.00	
7	7	7	18	-	-	-	-	11.0 (3.5-12.4)	3.06 (0.8-3.89)	3.59	
7	7	7	24	-	-	-	-	12.5 (3.5-14.0)	3.77 (0.8-4.84)	3.32	
7	7	9	12	-	-	-	-	10.0 (3.5-11.1)	2.50 (0.8-3.13)	4.00	
7	7	9	18	-	-	-	-	11.5 (3.5-12.7)	2.79 (0.8-3.51)	3.76	
7	7	9	24	-	-	-	-	12.5 (3.5-14.0)	3.33 (0.8-4.27)	3.45	
7	7	9	12	-	-	-	-	12.5 (3.5-14.0)	3.75 (0.8-4.84)	3.33	
7	7	12	12	-	-	-	-	11.0 (3.5-12.1)	3.00 (0.8-3.70)	3.67	
7	7	12	14	-	-	-	-	11.5 (3.5-12.7)	3.27 (0.8-4.08)	3.52	
7	7	12	18	-	-	-	-	12.5 (3.5-14.0)	3.78 (0.8-4.84)	3.31	
7	7	12	24	-	-	-	-	12.5 (3.5-14.0)	3.74 (0.8-4.84)	3.34	
7	7	14	14	-	-	-	-	12.0 (3.5-13.4)	3.51 (0.8-4.46)	3.42	
7	7	14	18	-	-	-	-	12.5 (3.5-14.0)	3.77 (0.8-4.84)	3.32	
7	7	14	24	-	-	-	-	12.5 (3.5-14.0)	3.73 (0.8-4.84)	3.35	
7	7	18	18	-	-	-	-	12.5 (3.5-14.0)	3.74 (0.8-4.84)	3.34	
7	7	18	24	-	-	-	-	12.5 (3.5-14.0)	3.70 (0.8-4.84)	3.38	
7	7	24	24	-	-	-	-	12.5 (3.5-14.0)	3.67 (0.8-4.84)	3.41	
7	9	9	9	-	-	-	-	9.5 (3.5-10.8)	2.31 (0.8-2.93)	4.11	
7	9	9	12	-	-	-	-	10.5 (3.5-11.8)	2.79 (0.8-3.51)	3.76	
7	9	9	14	-	-	-	-	11.0 (3.5-12.4)	3.06 (0.8-3.89)	3.59	
7	9	9	18	-	-	-	-	12.0 (3.5-13.4)	3.57 (0.8-4.65)	3.36	
7	9	9	24	-	-	-	-	12.5 (3.5-14.0)	3.74 (0.8-4.84)	3.34	
7	9	12	12	-	-	-	-	11.5 (3.5-12.7)	3.27 (0.8-4.08)	3.52	
7	9	12	14	-	-	-	-	12.0 (3.5-13.4)	3.50 (0.8-4.46)	3.40	
7	9	12	18	-	-	-	-	12.5 (3.5-14.0)	3.77 (0.8-4.84)	3.32	
7	9	12	24	-	-	-	-	12.5 (3.5-14.0)	3.73 (0.8-4.84)	3.35	
7	9	14	14	-	-	-	-	12.5 (3.5-14.0)	3.78 (0.8-4.84)	3.31	
7	9	14	18	-	-	-	-	12.5 (3.5-14.0)	3.75 (0.8-4.84)	3.33	
7	9	14	24	-	-	-	-	12.5 (3.5-14.0)	3.71 (0.8-4.84)	3.37	
7	9	18	18	-	-	-	-	12.5 (3.5-14.0)	3.73 (0.8-4.84)	3.35	
7	9	18	24	-	-	-	-	12.5 (3.5-14.0)	3.69 (0.8-4.84)	3.39	
7	12	12	12	-	-	-	-	12.4 (3.5-13.7)	3.69 (0.8-4.65)	3.36	
7	12	12	14	-	-	-	-	12.5 (3.5-14.0)	3.77 (0.8-4.84)	3.32	
7	12	12	18	-	-	-	-	12.5 (3.5-14.0)	3.74 (0.8-4.84)	3.34	
7	12	12	24	-	-	-	-	12.5 (3.5-14.0)	3.71 (0.8-4.84)	3.37	
7	12	14	14	-	-	-	-	12.5 (3.5-14.0)	3.75 (0.8-4.84)	3.33	
7	12	14	18	-	-	-	-	12.5 (3.5-14.0)	3.73 (0.8-4.84)	3.35	
7	12	14	24	-	-	-	-	12.5 (3.5-14.0)	3.70 (0.8-4.84)	3.38	
7	12	18	18	-	-	-	-	12.5 (3.5-14.0)	3.71 (0.8-4.84)	3.37	
7	12	18	24	-	-	-	-	12.5 (3.5-14.0)	3.68 (0.8-4.84)	3.40	
7	14	14	14	-	-	-	-	12.0 (3.5-13.4)	3.45 (0.8-4.46)	3.42	
7	14	14	18	-	-	-	-	12.5 (3.5-14.0)	3.72 (0.8-4.84)	3.36	
7	14	14	24	-	-	-	-	12.5 (3.5-14.0)	3.69 (0.8-4.84)	3.39	
7	14	18	18	-	-	-	-	12.5 (3.5-14.0)	3.70 (0.8-4.84)	3.38	
7	18	18	18	-	-	-	-	12.5 (3.5-14.0)	3.68 (0.8-4.84)	3.40	
9	9	9	9	-	-	-	-	10.0 (3.5-11.5)	2.59 (0.8-3.32)	3.86	
9	9	9	12	-	-	-	-	11.0 (3.5-12.4)	3.06 (0.8-3.89)	3.59	
9	9	9	14	-	-	-	-	11.5 (3.5-12.7)	3.33 (0.8-4.27)	3.45	
9	9	9	18	-	-	-	-	12.5 (3.5-14.0)	3.77 (0.8-4.84)	3.32	
9	9	9	24	-	-	-	-	12.5 (3.5-14.0)	3.73 (0.8-4.84)	3.35	
9	9	12	12	-	-	-	-	11.5 (3.5-12.7)	3.33 (0.8-4.27)	3.45	
9	9	12	14	-	-	-	-	12.0 (3.5-13.4)	3.51 (0.8-4.46)	3.42	
9	9	12	18	-	-	-	-	12.5 (3.5-14.0)	3.78 (0.8-4.84)	3.31	
9	9	12	24	-	-	-	-	12.5 (3.5-14.0)	3.75 (0.8-4.84)	3.33	
9	9	14	14	-	-	-	-	12.5 (3.5-14.0)	3.71 (0.8-4.84)	3.37	
9	9	14	18	-	-	-	-	12.5 (3.5-14.0)	3.70 (0.8-4.84)	3.38	
9	9	14	24	-	-	-	-	12.5 (3.5-14.0)	3.68 (0.8-4.84)	3.40	
9	9	18	18	-	-	-	-	12.5 (3.5-14.0)	3.71 (0.8-4.84)	3.37	
9	9	18	24	-	-	-	-	12.5 (3.5-14.0)	3.68 (0.8-4.84)	3.40	
9	12	12	12	-	-	-	-	12.5 (3.5-14.0)	3.77 (0.8-4.84)	3.32	
9	12	12	14	-	-	-	-	12.5 (3.5-14.0)	3.75 (0.8-4.84)	3.33	
9	12	12	18	-	-	-	-	12.5 (3.5-14.0)	3.73 (0.8-4.84)	3.35	
9	12	12	24	-	-	-	-	12.5 (3.5-14.0)	3.70 (0.8-4.84)	3.38	
9	12	14	14	-	-	-	-	12.5 (3.5-14.0)	3.74 (0.8-4.84)	3.34	
9	12	14	18	-	-	-	-	12.5 (3.5-14.0)	3.72 (0.8-4.84)	3.36	
9	12	14	24	-	-	-	-	12.5 (3.5-14.0)	3.69 (0.8-4.84)	3.39	
9	12	18	18	-	-	-	-	12.5 (3.5-14.0)	3.70 (0.8-4.84)	3.38	
9	12	18	24	-	-	-	-	12.5 (3.5-14.0)	3.68 (0.8-4.84)	3.40	
9	14	14	14	-	-	-	-	12.0 (3.5-13.4)	3.43 (0.8-4.46)	3.43	
9	14	14	18	-	-	-	-	12.5 (3.5-14.0)	3.71 (0.8-4.84)	3.37	
9	14	14	24	-	-	-	-	12.5 (3.5-14.0)	3.68 (0.8-4.84)	3.40	
9	14	18	18	-	-	-	-	12.5 (3.5-14.0)	3.69 (0.8-4.84)	3.39	

## 6-unit Multi-split cooling

AOYG45LBLA6	Combination of Indoor Units		Cooling Operation							Input Power (Min. - Max.)	EER
			Cooling Capacity								
			Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Total Capacity (Min. - Max.)		
		kW							kW		
4-unit connection	12	12	12	12	-	-	-	-	3.13	3.13	3.33
	12	12	12	14	-	-	-	-	3.00	3.00	3.50
	12	12	12	18	-	-	-	-	2.78	2.78	4.16
	12	12	12	24	-	-	-	-	2.50	2.50	5.00
	12	12	14	14	-	-	-	-	2.88	2.88	3.37
	12	12	14	18							

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

## 6-unit Multi-split cooling

AOYG45LBLA6	Combination of Indoor Units		Cooling Operation						Input Power (Min. - Max.)	EER
			Cooling Capacity							
			Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6		
			kW	kW	kW	kW	kW	kW	kW	
	7	7	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	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	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	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	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	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	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	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	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	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	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	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	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	1.51	1.51	1.51	2.59	3.87	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.60
	7	7	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	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	1.82	1.82	1.82	2.34	2.34	12.5 (3.5-14.0)	3.55 (0.8-4.84)	3.52
	7	7	1.72	1.72	1.72	2.21	2.21	12.5 (3.5-14.0)	3.53 (0.8-4.84)	3.54
	7	7	1.65	1.65	1.65	2.12	3.31	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
	7	7	1.54	1.54	1.54	1.97	3.94	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
	7	7	1.62	1.62	1.62	2.08	2.78	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
	7	7	1.56	1.56	1.56	2.01	2.68	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
	7	7	1.46	1.46	1.46	1.88	2.50	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
	7	7	1.51	1.51	1.51	1.93	3.02	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
	7	7	1.54	1.54	1.54	2.63	2.63	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
	7	7	1.48	1.48	1.48	2.54	2.54	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
	7	7	1.43	1.43	1.43	2.47	2.87	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
	7	7	1.75	1.75	1.75	2.25	2.25	12.5 (3.5-14.0)	3.53 (0.8-4.84)	3.54
	7	7	1.65	1.65	1.65	2.12	2.12	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
	7	7	1.59	1.59	1.59	2.05	2.05	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
	7	7	1.48	1.48	1.48	1.91	1.91	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
	7	7	1.46	1.46	1.46	2.01	2.68	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
	7	7	1.51	1.51	1.51	1.94	2.59	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
	7	7	1.41	1.41	1.41	1.81	2.42	12.5 (3.5-14.0)	3.46 (0.8-4.84)	3.61
	7	7	1.46	1.46	1.46	1.88	2.91	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
	7	7	1.48	1.48	1.48	1.92	2.54	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
	7	7	1.43	1.43	1.43	1.85	2.46	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
	7	7	1.41	1.41	1.41	2.42	2.42	12.5 (3.5-14.0)	3.46 (0.8-4.84)	3.61
	7	7	1.70	1.70	1.70	2.16	2.16	12.5 (3.5-14.0)	3.52 (0.8-4.84)	3.55
	7	7	1.59	1.59	1.59	2.05	2.05	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
	7	7	1.56	1.56	1.56	2.01	2.68	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
	7	7	1.54	1.54	1.54	1.97	3.08	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
	7	7	1.50	1.50	1.50	1.94	2.59	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
	7	7	1.46	1.46	1.46	1.88	2.50	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
	7	7	1.44	1.44	1.44	1.84	2.46	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
	9	9	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	1.97	1.97	1.97	1.97	2.65	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
	9	9	1.88	1.88	1.88	1.88	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						Input Power (Min. - Max.)	COP	
			Heating Capacity								
			Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6			Total Capacity (Min. - Max.)
			kW	kW	kW	kW	kW	kW	kW		
	2	Units	4.07	8.13	-	-	-	-	12.2 (3.5-13.1)	3.41 (0.7-3.54)	3.58
	14	24	4.61	7.89	-	-	-	-	12.5 (3.5-13.8)	3.56 (0.7-3.76)	3.51
	18	18	6.10	6.10	-	-	-	-	12.2 (3.5-13.1)	3.41 (0.7-3.54)	3.58
	18	24	5.66	7.54	-	-	-	-	13.2 (3.5-15.3)	3.78 (0.7-4.20)	3.49
	24	24	6.75	6.75	-	-	-	-	13.5 (3.5-16.0)	3.89 (0.7-4.41)	3.47
	7	7	2.30	2.30	7.90	-	-	-	12.5 (3.5-13.8)	3.43 (0.7-3.76)	3.64
	7	9	3.02	3.02	6.03	-	-	-	11.4 (3.5-12.4)	2.98 (0.7-3.33)	3.83
	7	9	2.24	2.24	7.68	-	-	-	12.8 (3.5-14.5)	3.54 (0.7-3.98)	3.62
	7	12	2.33	2.33	5.98	-	-	-	12.3 (3.5-13.5)	3.35 (0.7-3.65)	3.67
	7	12	2.17	2.17	5.71	-	-	-	13.3 (3.5-15.6)	3.69 (0.7-4.30)	3.60
	7	14	2.40	2.40	4.80	-	-	-	12.0 (3.5-12.7)	3.15 (0.7-3.44)	3.81
	7	14	2.28	2.28	4.56	-	-	-	12.7 (3.5-14.2)	3.49 (0.7-3.87)	3.64
	7	14	2.10	2.10	4.20	-	-	-	13.5 (3.5-16.0)	3.75 (0.7-4.41)	3.60
	7	18	2.16	2.16	5.57	-	-	-	13.3 (3.5-15.6)	3.69 (0.7-4.30)	3.60
	7	18	1.93	1.93	4.96	-	-	-	13.5 (3.5-16.0)	3.74 (0.7-4.41)	3.61
	7	24	1.72	1.72	5.89	-	-	-	13.5 (3.5-16.0)	3.72 (0.7-4.41)	3.63
	9	9	3.05	3.05	5.89	-	-	-	12.2 (3.5-13.1)	3.28 (0.7-3.54)	3.72
	9	9	2.83	2.83	7.54	-	-	-	13.2 (3.5-15.3)	3.64 (0.7-4.20)	3.63
	9	12	3.09	3.09	4.11	-	-	-	12.0 (3.5-12.7)	3.15 (0.7-3.44)	3.81
	9	12	2.93	2.93	5.86	-	-	-	12.7 (3.5-14.2)	3.49 (0.7-3.87)	3.64
	9	12	2.70	2.70	7.20	-	-	-	13.5 (3.5-16.0)	3.75 (0.7-4.41)	3.60
	9	14	3.00	3.00	4.65	-	-	-	12.3 (3.5-13.5)	3.35 (0.7-3.65)	3.67
	9	14	2.85	2.85	4.44	-	-	-	13.0 (3.5-14.9)	3.59 (0.7-4.09)	3.62
	9	14	2.59	2.59	4.02	-	-	-	13.5 (3.5-16.0)	3.74 (0.7-4.41)	3.61
	9	18	2.70	2.70	5.40	-	-	-	13.5 (3.5-16.0)	3.75 (0.7-4.41)	3.60
	9	18	2.38	2.38	4.76	-	-	-	13.5 (3.5-16.0)	3.73 (0.7-4.41)	3.62
	9	24	2.14	2.14	5.68	-	-	-	13.5 (3.5-16.0)	3.71 (0.7-4.41)	3.64
	12	12	4.07	4.07	4.07	-	-	-	12.2 (3.5-13.1)	3.28 (0.7-3.54)	3.72
	12	12	3.94	3.94	4.61	-	-	-	12.5 (3.5-13.8)	3.43 (0.7-3.76)	3.64
	12	12	3.77	3.77	5.66	-	-	-	13.2 (3.5-15.3)	3.64 (0.7-4.20)	3.63
	12	14	3.38	3.38	6.74	-	-	-	13.5 (3.5-16.0)	3.74 (0.7-4.41)	3.61
	12	14	3.84	3.84	4.48	-	-	-	12.8 (3.5-14.5)	3.44 (0.7-3.98)	3.62
	12	14	3.68	3.68	4.30	-	-	-	13.5 (3.5-16.0)	3.75 (0.7-4.41)	3.60
	12	14	3.24	3.24	6.48	-	-	-	13.5 (3.5-16.0)	3.74 (0.7-4.41)	3.61
	12	18	3.28	3.28	5.06	-	-	-	13.5 (3.5-16.0)	3.74 (0.7-4.41)	3.61
	12	18	3.00	3.00	6.00	-	-	-	13.5 (3.5-16.0)	3.72 (0.7-4.41)	3.63
	12	24	2.70	2.70	5.40	-	-	-	13.5 (3.5-16.0)	3.71 (0.7-4.41)	3.64
	14	14	4.40	4.40	4.40	-	-	-	13.2 (3.5-15.3)	3.64 (0.7-4.20)	3.63
	14	14	4.11	4.11	5.28	-	-	-	13.5 (3.5-16.0)	3.75 (0.7-4.41)	3.60
	14	14	3.63	3.63	6.24	-	-	-	13.5 (3.5-16.0)	3.73 (0.7-4.41)	3.62
	14	18	3.78	3.78	4.86	-	-	-	13.5 (3.5-16.0)	3.74 (0.7-4.41)	3.61
	14	18	3.38	3.38	5.78	-	-	-	13.5 (3.5-16.0)	3.72 (0.7-4.41)	3.63
	14	24	3.04	3.04	5.23	-	-	-	13.5 (3.5-16.0)	3.70 (0.7-4.41)	3.65
	18	18	4.50	4.50	4.50	-	-	-			

# 6-unit Multi-split Combination Table-Heating

## 6-unit Multi-split heating

AOYG45LBLA6	Combination of Indoor Units		Heating Operation							Input Power (Min. - Max.)	COP					
			Heating Capacity													
			Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Total Capacity (Min. - Max.)							
kW		kW		kW		kW		kW								
4-unit connection	12	12	12	12	-	-	-	3.38	3.38	3.38	3.38	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.4)	3.75
	12	12	12	14	-	-	-	3.24	3.24	3.24	3.78	-	-	13.5 (3.5-16.0)	3.60 (0.7-4.4)	3.75
	12	12	12	18	-	-	-	3.00	3.00	3.00	4.50	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.4)	3.77
	12	12	12	24	-	-	-	2.70	2.70	2.70	5.40	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.4)	3.78
	12	12	14	14	-	-	-	3.12	3.12	3.63	3.63	-	-	13.5 (3.5-16.0)	3.59 (0.7-4.4)	3.76
	12	12	14	18	-	-	-	2.89	2.89	3.38	4.34	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.4)	3.77
	12	12	14	24	-	-	-	2.61	2.61	3.05	5.23	-	-	13.5 (3.5-16.0)	3.56 (0.7-4.4)	3.79
	12	12	18	18	-	-	-	2.70	2.70	4.05	4.05	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.4)	3.78
	12	14	14	14	-	-	-	3.00	3.50	3.50	3.50	-	-	13.5 (3.5-16.0)	3.58 (0.7-4.4)	3.77
	12	14	14	18	-	-	-	2.79	3.26	3.26	4.19	-	-	13.5 (3.5-16.0)	3.57 (0.7-4.4)	3.78
	12	14	18	18	-	-	-	2.61	3.05	3.92	3.92	-	-	13.5 (3.5-16.0)	3.56 (0.7-4.4)	3.79
	7	7	7	7	7	-	-	2.40	2.40	2.40	2.40	2.40	-	-	12.0 (3.5-12.7)	2.82 (0.7-3.44)
7	7	7	7	9	-	-	2.33	2.33	2.33	2.33	2.98	-	-	12.3 (3.5-13.5)	3.03 (0.7-3.65)	4.06
7	7	7	7	12	-	-	2.10	2.10	2.10	3.60	3.60	-	-	12.8 (3.5-14.5)	3.29 (0.7-3.98)	3.89
7	7	7	7	14	-	-	2.20	2.20	2.20	2.20	4.40	-	-	13.2 (3.5-15.3)	3.40 (0.7-4.20)	3.88
7	7	7	7	18	-	-	2.05	2.05	2.05	2.05	5.30	-	-	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.87
7	7	7	7	24	-	-	1.82	1.82	1.82	1.82	6.22	-	-	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89
7	7	7	9	9	-	-	2.28	2.28	2.28	2.93	2.93	-	-	12.7 (3.5-14.2)	3.23 (0.7-3.87)	3.93
7	7	7	9	12	-	-	2.20	2.20	2.20	2.83	3.77	-	-	13.2 (3.5-15.3)	3.40 (0.7-4.20)	3.88
7	7	7	9	14	-	-	2.15	2.15	2.15	2.76	4.29	-	-	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.87
7	7	7	9	18	-	-	1.97	1.97	1.97	2.53	5.06	-	-	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88
7	7	7	9	24	-	-	1.75	1.75	1.75	2.25	6.00	-	-	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90
7	7	7	12	12	-	-	2.01	2.01	2.01	3.60	3.60	-	-	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.87
7	7	7	12	14	-	-	2.01	2.01	3.45	4.02	-	-	-	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88
7	7	7	12	18	-	-	1.85	1.85	1.85	3.18	4.77	-	-	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89
7	7	7	12	24	-	-	1.66	1.66	1.66	2.84	5.68	-	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91
7	7	7	14	14	-	-	1.93	1.93	1.93	3.86	3.86	-	-	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88
7	7	7	14	18	-	-	1.78	1.78	1.78	3.57	4.59	-	-	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89
7	7	7	14	24	-	-	1.60	1.60	1.60	3.20	5.50	-	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91
7	7	7	18	18	-	-	1.66	1.66	1.66	4.26	4.26	-	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91
7	7	7	9	9	9	-	2.22	2.22	2.85	2.85	-	-	-	13.0 (3.5-14.9)	3.34 (0.7-4.09)	3.89
7	7	7	9	12	-	-	2.15	2.15	2.76	3.68	-	-	-	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.88
7	7	7	9	14	-	-	2.05	2.05	2.64	4.12	-	-	-	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.87
7	7	7	9	18	-	-	1.89	1.89	2.43	4.86	-	-	-	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88
7	7	7	9	24	-	-	1.69	1.69	2.17	5.78	-	-	-	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90
7	7	7	9	12	12	-	2.01	2.01	2.58	3.45	3.45	-	-	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88
7	7	7	9	12	14	-	1.93	1.93	2.48	3.31	3.85	-	-	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88
7	7	7	9	12	18	-	1.78	1.78	2.29	3.06	4.59	-	-	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89
7	7	7	9	12	24	-	1.60	1.60	2.06	2.75	5.49	-	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91
7	7	7	9	14	14	-	1.85	1.85	2.38	3.71	3.71	-	-	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89
7	7	7	9	14	18	-	1.72	1.72	2.21	3.44	4.41	-	-	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90
7	7	7	9	14	24	-	1.55	1.55	1.99	3.10	5.31	-	-	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92
7	7	7	9	18	18	-	1.60	1.60	2.06	4.12	4.12	-	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91
7	7	7	12	12	12	-	1.89	1.89	3.24	3.24	3.24	-	-	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88
7	7	7	12	12	14	-	1.82	1.82	3.12	3.12	3.62	-	-	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89
7	7	7	12	12	18	-	1.69	1.69	2.89	4.34	-	-	-	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90
7	7	7	12	12	24	-	1.52	1.52	2.61	2.61	5.24	-	-	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92
7	7	7	12	14	14	-	1.75	1.75	3.00	3.50	3.50	-	-	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90
7	7	7	12	14	18	-	1.63	1.63	2.79	3.26	4.19	-	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91
7	7	7	12	18	18	-	1.52	1.52	2.62	3.92	3.92	-	-	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92
7	7	7	14	14	14	-	1.68	1.68	3.38	3.38	3.38	-	-	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90
7	7	7	14	14	18	-	1.58	1.58	3.15	3.15	4.04	-	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91
7	7	7	9	9	9	-	2.18	2.18	2.78	2.78	2.78	-	-	13.3 (3.5-15.6)	3.44 (0.7-4.30)	3.87
7	7	7	9	9	12	-	2.05	2.64	2.64	2.64	3.53	-	-	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.87
7	7	7	9	9	14	-	1.97	2.53	2.53	2.53	3.94	-	-	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88
7	7	7	9	9	18	-	1.82	2.34	2.34	2.34	4.66	-	-	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89
7	7	7	9	9	24	-	1.63	2.09	2.09	2.09	5.60	-	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91
7	7	7	9	12	12	-	1.92	2.48	2.48	3.31	3.31	-	-	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88
7	7	7	9	12	14	-	1.72	2.38	2.38	3.18	3.71	-	-	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89
7	7	7	9	12	18	-	1.55	2.21	2.21	2.95	4.41	-	-	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90
7	7	7	9	12	24	-	1.55	1.99	1.99	2.66	5.31	-	-	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92
7	7	7	9	14	14	-	1.78	2.29	2.29	3.57	3.57	-	-	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89
7	7	7	9	14	18	-	1.66	2.13	2.13	3.32	4.26	-	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91
7	7	7	9	18	18	-	1.56	1.99	1.99	3.98	3.98	-	-	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92
7	7	7	12	12	12	-	1.82	2.32	3.12	3.12	3.12	-	-	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89
7	7	7	12	12	14	-	1.75	2.25	3.00	3.00	3.50	-	-	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90
7	7	7	12	12	18	-	1.63	2.09	2.79	2.79	4.20	-	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91
7	7	7	12	14	14	-	1.69	2.17	2.88	3.38	3.38	-	-	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90
7	7	7	12	14	18	-	1.58	2.03	2.70	3.15	4.04	-	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91
7	7	7	14	14	14	-	1.63	2.09	3.26	3.26	3.26	-	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91
7	7	7	14	14	18	-	1.52	1.96	3.05	3.05	3.92	-	-	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92
7	7	7	12	12	12	-	1.70	2.95	2.95	2.95	2.95	-	-	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90
7	7	7	12	12	14	-	1.66	2.84	2.84	2.84	3.32	-	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91
7	7	7	12	12	18	-	1.55	2.66	2.66	2.66	3.97	-	-	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92
7	7	7	12	12	24	-	1.60	2.75	2.75	3.20	3.20	-	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91
7	7	7	12	14	14	-	1.55	2.65	3.10	3.10	3.10	-	-	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92
9	9	9	9	9	-	-	2.70	2.70	2.70	2.70	2.70	-	-	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.87
9	9	9	9	12	-	-	2.53	2.53	2.53	2.53	3.38	-	-	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88
9	9	9	9	14	-	-	2.43	2.43	2.43	2.43	3.78	-	-	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88
9	9	9	9	18	-	-	2.25	2.25	2.25	2.25	4.50	-	-	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90
9	9	9	9	24	-	-	2.03	2.03	2.03	2.03	5.38	-	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91
9	9	9	12	12	-	-	2.38	2.38	2.38	3.18	3.18	-	-	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89
9	9	9														

# 8-unit Multi-split Combination Table-Cooling

## 8-unit Multi-split cooling

AOYG45LBT8	Combination of Indoor Units		Cooling Operation										Input power						
			Cooling Capacity								Total	kW							
			Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8									
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW							
2-unit connection	24	24	-	-	-	-	-	-	-	-	-	7.03	7.03	-	-	-	-	14.06	5.20
	18	24	-	-	-	-	-	-	-	-	-	5.27	7.03	-	-	-	-	12.30	4.24
	18	18	24	-	-	-	-	-	-	-	-	4.63	6.18	6.18	-	-	-	15.45	5.89
	18	18	18	-	-	-	-	-	-	-	-	5.01	5.01	5.01	-	-	-	15.03	5.90
	14	24	24	-	-	-	-	-	-	-	-	3.54	6.07	6.07	-	-	-	15.68	5.87
	14	18	24	-	-	-	-	-	-	-	-	3.84	6.07	6.07	-	-	-	15.37	5.90
	14	18	18	-	-	-	-	-	-	-	-	4.10	5.27	5.27	-	-	-	14.64	5.50
	14	14	24	-	-	-	-	-	-	-	-	4.10	5.27	5.27	-	-	-	15.23	5.79
	14	14	18	-	-	-	-	-	-	-	-	4.10	4.10	5.27	-	-	-	13.47	4.89
	14*	14*	14*	-	-	-	-	-	-	-	-	4.10	4.10	4.10	-	-	-	12.30	4.24
	12	24	24	-	-	-	-	-	-	-	-	3.09	6.18	6.18	-	-	-	15.45	5.89
	3-unit connection	12	18	24	-	-	-	-	-	-	-	3.35	5.01	6.68	-	-	-	15.04	5.90
12		18	18	-	-	-	-	-	-	-	3.52	5.27	5.27	-	-	-	14.06	5.20	
12		14	24	-	-	-	-	-	-	-	3.52	4.10	7.03	-	-	-	14.65	5.50	
12		14	18	-	-	-	-	-	-	-	3.52	4.10	5.27	-	-	-	12.89	4.57	
12*		14*	14*	-	-	-	-	-	-	-	3.52	4.10	4.10	-	-	-	11.72	3.91	
12		12	24	-	-	-	-	-	-	-	3.52	3.52	7.03	-	-	-	14.07	5.20	
12		12	18	-	-	-	-	-	-	-	3.52	3.52	5.27	-	-	-	12.31	4.24	
9		24	24	-	-	-	-	-	-	-	2.46	6.54	6.54	-	-	-	15.54	5.90	
9		18	24	-	-	-	-	-	-	-	2.64	5.27	7.03	-	-	-	14.94	5.65	
9		18	18	-	-	-	-	-	-	-	2.64	5.27	5.27	-	-	-	13.18	4.73	
9		14	24	-	-	-	-	-	-	-	2.64	4.10	7.03	-	-	-	13.77	5.05	
9		14	18	-	-	-	-	-	-	-	2.64	4.10	5.27	-	-	-	12.01	4.08	
9		12	24	-	-	-	-	-	-	-	2.64	3.52	7.03	-	-	-	13.19	4.73	
9		12	18	-	-	-	-	-	-	-	2.64	3.52	5.27	-	-	-	11.43	3.74	
9		9	24	-	-	-	-	-	-	-	2.64	2.64	7.03	-	-	-	12.31	4.24	
7		24	24	-	-	-	-	-	-	-	1.93	6.64	6.64	-	-	-	15.21	5.90	
7		18	24	-	-	-	-	-	-	-	2.05	5.27	7.03	-	-	-	14.35	5.35	
7		18	18	-	-	-	-	-	-	-	2.05	5.27	5.27	-	-	-	12.59	4.41	
7		14	24	-	-	-	-	-	-	-	2.05	4.10	7.03	-	-	-	13.18	4.73	
7		14	18	-	-	-	-	-	-	-	2.05	4.10	5.27	-	-	-	11.42	3.74	
7		12	24	-	-	-	-	-	-	-	2.05	3.52	7.03	-	-	-	12.60	4.41	
7		9	24	-	-	-	-	-	-	-	2.05	2.64	7.03	-	-	-	11.72	3.91	
14		14	14	18	-	-	-	-	-	-	3.60	3.60	3.60	4.63	-	-	-	15.45	5.89
14		14	14	14	-	-	-	-	-	-	3.84	3.84	3.84	3.84	-	-	-	15.37	5.90
12		14	18	18	-	-	-	-	-	-	3.04	3.54	4.55	4.55	-	-	-	15.68	5.87
12		14	14	18	-	-	-	-	-	-	3.15	3.67	3.67	4.72	-	-	-	15.21	5.90
12		14	14	14	-	-	-	-	-	-	3.35	3.90	3.90	3.90	-	-	-	15.04	5.90
12		12	18	18	-	-	-	-	-	-	3.09	3.09	4.63	4.63	-	-	-	15.45	5.89
12		12	14	24	-	-	-	-	-	-	3.04	3.04	3.54	6.07	-	-	-	15.69	5.87
12		12	14	18	-	-	-	-	-	-	3.30	3.30	3.84	4.94	-	-	-	15.38	5.90
12		12	14	14	-	-	-	-	-	-	3.52	3.52	4.10	4.10	-	-	-	15.24	5.79
12		12	12	24	-	-	-	-	-	-	3.09	3.09	3.09	6.18	-	-	-	15.45	5.89
12		12	12	18	-	-	-	-	-	-	3.35	3.35	3.35	5.01	-	-	-	15.05	5.90
12		12	12	14	-	-	-	-	-	-	3.52	3.52	3.52	4.10	-	-	-	14.66	5.50
12		12	12	12	-	-	-	-	-	-	3.52	3.52	3.52	3.52	-	-	-	14.08	5.20
9		14	18	18	-	-	-	-	-	-	2.34	3.64	4.67	4.67	-	-	-	15.33	5.89
9	14	14	24	-	-	-	-	-	-	2.30	3.57	3.57	6.12	-	-	-	15.57	5.88	
9	14	14	18	-	-	-	-	-	-	2.49	3.87	3.87	4.97	-	-	-	15.21	5.90	
9	14	14	14	-	-	-	-	-	-	2.64	4.10	4.10	4.10	-	-	-	14.94	5.65	
9	12	18	18	-	-	-	-	-	-	2.46	3.28	4.90	4.90	-	-	-	15.05	5.90	
9	12	14	24	-	-	-	-	-	-	2.34	3.12	3.64	6.23	-	-	-	15.33	5.89	
9	12	14	18	-	-	-	-	-	-	2.53	3.37	3.93	5.05	-	-	-	14.87	5.90	
9	12	14	14	-	-	-	-	-	-	2.64	2.64	2.64	3.52	-	-	-	14.07	5.20	
9	12	14	18	-	-	-	-	-	-	2.64	2.64	2.64	3.52	-	-	-	13.49	4.89	
9	12	14	14	-	-	-	-	-	-	2.64	3.52	4.10	4.10	-	-	-	14.36	5.35	
9	12	12	24	-	-	-	-	-	-	2.46	3.28	3.28	6.54	-	-	-	15.55	5.90	
9	12	12	18	-	-	-	-	-	-	2.64	3.52	3.52	5.27	-	-	-	14.95	5.65	
9	12	12	14	-	-	-	-	-	-	2.64	3.52	3.52	4.10	-	-	-	13.78	5.05	
9	12	12	12	-	-	-	-	-	-	2.64	3.52	3.52	3.52	-	-	-	13.20	4.73	
9	9	18	24	-	-	-	-	-	-	2.32	2.32	4.63	6.18	-	-	-	15.45	5.89	
9	9	18	18	-	-	-	-	-	-	2.51	2.51	5.01	5.01	-	-	-	15.04	5.90	
9	9	18	14	-	-	-	-	-	-	2.46	2.46	2.46	3.28	-	-	-	14.88	5.90	
9	9	14	24	-	-	-	-	-	-	2.47	2.47	3.84	4.94	-	-	-	15.25	5.79	
9	9	14	18	-	-	-	-	-	-	2.47	2.47	3.84	4.94	-	-	-	15.04	5.90	
9	9	14	14	-	-	-	-	-	-	2.64	2.64	2.64	3.52	-	-	-	14.96	5.65	
9	9	9	24	-	-	-	-	-	-	2.32	2.32	2.32	3.52	-	-	-	15.45	5.89	
9	9	9	18	-	-	-	-	-	-	2.51	2.51	2.51	2.51	5.01	-	-	15.05	5.90	
9	9	9	14	-	-	-	-	-	-	2.64	2.64	2.64	2.64	4.10	-	-	14.66	5.50	
9	9	9	12	-	-	-	-	-	-	2.64	2.64	2.64	2.64	3.52	-	-	14.08	5.20	
9	9	9	9	-	-	-	-	-	-	2.64	2.64	2.64	2.64	2.64	-	-	13.20	4.73	
7	12	14	14	14	-	-	-	-	-	1.79	3.07	3.57	3.57	3.57	-	-	15.57	5.88	
7	12	12	14	14	-	-	-	-	-	1.82	3.12	3.12	3.64	3.64	-	-	15.21	5.90	
7	12	12	12	18	-	-	-	-	-	1.79	3.07	3.07	3.07	4.59	-	-	15.57	5.88	
7	12	12	12	14	-	-	-	-	-	1.91	3.28	3.28	3.28	3.82	-	-	15.55	5.90	
7	12	12	12	12	-	-	-	-	-	1.93	3.32	3.32	3.32	3.32	-	-	15.22	5.90	
7	9	14	14	18	-	-	-	-	-	1.77	2.28	3.54	3.54	4.55	-	-	15.68	5.87	
7	9	14	14	14	-	-	-	-	-	1.84	2.36	3.67	3.67	3.67	-	-	15.21	5.90	
7	9	12	14	18	-	-	-	-	-	1.80	2.32	3.09	3.60	4.63	-	-	15.45	5.89	
7	9	12	14	14															

# 8-unit Multi-split Combination Table-Cooling/Heating

## 8-unit Multi-split cooling

AOYG45LBT8	Combination of Indoor Units		Cooling Operation										Input power
			Cooling Capacity										
			Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8	Total		
			kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
6-unit connection	7	9	1.79	2.30	2.30	2.30	2.30	4.59	-	-	15.57	5.88	
	7	9	1.93	2.49	2.49	2.49	2.49	3.32	-	-	15.22	5.90	
	7	9	2.05	2.64	2.64	2.64	2.64	2.64	-	-	15.25	5.79	
	7	7	1.77	1.77	3.04	3.04	3.04	3.04	-	-	15.69	5.87	
	7	7	1.79	1.79	2.30	3.07	3.07	3.57	-	-	15.57	5.88	
	7	7	1.82	1.82	2.34	3.12	3.12	3.12	-	-	15.34	5.89	
	7	7	1.80	1.80	2.32	2.32	3.60	3.60	-	-	15.45	5.89	
	7	7	1.77	1.77	2.28	2.28	3.04	4.55	-	-	15.69	5.87	
	7	7	1.83	1.83	2.36	2.36	3.15	3.67	-	-	15.21	5.90	
	7	7	1.92	1.92	2.47	2.47	3.30	3.30	-	-	15.38	5.90	
	7	7	1.82	1.82	2.34	2.34	2.34	4.67	-	-	15.33	5.89	
	7	7	1.93	1.93	2.49	2.49	3.87	-	-	15.21	5.90		
	7	7	1.96	1.96	2.53	2.53	2.53	3.37	-	-	14.88	5.90	
	7	7	2.05	2.05	2.64	2.64	2.64	2.64	-	-	14.66	5.50	
	7	7	1.79	1.79	1.79	3.07	3.57	-	-	15.57	5.88		
	7	7	1.82	1.82	1.82	3.12	3.12	3.64	-	-	15.33	5.89	
	7	7	1.91	1.91	1.91	3.28	3.28	3.28	-	-	15.55	5.90	
	7	7	1.77	1.77	1.77	2.28	3.54	4.55	-	-	15.68	5.87	
	7	7	1.84	1.84	1.84	2.36	3.67	3.67	-	-	15.21	5.90	
	7	7	1.80	1.80	1.80	2.32	3.09	4.63	-	-	15.45	5.89	
	7	7	1.92	1.92	1.92	2.47	3.30	3.84	-	-	15.38	5.90	
	7	7	1.95	1.95	1.95	2.51	3.35	3.35	-	-	15.05	5.90	
	7	7	1.91	1.91	1.91	2.46	2.46	4.90	-	-	15.54	5.90	
	7	7	1.96	1.96	1.96	2.53	2.53	3.93	-	-	14.87	5.90	
	7	7	2.05	2.05	2.05	2.64	2.64	3.52	-	-	14.95	5.65	
	7	7	2.05	2.05	2.05	2.64	2.64	2.64	-	-	14.07	5.20	
	7	7	1.80	1.80	1.80	1.80	3.60	4.63	-	-	15.45	5.89	
	7	7	1.92	1.92	1.92	1.92	3.84	3.84	-	-	15.37	5.90	
	7	7	1.84	1.84	1.84	1.84	3.15	4.72	-	-	15.21	5.90	
	7	7	1.95	1.95	1.95	1.95	3.35	3.90	-	-	15.04	5.90	
	7	7	2.05	2.05	2.05	2.05	3.52	3.52	-	-	15.24	5.79	
	7	7	1.79	1.79	1.79	2.30	6.12	-	-	15.57	5.88		
	7	7	1.93	1.93	1.93	1.93	2.49	4.97	-	-	15.21	5.90	
	7	7	2.05	2.05	2.05	2.05	2.64	4.10	-	-	14.94	5.65	
	7	7	2.05	2.05	2.05	2.05	2.64	3.52	-	-	14.36	5.35	
	7	7	2.05	2.05	2.05	2.05	2.64	2.64	-	-	13.48	4.89	
	7	7	1.82	1.82	1.82	1.82	6.24	-	-	15.33	5.89		
	7	7	1.96	1.96	1.96	1.96	1.96	5.05	-	-	14.87	5.90	
	7	7	2.05	2.05	2.05	2.05	4.10	-	-	14.35	5.35		
	7	7	2.05	2.05	2.05	2.05	2.05	3.52	-	-	13.77	5.05	
	7	7	2.05	2.05	2.05	2.05	2.05	2.64	-	-	12.89	4.57	
	7	7	2.05	2.05	2.05	2.05	2.05	2.05	-	-	12.30	4.24	
	7	9	1.78	2.30	2.30	2.30	2.30	2.30	2.30	-	15.57	5.88	
	7	9	1.77	1.77	2.28	2.28	2.28	3.04	-	-	15.69	5.87	
	7	9	1.82	1.82	2.34	2.34	2.34	2.34	-	-	15.34	5.89	
	7	9	1.77	1.77	2.28	2.28	2.28	3.54	-	-	15.69	5.87	
	7	9	1.80	1.80	1.80	2.32	2.32	2.32	3.09	-	15.45	5.89	
	7	9	1.91	1.91	1.91	2.46	2.46	2.46	2.46	-	15.55	5.90	
	7	9	1.79	1.79	1.79	1.79	2.30	3.07	3.07	-	15.57	5.88	
	7	9	1.80	1.80	1.80	1.80	2.32	3.60	3.60	-	15.45	5.89	
	7	9	1.83	1.83	1.83	1.83	2.36	3.15	-	-	15.21	5.90	
	7	9	1.93	1.93	1.93	2.49	2.49	2.49	-	-	15.21	5.90	
	7	9	1.79	1.79	1.79	1.79	3.07	3.57	-	-	15.57	5.88	
	7	9	1.82	1.82	1.82	1.82	3.12	3.12	-	-	15.33	5.89	
	7	9	1.77	1.77	1.77	1.77	2.28	4.55	-	-	15.68	5.87	
	7	9	1.84	1.84	1.84	1.84	2.36	3.67	-	-	15.21	5.90	
	7	9	1.92	1.92	1.92	1.92	2.47	3.30	-	-	15.38	5.90	
	7	9	1.96	1.96	1.96	1.96	2.53	2.53	-	-	14.87	5.90	
	7	9	1.80	1.80	1.80	1.80	1.80	4.63	-	-	15.45	5.89	
	7	9	1.92	1.92	1.92	1.92	1.92	3.84	-	-	15.37	5.90	
	7	9	1.95	1.95	1.95	1.95	1.95	3.35	-	-	15.05	5.90	
	7	9	1.91	1.91	1.91	1.91	2.46	2.46	4.90	-	15.54	5.90	
	7	9	1.96	1.96	1.96	1.96	1.96	3.93	-	-	14.87	5.90	
	7	9	2.05	2.05	2.05	2.05	2.64	2.64	3.52	-	14.95	5.65	
	7	9	2.05	2.05	2.05	2.05	2.64	2.64	2.64	-	14.07	5.20	
	7	9	1.80	1.80	1.80	1.80	3.60	4.63	-	-	15.45	5.89	
	7	9	1.92	1.92	1.92	1.92	3.84	3.84	-	-	15.37	5.90	
	7	9	1.84	1.84	1.84	1.84	3.15	4.72	-	-	15.21	5.90	
	7	9	1.95	1.95	1.95	1.95	3.35	3.90	-	-	15.04	5.90	
	7	9	2.05	2.05	2.05	2.05	3.52	3.52	-	-	15.24	5.79	
	7	9	1.79	1.79	1.79	1.79	2.30	6.12	-	-	15.57	5.88	
	7	9	1.93	1.93	1.93	1.93	2.49	4.97	-	-	15.21	5.90	
	7	9	2.05	2.05	2.05	2.05	2.64	4.10	-	-	14.94	5.65	
	7	9	2.05	2.05	2.05	2.05	2.64	2.64	-	-	14.36	5.35	
	7	9	1.82	1.82	1.82	1.82	6.24	-	-	15.33	5.89		
	7	9	1.96	1.96	1.96	1.96	1.96	5.05	-	-	14.87	5.90	
	7	9	2.05	2.05	2.05	2.05	4.10	-	-	14.35	5.35		
	7	9	2.05	2.05	2.05	2.05	2.05	3.52	-	-	13.77	5.05	
	7	9	2.05	2.05	2.05	2.05	2.05	2.64	-	-	12.89	4.57	
	7	9	2.05	2.05	2.05	2.05	2.05	2.05	-	-	12.30	4.24	
	7	9	1.78	2.30	2.30	2.30	2.30	2.30	2.30	-	15.57	5.88	
	7	9	1.77	1.77	2.28	2.28	2.28	3.04	-	-	15.69	5.87	
	7	9	1.82	1.82	2.34	2.34	2.34	2.34	-	-	15.34	5.89	
	7	9	1.77	1.77	2.28	2.28	2.28	3.54	-	-	15.69	5.87	
	7	9	1.80	1.80	1.80	2.32	2.32	2.32	3.09	-	15.45	5.89	
	7	9	1.91	1.91	1.91	2.46	2.46	2.46	2.46	-	15.55	5.90	
	7	9	1.79	1.79	1.79	1.79	2.30	3.07	3.07	-	15.57	5.88	
	7	9	1.80	1.80	1.80	1.80	2.32	3.60	3.60	-	15.45	5.89	
	7	9	1.83	1.83	1.83	1.83	2.36	3.15	-	-	15.21	5.90	
	7	9	1.93	1.93	1.93	2.49	2.49	2.49	-	-	15.21	5.90	
	7	9	1.79	1.79	1.79	1.79	3.07	3.57	-	-	15.57	5.88	
	7	9	1.82	1.82	1.82	1.82	3.12	3.12	-	-	15.33	5.89	
	7	9	1.77	1.77	1.77	1.77	2.28	4.55	-	-	15.68	5.87	
	7	9	1.84	1.84	1.84	1.84	2.36	3.67	-	-	15.21	5.90	
	7	9	1.92	1.92	1.92	1.92	2.47	3.30	-	-	15.38	5.90	
	7	9	1.96	1.96	1.96	1.96	2.53	2.53	-	-	14.87	5.90	
	7	9	1.80	1.80	1.80	1.80	1.80	4.63	-	-	15.45	5.89	
	7	9	1.92	1.92	1.92	1.92	1.92	3.84	-	-	15.37	5.90	
	7	9	1.95	1.95	1.95	1.95	1.95	3.35	-	-	15.05	5.90	
	7	9	1.91	1.91	1.91	1.91	2.46	2.46	4.90	-	15.54	5.90	
	7	9	1.96	1.96	1.96	1.96	1.96	3.93	-	-	14.87	5.90	
	7	9	2.05	2.05	2.05	2.05	2.64	2.64	3.52	-	14.95	5.65	
	7	9	2.05	2.05	2.05	2.05	2.64	2.64	2.64	-	14.07	5.20	
	7	9	1.80	1.80	1.80	1.80	3.60	4.63	-	-	15.45	5.89	
	7	9	1.92	1.92	1.92	1.92	3.84	3.84	-	-	15.37	5.90	
	7	9	1.84	1.84	1.84	1.84	3.15	4.72	-	-	15.21	5.90	
	7	9	1.95	1.95	1.95	1.95	3.35	3.90	-	-	15.04	5.90	
	7	9	2.05	2.05	2.05	2.05	3.52	3.52	-	-	15.24	5.79	
	7	9	1.79	1.79	1.79	1.79	2.30	6.12	-	-	15.57	5.88	
	7	9	1.93	1.93	1.93	1.93	2.49	4.97	-	-	15.21	5.90	
	7	9	2.05</										

# 8-unit Multi-split Combination Table-Heating

## 8-unit Multi-split heating

AOYG45LBT8	Combination of Indoor Units								Heating Operation									
									Heating Capacity								Total	Input power
									Unit 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 6	Unit 7	Unit 8		
								kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW
4-unit connection	7	7	14	18	-	-	-	-	2.37	2.37	4.80	5.86	-	-	-	-	15.40	4.75
	7	7	14	14	-	-	-	-	2.37	2.37	4.80	4.80	-	-	-	-	14.34	4.21
	7	7	12	24	-	-	-	-	2.36	2.36	3.94	7.87	-	-	-	-	16.53	5.11
	7	7	12	18	-	-	-	-	2.37	2.37	3.96	5.86	-	-	-	-	14.56	4.46
	7	7	12	14	-	-	-	-	2.37	2.37	3.96	4.80	-	-	-	-	13.50	4.00
	7	7	9	24	-	-	-	-	2.37	2.37	2.99	7.91	-	-	-	-	15.64	4.91
	7	7	9	18	-	-	-	-	2.37	2.37	2.99	5.86	-	-	-	-	13.59	4.10
	7	7	7	24	-	-	-	-	2.37	2.37	2.37	7.81	-	-	-	-	15.02	4.60
	7	7	7	18	-	-	-	-	2.37	2.37	2.37	5.86	-	-	-	-	12.97	3.90
	7	7	12	12	14	-	-	-	3.51	3.51	3.51	3.51	4.26	-	-	-	18.32	5.98
	7	7	12	12	12	-	-	-	3.58	3.58	3.58	3.58	3.58	-	-	-	17.90	5.98
	7	7	12	14	14	-	-	-	2.66	3.52	3.52	4.27	4.27	-	-	-	18.26	5.98
7	7	12	14	14	-	-	-	2.71	3.59	3.59	3.59	4.35	-	-	-	17.84	5.98	
7	7	12	12	12	-	-	-	2.85	3.77	3.77	3.77	3.77	-	-	-	17.95	5.87	
7	7	9	14	14	-	-	-	2.67	2.67	4.28	4.28	4.28	-	-	-	18.19	5.98	
7	7	9	14	18	-	-	-	2.66	2.66	3.52	4.26	5.21	-	-	-	18.30	5.98	
7	7	9	12	14	-	-	-	2.72	3.60	4.37	4.37	4.37	-	-	-	17.77	5.98	
7	7	9	12	18	-	-	-	2.71	2.71	3.58	3.58	5.30	-	-	-	17.88	5.98	
7	7	9	12	14	-	-	-	2.86	2.86	3.78	3.78	4.58	-	-	-	17.86	5.70	
7	7	9	12	12	-	-	-	2.89	2.89	3.83	3.83	3.83	-	-	-	17.28	5.43	
7	7	9	9	14	18	-	-	2.71	2.71	4.36	5.32	-	-	-	-	17.82	5.98	
7	7	9	9	14	14	-	-	2.86	2.86	2.86	4.59	4.59	-	-	-	17.77	5.56	
7	7	9	9	12	18	-	-	2.85	2.85	2.85	3.78	5.59	-	-	-	17.92	5.87	
7	7	9	9	12	14	-	-	2.90	2.90	2.90	3.84	4.65	-	-	-	17.19	5.32	
7	7	9	9	12	12	-	-	2.97	2.97	3.93	3.93	3.93	-	-	-	16.78	5.16	
7	7	9	9	9	24	-	-	2.70	2.70	2.70	2.70	7.14	-	-	-	17.94	5.98	
7	7	9	9	9	18	-	-	2.89	2.89	2.89	2.89	5.67	-	-	-	17.25	5.43	
7	7	9	9	9	14	-	-	2.97	2.97	2.97	2.97	4.77	-	-	-	16.67	5.11	
7	7	9	9	9	12	-	-	2.99	2.99	2.99	2.99	3.96	-	-	-	15.92	5.07	
7	7	9	9	9	9	-	-	2.99	2.99	2.99	2.99	2.99	-	-	-	14.95	4.60	
7	7	12	14	14	14	-	-	2.10	3.51	4.25	4.25	4.25	-	-	-	18.37	5.98	
7	7	12	14	14	14	-	-	2.14	3.57	3.57	4.33	4.33	-	-	-	17.95	5.98	
7	7	12	12	18	-	-	-	2.13	3.56	3.56	3.56	5.26	-	-	-	18.06	5.98	
7	7	12	12	14	-	-	-	2.25	3.76	3.76	3.76	4.56	-	-	-	18.10	5.87	
7	7	12	12	12	-	-	-	2.28	3.81	3.81	3.81	4.57	-	-	-	17.52	5.56	
7	7	9	14	14	18	-	-	2.09	2.64	4.24	4.24	5.18	-	-	-	18.40	5.98	
7	7	9	14	14	14	-	-	2.14	2.71	4.34	4.34	4.34	-	-	-	17.88	5.98	
7	7	9	12	14	18	-	-	2.13	2.69	3.57	4.32	5.28	-	-	-	17.99	5.98	
7	7	9	12	14	14	-	-	2.26	2.85	3.77	4.57	5.28	-	-	-	18.01	5.70	
7	7	9	12	18	-	-	-	2.25	2.84	3.76	3.76	5.56	-	-	-	18.16	5.98	
7	7	9	12	14	14	-	-	2.28	2.88	3.82	3.82	4.63	-	-	-	17.43	5.43	
7	7	9	12	12	-	-	-	2.35	2.96	3.92	3.92	3.92	-	-	-	17.09	5.23	
7	7	9	9	18	-	-	-	2.13	2.69	4.57	5.27	5.27	-	-	-	18.04	5.98	
7	7	9	9	14	18	-	-	2.25	2.84	3.66	4.56	5.57	-	-	-	18.07	5.87	
7	7	9	9	14	14	-	-	2.29	2.89	2.89	4.64	4.64	-	-	-	17.34	5.32	
7	7	9	9	12	24	-	-	2.12	2.68	2.68	3.55	7.08	-	-	-	18.11	5.98	
7	7	9	9	12	18	-	-	2.28	2.88	2.88	3.81	5.64	-	-	-	17.49	5.56	
7	7	9	9	12	14	-	-	2.35	2.97	4.76	4.76	4.76	-	-	-	16.97	5.16	
7	7	9	9	12	12	-	-	2.37	2.98	2.98	3.95	3.95	-	-	-	16.24	5.08	
7	7	9	9	9	24	-	-	2.17	2.74	2.74	2.74	7.24	-	-	-	17.63	5.98	
7	7	9	9	9	18	-	-	2.35	2.96	2.96	2.96	5.81	-	-	-	17.05	5.23	
7	7	9	9	9	14	-	-	2.37	2.99	2.99	2.99	4.79	-	-	-	16.12	5.07	
7	7	9	9	9	12	-	-	2.37	2.99	2.99	2.99	3.96	-	-	-	15.30	4.75	
7	7	9	9	9	9	-	-	2.37	2.99	2.99	2.99	2.99	-	-	-	14.33	4.33	
7	7	14	14	18	-	-	-	2.12	2.12	4.30	4.30	5.25	-	-	-	18.10	5.98	
7	7	14	14	14	-	-	-	2.25	2.25	4.55	4.55	4.55	-	-	-	18.16	5.70	
7	7	12	18	18	-	-	-	2.11	2.11	3.53	5.23	5.23	-	-	-	18.21	5.98	
7	7	12	14	18	-	-	-	2.16	2.16	3.62	4.38	5.35	-	-	-	17.68	5.98	
7	7	12	14	14	-	-	-	2.28	2.28	3.80	4.61	4.61	-	-	-	17.58	5.43	
7	7	12	12	24	-	-	-	2.11	2.11	3.52	3.52	7.03	-	-	-	18.29	5.98	
7	7	12	12	14	-	-	-	2.35	2.35	3.92	3.92	4.75	-	-	-	17.28	5.23	
7	7	12	12	12	-	-	-	2.36	2.36	3.94	3.94	4.74	-	-	-	16.54	5.11	
7	7	9	18	18	-	-	-	2.16	2.16	2.72	5.34	5.34	-	-	-	17.73	5.98	
7	7	9	14	24	-	-	-	2.11	2.11	2.67	4.28	7.05	-	-	-	18.22	5.98	
7	7	9	14	18	-	-	-	2.27	2.27	2.87	4.61	5.62	-	-	-	17.64	5.56	
7	7	9	14	14	-	-	-	2.35	2.35	2.96	4.75	4.75	-	-	-	17.16	5.16	
7	7	9	12	24	-	-	-	2.15	2.15	2.72	3.60	7.18	-	-	-	17.80	5.98	
7	7	9	12	18	-	-	-	2.34	2.34	2.96	3.92	5.80	-	-	-	17.36	5.32	
7	7	9	12	14	-	-	-	2.36	2.36	2.98	3.95	4.78	-	-	-	16.43	5.08	
7	7	9	12	12	-	-	-	2.37	2.37	2.97	3.96	3.96	-	-	-	15.65	4.91	
7	7	9	9	24	-	-	-	2.27	2.27	2.86	3.76	7.56	-	-	-	17.81	5.70	
7	7	9	9	18	-	-	-	2.36	2.36	2.98	2.98	5.83	-	-	-	16.51	5.11	
7	7	9	9	14	-	-	-	2.37	2.37	2.99	2.99	4.80	-	-	-	15.52	4.75	
7	7	9	9	12	-	-	-	2.37	2.37	2.99	2.99	3.96	-	-	-	14.68	4.46	
7	7	9	9	9	-	-	-	2.37	2.37	2.99	2.99	2.99	-	-	-	13.71	4.10	
7	7	7	18	18	-	-	-	2.26	2.26	2.26	5.58	5.58	-	-	-	17.95	5.87	
7	7	7	14	24	-	-	-	2.14	2.14	2.14	4.34	7.15	-	-	-	17.91	5.98	
7	7	7	14	18	-	-	-	2.30	2.30	2.30	4.65	5.68	-	-	-	17.22	5.32	
7	7	7	14	14	-	-	-	2.36	2.36	2.36	4.77	4.77	-	-	-	16.62	5.08	
7	7	7	12	24	-	-	-	2.25	2.25	2.25	3.77	7.52	-	-	-	18.05	5.87	
7	7	7	12	18	-	-	-	2.35	2.35	2.35	3.93	5.82	-	-	-	16.81	5.16	
7	7	7	12	14	-	-	-	2.37	2.37	2.37	3.96	4.80	-	-	-	15.87	4.91	
7	7	7	12	12	-	-	-	2.37	2.37	2.37	3.96	3.96	-	-	-	15.03	4.60	
7	7	7	9	24	-	-	-	2.29	2.29	2.29	2.89	7.63	-	-	-	17.38	5.43	
7	7	7	9	18	-	-	-	2.37	2.37	2.37	2.99	5.86	-	-	-	15.96	5.07	
7	7	7	9	14	-	-	-	2.37	2.37	2.37	2.99	4.80	-	-	-	14.90	4.46	
7	7	7	9	12	-	-	-	2.37	2.37	2.37	2.99	3.96	-	-	-	14.06	4.21	
7	7	7	9	9	-	-	-	2.37	2.37	2.37	2.99	2.99	-	-	-	13.09	3.90	
7	7	7	7															

# Feature Summary

Type	Wall-mounted type								Cassette		Cassette						Duct			Floor		Floor/Ceiling	Ceiling	
	Designer Series		Standard Series		Designer Series	Standard Series		Compact 4-way Flow Grid type Series	Compact 4-way Flow Series	4-way Flow Series	Mini (With drain pump)		Slim (With drain pump)		Medium Static Pressure									
Series	ASYG 07/09/12/14 KGTE	ASYG 07/09/12/14 KETE, ASYG 07/09/12/14 KETE-B	ASYG 07/09/12/14 KMCE	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	AUYG 07/09/12/14/18/22/24 LVLB, AUYG 22/24LVLA	AUYG 07/09/12/14/18/22/24 LRLA, 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 22/24/36/45 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			
Refrigerant	R32		R32	R32	R32	R410A		R32	R410A		R32	R410A	R32	R410A	R32	R410A	R32	R410A	R410A	R410A	R410A	R410A		
Energy-saving Features	Save Human sensor	●																						
	Economy mode	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	Setting temperature range limitation	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
	Set temperature auto return	○	○	○	○	○	○	○	●	○	○	●	●	○	○	○	○	○	○	○	○			
Features for Comfort	Power diffuser						●	●																
	Powerful mode																●							
	10°C Heat	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	●	●	●	○	●			
	Low noise mode															○ (45) (36/LMLA)	●			○ (45/54) (36/LRTE)				
	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		○	○	○	○	○	○	○	○	○	○	●	●	○	○	○	○	○	○	○	○			
Wireless LAN control		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
Clean Features		Ion deodorization filter	○	○	○	●	●	●	●									●	●					
	Apple-catechin filter	○	○	○	●	●	●	●									●	●						
	Long-life filter														○	○	●	●						
	Washable panel				●	●	●																	
Installation	Silver Ion Filter	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○			
	Drain pump as standard							●	●	●	●	●	●	●	○	○				○	○			
	Blue fin						● (30)		● (45/54)						● (45)					● (45)				

○ : Optional function

## Light Commercial & Commercial, Residential VRF

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

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

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

### VRF Outdoor Units



#### AIRSTAGE™ J Series Heat Pump for Small-Capacity Type

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



#### AIRSTAGE™ V Series Heat Recovery Modular Type

V-036 AIRSTAGE™ VR-IV

#### Heat Pump Modular Type

V-046 AIRSTAGE™ V-IV

### VRF INDOOR UNITS

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

# AIRSTAGE™

## VRF

Light Commercial  
& Commercial,  
Residential



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

FUJITSU GENERAL LIMITED

# AIRSTAGE™ 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 AIRSTAGE™ 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 30-42 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.

## Maximum 6 HP Heat Pump AIRSTAGE™ J-IV

J-IV is connectable with up to 13 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 AIRSTAGE™ 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.



8-12 HP models

14/16/18 HP models

# AIRSTAGE™ V Series Overview

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



## Maximum 48 HP Heat Recovery AIRSTAGE™ 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 AIRSTAGE™ 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

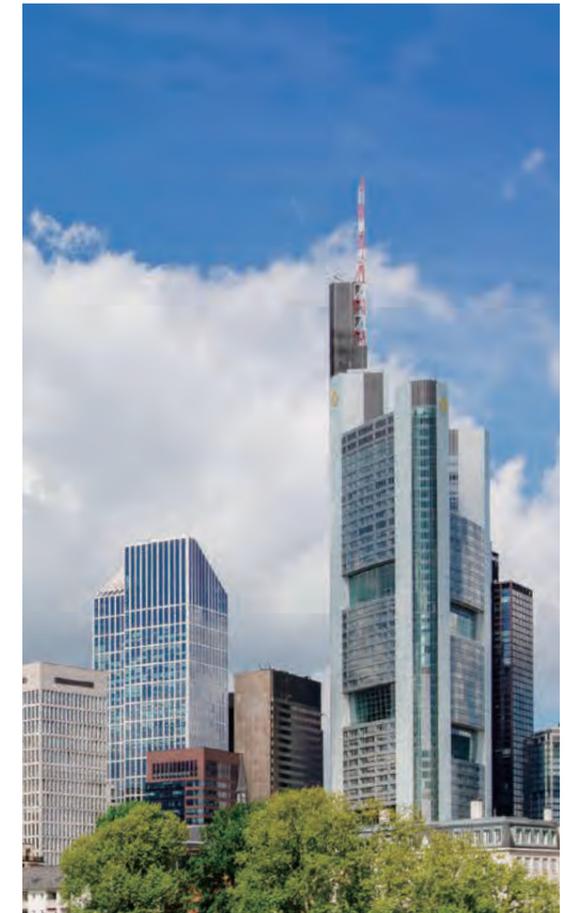
The inverter heat pump model achieves high energy savings for individual cooling or heating operation by making full use of inverter technology to achieve seasonal efficiency.

### 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	67.0	73.5	78.5	85.0	90.0	95.0	100.5	107.0	112.0	118.5	123.5	130.0	135.0	
HP		4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	
J-IVL Series	Space Saving																									
	Set Model				AJY072 LELDH	AJY090 LELDH	AJY108 LELDH	AJY126 LELDH	AJY144 LELDH	AJY162 LELDH																
J-IV Series	Space Saving																									
	Set Model	AJY040 LBLDH, AJY040 LELDH	AJY045 LBLDH, AJY045 LELDH	AJY054 LBLDH, AJY054 LELDH																						
J-IVS Series	Space Saving																									
	Set Model	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	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	
	Energy Efficiency																									
	Set Model							AJY144 GALDHH	AJY198 GALDHH	AJY216 GALDHH	AJY234 GALDHH	AJY252 GALDHH	AJY270 GALDHH	AJY288 GALDHH	AJY306 GALDHH	AJY324 GALDHH	AJY342 GALDHH	AJY360 GALDHH	AJY378 GALDHH	AJY396 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	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	
	Energy Efficiency																									
	Set Model							AJY144 LALDHH	AJY180 LALDHH	AJY216 LALDHH	AJY234 LALDHH	AJY252 LALDHH	AJY270 LALDHH	AJY288 LALDHH	AJY306 LALDHH	AJY324 LALDHH	AJY342 LALDHH	AJY360 LALDHH	AJY378 LALDHH	AJY396 LALDHH						



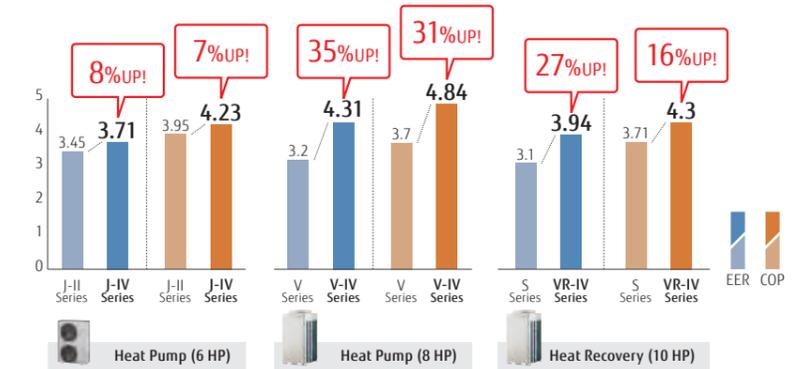
# Features

## 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



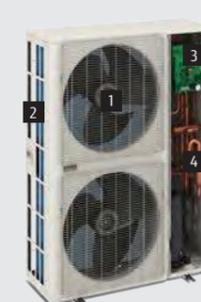
\* These specifications are determined by ducted combination.

### 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



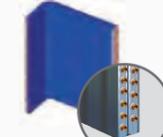
J-IV Series



J-IVS Series



V Series

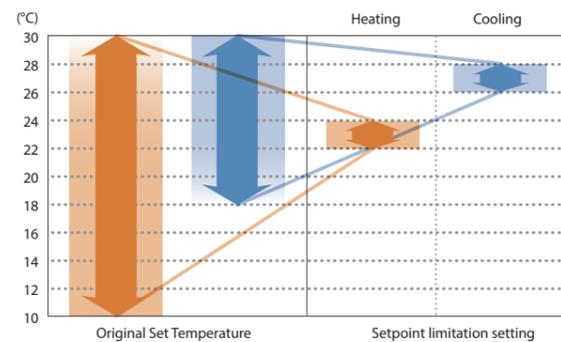
 <b>1</b> DC fan motor	 <b>3</b> DC inverter control
 <b>2</b> Large heat exchanger	 <b>4</b> Subcool heat exchanger

 <b>1</b> 3-phase DC fan motor	 <b>3</b> Sine-wave DC inverter control
 <b>2</b> Large heat exchanger	 <b>4</b> Subcooling heat exchanger

## Efficient control of operation

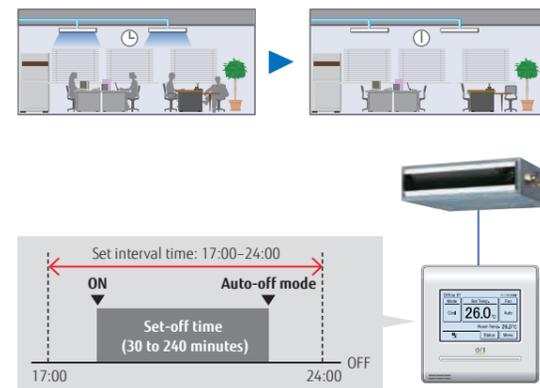
### Setting temperature range limitation

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



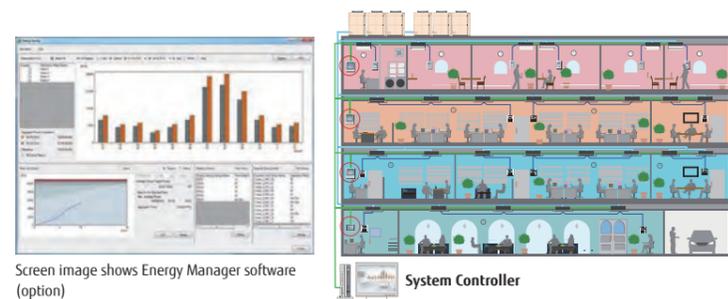
### Auto-off timer

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.



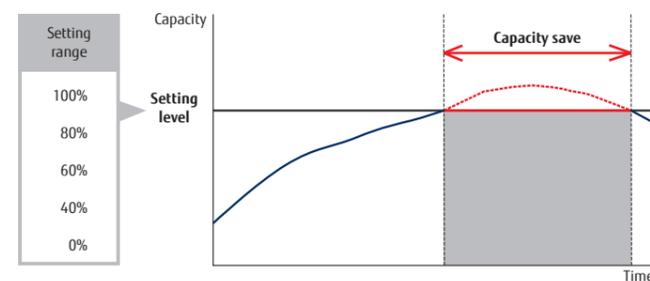
### Energy-saving management

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.



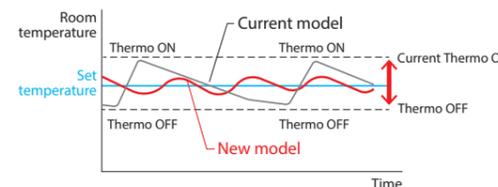
### Capacity-saving mode

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.



### 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.

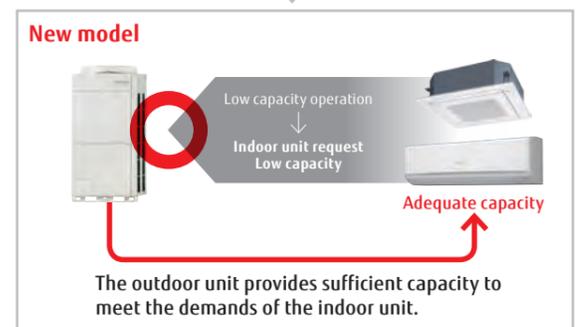
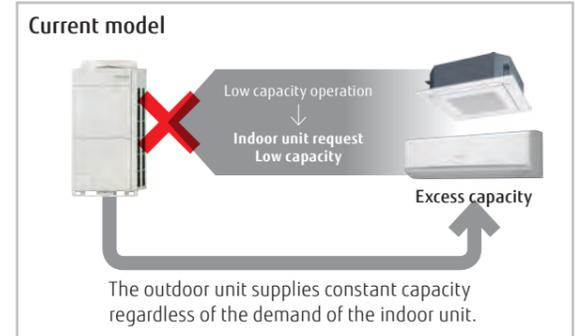


#### Current refrigerant control

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.



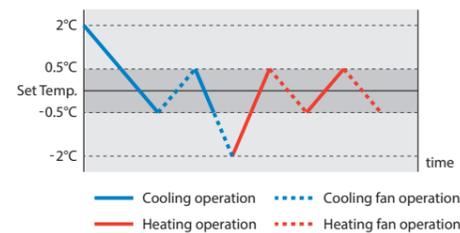
\* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

# More Comfort



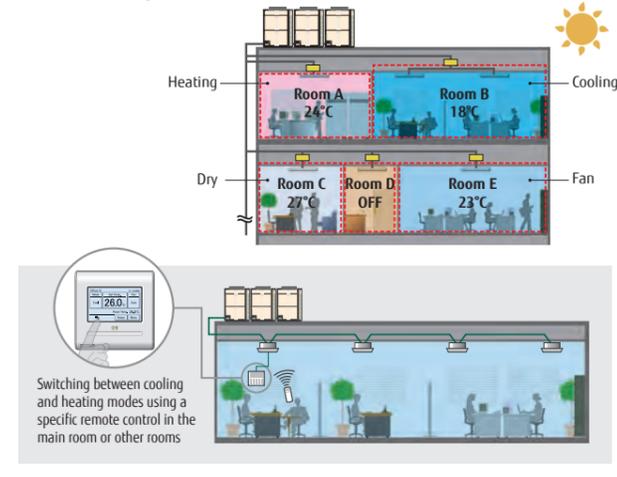
## Auto changeover

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



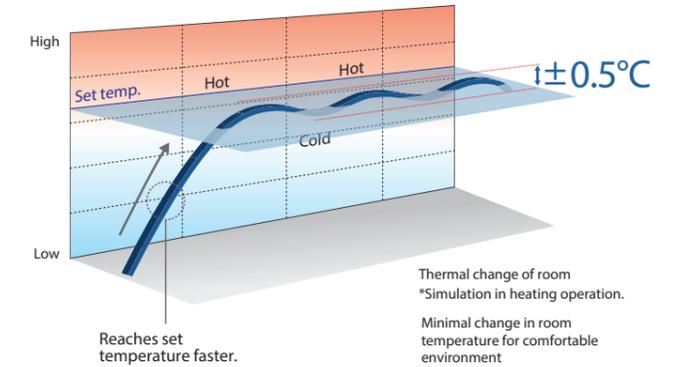
Auto changeover settings enable the indoor unit to easily switch between cooling and heating regardless of the operating mode of other indoor units. These settings can be made using a wired remote controller for a specific indoor unit. Provides a comfortable environment all year round.

## Automatic cooling/heating operation for each room is possible



## Precise control of refrigerant flow

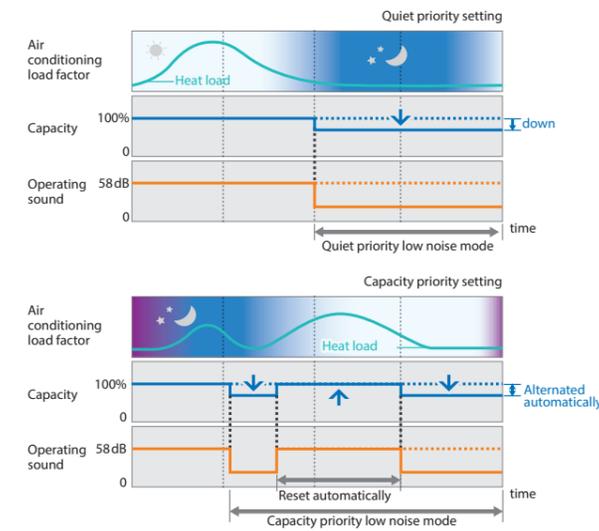
The combination of DC inverter control and individual control of electronic expansion valves of an indoor unit enables precise and smooth control of the refrigerant flow. This means the room temperature can be set in increments of 0.5°C.



## Quiet operation

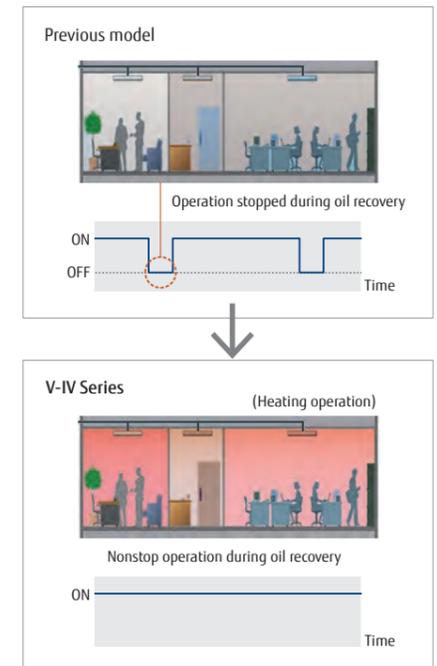
### Quiet operation

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

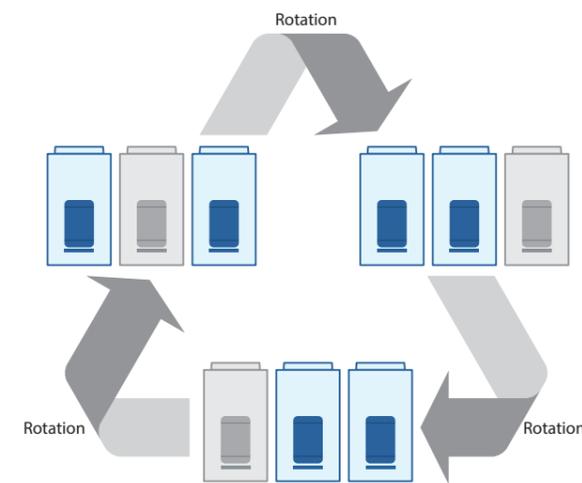
Small-capacity indoor units meet a variety of applications. Super low noise operations offer greater audibility comfort. In particular, the wall-mounted (external EEV) type has a noise level of only 19 dB(A) during low mode heating operation.



# High Reliability

## Outdoor unit rotation

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

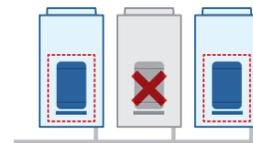


The start and stop timings are alternated among connected compressors.

## Backup operation

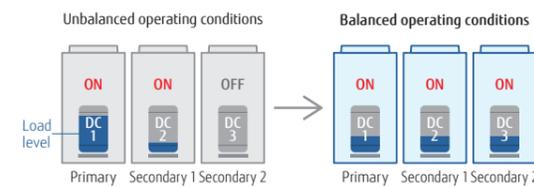
If one compressor fails, the other compressors will initiate backup operation\*.

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



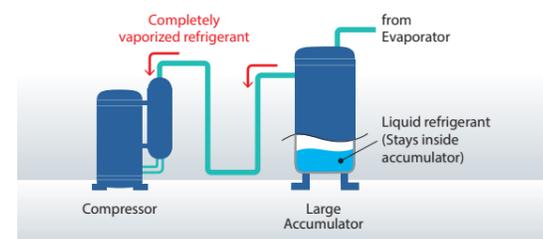
## Advanced refrigerant control

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



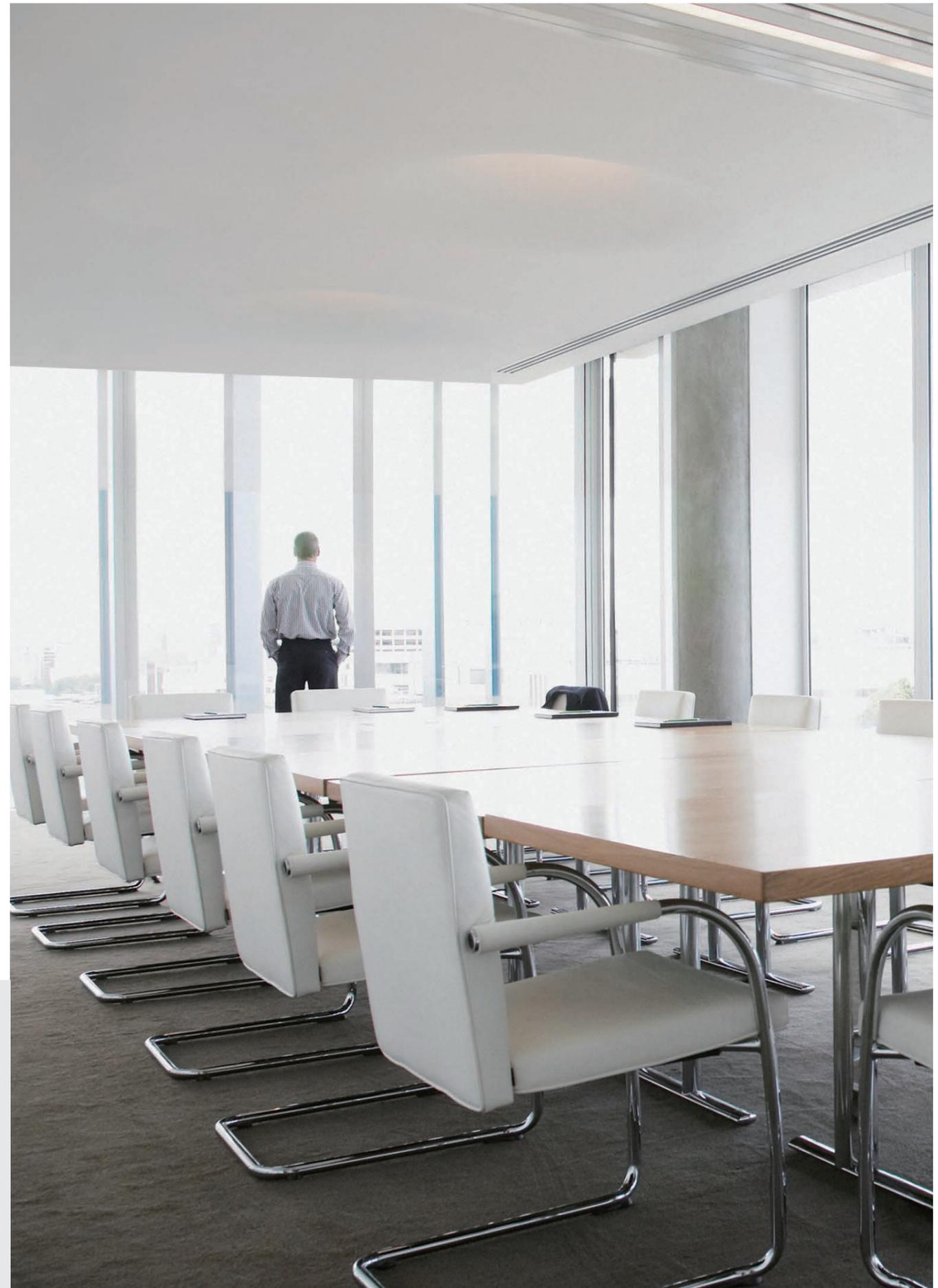
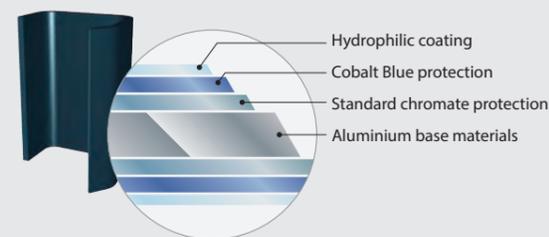
## Protection against liquid flowback

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

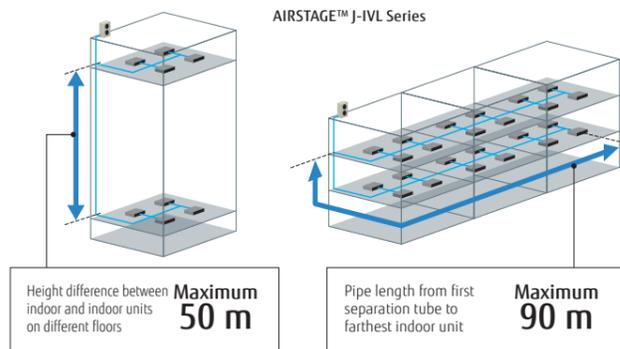
## Class-leading compact design

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



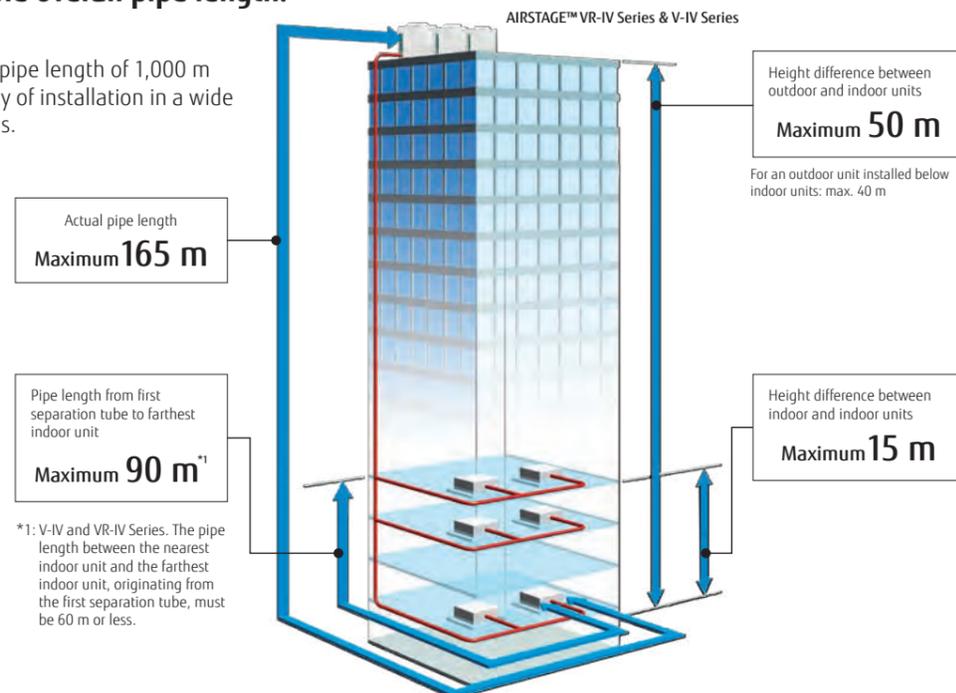
## Long pipe design

Pipe design suitable for long and narrow office buildings with elevation differences and low-rise stores with long distances (AIRSTAGE™ 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.



<sup>\*1</sup>: V-IV and VR-IV Series. The pipe length between the nearest indoor unit and the farthest indoor unit, originating from the first separation tube, must be 60 m or less.

## High-capacity connection

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

<sup>\*2</sup>: Conditions for the maximum capacity ratio of connectable indoor units are shown in the chart above.  
<sup>\*3</sup>: The maximum capacity of the combination that includes the 18-HP outdoor unit is below 150%.  
<sup>\*4</sup>: J-IVL Series 18-HP model only.  
<sup>\*5</sup>: J-IVL Series 12-HP model only.  
<sup>\*6</sup>: J-IV Series 6-HP model only.  
<sup>\*7</sup>: For modular type, 25% to 49.9% operation in the entire system is available. (By one unit operation)

## 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 m<sup>2</sup>.



## 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

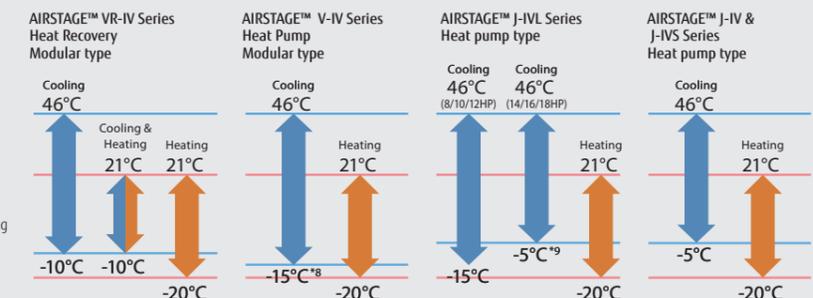
Our refrigeration cycle technology enables cooling operation even at -15°C.



## Wide operating temperature range

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

<sup>\*8</sup>: When multiple outdoor units are connected, their operating temperature range is from -5°C to 46°C in cooling.  
<sup>\*9</sup>: The operating range is -15°C to 46°C only for systems with all indoor units rated at 5.6 kW or more.

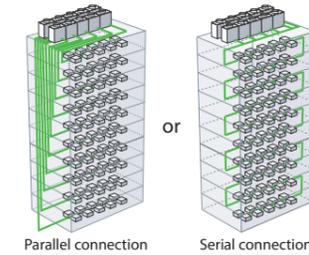


# Easy Installation



## 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.

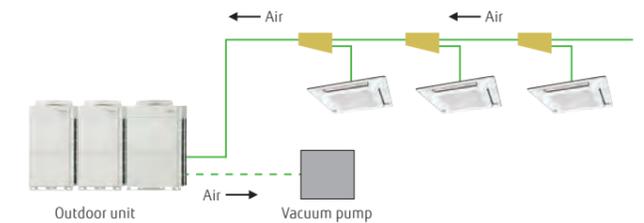


Maximum wiring length:  
**3,600 m**

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

## Vacuum mode function for easy evacuation

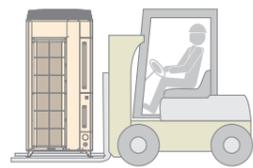
The vacuum mode function enables all expansion valves of an indoor unit to be opened fully, allowing for easier evacuation of air inside pipe lines and indoor units.



## Easily transported



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



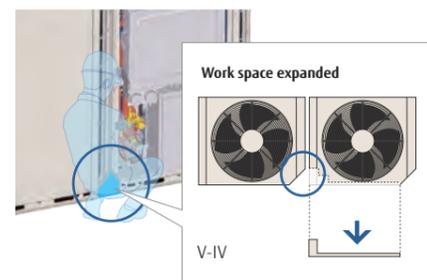
**Transportable by forklift**  
The outdoor unit can be lifted and transported by forklift.



**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

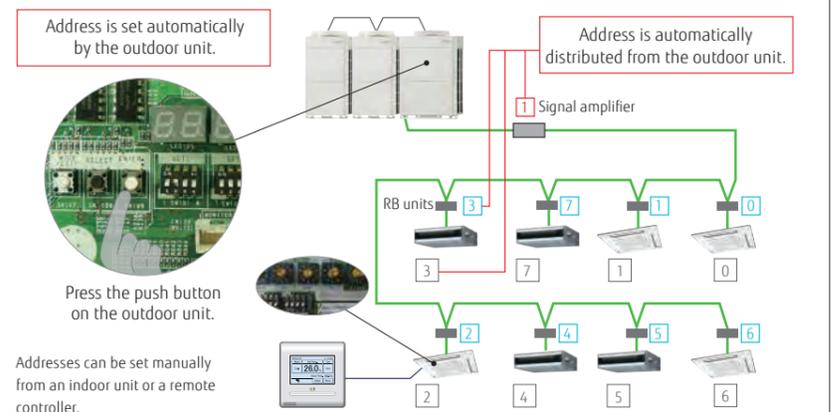
## Flexible pipe connection

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



## 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.



Addresses can be set manually from an indoor unit or a remote controller.

## Easy commissioning with Service Tool

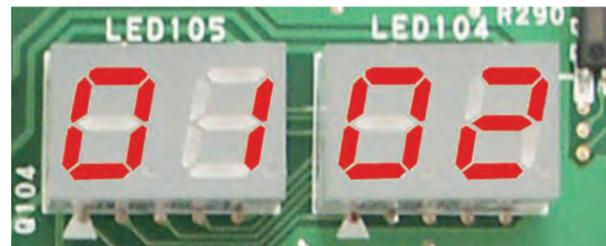
The Service Tool checks the refrigerant temperature and pressure, and the operating status of the electronic expansion valves, making it easy to determine if the units are connected properly.



# 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.

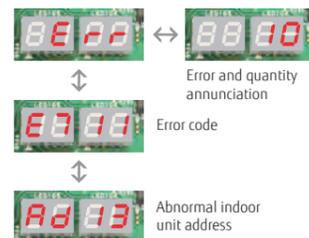


### Easy-to-read 7-segment indicator lamp

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

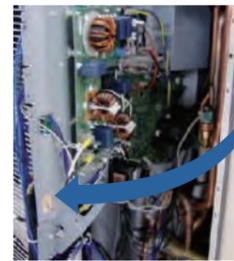
- System operation mode
- Discharge temperature and pressure
- Compressor operation status
- Address, type, and number of outdoor unit



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

### Movable PCB panel

Enables easier access behind the PCB for maintenance work.



### NEW Refrigerant cycle monitor

Wired Remote Controller (Touch Panel) will support to display some sensor values for maintenance and service support.

\* Wired remote controller (UTY-RNRYZ5) is required.  
\* This function is only supported by split units, using the H-Serial communication protocol! Example: ASYH30KMTB

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

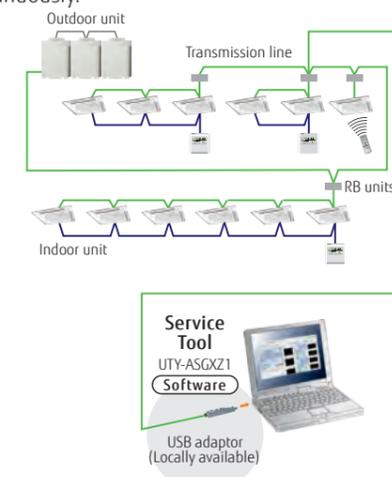
Error codes are displayed on an LCD screen.

Wired Remote controller	Simple Remote controller	Wired Remote Controller (Touch Panel)
<p>System number</p> <p>001: Controller</p> <p>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> <p>Error History</p> <p>Time</p> <p>Address</p> <p>Code</p> <p>Back</p> <p>Next Page</p> <p>Home</p>

## Error diagnosis by Service tool

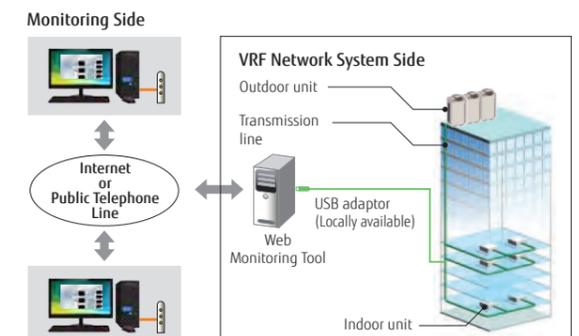
### Connection to Service tool

- 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.



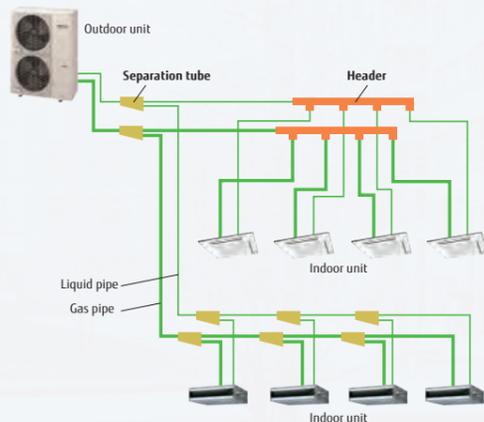
# Heat Pump

for Small-capacity type



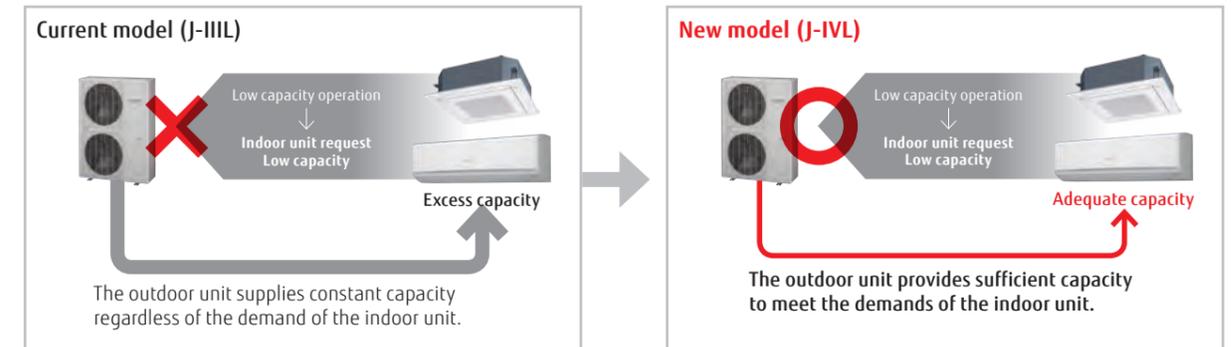
### System configuration example

- 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

**∅570 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 inverter control**  
The active filter module improves efficiency.

**Subcooling heat exchanger**  
The dual-tube heat exchanger improves cooling performance.

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

**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.

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



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.

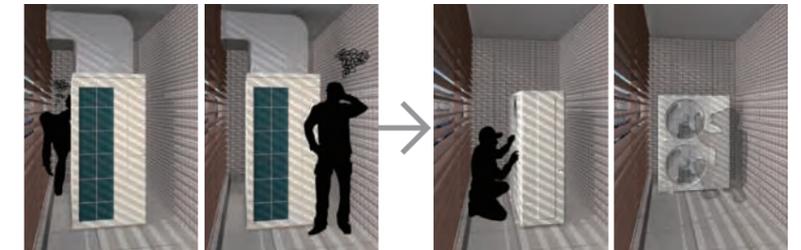
**AIRSTAGE™ J-IVL**

Image: 8/10/12 HP models

**Slim & Compact Design**



**Various installation methods**



AIRSTAGE™ V Series outdoor unit

AIRSTAGE™ 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.



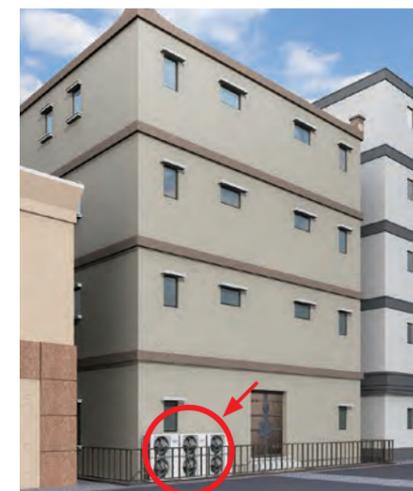
AIRSTAGE™ V Series outdoor unit

AIRSTAGE™ 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.



AIRSTAGE™ V Series outdoor unit

AIRSTAGE™ J Series outdoor unit

**Installation on the back street of a building**

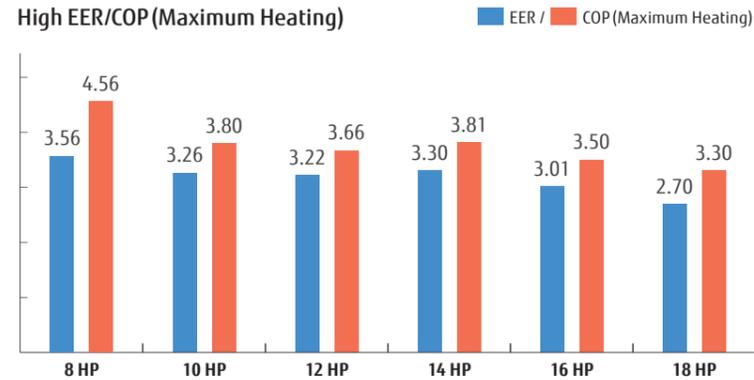
**Flexible installation**

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.

(Tentative)

### Efficiency in actual operating conditions

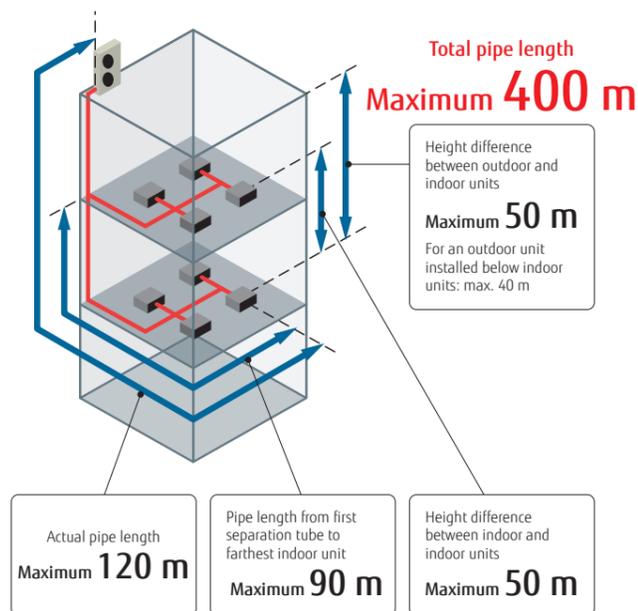
The use of a large heat exchanger and a high-efficiency Scroll compressor achieves class-leading EER/COP (Max. Heating) in all models.



\* These specifications are determined by cassette combination.

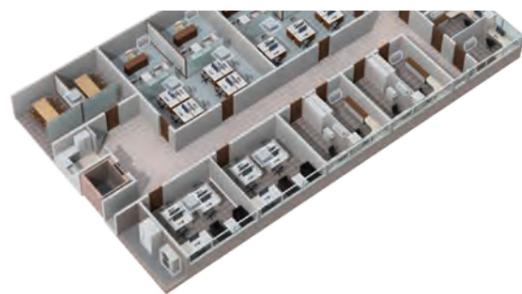
### Long pipe length

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



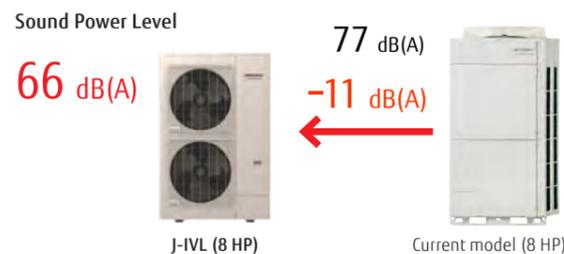
### Up to 42 indoor units\* can be connected.

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.



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



(Tentative)

### 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, ~400 V, 50 Hz					
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0
	Nominal Heating	kW	22.4	28.0	33.5	40.0	45.0	50.0
	Max. Heating	kW	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	kW	4.65	6.61	8.18	9.71	11.81	13.66
	Max. Heating	kW	5.45	8.29	10.25	11.80	14.29	16.66
EER	Cooling		3.56	3.26	3.22	3.30	3.01	2.70
COP	Nominal Heating	W/W	4.82	4.24	4.10	4.12	3.81	3.66
	Max. Heating	W/W	4.56	3.80	3.66	3.81	3.50	3.30
Airflow rate		m <sup>3</sup> /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	dB(A)	54/—	57/—	62/—	63/—	65/—	68/—
Net Dimensions	Height	mm	1,428	1,428	1,428	1,638	1,638	1,638
	Width	mm	1,080	1,080	1,080	1,080	1,080	1,080
	Depth	mm	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 <sub>2</sub> eq-T)	7.0 (14.6)	7.5 (15.7)	7.5 (15.7)	11.0 (22.9)	11.0 (22.9)	11.8 (24.6)
Connection pipe diameter	Liquid	mm	9.52	9.52	12.70	12.70	12.70	12.70
	Gas	mm	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	°C	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note: Specifications are based on the following conditions.

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

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

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

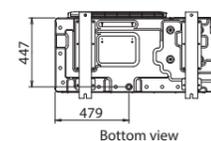
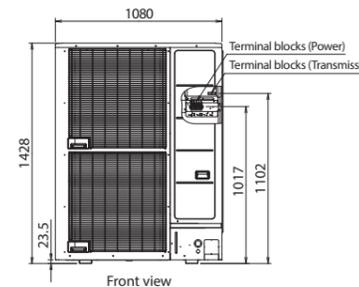
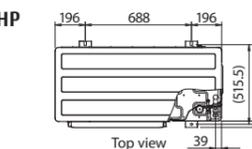
\* The cooling operating range of -15 to 46°C can be obtained only when all of the indoor units connected to the system have a capacity of 5.6 kW or higher.

\* These specifications are determined by cassette combination.

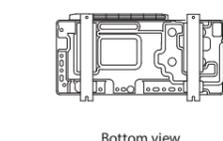
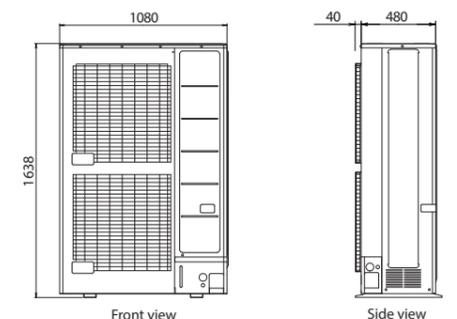
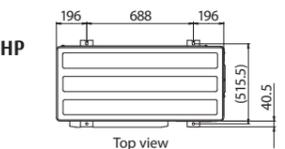
### Dimensions

(Unit: mm)

8, 10, 12 HP



14, 16, 18 HP



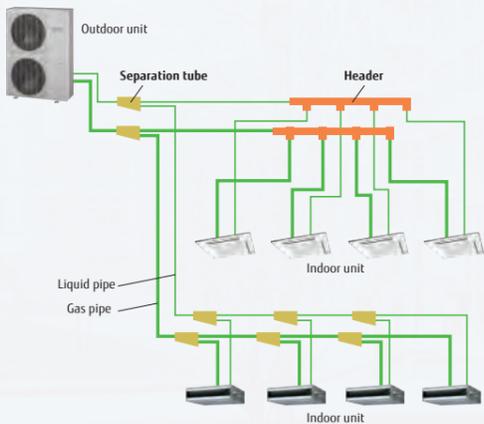
# Heat Pump

for Small-capacity type



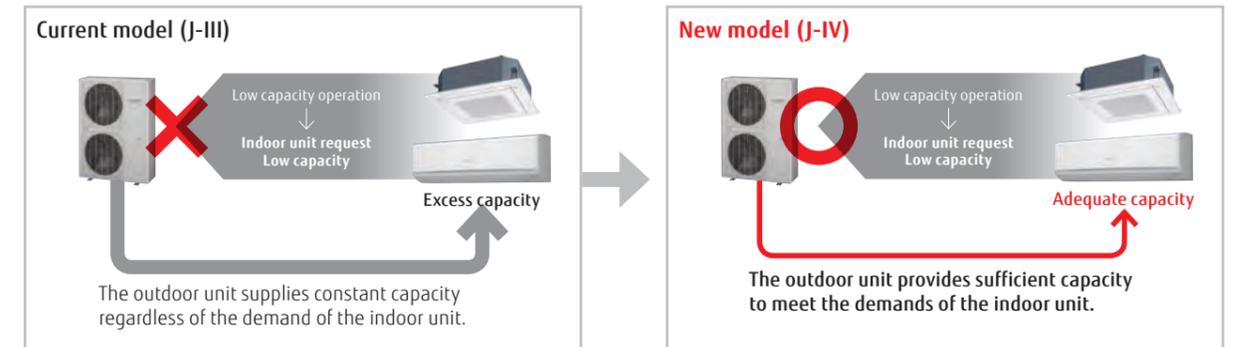
### System configuration example

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

**Subcooling heat exchanger**  
The dual-tube heat exchanger improves cooling performance.

**DC inverter control**  
The active filter module improves efficiency.

High-efficiency compressor motor  
Optimized refrigerant flow design  
Highly accurate parts

Pressure  
Enthalpy  
effect  
Cooling performance improved

High  
Compressor efficiency  
DC Twin-Rotary Compressor  
Compressor capacity High

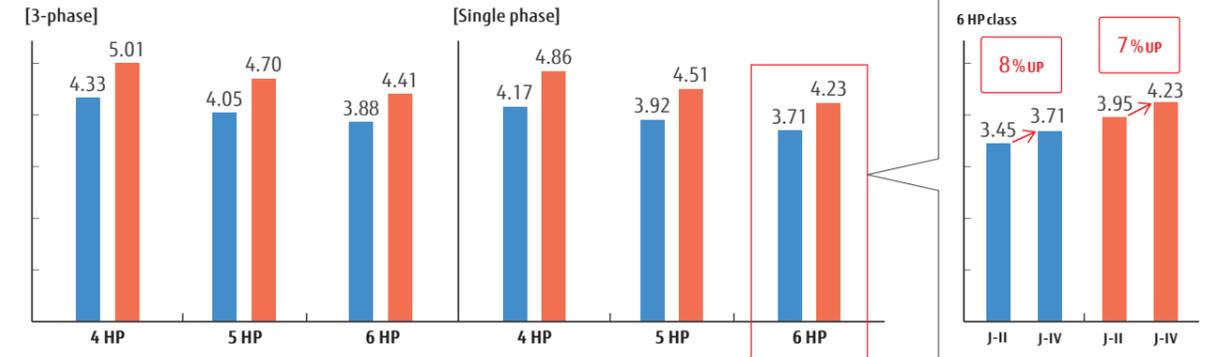
4,5,6HP: AJY040LBDH/AJY045LBDH/AJY054LBDH  
AJY040LELDH [3-phase]/AJY045LELDH [3-phase]/AJY054LELDH [3-phase]

(Tentative)

### 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)

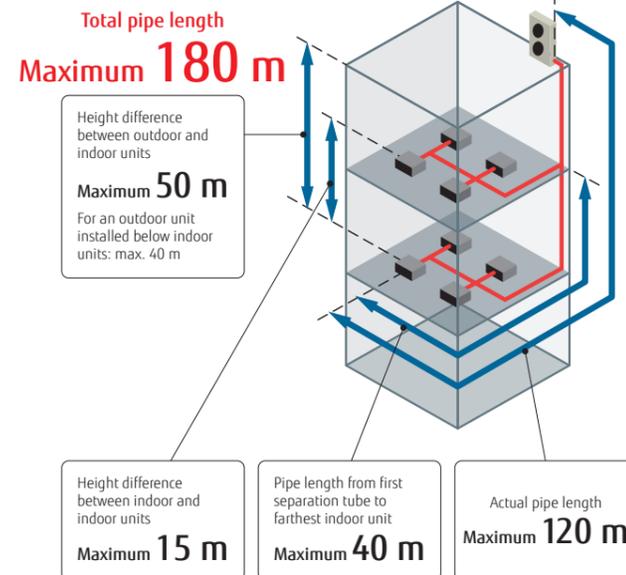


\* These specifications are determined by cassette combination.



### 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.



### Up to 14 indoor units\* can be connected

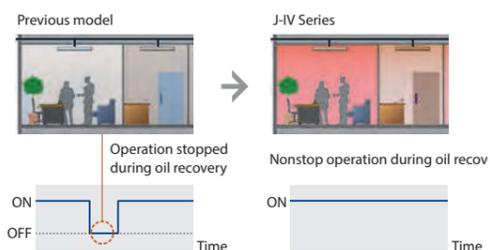
The combination of smaller but sufficiently powerful indoor units and outdoor units with an optimized heat exchanging structure makes it possible to connect up to 14 indoor units, which is the best in its class.

\*: 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

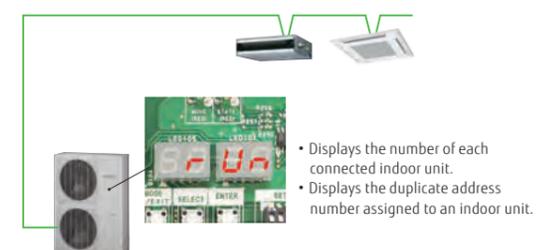
### Non-stop oil recovery operation

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.



### Specifications

		HP	4	5	6	(Tentative)		
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	2.90	3.57	4.18	2.79	3.46	3.99
	Nominal Heating		2.39	2.97	3.50	2.32	2.86	3.36
	Max. Heating		2.80	3.55	4.26	2.71	3.40	4.08
EER	Cooling		4.17	3.92	3.71	4.33	4.05	3.88
	Nominal Heating	W/W	5.06	4.71	4.43	5.21	4.90	4.61
	Max. Heating		4.86	4.51	4.23	5.01	4.70	4.41
COP	Cooling		4.17	3.92	3.71	4.33	4.05	3.88
	Nominal Heating		5.06	4.71	4.43	5.21	4.90	4.61
	Max. Heating		4.86	4.51	4.23	5.01	4.70	4.41
Airflow rate		m <sup>3</sup> /h	6,200	6,400	6,900	6,200	6,400	6,900
Sound pressure level/Power level	Cooling	dB(A)	50/65	51/65	53/66	50/65	51/65	53/66
	Heating		52/67	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)
Connection pipe diameter	Charge	kg (CO <sub>2</sub> 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)
	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52
Total pipe length	Gas	mm	15.88	15.88	19.05	15.88	15.88	19.05
	Max. height difference	m	180	180	180	180	180	180
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.

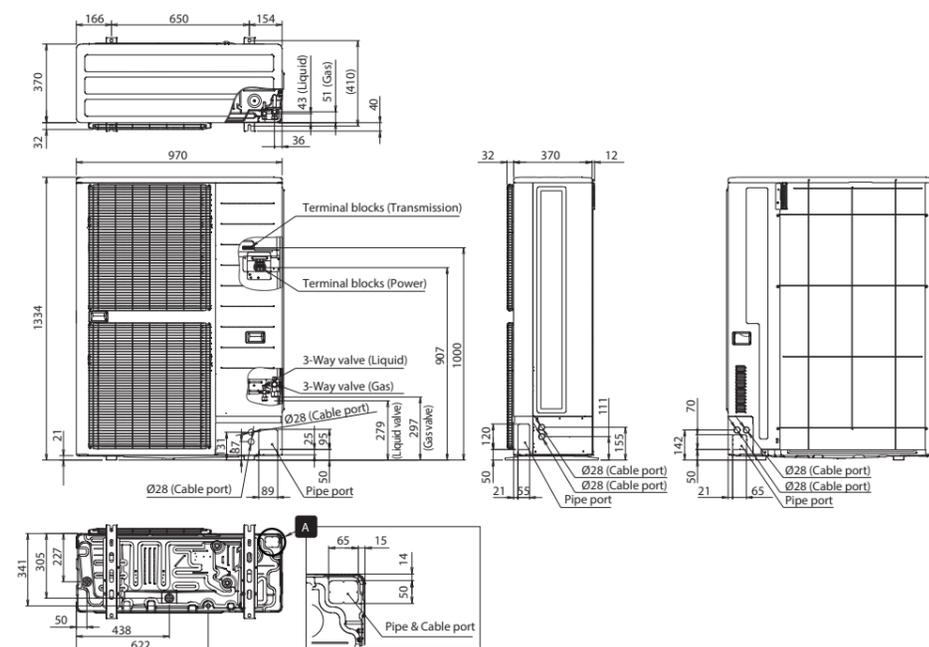
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.

Use outside the operating range may activate the protection function.

\* These specifications are determined by cassette combination.

### Dimensions

(Unit: mm)



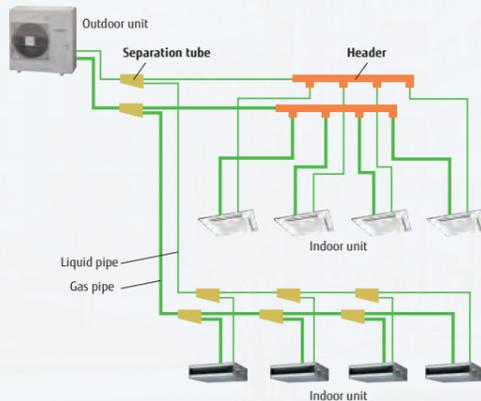
# Heat Pump

for Small-capacity type



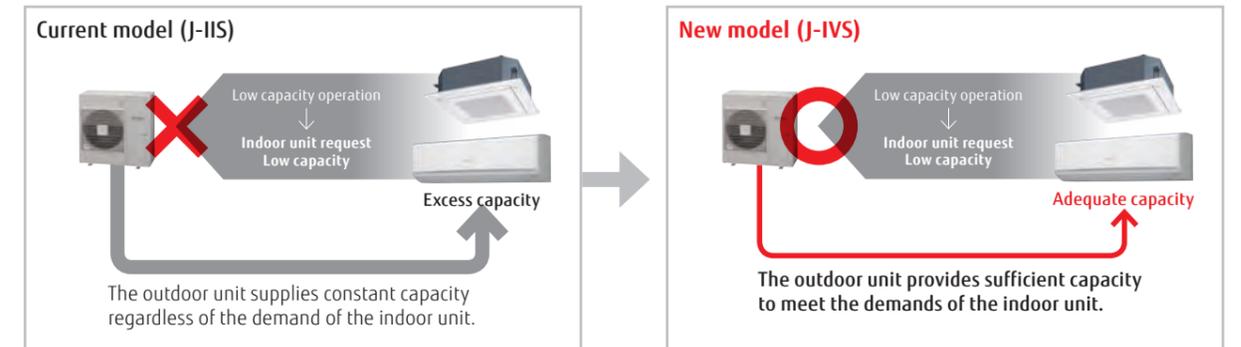
### System configuration example

- 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.

**Low noise rubber**  
**High-efficiency compressor motor**  
**Optimized refrigerant flow design**  
**Highly accurate parts**

**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.

**Smooth airflow grille**  
The aerodynamically designed grille provides excellent efficiency with little blow loss.

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

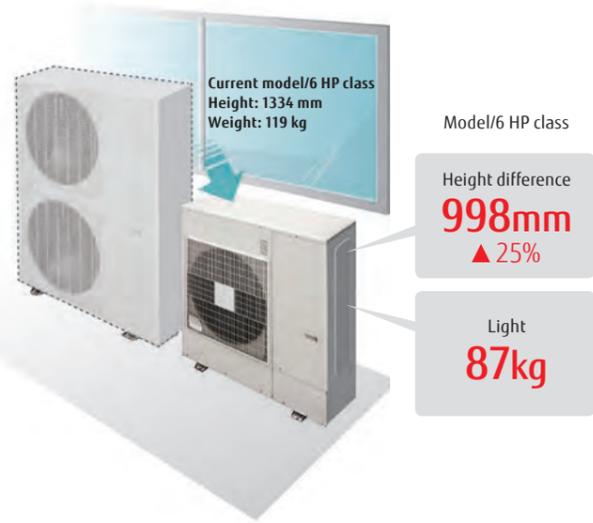
**High heat-transfer copper tube (Improved lead angle)**

V-032

V-033

(Tentative)

### 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.



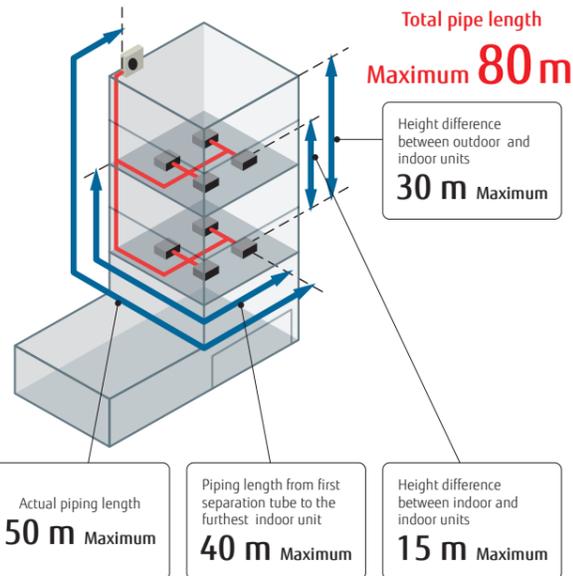
### Low noise design

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

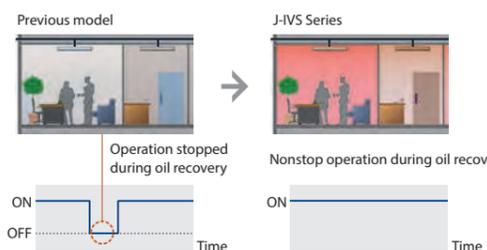
The combination of smaller but sufficiently powerful indoor units and a new outdoor unit with an optimized heat exchanging structure makes it possible to connect up to 13 indoor units, which is the best in its class.

\*: 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.

### Specifications

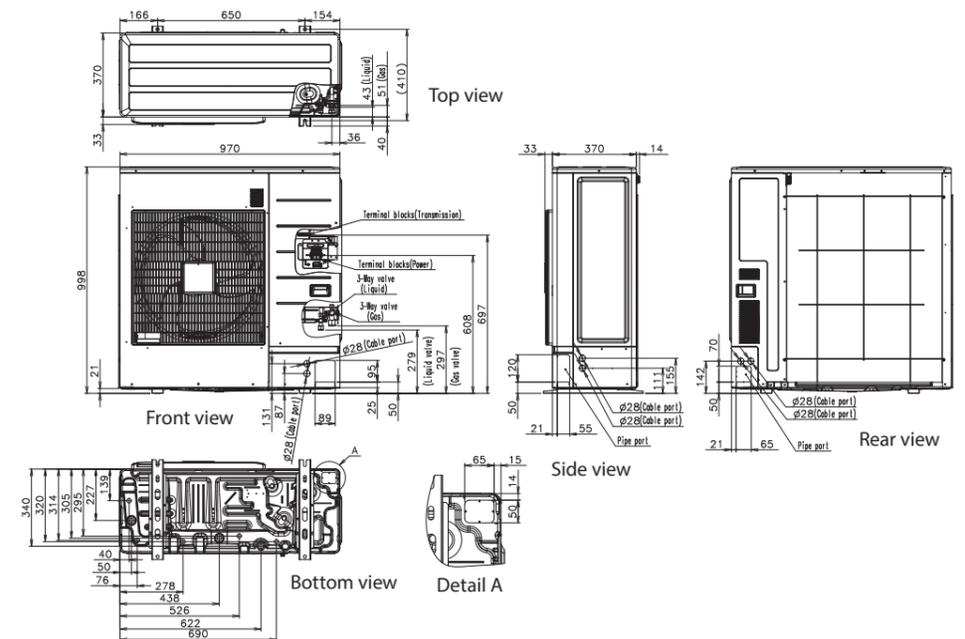
Rated capacity range		HP	4	5	6
Model name			AJY040LCLDH	AJY045LCLDH	AJY054LCLDH
Maximum connectable indoor units			1-11	1-12	1-13
Power source			Single phase, ~230 V, 50 Hz		
Capacity	Cooling	kW	12.1	14.0	15.1
	Nominal Heating		12.1	14.0	15.1
	Max. Heating		13.6	16.0	16.5
Input power	Cooling	kW	3.44	4.43	5.03
	Nominal Heating		2.55	3.11	3.52
	Max. Heating		3.27	3.93	4.11
EER	Cooling		3.52	3.16	3.00
	Nominal Heating	W/W	4.74	4.51	4.30
	Max. Heating		4.16	4.07	4.01
Airflow rate		m <sup>3</sup> /h	4,040	4,200	4,200
Sound pressure level/ Power level	Cooling	dB(A)	51/67	53/69	54/70
	Heating		54/68	56/69	56/70
Heat exchanger fin			Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	998	998	998
	Width		970	970	970
	Depth		370	370	370
Weight		kg	86	86	87
	Refrigerant	Type (Global Warming Potential)	R410A (2,088)	R410A (2,088)	R410A (2,088)
Connection pipe diameter	Charge	kg (CO <sub>2</sub> eq-T)	4.0 (8.4)	4.0 (8.4)	4.0 (8.4)
	Liquid	mm	9.52	9.52	9.52
Total pipe length	Gas	mm	15.88	15.88	15.88
		m	80	80	80
Max. height difference		m	30	30	30
		°C	-5 to 46	-5 to 46	-5 to 46
Operating Range	Cooling	°C	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21

Note: Specifications are 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.
- Use outside the operating range may activate the protection function.
- \* These specifications are determined by cassette combination.

### Dimensions

(Unit: mm)



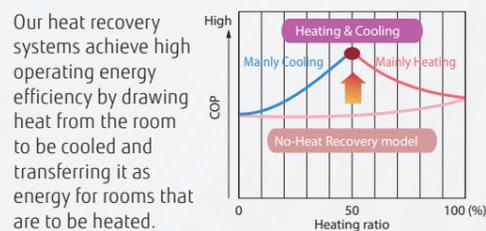
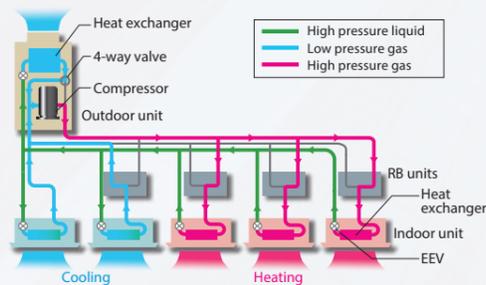
# Heat Recovery

Modular Type



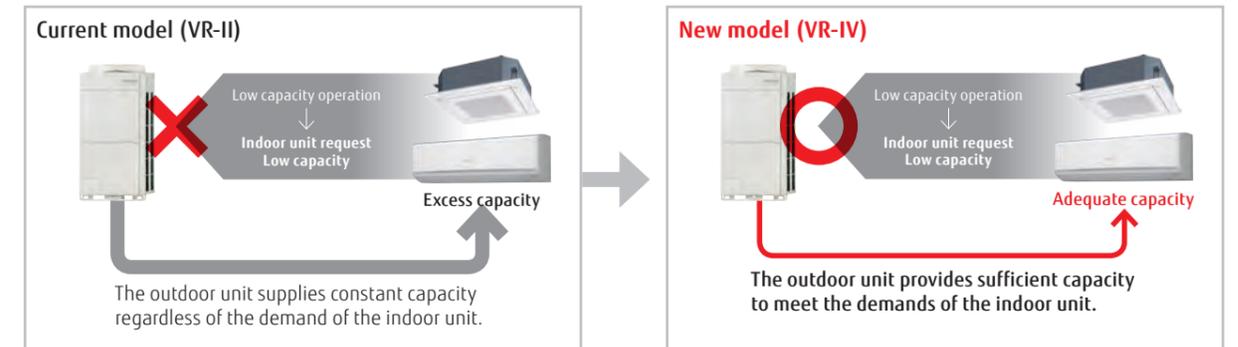
## Highly energy-efficient operation

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.



## 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

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	24	...	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.
- Subcool 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.
- 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.
- 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 to 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.)

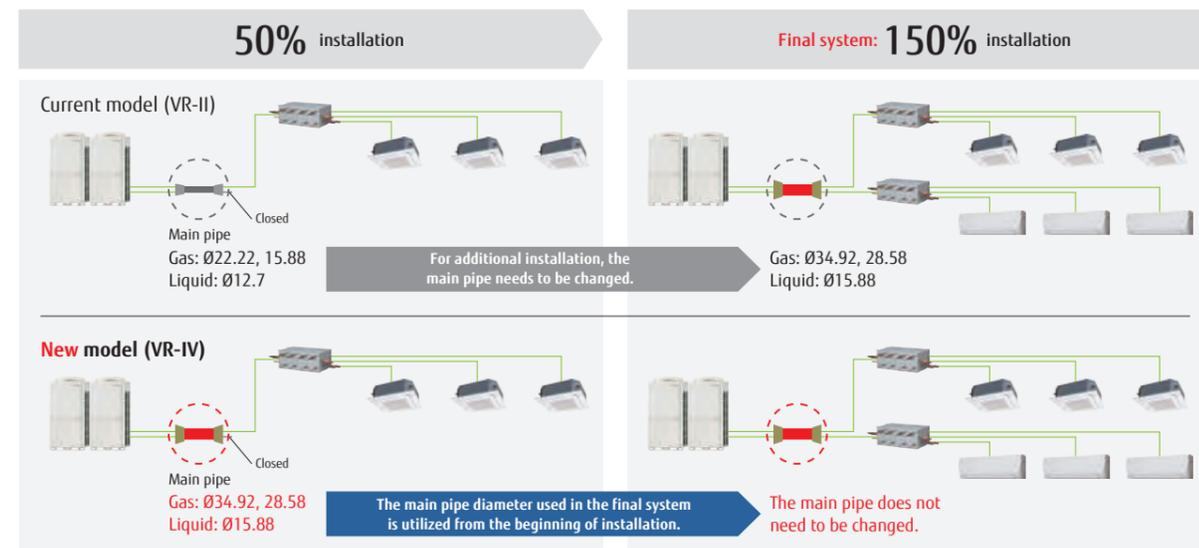
**Example:** One 10HP outdoor unit performs 25% of the total 20HP outdoor units system.

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



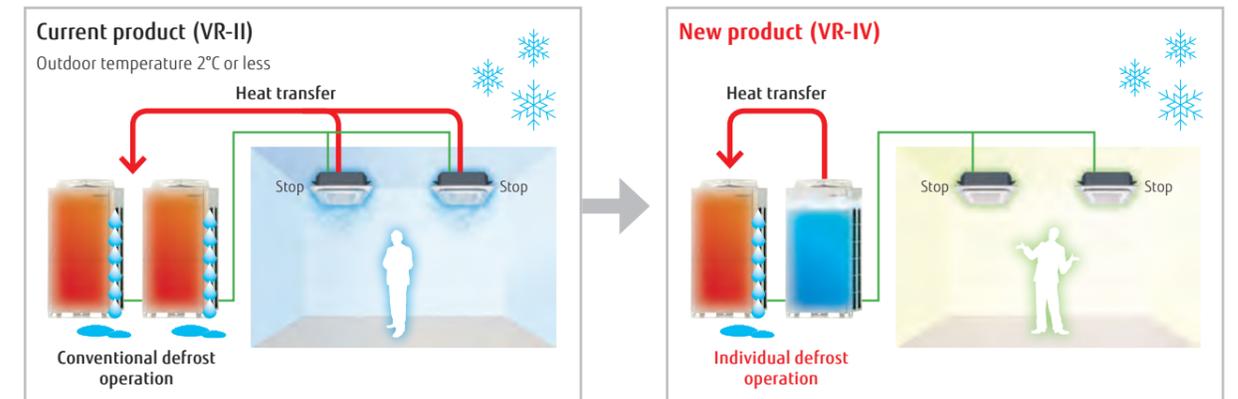
## Additional installation is possible without changing the main pipe.

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.



## New Individual Defrost Operation

Individual Defrost Operation maintains the room comfortable during defrost operation.

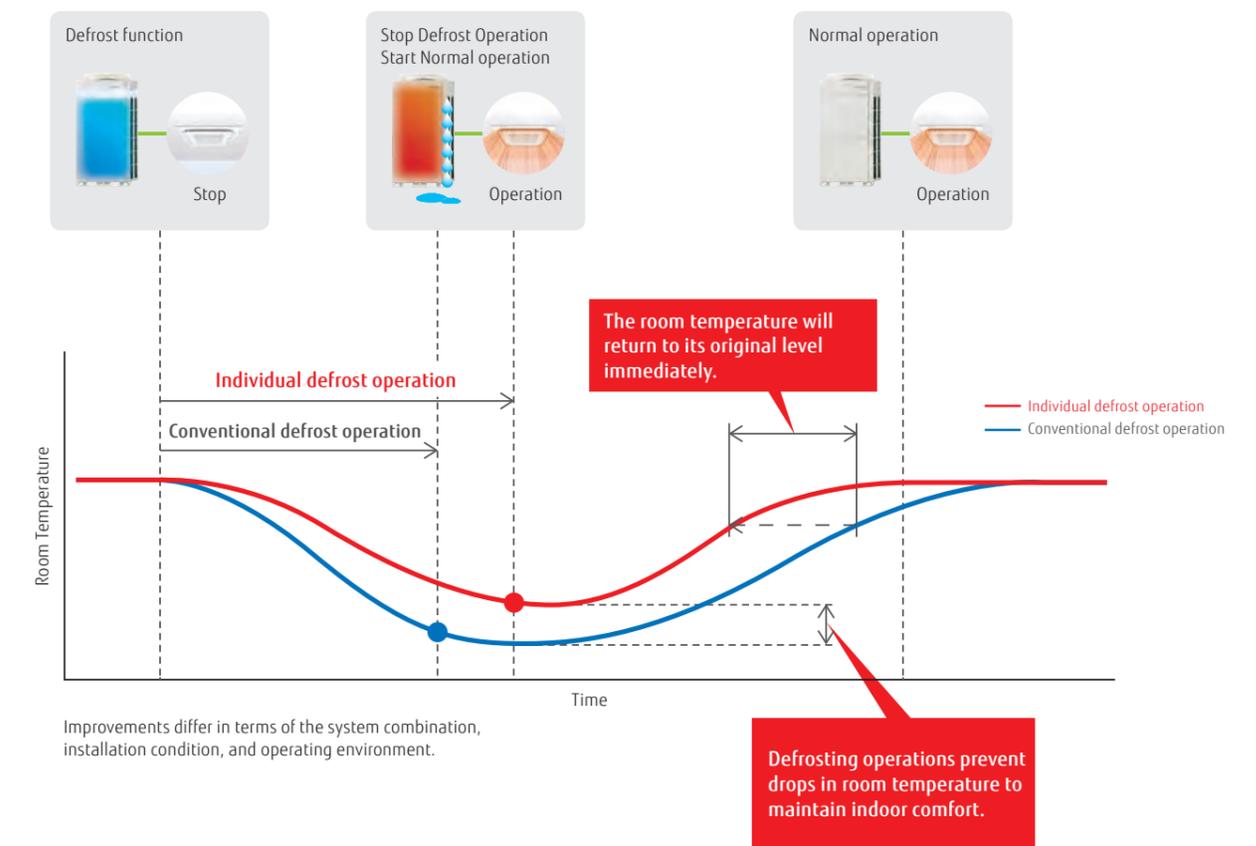


During defrosting operation, the system absorbs heat from the room to lower the room temperature.

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

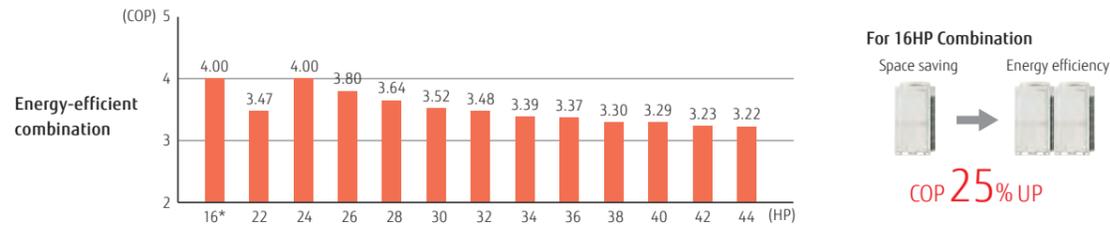
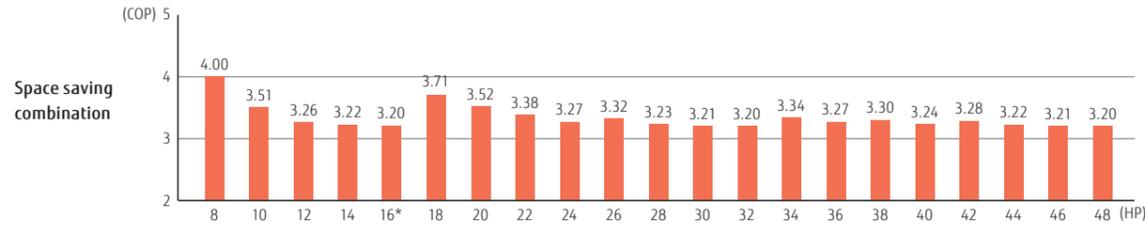
Upon completion of Individual Defrost Operation, the indoor unit returns to normal operation.



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

### 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 ducted combination.  
\* Multiple outdoor units are not certified by Eurovent.



### All-inverter compressor

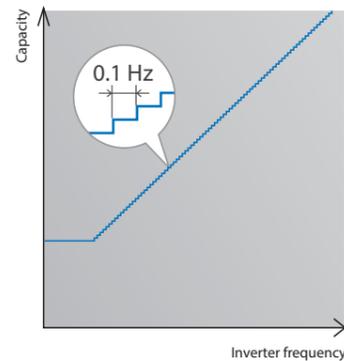
#### Large-capacity DC inverter compressor

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



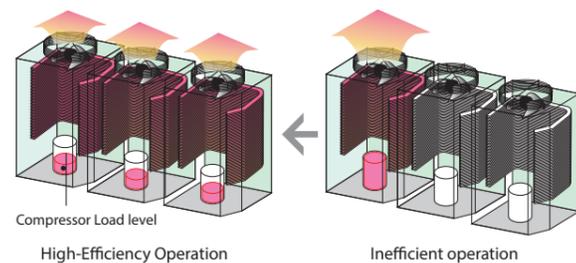
#### High-efficiency compressor speed control

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



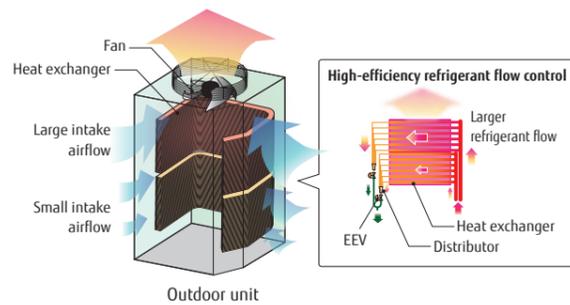
### Multiple outdoor operation control

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.



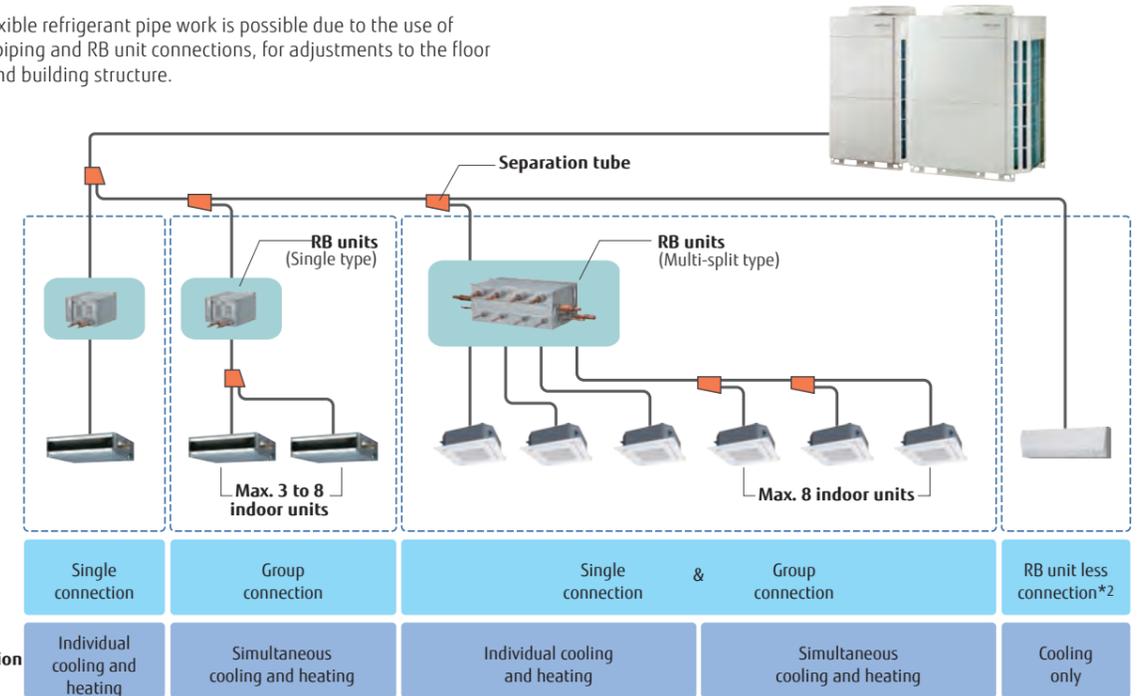
### Heat exchanger refrigerant control

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.

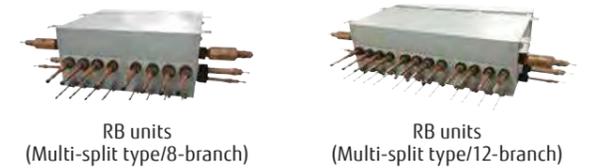
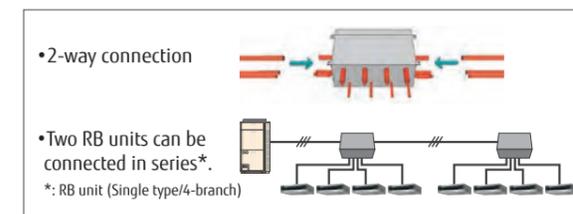


\* An RB unit can be placed between the first branch and an indoor unit.  
\* The maximum height difference between RB units is 15 m.  
No RB Unit is required for cooling only use.

### 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

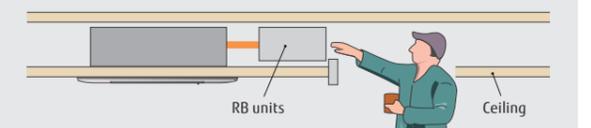


#### Easy maintenance in tight spaces

Maintenance can be performed from the side.



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

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

Energy efficiency combination

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

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



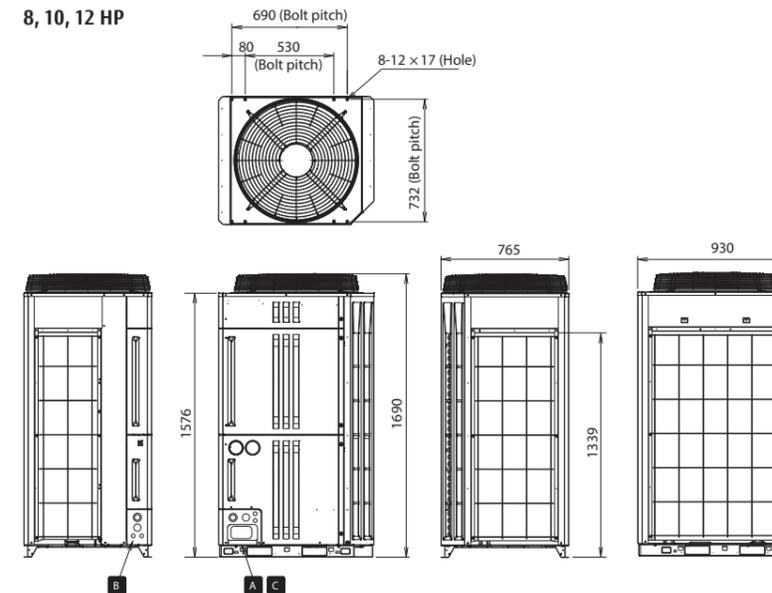
8, 10, 12 HP

14, 16 HP

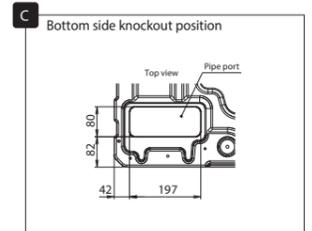
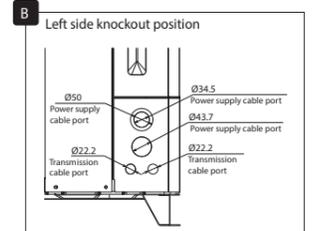
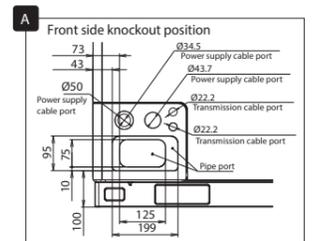
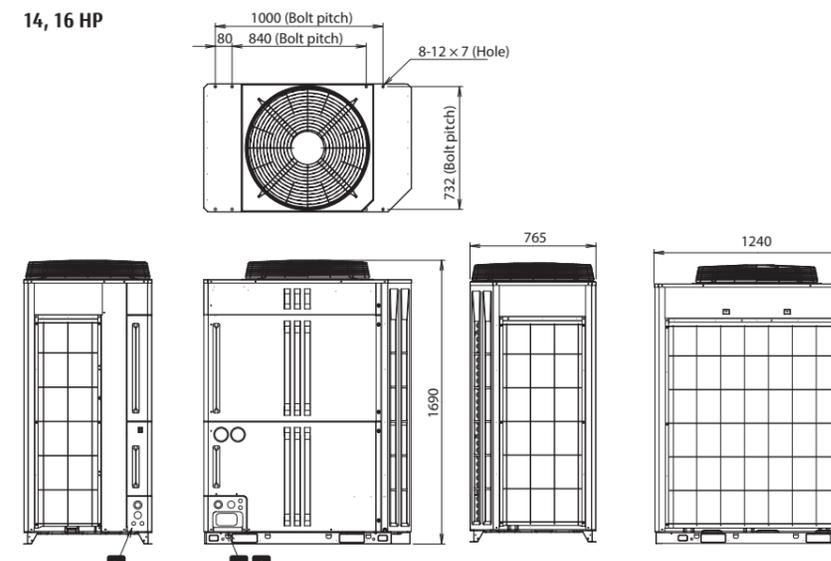
Dimensions

(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	26	28	30	32	34	36	38	40	42	44	46	48		
Model name		AJH072GALDH	AJY090GALDH	AJY108GALDH	AJY126GALDH	AJY144GALDH	AJY162GALDH	AJY180GALDH	AJY198GALDH	AJY216GALDH	AJY234GALDH	AJY252GALDH	AJY270GALDH	AJY288GALDH	AJY306GALDH	AJY324GALDH	AJY342GALDH	AJY360GALDH	AJY378GALDH	AJY396GALDH	AJY414GALDH	AJY432GALDH		
Unit 1 Unit 2 Unit 3		AJH072GALDH	AJY090GALDH	AJY108GALDH	AJY126GALDH	AJY144GALDH	AJY090GALDH AJY072GALDH	AJY090GALDH AJY090GALDH	AJY108GALDH AJY090GALDH	AJY108GALDH	AJY144GALDH AJY090GALDH	AJY144GALDH AJY090GALDH	AJY144GALDH AJY126GALDH	AJY144GALDH AJY144GALDH	AJY108GALDH AJY108GALDH AJY090GALDH	AJY108GALDH AJY108GALDH AJY090GALDH	AJY144GALDH AJY108GALDH AJY090GALDH	AJY144GALDH AJY108GALDH AJY090GALDH	AJY144GALDH AJY144GALDH AJY108GALDH	AJY144GALDH AJY144GALDH AJY108GALDH	AJY144GALDH AJY144GALDH AJY108GALDH	AJY144GALDH AJY144GALDH AJY108GALDH	AJY144GALDH AJY144GALDH AJY108GALDH	AJY144GALDH AJY144GALDH AJY108GALDH
Maximum connectable indoor units*		17	21	26	30	34	39	43	47	52	56	60	64	64	64	64	64	64	64	64	64	64	64	
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	18.3-109.5*3	19.7-117.7*3	21.3-127.5*3	22.5-135.0*3	23.8-142.5*3	25.2-150.7*3	26.7-159.7*3	28.0-168.0*3	29.5-177.0*3	30.9-185.2*3	32.5-195.0*3	33.8-202.5*3		
Power source		3 phase 4 wire, 400 V, 50Hz										3 phase 4 wire, 400 V, 50Hz												
Capacity	Cooling	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0	73.0	78.5	85.0	90.0	95.0	100.5	106.5	112.0	118.0	123.5	130.0	135.0		
	Nominal Heating	22.4	28.0	33.5	40.0	42.0	50.4	56.0	61.5	67.0	70.0	75.5	82.0	84.0	95.0	100.5	103.5	109.0	112.0	117.5	124.0	126.0		
	Max. Heating	25.0	31.5	37.5	45.0	48.0	56.5	63.0	69.0	75.0	79.5	85.5	93.0	96.0	106.5	112.5	117.0	123.0	127.5	133.5	141.0	144.0		
Input power	Cooling	6.26	9.53	11.89	13.16	16.71	15.79	19.06	21.42	23.78	26.24	28.60	29.87	33.42	33.31	35.67	38.13	40.49	42.95	45.31	46.58	50.13		
	Nominal Heating	5.37	7.38	9.16	10.80	11.81	12.75	14.76	16.54	18.32	19.19	20.97	22.61	23.62	25.70	27.48	28.35	30.13	31.00	32.78	34.42	35.43		
	Max. Heating	6.25	8.96	11.48	13.95	14.98	15.21	17.92	20.44	22.96	23.94	26.46	28.93	29.96	31.92	34.44	35.42	37.94	38.92	41.44	43.91	44.94		
EER	Cooling	3.57	2.93	2.81	3.03	2.69	3.19	2.94	2.87	2.82	2.78	2.74	2.85	2.69	2.85	2.82	2.79	2.77	2.75	2.73	2.79	2.69		
	Nominal Heating	4.17	3.79	3.65	3.70	3.55	3.95	3.79	3.72	3.66	3.65	3.60	3.63	3.56	3.70	3.66	3.65	3.62	3.61	3.58	3.60	3.56		
	Max. Heating	4.00	3.51	3.26	3.22	3.20	3.71	3.52	3.38	3.27	3.32	3.23	3.21	3.20	3.34	3.27	3.30	3.24	3.28	3.22	3.21	3.20		
Air flow rate	High	11,100	11,100	11,100	13,000	13,000	11,100*2	11,100*2	11,100*2	11,100*2	13,000+11,100	13,000+11,100	13,000*2	13,000*2	11,100*3	11,100*3	13,000+11,000*2	13,000+11,000*2	13,000*2+11,000	13,000*2+11,000	13,000*3	13,000*3		
Sound pressure level**/Power level	Cooling	56 / 77	58 / 78	59 / 79	60 / 82	61 / 82	60 / 81	61 / 81	62 / 82	62 / 82	63 / 83	63 / 84	64 / 85	64 / 85	63 / 83	64 / 84	65 / 85	65 / 85	65 / 86	65 / 86	65 / 87	66 / 87	66 / 87	
	Heating	58 / 79	59 / 79	63 / 82	62 / 83	63 / 83	62 / 82	62 / 82	64 / 84	66 / 85	64 / 84	66 / 86	66 / 86	66 / 86	67 / 86	68 / 87	67 / 86	68 / 87	67 / 87	68 / 87	67 / 88	68 / 88	68 / 88	
Max. External static pressure	Pa	80	80	80	80	80	80	80	80	80	80	80	80	80	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	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		
Heat exchanger fin		Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	
Net Dimensions	Height	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	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	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	1,240 * 3	
	Depth	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	
Weight	kg	262	262	262	286	286	262 * 2	262 * 2	262 * 2	262 * 2	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	286 * 3	
Refrigerant	Type (Global Warming Potential)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	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)	
	Charge (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)	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)	11.8 * 3 (24.6 * 3)	
Connection pipe diameter	Liquid	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	
	Discharge Gas	15.88	19.05	19.05	22.22	22.22	22.22	22.22	22.22	22.22	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	
	Suction Gas	22.22	22.22	28.58	28.58	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	
Operating Range	Cooling	-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	-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	
	Heating	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-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	
	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	-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	-10 to 21	

Energy Efficiency Combination

Rated capacity range	HP	16	22	24	26	28	30	32	34	36	38	40	42	44	
Model name		AJY144GALDHH	AJY198GALDHH	AJY216GALDHH	AJY234GALDHH	AJY252GALDHH	AJY270GALDHH	AJY288GALDHH	AJY306GALDHH	AJY324GALDHH	AJY342GALDHH	AJY360GALDHH	AJY378GALDHH	AJY396GALDHH	
Unit 1 Unit 2 Unit 3		AJY072GALDH AJY072GALDH	AJY126GALDH AJY072GALDH	AJY126GALDH AJY072GALDH AJY072GALDH	AJY126GALDH AJY072GALDH AJY072GALDH	AJY126GALDH AJY090GALDH AJY072GALDH	AJY126GALDH AJY090GALDH AJY072GALDH	AJY126GALDH AJY090GALDH AJY072GALDH	AJY126GALDH AJY090GALDH AJY072GALDH	AJY126GALDH AJY126GALDH AJY090GALDH	AJY126GALDH AJY126GALDH AJY090GALDH	AJY126GALDH AJY126GALDH AJY090GALDH	AJY126GALDH AJY126GALDH AJY090GALDH	AJY126GALDH AJY126GALDH AJY126GALDH	
Maximum connectable indoor units*		34	47	52	56	60	64	64	64	64	64	64	64	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	22.6-135.6*3	24.0-144.0*3	25.6-153.6*3	27.0-162.0*3	28.3-169.5*3	30.0-180.0*3	31.3-187.5*3	
Power source		3 phase 4 wire, 400 V, 50Hz						3 phase 4 wire, 400 V, 50Hz							
Capacity	Cooling	44.8	62.4	67.2	72.8	78.4	84.0	90.4	96.0	102.4	108.0	113.0	120.0	125.0	
	Nominal Heating	44.8	62.4	67.2	72.8	78.4	84.0	90.4	96.0	102.4	108.0	110.0	120.0	122.0	
	Max. Heating	50.0	70.0	75.0	81.5	88.0	94.5	101.5	108.0	115.0	121.5	124.5	135.0	138.0	
Input power	Cooling	12.52	19.42	18.78	22.05	25.32	28.59	28.95	32.22	32.58	35.85	39.40	39.48	43.03	
	Nominal Heating	10.74	16.17	16.11	20.13	23.55	22.14	23.55	25.56	26.97	28.98	29.99	32.40	33.41	
	Max. Heating	12.50	20.20	18.75	21.46	24.17	26.88	29.16	31.87	34.15	36.86	37.89	41.85	42.88	
EER	Cooling	3.58	3.21	3.58	3.30	3.10	2.94	3.12	2.98	3.14	3.01	2.87	3.04	2.90	
	Nominal Heating	4.17	3.86	4.17	4.02	3.89	3.79	3.84	3.76	3.80	3.73	3.67	3.70	3.65	
	Max. Heating	4.00	3.47	4.00	3.80	3.64	3.52								

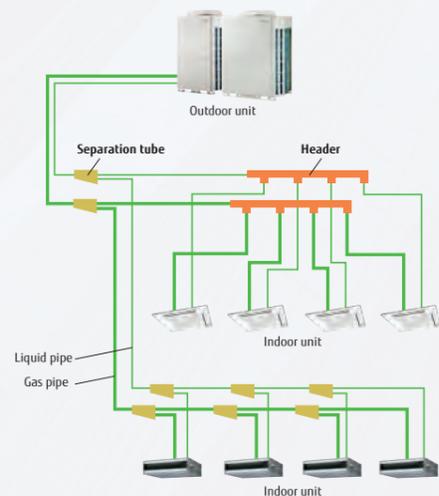
# Heat Pump

Modular Type



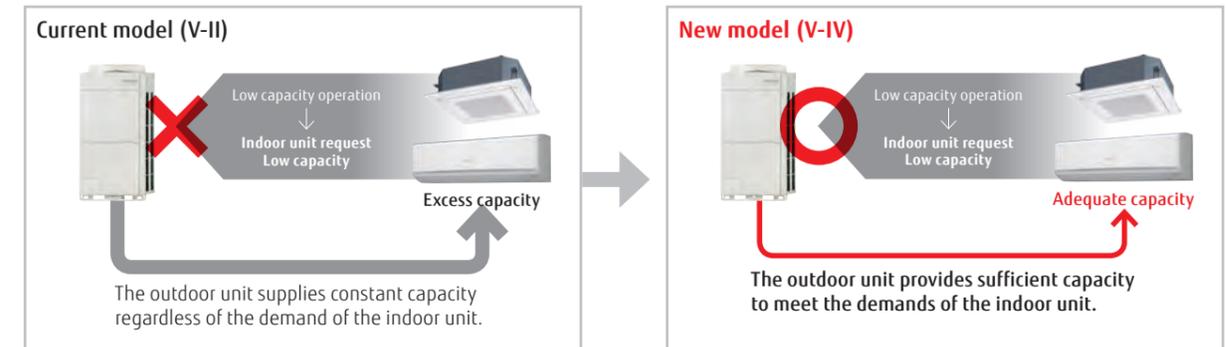
### System configuration example

- 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.

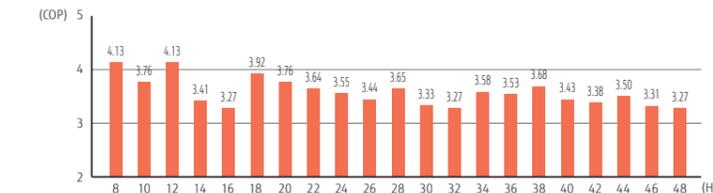


\* The improvements due to the control and the actual sine wave vary depending on the combination of the indoor unit and system operating conditions.

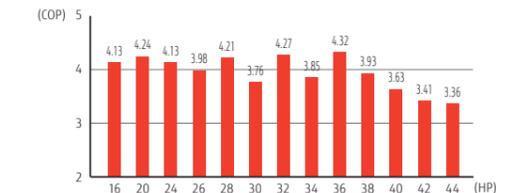
## Efficiency in actual operating conditions

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 ducted 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.
- Subcool 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

22.4 kW (8 HP) AJY072LALDH UNIT: AJY072LALDH	28.0 kW (10 HP) AJY090LALDH UNIT: AJY090LALDH	33.5 kW (12 HP) AJY108LALDH UNIT: AJY108LALDH	40.0 kW (14 HP) AJY126LALDH UNIT: AJY126LALDH	45.0 kW (16 HP) AJY144LALDH UNIT: AJY144LALDH
50.0 kW (18 HP) AJY162LALDH UNIT: AJY090/072LALDH	56.0 kW (20 HP) AJY180LALDH UNIT: AJY090/090LALDH	62.4 kW (22 HP) AJY198LALDH UNIT: AJY126/072LALDH	68.0 kW (24 HP) AJY216LALDH UNIT: AJY126/090LALDH	73.0 kW (26 HP) AJY234LALDH UNIT: AJY144/090LALDH
78.0 kW (28 HP) AJY252LALDH UNIT: AJY144/108LALDH	85.0 kW (30 HP) AJY270LALDH UNIT: AJY144/126LALDH	90.0 kW (32 HP) AJY288LALDH UNIT: AJY144/144LALDH	95.0 kW (34 HP) AJY306LALDH UNIT: AJY144/090/072LALDH	100.0 kW (36 HP) AJY324LALDH UNIT: AJY144/090/090LALDH
106.0 kW (38 HP) AJY342LALDH UNIT: AJY144/126/072LALDH	113.0 kW (40 HP) AJY360LALDH UNIT: AJY144/126/090LALDH	118.0 kW (42 HP) AJY378LALDH UNIT: AJY144/144/090LALDH	123.0 kW (44 HP) AJY396LALDH UNIT: AJY144/144/108LALDH	128.0 kW (46 HP) AJY414LALDH UNIT: AJY144/144/126LALDH
135.0 kW (48 HP) AJY432LALDH UNIT: AJY144/144/144LALDH				

Energy efficiency combination

44.8 kW (16 HP) AJY144LALDHH UNIT: AJY072/072LALDH	55.9 kW (20 HP) AJY180LALDHH UNIT: AJY108/072LALDH	67.2 kW (24 HP) AJY216LALDHH UNIT: AJY072/072/072LALDH	72.8 kW (26 HP) AJY234LALDHH UNIT: AJY090/072/072LALDH	78.3 kW (28 HP) AJY252LALDHH UNIT: AJY108/072/072LALDH
84.8 kW (30 HP) AJY270LALDHH UNIT: AJY126/072/072LALDH	89.4 kW (32 HP) AJY288LALDHH UNIT: AJY108/108/072LALDH	95.9 kW (34 HP) AJY306LALDHH UNIT: AJY126/108/072LALDH	100.5 kW (36 HP) AJY324LALDHH UNIT: AJY108/108/108LALDH	107.0 kW (38 HP) AJY342LALDHH UNIT: AJY126/108/108LALDH
113.5 kW (40 HP) AJY360LALDHH UNIT: AJY126/126/108LALDH	120.0 kW (42 HP) AJY378LALDHH UNIT: AJY126/126/126LALDH	125.0 kW (44 HP) AJY396LALDHH UNIT: AJY144/126/108LALDH		

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



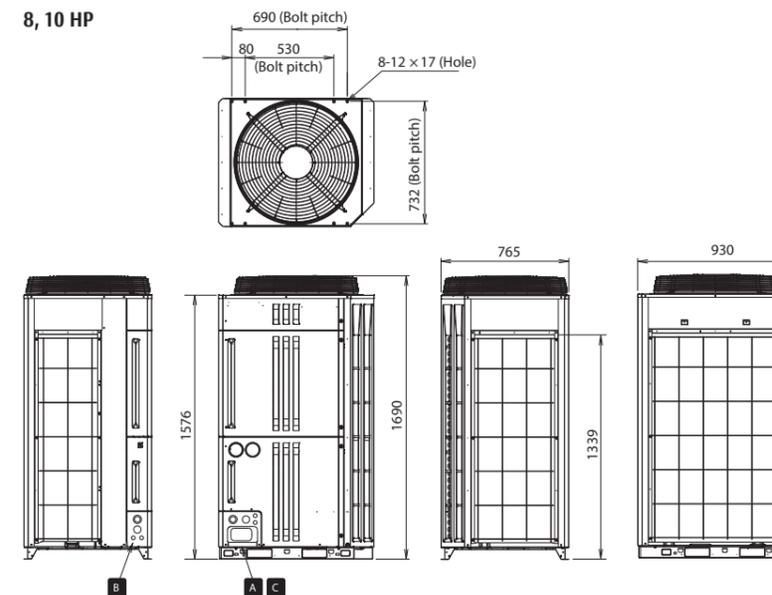
8, 10 HP

12, 14, 16 HP

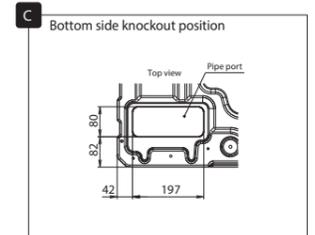
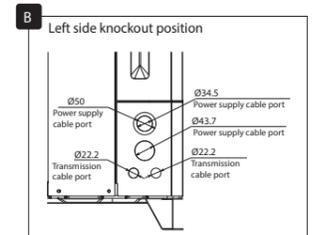
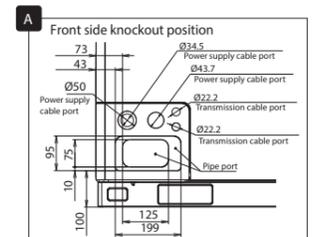
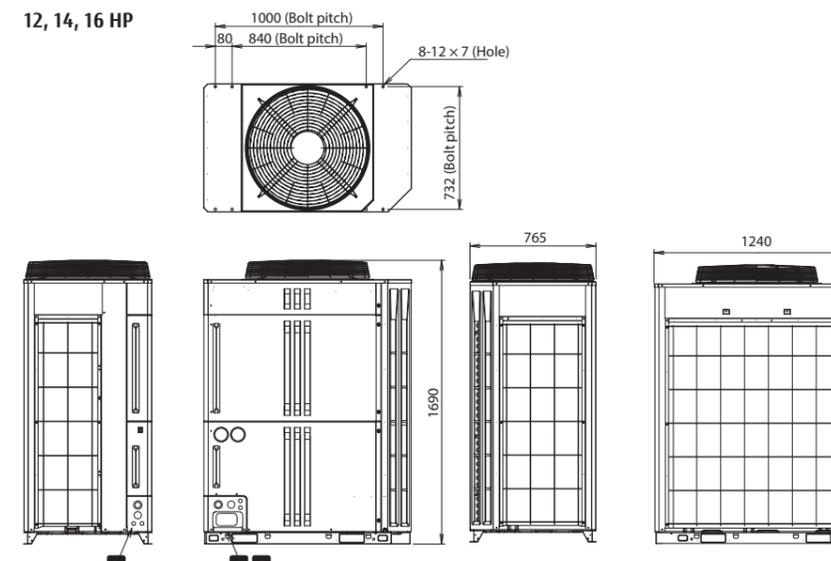
Dimensions

(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	26	28	30	32	34	36	38	40	42	44	46	48	
Model name		AJY072LALDH	AJY090LALDH	AJY108LALDH	AJY126LALDH	AJY144LALDH	AJY162LALDH	AJY180LALDH	AJY198LALDH	AJY216LALDH	AJY234LALDH	AJY252LALDH	AJY270LALDH	AJY288LALDH	AJY306LALDH	AJY324LALDH	AJY342LALDH	AJY360LALDH	AJY378LALDH	AJY396LALDH	AJY414LALDH	AJY432LALDH	
Unit 1 Unit 2 Unit 3		AJY072LALDH	AJY090LALDH	AJY108LALDH	AJY126LALDH	AJY144LALDH	AJY090LALDH	AJY090LALDH	AJY126LALDH	AJY126LALDH	AJY144LALDH	AJY144LALDH	AJY144LALDH	AJY144LALDH	AJY144LALDH	AJY144LALDH	AJY144LALDH	AJY144LALDH	AJY144LALDH	AJY144LALDH	AJY144LALDH	AJY144LALDH	AJY144LALDH
Maximum connectable indoor units*		17	21	26	30	34	39	43	47	52	56	60	64	64	64	64	64	64	64	64	64	64	
Connectable capacity range of indoor units	kW	11.2-33.6	14.0-42.0	16.8-50.3	20.0-60.0	22.5-67.5	25.2-75.6	28.0-84.0	31.2-93.6	34.0-102.0	36.5-109.5	39.3-117.7	42.5-127.5	45.0-135.0	47.7-143.1	50.5-151.5	53.3-159.7	56.5-169.5	59.0-177.0	61.8-185.2	65.0-195.0	67.5-202.5	
Power source	3-phase, 4-wire, ~400 V, 50 Hz											3-phase, 4-wire, ~400 V, 50 Hz											
Capacity	Cooling	22.4	28.0	33.5	40.0	45.0	50.4	56.0	62.4	68.0	73.0	78.5	85.0	90.0	95.4	101.0	106.5	113.0	118.0	123.5	130.0	135.0	
	Nominal Heating	22.4	28.0	33.5	40.0	45.0	50.4	56.0	62.4	68.0	73.0	78.5	85.0	90.0	95.4	101.0	106.5	113.0	118.0	123.5	130.0	135.0	
	Max. Heating	25.0	31.5	37.5	45.0	48.0	56.5	63.0	70.0	76.5	79.5	85.5	93.0	96.0	104.5	111.0	117.0	124.5	127.5	133.5	141.0	144.0	
Input power	Cooling	5.95	9.06	9.54	13.18	16.74	15.01	18.12	19.13	22.24	25.80	26.28	29.92	33.48	31.75	34.86	35.34	38.98	42.54	43.02	46.66	50.22	
	Nominal Heating	5.42	7.44	7.76	11.74	13.76	12.86	14.88	17.16	19.18	21.20	21.52	25.50	27.52	26.62	28.64	28.96	32.94	34.96	35.28	39.26	41.28	
	Max. Heating	6.26	8.98	9.48	14.00	15.02	15.24	17.96	20.26	22.98	24.00	24.50	29.02	30.04	30.26	32.98	33.48	38.00	39.02	39.52	44.04	45.06	
EER	Cooling	3.76	3.09	3.51	3.03	2.68	3.36	3.09	3.26	3.06	2.83	2.99	2.84	2.69	3.00	2.90	3.01	2.90	2.77	2.87	2.79	2.69	
	Nominal Heating	4.13	3.76	4.31	3.41	3.27	3.92	3.76	3.64	3.55	3.44	3.65	3.33	3.27	3.58	3.53	3.68	3.43	3.38	3.50	3.31	3.27	
	Max. Heating	3.99	3.50	3.95	3.21	3.19	3.71	3.51	3.46	3.33	3.31	3.49	3.20	3.20	3.45	3.37	3.49	3.28	3.27	3.38	3.20	3.20	
Air flow rate		11,100	11,100	13,000	13,000	13,700	11,100×2	11,100×2	13,000+11,100	13,000+11,100	13,700+11,100	13,700+13,000	13,700×2	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	
Sound pressure level**/Power level	Cooling	58/79	58/79	58/81	62/84	63/86	61/82	61/82	63/85	63/85	64/87	64/87	66/88	66/89	65/87	65/87	65/88	66/89	67/89	67/90	67/90	68/91	
	Heating	59/80	60/81	60/83	64/85	65/87	63/84	63/84	65/86	65/86	66/88	66/88	68/89	68/90	67/89	67/89	68/90	68/90	69/91	69/91	69/91	70/92	
Max. External static pressure		82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82	
Compressor motor output		7.5	7.5	11.0	11.0	11.0	7.5×2	7.5×2	11.0+7.5	11.0+7.5	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	
Heat exchanger fin		Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin						
Net Dimensions	Height	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	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	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	
	Depth	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	765	
Weight		252	252	275	275	275	252×2	252×2	275+252	275+252	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	
Refrigerant	Type (Global Warming Potential)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)						
	Charge	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)	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)	
Connection pipe diameter	Liquid	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	
	Gas	22.22	22.22	28.58	28.58	28.58	28.58	28.58	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	
Operating Range	Cooling	-15 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	-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	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21						

Energy Efficiency Combination

Rated capacity range	HP	16	20	24	26	28	30	32	34	36	38	40	42	44	
Model name		AJY144LALDHH	AJY180LALDHH	AJY216LALDHH	AJY234LALDHH	AJY252LALDHH	AJY270LALDHH	AJY288LALDHH	AJY306LALDHH	AJY324LALDHH	AJY342LALDHH	AJY360LALDHH	AJY378LALDHH	AJY396LALDHH	
Unit 1 Unit 2 Unit 3		AJY072LALDH	AJY108LALDH	AJY072LALDH	AJY090LALDH	AJY108LALDH	AJY126LALDH	AJY108LALDH	AJY126LALDH	AJY108LALDH	AJY126LALDH	AJY126LALDH	AJY126LALDH	AJY126LALDH	
Maximum connectable indoor units*		34	43	52	56	60	64	64	64	64	64	64	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	44.7-134.1	48.0-143.8	50.3-150.7	53.5-160.5	56.8-170.2	60.0-180.0	62.5-187.5	
Power source	3-phase, 4-wire, ~400 V, 50 Hz							3-phase, 4-wire, ~400 V, 50 Hz							
Capacity	Cooling	44.8	55.9	67.2	72.8	78.3	84.8	89.4	95.9	100.5	107.0	113.5	120.0	125.0	
	Nominal Heating	44.8	55.9	67.2	72.8	78.3	84.8	89.4	95.9	100.5	107.0	113.5	120.0	125.0	
	Max. Heating	50.0	62.5	75.0	81.5	87.5	95.0	100.0	107.5	112.5	120.0	127.5	135.0	138.0	
Input power	Cooling	11.90	15.49	17.85	20.96	21.44	25.08	25.03	28.67	28.62	32.26	35.90	39.54	43.10	
	Nominal Heating	10.84	13.18	16.26	18.28	18.60	22.58	20.94	24.92	23.28	27.26	31.24	35.22	37.24	
	Max. Heating	12.52	15.74	18.78	21.50	22.00	26.52	25.22	29.74	28.44	32.96	37.48	42.00	43.02	
EER	Cooling	3.76	3.61	3.76	3.47	3.65	3.38	3.57	3.34	3.51	3.32	3.16	3.03	2.90	
	Nominal Heating	4.13	4.24	4.13	3.98	4.21	3.76	4.27	3.85	4.32	3.93	3.63	3.41	3.36	
	Max. Heating	3.99	3.97	3.99	3.79	3.98	3.58	3.97	3.61	3.96	3.64	3.40	3.21	3.21	
Air flow rate		11,100×2	13,000+11,100	11,100×3	11,000×3	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	13,000×3	13,000×3	13,700+13,000×2	
Sound pressure level**/Power level	Cooling	61/82	61/83	63/84	63/84	63/85	65/87	63/85	65/87	63/86	65/87	66/88	67/89	67/90	
	Heating	62/83	63/85	64/85	64/85	64/86	66/87	64/87	66/88	65/88	67/89	68/89	69/90	69/91	
Max. External static pressure		82	82	82	82	82	82	82	82	82	82	82	82		
Compressor motor output		7.5×2	11.0+7.5	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3		
Heat exchanger fin		Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin		
Net Dimensions	Height	1,690	1,690	1,690	1,690	1,690	1,690	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	1,240×2+930	1,240×2+930	1,240×3	1,240×3	1,240×3	1,240×3		

# VRF INDOOR UNITS

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

Indoor units for the AIRSTAGE™ 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/Standard type)
- Vn-058 Cassette Slim type (Circular Flow)
- Vn-060 Cassette Large type (Circular Flow/)
- Vn-062 1-Way Flow Cassette
- 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		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	
Class			4	7	9	12		14	14	18	24	30	34	36	45	54	60	72	90	96	
Cassette	Compact type	Compact Grid type/Standard type		AUXB 004 GLEH	AUXB 007 GLEH	AUXB 009 GLEH	AUXB 012 GLEH		AUXB 014 GLEH	AUXB 018 GLEH	AUXB 024 GLEH										
	Slim type	Circular Flow								AUXM 018 GLEH	AUXM 024 GLEH	AUXM 030 GLEH									
	Large type	Circular Flow								AUXK 018 GLEH	AUXK 024 GLEH	AUXK 030 GLEH	AUXK 034 GLEH	AUXK 036 GLEH	AUXK 045 GLEH	AUXK 054 GLEH					
	One-way Flow type	One-way Flow	 004 - 012    014 - 024	AUXV 004 GLEH	AUXV 007 GLEH	AUXV 009 GLEH	AUXV 012 GLEH		AUXV 014 GLEH	AUXV 018 GLEH	AUXV 024 GLEH										
	3D Flow type	3D Flow								AUXS 018 GLEH	AUXS 024 GLEH										
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		ARXK 014 GLGH	ARXK 018 GLGH	ARXK 024 GLGH										
		Slim Duct (With drain pump)	 04/007 - 014    018    024	ARXD 04 GALH*2	ARXD 007 GLEH	ARXD 009 GLEH	ARXD 012 GLEH		ARXD 014 GLEH	ARXD 018 GLEH	ARXD 024 GLEH										
		High Efficiency*3								ARXP 018 GLFH		ARXP 030 GLFH									
	Medium static pressure duct	Normal									ARXA 018 GLEH	ARXA 030 GLEH		ARXA 036 GLEH	ARXA 045 GLEH						
		High Static Pressure Duct	Normal	 036/45 - 60    072 - 090    096											ARXC 036 GTEH	ARXC 045 GTEH	ARXC 060 GTEH*1	ARXC 072 GTEH*1	ARXC 090 GTEH*1	ARXC 096 GTEH*1	
Floor	Floor (*Same as Ceiling models)						ABYA 012 GTEH		ABYA 014 GTEH	ABYA 018 GTEH	ABYA 024 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		ARXD 014 GLEH	ARXD 018 GLEH	ARXD 024 GLEH										
	Compact Floor			AGYA 004 GCGH	AGYA 007 GCGH	AGYA 009 GCGH	AGYA 012 GCGH		AGYA 014 GCGH												
	Compact Floor (EEV external)			AGYE 004 GCEH	AGYE 007 GCEH	AGYE 009 GCEH	AGYE 012 GCEH		AGYE 014 GCEH												
			This model requires the EV kit to be connected.																		
Ceiling			 012 - 024    030 - 054				ABYA 012 GTEH		ABYA 014 GTEH	ABYA 018 GTEH	ABYA 024 GTEH	ABYA 030 GTEH		ABYA 036 GTEH	ABYA 045 GTEH	ABYA 054 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		ASYA 014 GCGH	NEW ASYA 018 GCEH	NEW ASYA 024 GCEH	ASYA 030 GTEH	ASYA 034 GTEH								
	Wall-mounted type (EEV external)			ASYE 004 GCEH	ASYE 007 GCEH	ASYE 009 GCEH	ASYE 012 GCEH		ASYE 014 GCEH												
			This model requires the EV kit to be connected.																		

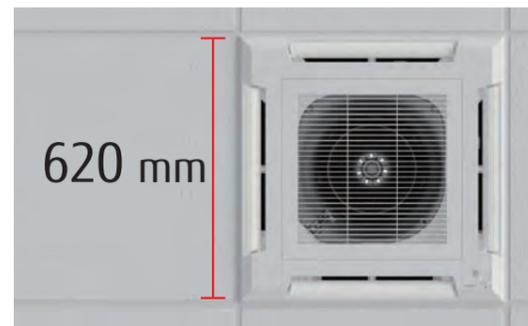
\*1: ARXC060/072/090/096G cannot be connected to J-IVS/J-IV Series.  
 \*2: ARXD04GALH cannot be connected to J-IVS/J-IVL/VR-IV Series.  
 \*3: Production by order  
 Specifications and design are subject to change without notice.

# 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



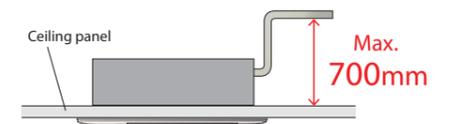
## Specifications

Model name		AUXB004GLEH	AUXB007GLEH	AUXB009GLEH	AUXB012GLEH	AUXB014GLEH	AUXB018GLEH	AUXB024GLEH
Power source		Single phase, ~230 V, 50 Hz						
Capacity	Cooling	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		23	25	25	29	35	36	84
Airflow rate	High	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	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)	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-UFYE-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.

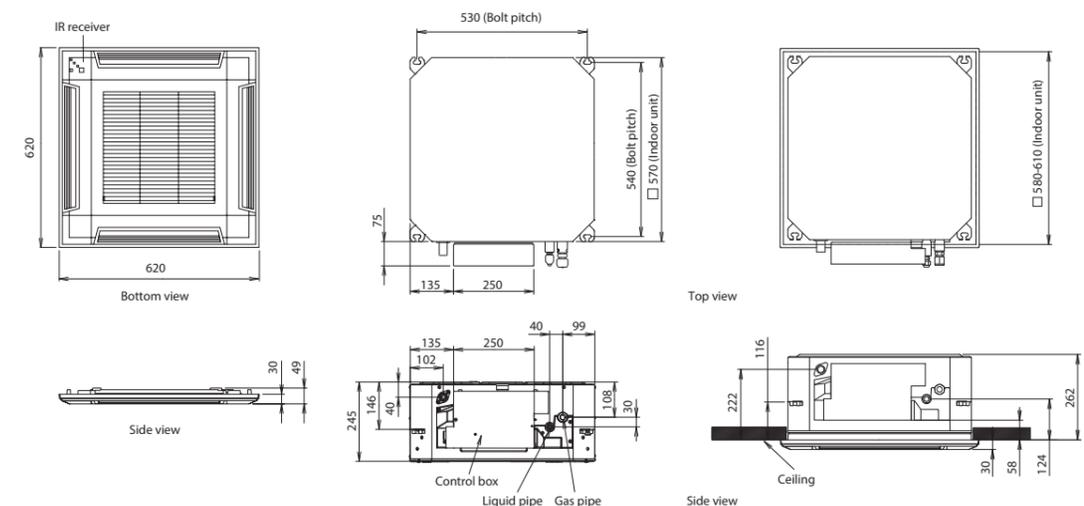
## Optional parts

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



## 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-DCGY22 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 human 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-DCGY22 Central remote controller only



Human 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: AUXM018GLEH/AUXM024GLEH/AUXM030GLEH



## 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		UTG-UKYC-W/UTG-UKYA-B		
Dimensions (H × W × D)		mm 53 × 950 × 950		
Weight		kg (lbs) 6.0 (13)		

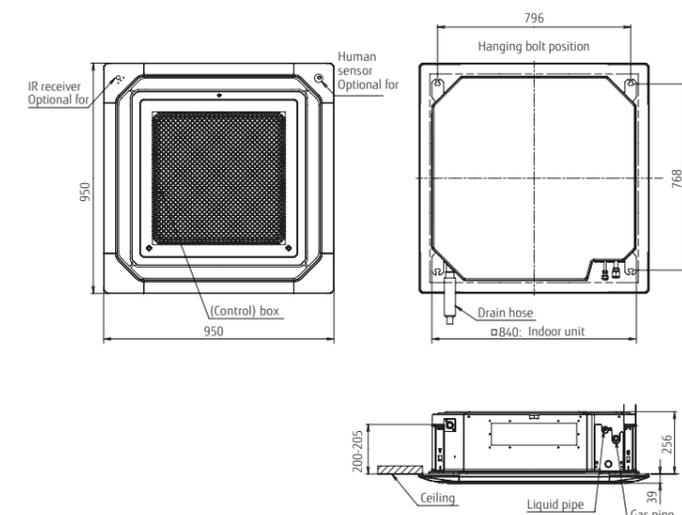
Note: Specifications are subject to the following conditions:  
 Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.  
 Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.  
 Pipe length: 7.5 m; Height difference between outdoor unit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

Human Sensor Kit: UTY-SHZXC	Fresh air intake kit: UTZ-VXRA	Cassette Grille: UTG-UKYC-W, UTG-UKYA-B	WLAN adapter: UTY-TFSXZ1
Wide Panel: UTG-AKXA-W	Air Outlet Shutter Plate: UTR-YDZK	External power supply unit: UTZ-GXXA	Silver Ion Filter: UTD-HFRA
Panel Spacer: UTG-BKXA-W	Insulation kit for high humidity: UTZ-KXRA	IR Receiver Unit: UTY-LBHXD	

## Dimensions

(Unit: mm)



# Cassette Large type

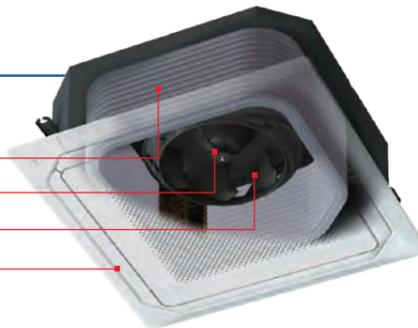
Circular Flow



## 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-DCGY22 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 human 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-DCGY22 Central remote controller only



Human 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	5.6	7.1	9.0	10.0	11.2	14.0
	Heating	6.3	8.0	10.0	11.2	12.5	16.0
Input power	W	40	40	47	47	61	89
Airflow rate	High	1,420	1,420	1,440	1,440	1,620	1,820
	Med-High	1,360	1,360	1,400	1,400	1,500	1,590
	Med	1,300	1,300	1,340	1,340	1,400	1,500
	Med-Low	1,270	1,270	1,300	1,300	1,340	1,400
	Low	1,200	1,200	1,280	1,280	1,280	1,300
Sound pressure level	Quiet	1,150	1,150	1,150	1,150	1,150	1,150
	High	38	38	39	39	41	44
	Med-High	37	37	38	38	40	42
	Med	36	36	37	37	38	40
	Med-Low	35	35	36	36	37	38
Low	34	34	35	35	36	36	
Quiet	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)
Connection pipe diameter	Liquid (Flare)	6.35	9.52	9.52	9.52	9.52	9.52
	Gas (Flare)	12.70	15.88	15.88	15.88	15.88	15.88
Drain Hose Diameter (I.D./O.D.)	25/32						
Cassette Grille	Model name	UTG-UKYC-W/UTG-UKYA-B					
	Dimensions (H × W × D)	mm 53 × 950 × 950					
	Weight	kg (lbs) 6.0 (13)					

Note: Specifications are 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).

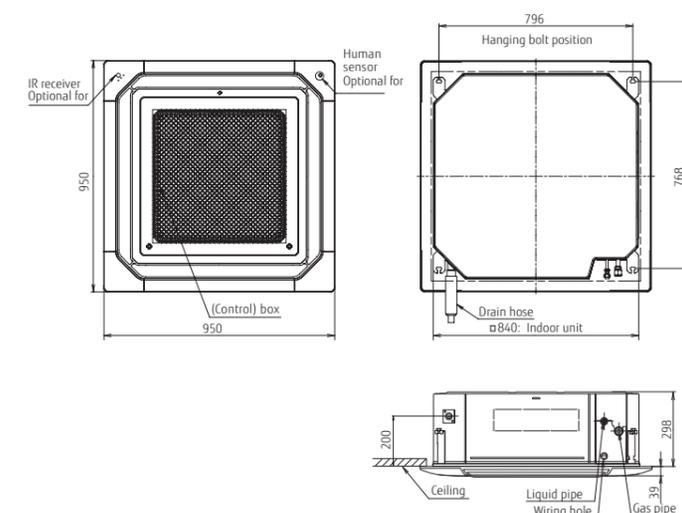
When connecting AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH to an outdoor unit other than the outdoor unit of the J-IVL Series, the gas pipe diameter should be Ø19.05 mm.

## Optional parts

Human Sensor Kit: UTY-SHZXC	Fresh air intake kit: UTZ-VXRA	Cassette Grille: UTG-UKYC-W, UTG-UKYA-B	WLAN adapter: UTY-TFSXZ1
Wide Panel: UTG-AKXA-W	Air Outlet Shutter Plate: UTR-YDZK	External power supply unit: UTZ-GXXA	Silver Ion Filter: UTD-HFRA
Panel Spacer: UTG-BKXA-W	Insulation kit for high humidity: UTZ-KXRA	IR Receiver Unit: UTY-LBHXD	

## 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



AUXV004/007/009/012GLEH



AUXV014/018/024GLEH

### Specifications

Model name		AUXV004GLEH	AUXV007GLEH	AUXV009GLEH	AUXV012GLEH	AUXV014GLEH	AUXV018GLEH	AUXV024GLEH	
Power source		Single phase, ~230 V, 50 Hz							
Capacity	Cooling	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	m³/h	460	550	550	670	720	890	1,150
	Med-High		440	440	440	520	660	840	1,020
	Med		420	420	420	480	630	770	940
	Med-Low		400	400	400	450	600	710	790
	Low		380	380	380	410	580	660	700
	Quiet		360	360	360	360	550	580	610
Sound pressure level*	High	dB(A)	38	42	42	45	37	44	49
	Med-High		37	37	37	41	36	43	47
	Med		36	36	36	39	35	40	45
	Med-Low		35	35	35	38	34	38	42
	Low		33	33	33	36	33	36	39
	Quiet		32	32	32	32	32	34	36
Net Dimensions (H × W × D)		mm	198 × 785 × 570	198 × 785 × 570	198 × 785 × 570	198 × 785 × 570	198 × 1,190 × 570	198 × 1,190 × 570	198 × 1,190 × 570
Weight		kg (lbs)	18 (40)	19 (42)	19 (42)	19 (42)	26 (57)	26 (57)	27 (60)
Connection pipe diameter	Liquid (Flare)	mm	6.35	6.35	6.35	6.35	6.35	6.35	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			43 × 1,360 × 620			
	Weight	kg (lbs)	6.5 (14.5)			8.5 (18.0)			

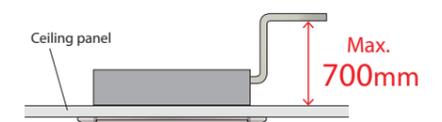
Note: Specifications are subject to the following conditions:  
 Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.  
 Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.  
 Pipe length: 7.5 m; Height difference between outdoor unit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

### Optional parts

- WLAN adapter: UTY-TFSXZ1
- IR Receiver Unit: UTY-TRHX
- Cassette Grille: UTG-UNYA-W/UTG-UNYB-W
- External power supply unit: UTZ-GXXX

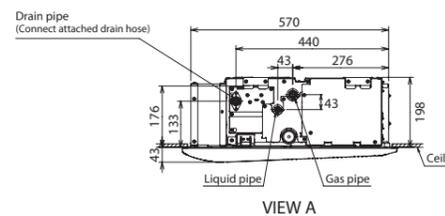
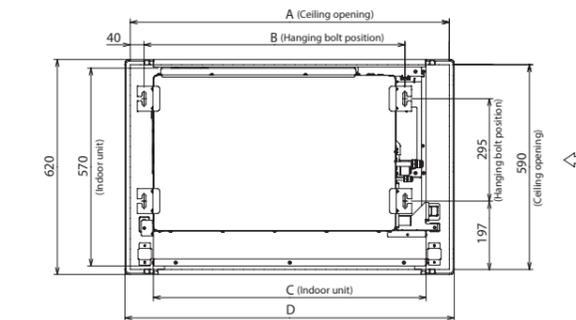
### Flexible Installation

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 mm 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



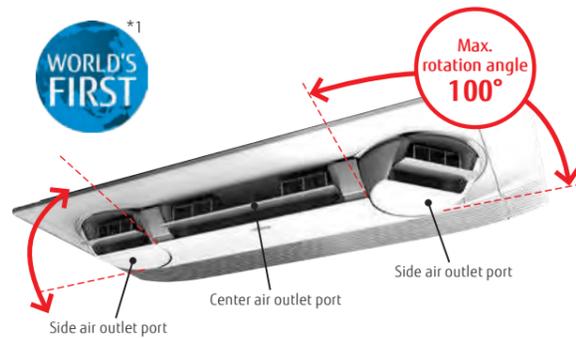
## 3 individually controlled air outlet ports

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 40m<sup>2</sup> environmental test room

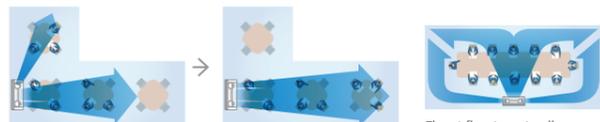
**Testing conditions:** Model AUXS024GLEH running heating operation with the air volume set to "Hi" to maintain the room temperature at 30°C with the outdoor temperature at 7°C, tested in our 40m<sup>2</sup> environmental test room



\*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

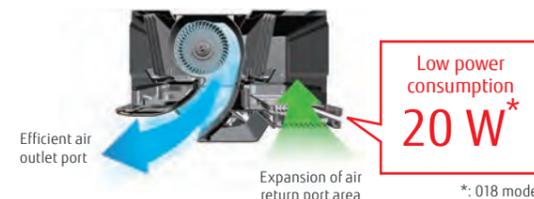
Individual airflow can be set using a Wired remote controller with touch panel and Central remote controller\*. The airflow from each air outlet port can be set individually.



\* 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.



Model: AUXS018GLEH/AUXS024GLEH



### Specifications

Model name		AUXS018GLEH	AUXS024GLEH
Power source		Single phase, ~230 V, 50 Hz	
Capacity	Cooling	5.60	7.10
	Heating	6.30	8.00
Input power		20/28	34/43
Airflow rate*	High	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	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	200 × 1,240 × 500
Weight		kg (lbs) 25 (55)	25 (55)
Connection pipe diameter	Liquid (Flare)	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)	

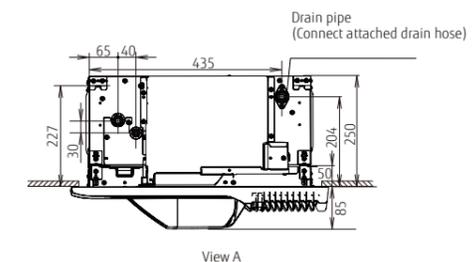
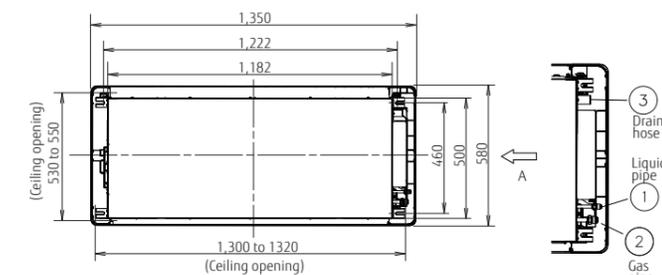
Note: Specifications are subject to the following conditions:  
 Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.  
 Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.  
 Pipe length: 7.5 m; Height difference between outdoor unit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

### Optional parts

- WLAN adapter: UTY-TFSXZ1
- IR Receiver Unit: UTY-TRHX
- Cassette Grille: UTG-USYA-W
- External power supply unit: UTZ-GXXA

### Dimensions

(Unit: mm)

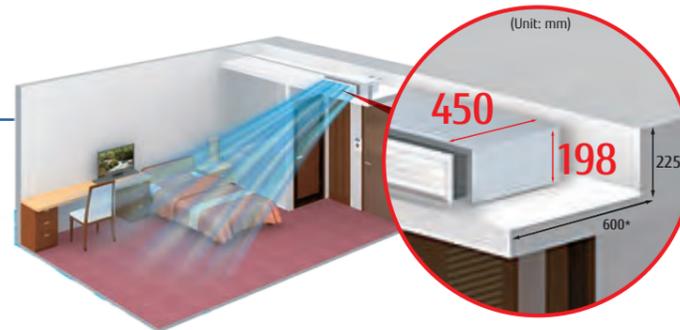


# Low Static Pressure Duct Mini Duct (With drain pump)



## Space saving design

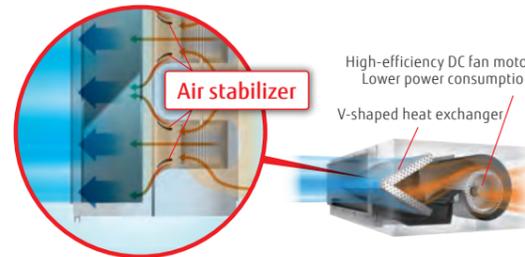
- Fits into a space 198 mm high and 450 mm deep
- 30% smaller than previous-generation models
- Weighs 16 kg, 10% lighter



\*: Minimum clearance requirement

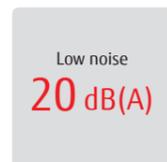
## Optimum airflow path and low noise operation

The stabilized airflow reduces the noise level significantly.

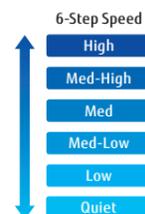


## 6-speed control\*

Multistep airflow adjustment allows installation in a quiet location.



at 04 model

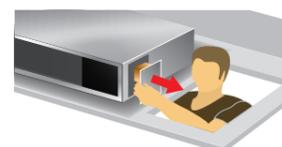


\* Remote controller is compatible with the following:  
UTY-RNRY25/UTY-RLRV/UTY-RSRV/UTY-RHRV/UTY-DCGY22/UTY-ALGX21/UTY-APGX21



## 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



## Specifications

Model name	ARXK004GLGH	ARXK007GLGH	ARXK009GLGH	ARXK012GLGH	ARXK014GLGH	ARXK018GLGH	ARXK024GLGH
Power source	Single phase, ~230 V, 50 Hz						
Capacity	Cooling	1.1	2.2	2.8	3.6	4.5	7.1
	Heating	1.3	2.8	3.2	4.0	5.0	8.0
Input power	W	26	28	28	35	66	80
Airflow rate	High	460	460	460	550	760	1,160
	Med-High	440	440	440	520	660	1,060
	Med	420	420	420	480	560	960
	Med-Low	400	400	400	450	490	860
	Low	370	370	370	410	410	750
	Quiet	340	340	340	340	340	470
Static pressure range	Pa	0 to 30	0 to 30	0 to 30	0 to 30	0 to 50	0 to 50
Standard static pressure		10	10	10	10	15	15
Sound pressure level	High	25	26	26	29	34	32
	Med-High	24	25	25	27	31	30
	Med	23	24	24	26	28	28
	Med-Low	22	23	23	25	26	27
	Low	21	22	22	24	24	25
	Quiet	20	21	21	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 × 1,100 × 450
Weight	kg (lbs)	14.5 (32)	15.5 (34)	15.5 (34)	16 (35)	16 (35)	22.5 (50)
Connection pipe diameter	Liquid (Flare)	6.35	6.35	6.35	6.35	6.35	9.52
	Gas (Flare)	9.52	9.52	9.52	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

Remote sensor unit:	UTY-XSZX	External power supply unit:	UTZ-GXXA
IR receiver unit:	UTB-YWC	Auto Louver Grille Kit:	UTD-GXTA-W (004-014)
Silver Ion Filter:	UTD-HFTA (004-014)		UTD-GXTB-W (018)
	UTD-HFTB (018)		UTD-GXTC-W (024)
	UTD-HFTC (024)		

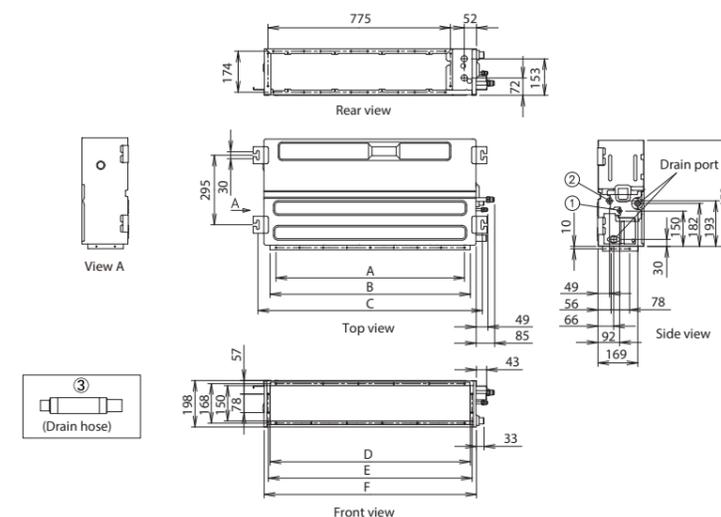
## Auto Louver Grille Kit (Optional)

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

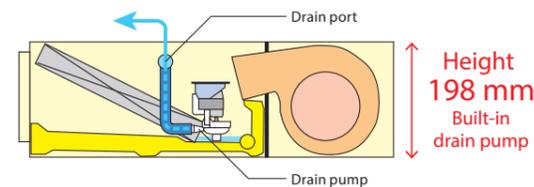
	ARXK004-014	ARXK018	ARXK024
A	P100×6=600	P100×8=800	P100×10=1000
B	650	850	1050
C	752	952	1152
D	650	850	1050
E	665	864	1064
F	700	900	1100

# Low Static Pressure Duct Slim Duct/Slim Concealed Floor



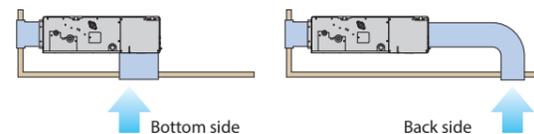
## Slim design

Slim design allows for installation in a tight ceiling space.



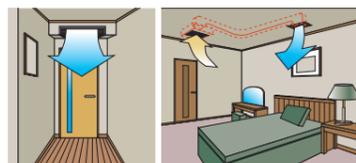
## Air intake

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

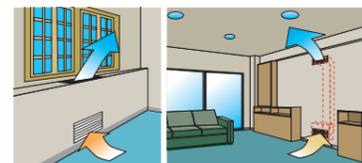


## Flexible installation

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.

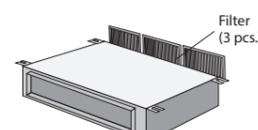
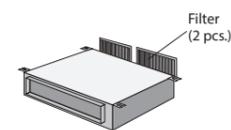


Static pressure range  
**0 to 90 Pa**

\*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

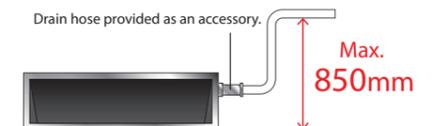
Model name		ARXD04GALH*	ARXD007GLEH	ARXD009GLEH	ARXD012GLEH	ARXD014GLEH	ARXD018GLEH	ARXD024GLEH
Power source		Single phase, ~230 V, 50 Hz						
Capacity	Cooling	1.1	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	1.3	2.8	3.2	4.0	5.0	6.3	8.0
Input power		40	44	50	54	92	83	122
Airflow rate	High	510	550	600	600	800	940	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	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)	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

Remote sensor unit: UTY-XSZX  
IR receiver unit: UTB-YWC (04)  
Silver Ion Filter: UTD-HFTA (04, 007-014)  
UTD-HFTB (018)  
UTD-HFTC (024)

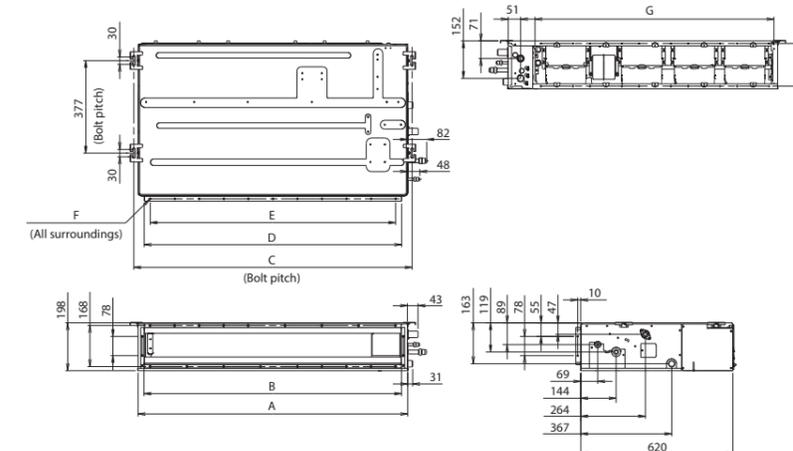
External power supply unit: UTZ-GXXA  
Auto Louver Grille Kit: UTD-GXTA-W (04, 007-014)  
UTD-GXTB-W (018)  
UTD-GXTC-W (024)



## 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

NEW

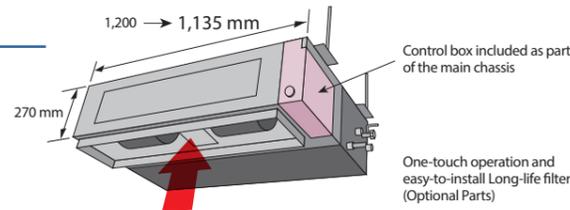
# Low static pressure duct High Efficiency



DC FAN

## Slim & Compact Design

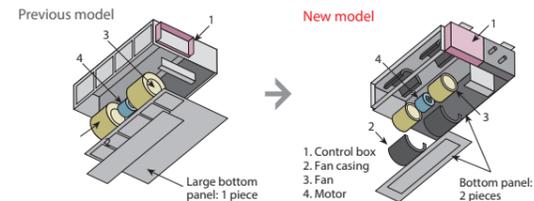
The slim and compact design of the indoor unit, with the control box mounted on the side, allows installation in narrow spaces.



## 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.

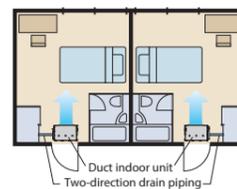
See below for rear-suction type



## Installation styles



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**

Model: ARXP018GLFH/ARXP030GLFH \* Production by order



## Specifications

		Tentative	
Model name		ARXP018GLFH	ARXP030GLFH
Power source		Single-phase, ~220V, 50Hz	
Capacity	Cooling	5.6	9.0
	Heating	6.3	10.0
Input power		128	228
Airflow rate	High	1,540	1,940
	Med-High	1,460	1,810
	Med	1,010	1,680
	Med-Low	1,300	1,550
	Low	1,220	1,420
Quiet		1,150	1,300
Static pressure range		0 to 80	0 to 80
Standard static pressure		40	50
Sound pressure level	High	35	40
	Med-High	34	38
	Med	33	37
	Med-Low	32	35
	Low	31	34
Quiet		29	32
Net Dimensions (H × W × D)		270 × 1,135 × 700	270 × 1,135 × 700
Weight		40(48)	40(88)
Connection pipe diameter	Liquid (Flare)	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].

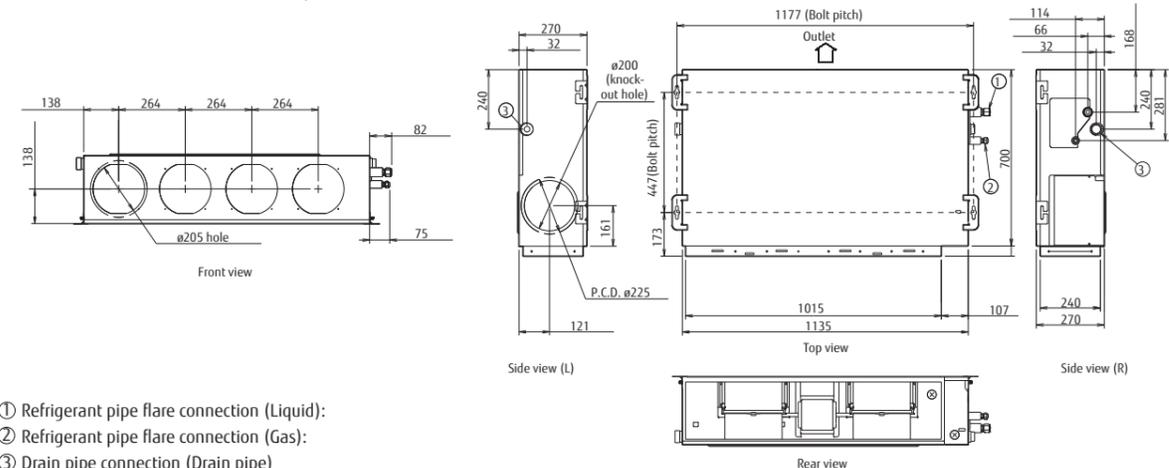
## Optional parts

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  
External power supply unit: UTZ-GXXA 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.



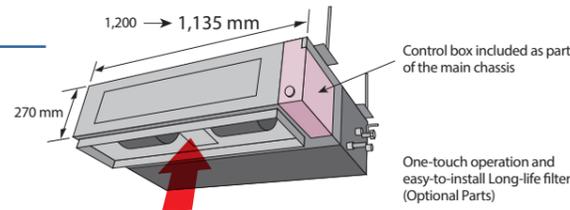
- ① Refrigerant pipe flare connection (Liquid):
- ② Refrigerant pipe flare connection (Gas):
- ③ Drain pipe connection (Drain pipe)

# Medium static pressure duct Normal



## Slim & Compact Design

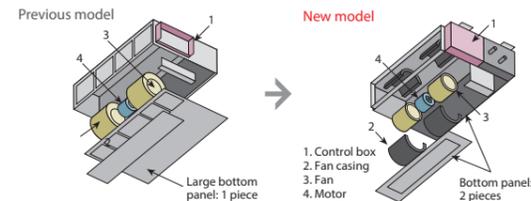
The slim and compact design of the indoor unit, with the control box mounted on the side, allows installation in narrow spaces.



## 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.

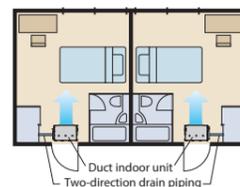
See below for rear-suction type



## Installation styles



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**

Model: ARXA024GLEH/ARXA030GLEH/ARXA036GLEH/ARXA045GLEH



## Specifications

Model name			ARXA024GLEH	ARXA030GLEH	ARXA036GLEH	ARXA045GLEH
Power source			Single phase, ~230 V, 50 Hz			
Capacity	Cooling	kW	7.1	9.0	11.2	12.5
	Heating	kW	8.0	10.0	12.5	14.0
Input power	W		94	108	194	240
Airflow rate	High	m <sup>3</sup> /h	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	dB(A)	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)	mm	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].

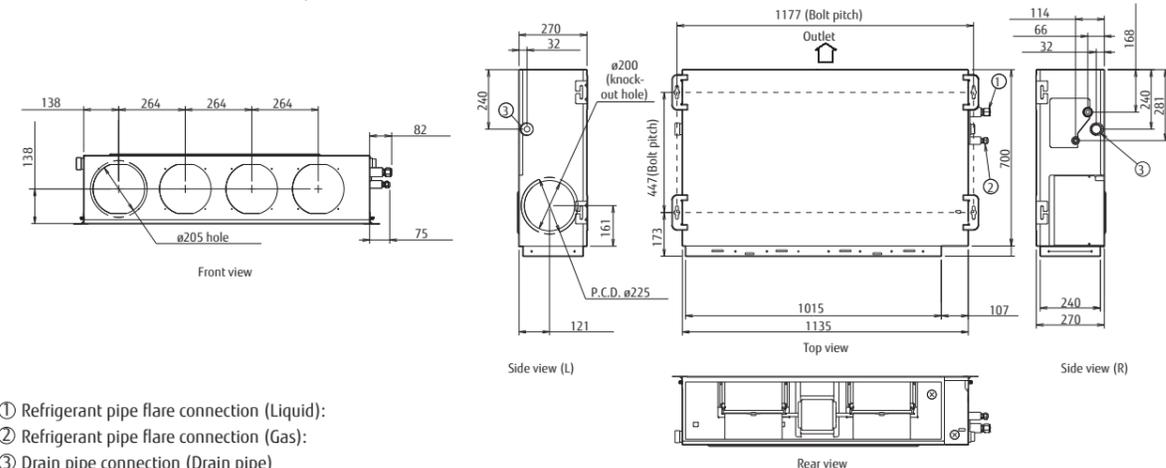
## Optional parts

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
External power supply unit:	UTZ-GXXA	Silver Ion Filter:	UTD-HFND

## Dimensions

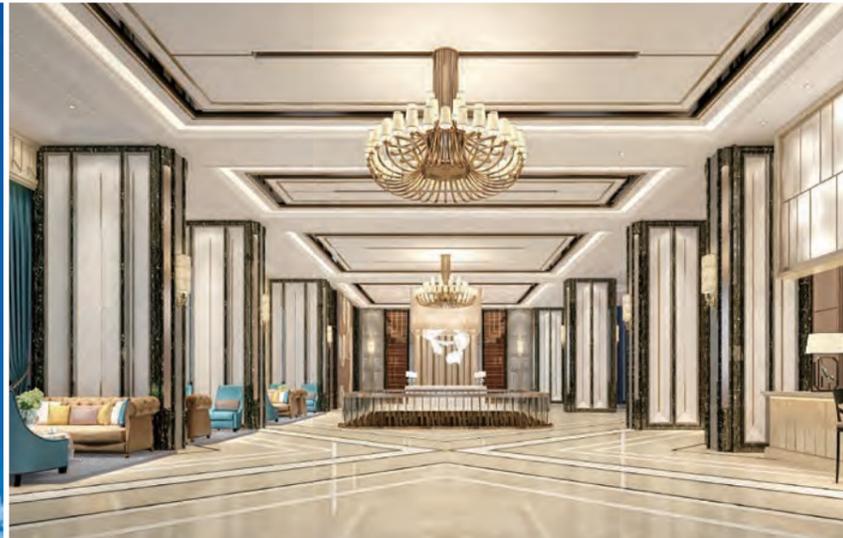
(Unit: mm)

\*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



Model: ARXC036GTEH/ **NEW** ARXC045GTEH/ **NEW** ARXC060GTEH  
ARXC072GTEH/ARXC090GTEH/ARXC096GTEH



ARXC036/045/060GTEH



ARXC072/090GTEH



ARXC096GTEH

## 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).

MAX. 200 Pa  
(036 type)

(ARXC036/045/060 type)

MAX. 250 Pa  
(045/060 type)

MAX. 300 Pa

(ARXC072/090 type)

MAX. 300 Pa

(ARXC096 type)

## 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.

(ARXC036/045/060 type)

(ARXC072/090 type)

(ARXC096 type)

(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.

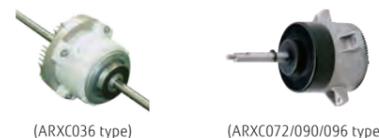
**New model (ARXC036GTEH)**

**ARXC036GTEH:**  
Plastic fan [42 dB(A)]  
\* Model: Material  
(Actual noise measurement value measured at 100 Pa)

500 mm  
Heat exchanger  
Plastic fan Ø225 mm  
Casing (Plastic)  
400 mm

## High-efficiency DC fan motor achieves low energy consumption.

Improved motor efficiency compared to the previous model



## Specifications

		Tentative					
Model name		ARXC036GTEH	ARXC045GTEH	ARXC060GTEH*	ARXC072GTEH*	ARXC090GTEH*	ARXC096GTEH*
Power source		Single phase, ~230 V, 50 Hz					
Capacity	Cooling	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		207	715	730	681	819	838
Airflow rate	High	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					
Standard static pressure		0 to 200	100 to 250	100 to 250	0 to 300	0 to 300	0 to 300
Sound pressure level	High	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	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

- 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 (036/072/090/096)
- WLAN adapter: UTY-TFSXZ1 (036/072/090/096)
- Silver Ion Filter: UTD-HFKA (036)  
UTD-HFKB (045/060)

## 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)

# Compact floor



Model: AGYA004GCGH/AGYA007GCGH/AGYA009GCGH  
 AGYA012GCGH/AGYA014GCGH  
 [external EEV]  
 AGYE004GCEH/AGYE007GCEH/AGYE009GCEH  
 AGYE012GCEH/AGYE014GCEH

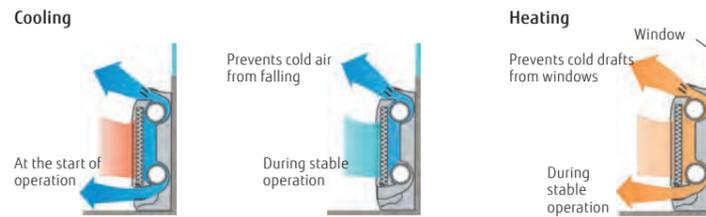


### Specifications

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	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	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	
Sound pressure level	High	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)		600 × 740 × 200						600 × 740 × 200				
Weight		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)	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		

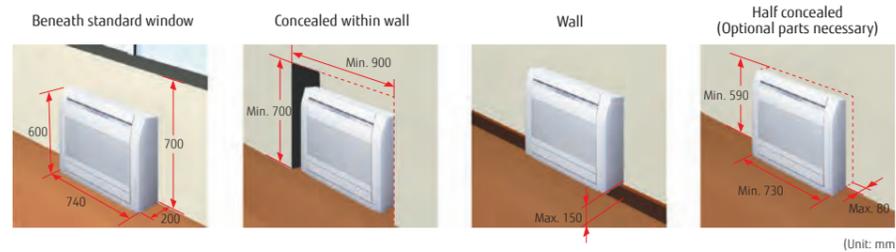
### 2-fan and wide airflow

A 2-fan individual vertical airflow cools or warms the entire room comfortably.



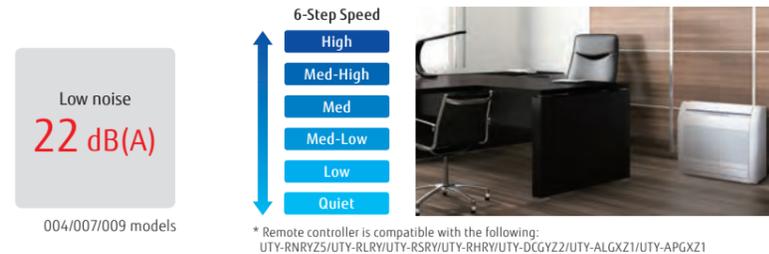
### Flexible and easy installation

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.



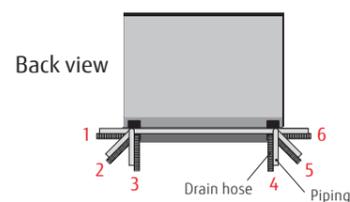
### Quiet operation

6-fan speed control for quiet operation (via 2-wire controller)



### 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.

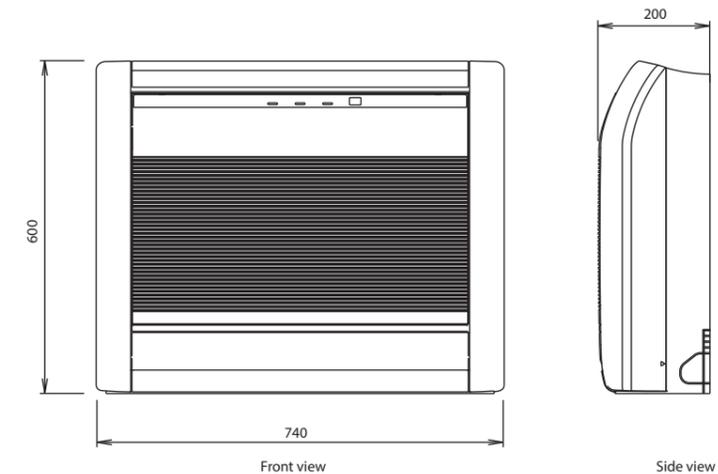


### Optional parts

- Partially concealing kit: UTR-STA
- External power supply unit: UTZ-GXXA
- WLAN adapter: UTY-TFSXZ1
- Silver Ion Filter: UTR-FA03-5

### Dimensions

(Unit: mm)



# Floor/Ceiling



Model: ABYA012GTEH/ABYA014GTEH/ABYA018GTEH/ABYA024GTEH



### 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	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655
Weight		kg (lbs) 25 (55)	26 (57)	26 (57)	27 (60)
Connection pipe diameter	Liquid (Flare)	6.35	6.35	6.35	9.52
	Gas (Flare)	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]

### Flexible installation

#### Example of floor standing installation

Floor standing console with the back against the wall



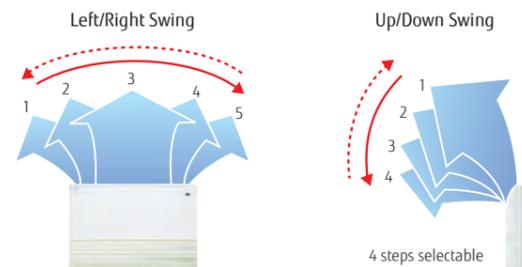
#### Example of ceiling installation

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.

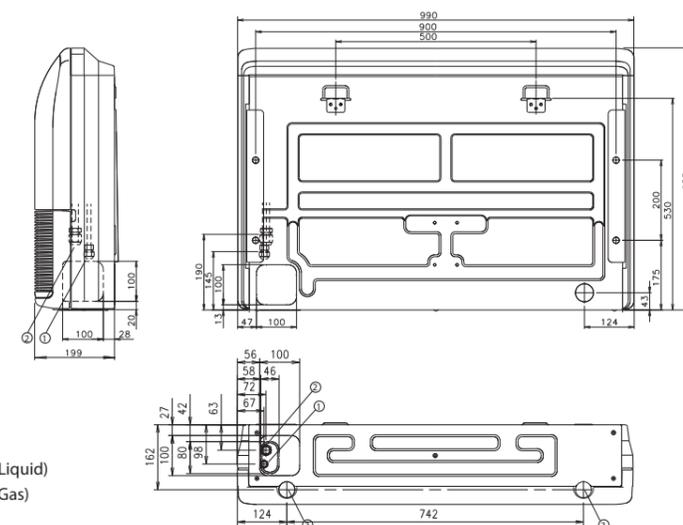


### Optional parts

- External power supply unit: UTZ-GXXA
- WLAN adapter: UTY-TFSXZ1

### Dimensions

(Unit: mm)



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

# Ceiling



Model: ABYA030GTEH/ABYA036GTEH/ABYA045GTEH / ABYA054GTEH

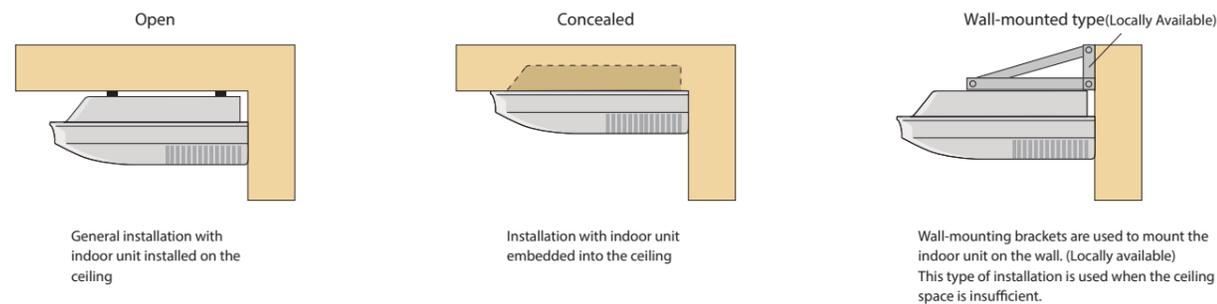


### Specifications

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		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)	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			

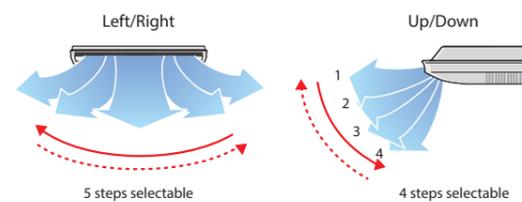
Note: Specifications are subject to the following conditions:  
 Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.  
 Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.  
 Pipe length: 7.5 m; Height difference between outdoor unit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

### Installation



### Double auto swing and wide airflow

Auto airflow direction and auto swing



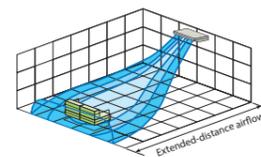
### High-power DC fan motor

- High power
- Wide rotation range
- High-efficiency

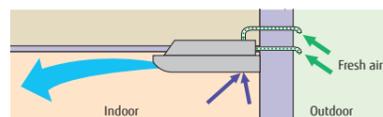


### Long airflow

Long airflow provides comfort in every corner of a large room.



### Fresh air intake

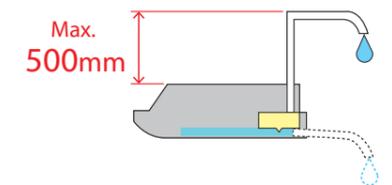


### Slim & Compact Design



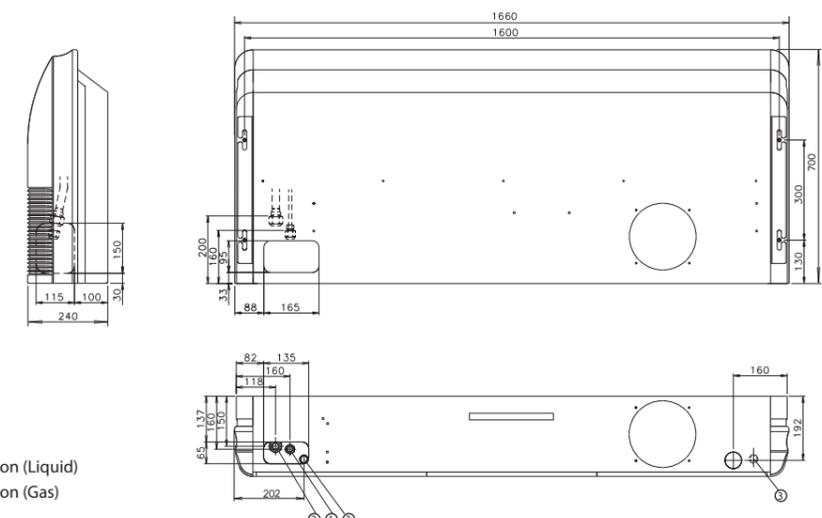
### Optional parts

- Drain pump unit: UTR-DPB24T
- Flange: UTD-RF204
- External power supply unit: UTZ-GXXA
- WLAN adapter: UTY-TFSX21



### Dimensions

(Unit: mm)



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

# Wall-mounted type

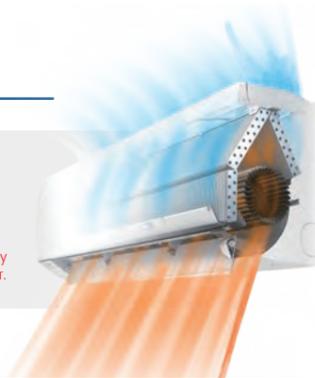


## Highly-efficiency, compact design

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.

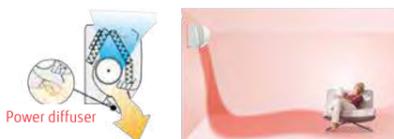


## More comfortable airflow

The unique power diffuser provides comfortable air conditioning.

### Heating

The vertical airflow provides powerful floor-level heating.



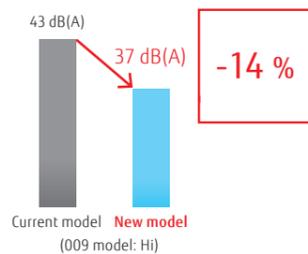
### Cooling

The left/right airflow avoids blowing cool air directly at the occupants in a room.



## Quiet operation & 6-Step Fan Speed Control

The airflow structure achieves significant noise reduction. Multistep airflow adjustment to suit the environment



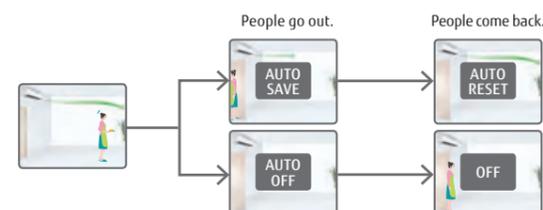
- 6-Step Speed
- High
- Med-High
- Med
- Med-Low
- Low
- Quiet



\* Remote controller is compatible with the following:  
UTY-RNRV25/UTY-RLRV/UTY-RSRV/UTY-RHRV/UTY-DCGY22/UTY-ALGXZ1/UTY-APGXZ1

## The human 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.



Model: ASYA004GCGH/ASYA007GCGH/ASYA009GCGH  
ASYA012GCGH/ASYA014GCGH  
[external EEV]  
ASYE004GCEH/ASYE007GCEH/ASYE009GCEH  
ASYE012GCEH/ASYE014GCEH



## Specifications

Model name	ASYA004GCGH	ASYA007GCGH	ASYA009GCGH	ASYA012GCGH	ASYA014GCGH	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
	Heating	1.3	2.8	3.2	4.0	4.5	1.3	2.8	3.2	4.0	
Input power	W		12	19	20	25	36	12	19	25	
	kW		1.1	2.2	2.8	3.6	4.0	1.1	2.2	2.8	
Airflow rate	High	450	550	610	690	800	450	550	610	690	
	Med-High	430	510	560	610	740	430	510	560	610	
	Med	400	470	510	560	680	400	470	510	560	
	Med-Low	380	410	440	530	610	380	410	440	530	
	Low	360	360	360	470	550	360	360	360	470	
	Quiet	310	310	310	330	330	310	310	310	330	
Sound pressure level	High	31	34	37	40	44	31	35	43	44	
	Med-High	30	32	35	37	42	30	32	38	42	
	Med	28	30	32	35	40	28	30	34	40	
	Med-Low	27	28	29	33	37	27	27	29	33	
	Low	26	26	26	30	34	26	24	24	30	
	Quiet	22	22	22	24	24	22	22	22	24	
Net Dimensions (H x W x D)	mm	268 x 840 x 203					268 x 840 x 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)	
Connection pipe diameter	Liquid (Flare)	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	
Drain Hose Diameter (I.D./O.D.)	mm	13.8/15.8 to16.7					13.8/15.8 to16.7				
EV kit (optional)		-					UTR-EV09XB		UTR-EV14XB		

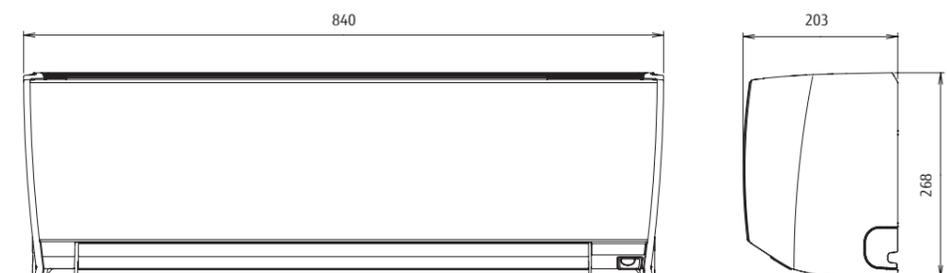
Note: Specifications are subject to the following conditions:  
Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.  
Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.  
Pipe length: 7.5 m; Height difference between outdoor unit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

External power supply unit: UTZ-GXXA  
WLAN adapter: UTY-TFSXZ1  
Silver Ion Filter: UTR-FA16-5

## Dimensions

(Unit: mm)



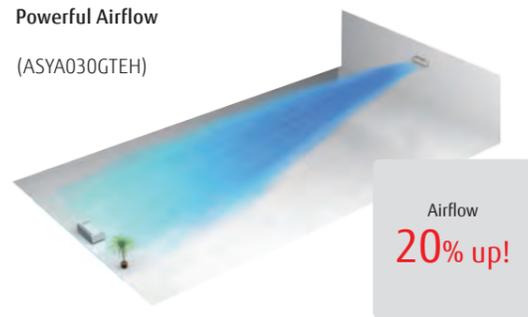
# Wall-mounted type



## Powerful & Comfort airflow

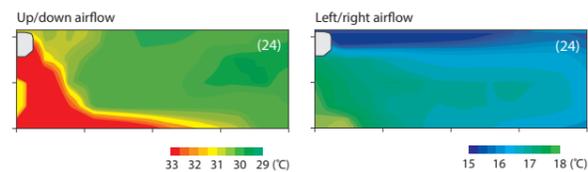
### Powerful Airflow

(ASYA030GTEH)



### Power diffuser

(ASYA018/024GCEH)



## Human sensor (ASYA030/034GTEH only)

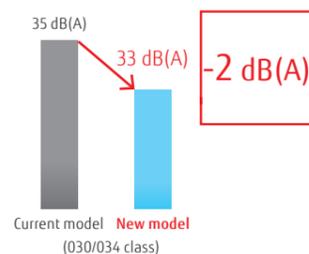
The Human sensor detects the movements of people to suppress operation when people are in the room, automatically reducing power consumption to save electricity bills.

\* UTY-RNRYZ5 Wired remote controller with touch panel and UTY-DCGYZ2 Central remote controller only



## 6-step fan speed control for quiet operation

The airflow structure 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-RSRY/UTY-RHRY/UTY-DCGYZ2/UTY-ALGXZ1/UTY-APGXZ1

Model: **NEW** ASYA018GCEH/ **NEW** ASYA024GCEH

ASYA030GTEH/ASYA034GTEH



ASYA018/024GCEH



ASYA030/034GTEH

## Specifications

Model name		Tentative				
		ASYA018GCEH	ASYA024GCEH	ASYA030GTEH	ASYA034GTEH	
Power source		Single-phase, ~220 V, 50Hz				
Capacity	Cooling	5.6	7.1	9.0	10.0	
	Heating	6.3	8.0	10.0	11.2	
Input power		W				
Airflow rate	High	840	1,100	1,440	1,620 / 1,520	
	Med-High	820	1,010	1,200	1,300	
	Med	790	930	1,050	1,120	
	Med-Low	760	850	940	980	
	Low	720	770	890	890	
	Quiet	690	730	700	700	
Sound pressure level	High	41	48	53	55 / 54	
	Med-High	40	46	49	51	
	Med	39	43	45	47	
	Med-Low	38	41	42	43	
	Low	36	38	39	39	
	Quiet	35	35	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)	mm	12.70	15.88	15.88	15.88
Drain Hose Diameter (I.D./O.D.)			12/16		13.8/15.8 to 16.7	

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 ASYA018GCEH to an outdoor unit other than the outdoor unit of the J-VL Series, the pipe diameter should be Ø9.52/Ø15.88 mm (Liquid/Gas).

## Optional parts

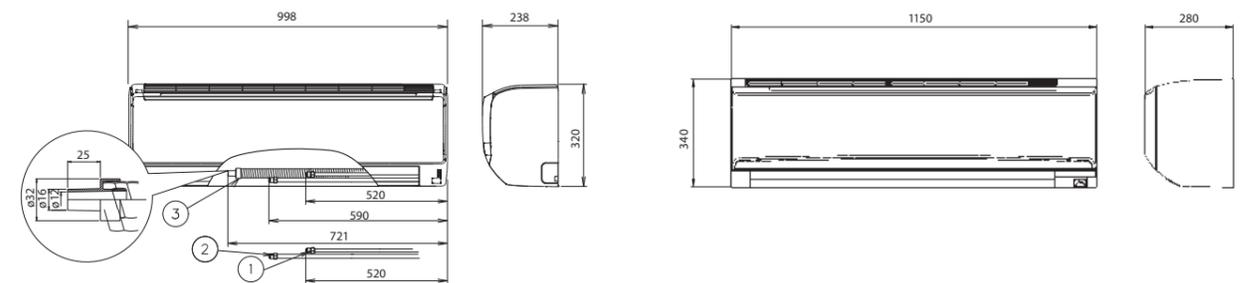
- External power supply unit: UTZ-GXXA
- WLAN adapter: UTY-TFSXZ1
- Silver Ion Filter: UTR-FA13-3

## Dimensions

(Unit: mm)

Models: ASYA018/ASYA024

Models: ASYA030/ASYA034

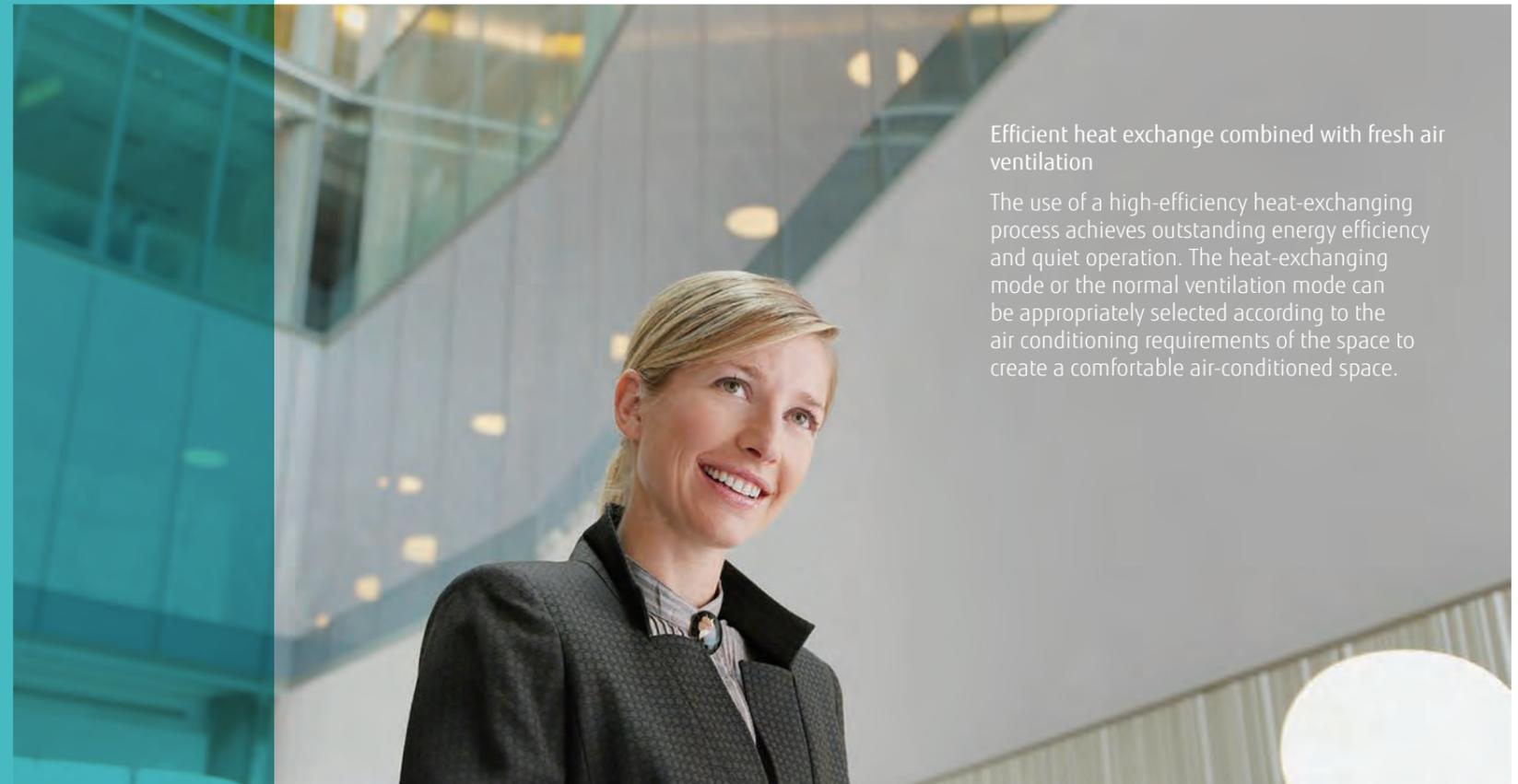
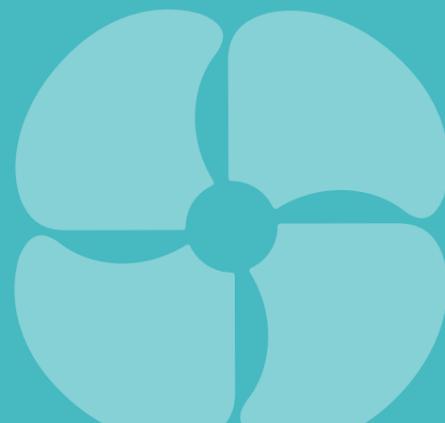


- ① Refrigerant pipe flare connection (Liquid)
- ② Refrigerant pipe flare connection (Gas)
- ③ Drain pipe connection

# 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 air 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 <sup>3</sup> /h)	250	350	500	800	1000
<b>Energy Recovery Ventilator</b>	 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
<b>DX kit for Air handling applications for VRF Outdoor unit</b>	 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	 Control unit UTY-VDGX	 EEV unit UTP-VX90A × 2	 Control unit UTY-VDGX

Connectable capacity class (kW)	3.5 - 22.0
<b>DX-kit for Air handling applications for VRF Outdoor unit</b>	 UTY-XDZX

Connectable capacity class (kW)	25 - 96
<b>Air handling unit</b>	 AHYA/AHYB/AHYC/AHYD/AHYE

# Energy Recovery Ventilator



The energy recovery ventilator unit provides energy efficiency for comfort and improved savings.

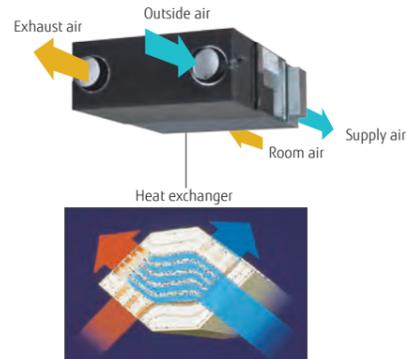
## Heat exchange ventilation and normal ventilation

### Heat exchange ventilation

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

### Normal ventilation

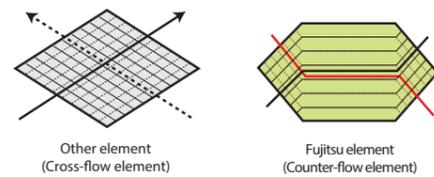
Used when the indoor space does not require cooling or heating, i.e., when there is little temperature difference between the indoor and outdoor environments.



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.

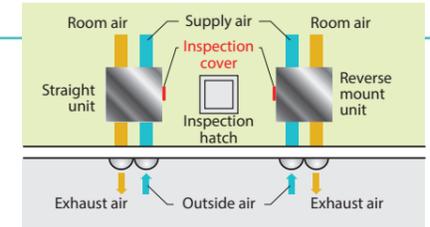
## Slim design for easier installation

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
- Air volume High/Low
- Heat exchange ventilation and normal ventilation
- On/Off Timer
- Clean filter display



Model: UTZ-BD025C/UTZ-BD035C/UTZ-BD050C/UTZ-BD080C/UTZ-BD100C



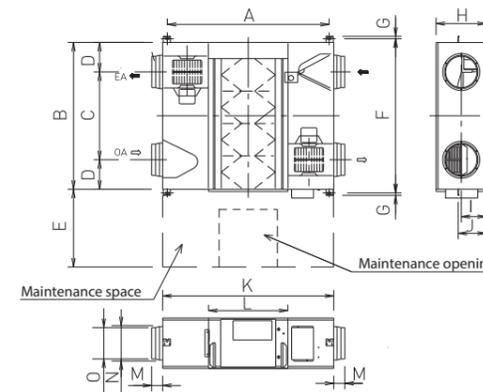
## Specifications

Rated flow rate	250 m <sup>3</sup> /h		350 m <sup>3</sup> /h		500 m <sup>3</sup> /h		800 m <sup>3</sup> /h		1000 m <sup>3</sup> /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 <sup>3</sup> /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		
Normal Ventilation	Energy exchange efficiency heat pump	(Extra high)/High/Low	%	70/70/72	69/69/73	67/67/69	71/71/74	71/71/76		
	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 <sup>3</sup> /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		
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)



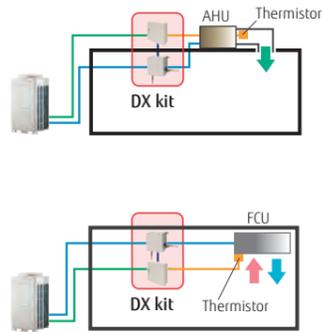
	UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100C
A	810	978	1,018	1,250	1,250
B	599	804	904	884	1,134
C	315	580	640	428	678
D	142	112	132	228	228
E	600	600	600	600	600
F	655	860	960	940	1,190
G	19	19	19	19	19
H	270	317	317	388	388
I	135	159	159	194	194
J	159	182	182	218	218
K	882	1,050	1,090	1,322	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 air ventilation and room temperatures.

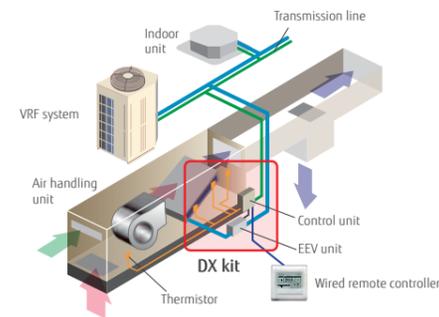
## Multiple temperature sensors optimally control an Air handling unit and a fan coil unit.



When connected to an Air handling unit, the temperature of supply air is controlled by a discharge air sensor.

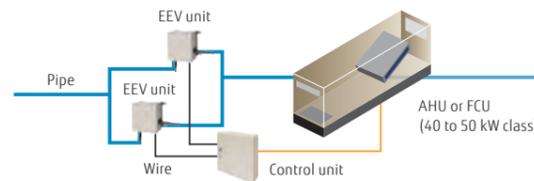
When connected to a fan coil unit, the room temperature is controlled by the discharge air sensor.

### Application as part of a VRF system



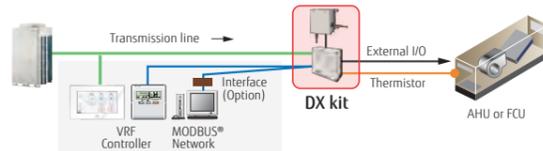
## Supports a wide range of capacity classes

- 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

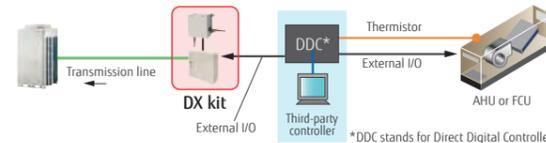


## A variety of control options that meet application requirements

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

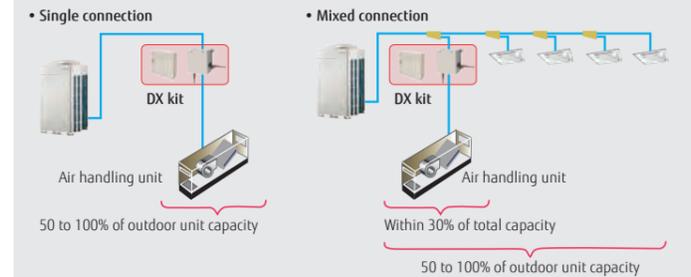
### MODBUS® Control

Can be controlled via a MODBUS®-enabled BMS using an optional interface.

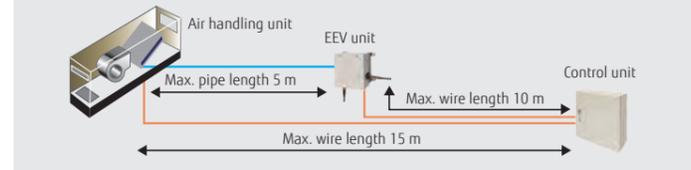
## Installation requirements

- 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. pipe 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



### Pipe and wire length



### Optional separation tube to connect two EEV units: UTP-LX180A



### 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		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].

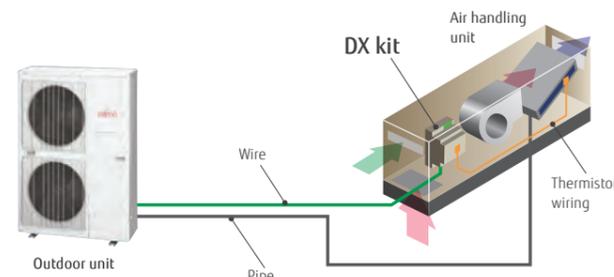
## DX kit for Air handling applications for Single Split Outdoor Units



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

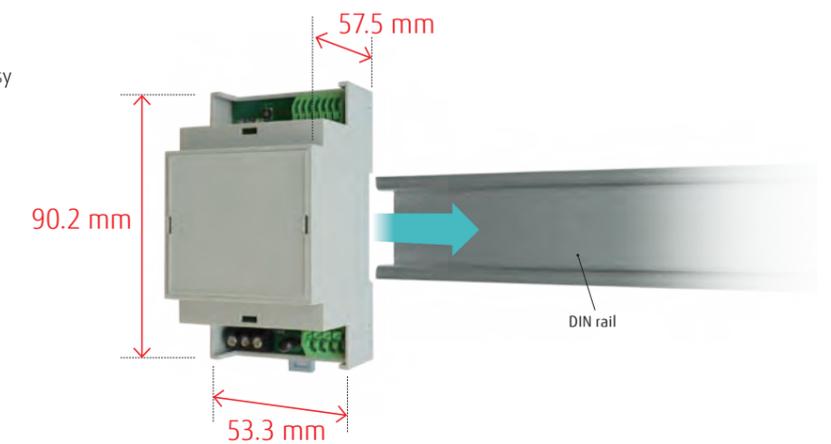
- Status of Compressor, Defrost, and Errors (Potential free relays)
- Status indicator with LED

#### 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 device 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
Model name		UTY-XDZX										
Power source		230/1/50										
Dimensions (H × W × D)		90.2 × 53.3 × 57.5										
Weight		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 AIRSTAGE™ 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)



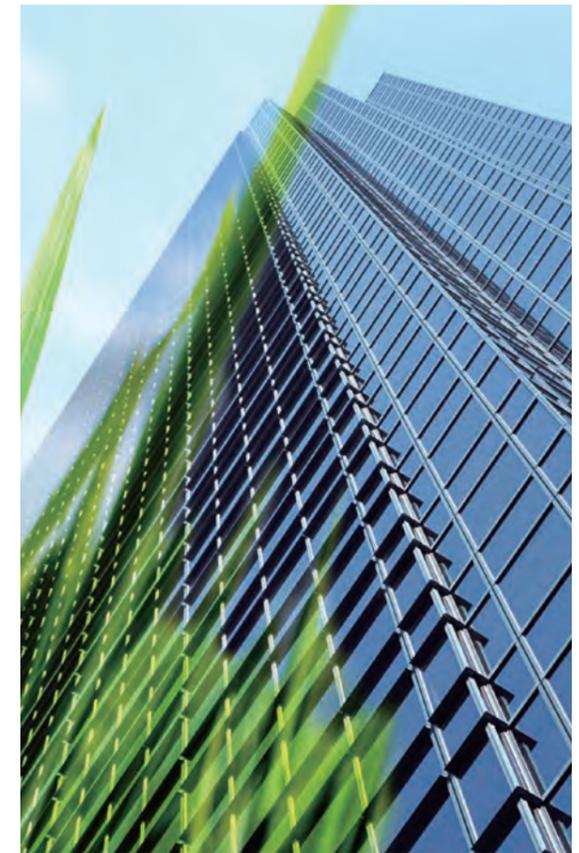
FUJITSU GENERAL (Euro) GmbH participates in the ECP program for AHU. Check ongoing validity of certificate: [www.eurovent-certification.com](http://www.eurovent-certification.com)



# System Overview

Air handling applications available in Fujitsu General AIRSTAGE™ 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 AIRSTAGE™ 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 m<sup>3</sup>/h with cooling capacities from 25 to 96 kW.



## 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

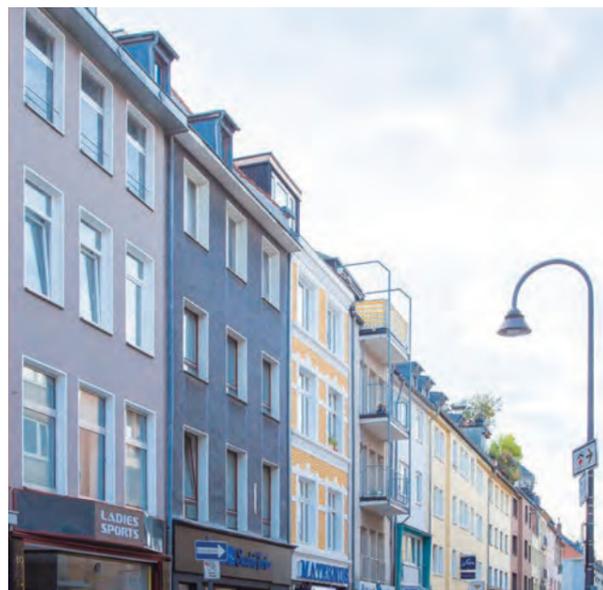
Integrating an AHU into the building climate control system simplifies the design and installation processes based on a single, common technology. From project follow-up through to installation, commissioning, and maintenance, all procedures are simplified. The above features allow a single installation company to carry out design, installation, and commissioning.

- For AHU control: AHU controller (Only For AHU)  
 \* For mixed connection control: System controller, or third-party controller with MODBUS® converter

# AIRSTAGE™ Lineup

Fujitsu General's AIRSTAGE™ 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	78.5	85.0	90.0	95.0	100.5	107.0	112.0	118.5	123.5	130.0	135.0	
HP	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	
<b>J-IVL Series</b>	 AJY090 LELDH	 AJY108 LELDH	 AJY126 LELDH	 AJY144 LELDH	 AJY162 LELDH																
<b>V-IV Series</b>	<b>Space Saving</b>	 AJY090 LALDH	 AJY108 LALDH	 AJY126 LALDH	 AJY144 LALDH	 AJY162 LALDH	 AJY180 LALDH	 AJY198 LALDH	 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
	<b>Energy Efficiency</b>				 AJY144 LALDHH	 AJY180 LALDHH	 AJY216 LALDHH	 AJY234 LALDHH	 AJY252 LALDHH	 AJY270 LALDHH	 AJY288 LALDHH	 AJY306 LALDHH	 AJY324 LALDHH	 AJY342 LALDHH	 AJY360 LALDHH	 AJY378 LALDHH	 AJY396 LALDHH				
	<b>Set Model</b>																				



**AIRSTAGE™ 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.



**AIRSTAGE™ 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 AIRSTAGE™ 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.

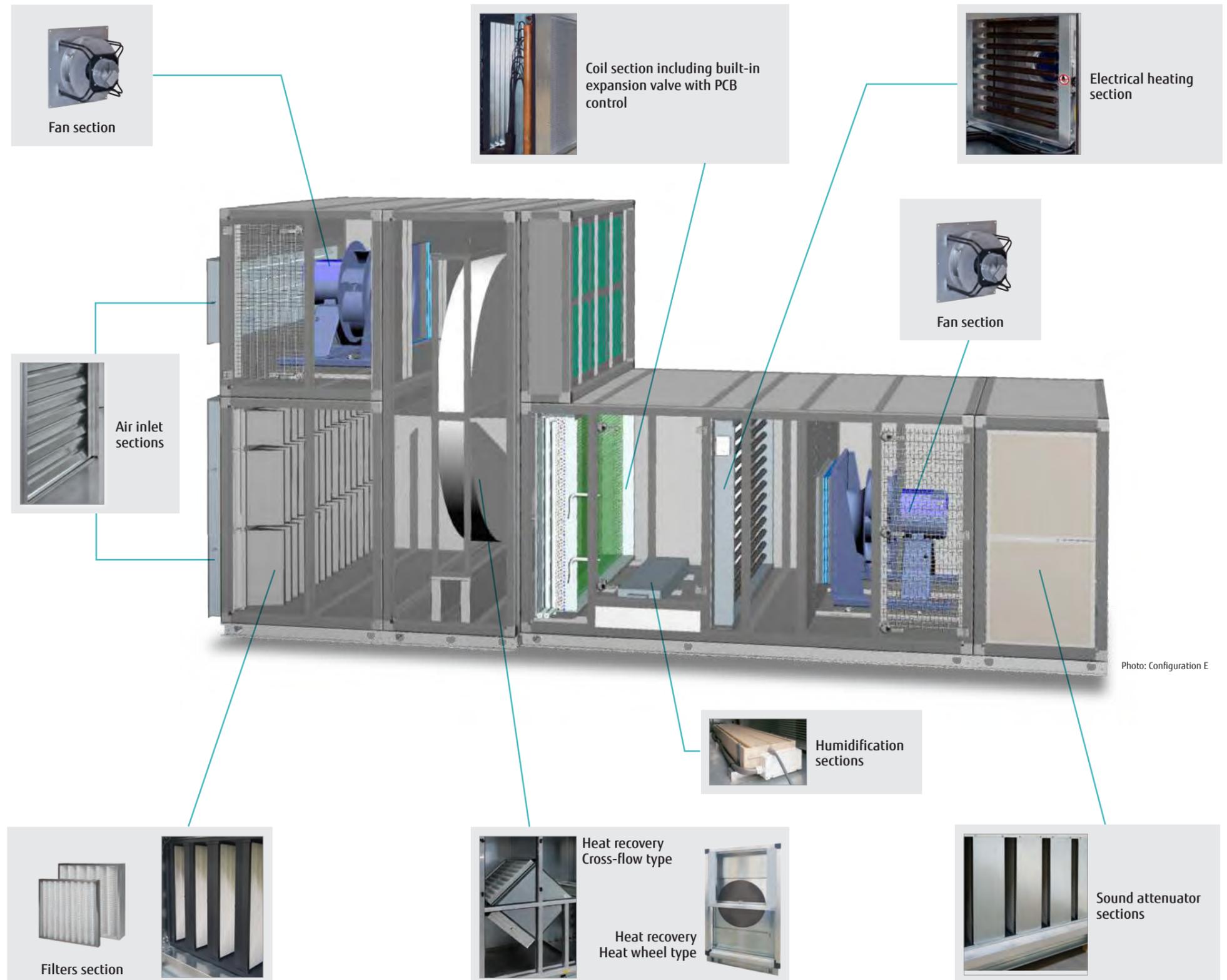


Photo: Configuration E

## 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

# Feature



## Structure

Section of extruded profile 62 x 62 mm (SNAP-IN system)

Photo: Configuration C

- 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

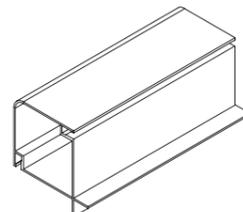
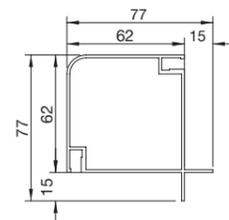
Denomination	Specific weight (kg/dm <sup>3</sup> )	Unitary load of traction break R (kg/mm <sup>2</sup> )	Yielding load S (0,2) (kg/mm <sup>2</sup> )	Stretch (%)	Brinell hardness (kg/mm <sup>2</sup> )
ANTICORODAL 050 UNI 9006/1 EX UNI 3569 (6060) ISO - Al Mg Si 0.5	2,70	20 ÷ 23	16 ÷ 20	12 ÷ 15	60 ÷ 70

## Profile

- Fujitsu General's proprietary bearing has an actual size of 62 x 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

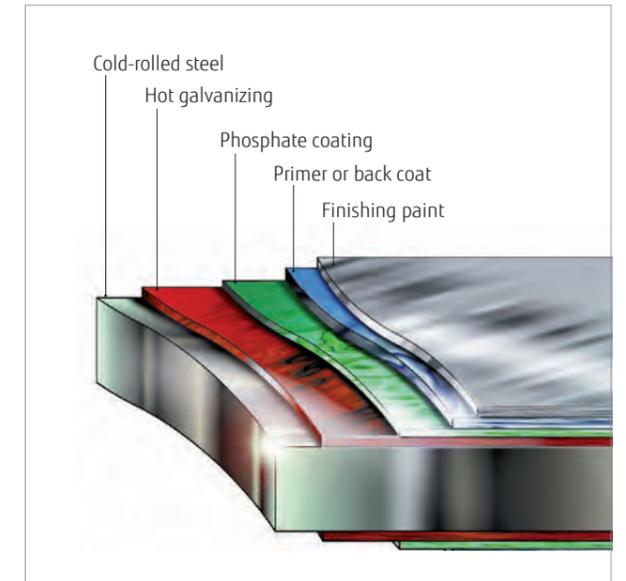
The panels are a double-skin sandwich type made of galvanized steel, with polyurethane foam insulation of a minimum density of 45 kg/m<sup>3</sup> and an actual thickness of 50 mm.

The composition of the panel is as follows:

**Inner skin:** hot-dip galvanized sheet (galvanization thickness of not less than 140 g/m<sup>2</sup>), 5/10 mm thick

**Insulation:** rigid polyurethane foam (minimum density of 45 kg/m<sup>3</sup>, thermal conductivity 0.018 ÷ 0.024 w/m<sup>2</sup>•°C)

**Outer skin:** hot-dip, pre-painted galvanized sheet (galvanizing thickness of not less than 140 g/m<sup>2</sup>), 6/10 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<sup>2</sup>, 6/10 mm thick

Pre-painted steel sheet, 6/10 mm thick, with base support made of hot-dip galvanized steel with galvanization of not less than 140 g/m<sup>2</sup> Euronorm 142-79, a white-grey coating with excellent weather resistance. The protective system consists of a dry film of 25 µm on the exposed skin, and of a dry film of 5 µm 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<sup>2</sup> 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 by-pass 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.

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.

N.B.: ePM1 50% bag filters are mandatory to comply with ECOCODESIGN ErP 2016.

## 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:

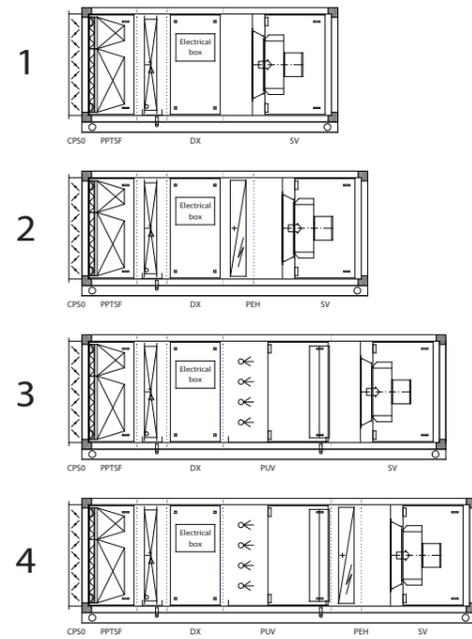
- The exhaust air travels across the semi-circular rotor sector, transferring some of its heat to the metal mass. As the exhaust passes through the half circular rotor sector, it transfers heat to the metal parts, which in turn transfers the heat to the fresh, cool air drawn in from outside through the 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

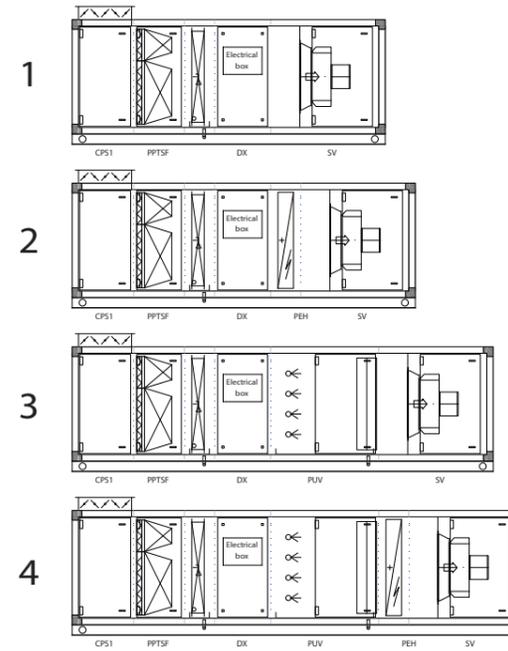
# Dimensions

## Configurations A



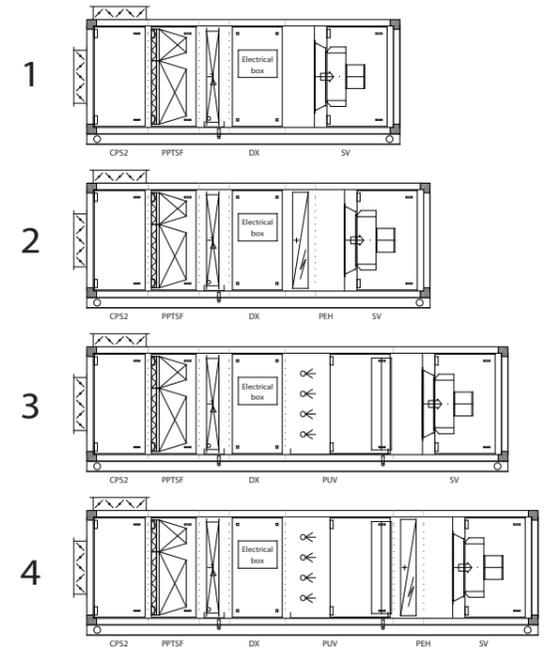
Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYA025GWAA	1	1,064	1,154	2,619	611	3,529
AHYA025GWAB	2	1,064	1,154	3,109	679	4,019
AHYA025GWAC	3	1,064	1,154	2,619	629	3,529
AHYA025GWAD	4	1,064	1,154	3,109	697	4,019
AHYA040GWAA	1	1,199	1,354	2,749	844	3,659
AHYA040GWAB	2	1,199	1,354	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



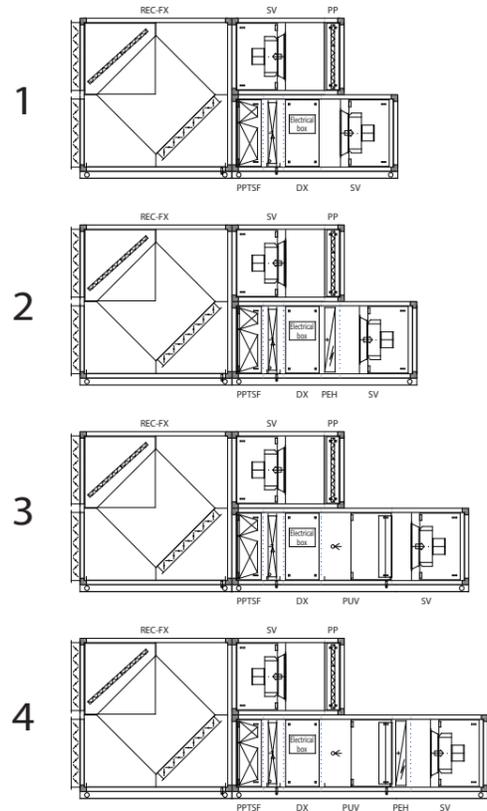
Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYB025GWAA	1	1,179	1,154	2,854	628	3,764
AHYB025GWAB	2	1,179	1,154	3,344	696	4,254
AHYB025GWAC	3	1,179	1,154	2,854	646	3,764
AHYB025GWAD	4	1,179	1,154	3,344	714	4,254
AHYB040GWAA	1	1,314	1,354	3,084	873	3,994
AHYB040GWAB	2	1,314	1,354	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



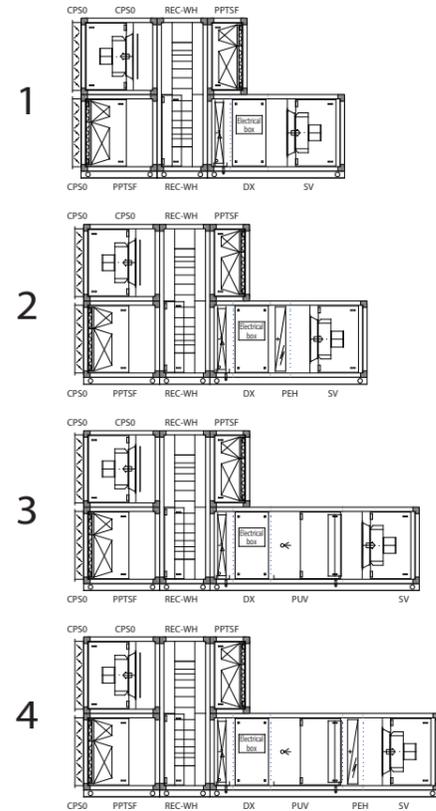
Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYC025GWAA	1	1,179	1,154	2,969	650	3,879
AHYC025GWAB	2	1,179	1,154	3,459	718	4,369
AHYC025GWAC	3	1,179	1,154	2,969	668	3,879
AHYC025GWAD	4	1,179	1,154	3,459	736	4,369
AHYC040GWAA	1	1,314	1,354	3,199	899	4,109
AHYC040GWAB	2	1,314	1,354	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



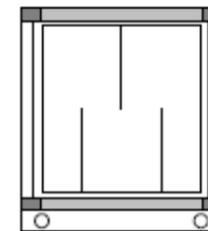
Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYD025GWAA	1	2028/1064	1424/1154	4,311	1,259	5,221
AHYD025GWAB	2	2028/1064	1424/1154	4,801	1,327	5,711
AHYD025GWAC	3	2028/1064	1424/1154	4,311	1,277	5,221
AHYD025GWAD	4	2028/1064	1424/1154	4,801	1,345	5,711
AHYD040GWAA	1	2298/1199	1574/1354	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

Configurations E

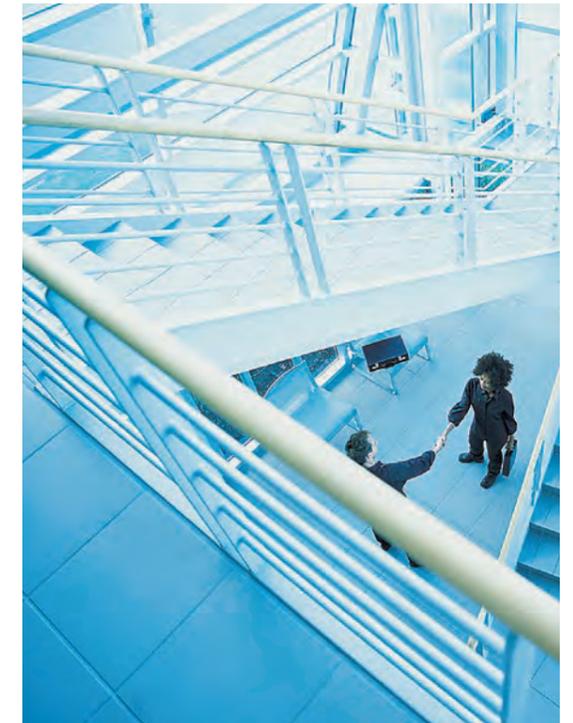


Model name	Config.	H (mm)	W (mm)	L (mm)	kg	L (with silencer) (mm)
AHYE025GWAA	1	2028/1064	1429/1154	3,813	1,150	4,723
AHYE025GWAB	2	2028/1064	1429/1154	4,303	1,226	5,213
AHYE025GWAC	3	2028/1064	1429/1154	3,813	1,168	4,723
AHYE025GWAD	4	2028/1064	1429/1154	4,303	1,244	5,213
AHYE040GWAA	1	2298/1199	1729/1354	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



Connectable AHU model name	H (mm)	L (mm)	W (mm)	Kg
AHY* 025GWA*	1064	910	1154	209
AHY* 040GWA*	1199	910	1354	233
AHY* 048GWA*	1309	910	1574	274
AHY* 080GWA*	1544	910	2074	280
AHY* 096GWA*	1789	910	2250	444

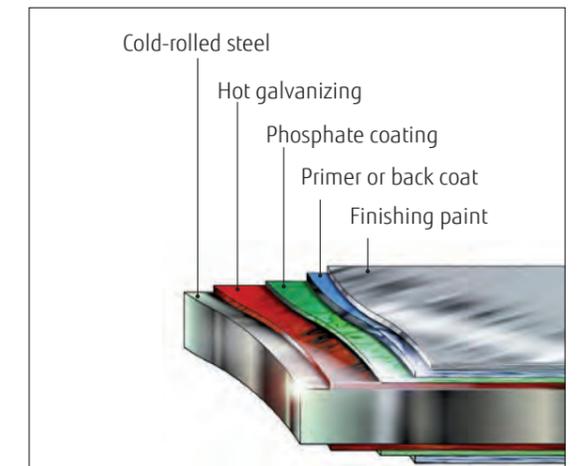


Loose Accessories

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/m<sup>2</sup> 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.



# 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

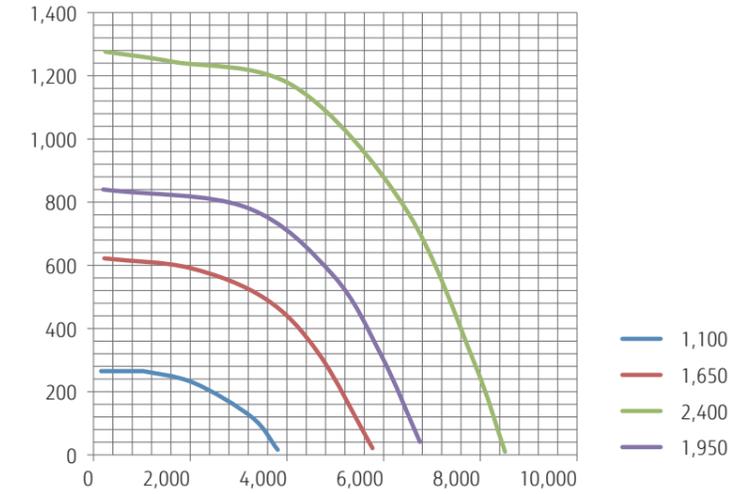
- Select the most suitable AHU model according to the airflow rate.
- Based on the required airflow and overall static pressure value, identify the operating point of the airflow static pressure on the curve for the selected fan.

To calculate the overall static pressure value, refer to the component pressure drop table and add the net static pressure required for the plant.



# Fan characteristic curves

Fan type 400 mm

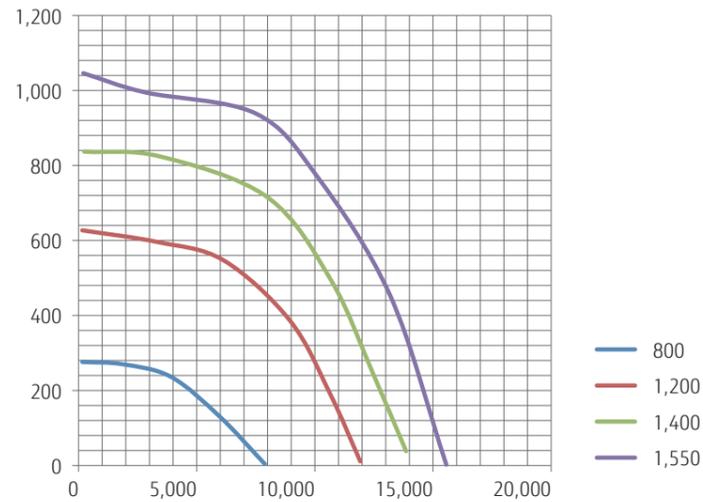


## Component pressure drop table

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	-	-

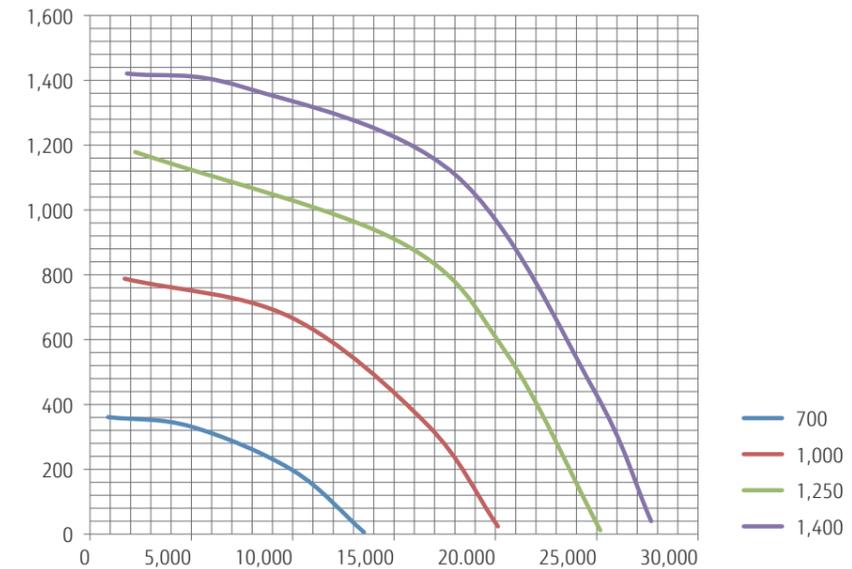
fan type	m³/h	Pa Total static pressure	W	n	LwAin	LwAout
				[1/min]	[dB]	[dB]
400 mm	156	265	124	1100	63	71
400 mm	334	265	134	1100	63	70
400 mm	1002	265	187	1100	62	69
400 mm	1025	265	181	1100	62	69
400 mm	2072	228	234	1100	58	66
400 mm	3275	119	224	1100	62	69
400 mm	3809	16	173	1100	69	74
400 mm	223	622	352	1650	75	82
400 mm	2005	591	642	1650	72	79
400 mm	3564	493	767	1650	68	75
400 mm	4656	321	708	1650	71	77
400 mm	5770	21	487	1650	79	83
400 mm	200	840	509	1950	79	86
400 mm	3163	783	1154	1950	74	81
400 mm	4946	570	1223	1950	74	80
400 mm	5948	316	1027	1950	78	83
400 mm	6750	41	773	1950	83	87
400 mm	245	1276	921	2400	85	92
400 mm	1649	1244	1497	2400	86	92
400 mm	4163	1165	2223	2400	81	87
400 mm	6438	783	2237	2400	81	87
400 mm	7864	296	1738	2400	86	91
400 mm	8510	10	1389	2392	89	93

### Fan type 560 mm



fan type	m³/h	Pa Total static pressure	W	n	LwAin	LwAout
				[1/min]	[dB]	[dB]
560 mm	158	276	209	800	65	72
560 mm	1861	270	345	800	65	71
560 mm	3921	236	438	800	61	67
560 mm	5980	130	452	800	62	67
560 mm	7881	4	313	800	69	74
560 mm	158	627	591	1200	77	83
560 mm	3327	596	1164	1200	75	82
560 mm	6139	547	1471	1200	71	77
560 mm	8950	386	1473	1200	72	78
560 mm	10653	190	1212	1200	76	82
560 mm	11921	11	936	1200	80	85
560 mm	238	837	901	1400	80	87
560 mm	3446	824	1743	1400	80	87
560 mm	8000	715	2403	1400	75	81
560 mm	10693	493	2260	1400	76	82
560 mm	12475	243	1859	1400	80	86
560 mm	13861	38	1521	1400	85	89
560 mm	198	1046	1210	1550	84	90
560 mm	2812	995	2086	1550	84	91
560 mm	7485	939	3131	1550	78	84
560 mm	10059	774	3249	1550	77	84
560 mm	13188	453	2901	1550	82	88
560 mm	15564	2	1948	1550	91	94

### Fan type 710 mm



fan type	m³/h	Pa Total static pressure	W	n	LwAin	LwAout
				[1/min]	[dB]	[dB]
710 mm	891	361	744	700	71	77
710 mm	4975	332	1290	700	69	74
710 mm	10025	196	1427	700	69	75
710 mm	13515	6	880	700	77	83
710 mm	1708	788	1693	1000	81	88
710 mm	9876	670	3179	1000	77	83
710 mm	16634	338	3084	1000	80	86
710 mm	20124	24	2177	1000	87	93
710 mm	2228	1179	3015	1250	87	94
710 mm	15297	901	6054	1250	83	89
710 mm	20495	563	5794	1250	86	92
710 mm	25173	12	3857	1250	92	98
710 mm	1821	1421	3716	1400	89	96
710 mm	7500	1380	5851	1400	89	95
710 mm	17996	1110	8301	1400	86	92
710 mm	24855	445	6916	1400	91	98
710 mm	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*	
<b>Casing</b>						
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 <sup>3</sup>					
<b>Performance</b>						
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
<b>Airflow</b>						
Max.	m <sup>3</sup> /h	5000	8000	9100	16100	18100
Rated	m <sup>3</sup> /h	4500	7200	8600	14500	17300
Min.	m <sup>3</sup> /h	4300	5000	8100	11000	16000
<b>Cross-flow heat recovery</b>						
Efficiency (*)	356	—	—	—	—	—
<b>DX Coil</b>						
Rows	n°	4				
Coil type	25 × 22 - 3/8"					
Coil duty	Cooling/Heating					
Fluid	R410A					
Pipe material	Copper					
Fin material	Aluminum					
<b>Electrical heating</b>						
Stages	n°	3				
Heating capacity	kW	9	15	18	30	36
<b>Humidifier</b>						
Fix steam capacity	kg/h	15	25	30	45	60
<b>Fan</b>						
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

**Configuration D**

Model FG	025	040	048	080	096	
Model name	AHYD025GWA*	AHYD040GWA*	AHYD048GWA*	AHYD080GWA*	AHYD096GWA*	
<b>Casing</b>						
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 <sup>3</sup>					
<b>Performance</b>						
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
<b>Airflow</b>						
Max.	m <sup>3</sup> /h	5000	8000	9100	16100	18100
Rated	m <sup>3</sup> /h	4500	7200	8600	14500	17300
Min.	m <sup>3</sup> /h	4300	5000	8100	11000	16000
<b>Heat recovery</b>						
Efficiency (*)	356	73.3	74.4	74.2	73.7	73.6
<b>DX Coil</b>						
Rows	n°	4				
Coil type	25 × 22 - 3/8"					
Coil duty	Cooling/Heating					
Fluid	R410A					
Pipe material	Copper					
Fin material	Aluminum					
<b>Electrical heating</b>						
Stages	n°	3				
Heating capacity	kW	9	15	18	30	36
<b>Humidifier</b>						
		15	25	30	45	60
<b>Fan</b>						
Type	EC inverter Plug Fan					
Motor data	mm					
	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)	

**Configuration E**

025	040	048	080	096
AHYE025GWA*	AHYE040GWA*	AHYE048GWA*	AHYE080GWA*	AHYE096GWA*
<b>Casing</b>				
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 <sup>3</sup>				
<b>Performance</b>				
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
<b>Airflow</b>				
5000	8000	9100	16100	18100
4500	7200	8600	14500	17300
4300	5000	8100	11000	16000
<b>Cross-flow heat recovery</b>				
75.6	74.7	74.2	75.3	75.6
<b>DX Coil</b>				
4				
25 × 22 - 3/8"				
Cooling/Heating				
R410A				
Copper				
Aluminum				
<b>Electrical heating</b>				
3				
9	15	18	30	36
<b>Humidifier</b>				
15	25	30	45	60
<b>Fan</b>				
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	—	—	—	—
	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	●	—	●	—	—	—	—
Error management	Tree display	●	—	●	—	—	—	—
	Group display	●	—	●	—	—	—	—
	Error notification	●	—	●	—	—	—	—
History	Audible alarm	●	—	●	—	—	—	—
	E-mail notification of errors	●	—	●	—	—	—	—
Operation control	Individual control	Error history	●	—	●	—	—	—
		Operation history	●	—	●	—	—	—
		Control history	●	—	●	—	—	—
		On/Off	●	—	●	—	—	—
		Operation mode*	●	—	●	—	—	—
		Room temperature	●	—	●	—	—	—
		Fan speed	●	—	●	—	—	—
	Individual management	Airflow direction	●	—	●	—	—	—
		Economy mode	●	—	●	—	—	—
		Setting temperature range limitation	●	—	●	—	—	—
Other	Anti-freeze	●	—	●	—	—	—	
	Low noise setting of outdoor units	●	—	●	—	—	—	
	Setting remote control prohibition	●	—	●	—	—	—	
Schedule	Setting temperature range limitation	Setting remote control prohibition	●	—	●	—	—	—
		Filter sign reset	●	—	●	—	—	—
	Memory operations	Memory operations	●	—	●	—	—	—
		Pattern operations	●	—	●	—	—	—
	Schedule	Annual Schedule	●	—	●	—	—	—
		Setting for a specific date	●	—	●	—	—	—
		On/Off per day	72	—	72	—	—	—
		On/Off per week	504	—	504	—	—	—
		Day off	●	—	●	—	—	—
	Remote management	Minimum unit of timer setting (minutes)	10	—	10	—	—	—
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	—	●	—	—	●	—	
Control of external devices	Peak cut control	—	●	—	—	●	—	
	Capacity saving for outdoor unit	—	●	—	—	●	—	
	Record of energy saving operation	—	●	—	—	●	—	
	Information on energy saving	—	●	—	—	●	—	
	Power consumption monitor	—	●	—	—	●	—	
Others	Electricity meter supported	—	●	—	—	●	—	
	Monitor	●	—	—	—	—	●	
	Control	●	—	—	—	—	●	
	Importing and exporting databases	●	—	●	—	—	—	
Others	Automatic clock adjustment	●	—	●	—	—	—	
	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"> <li>Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1</li> <li>Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit)</li> <li>Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)</li> </ul> Supported languages: English, Chinese, French, German, Russian, Spanish, and Polish	
CPU	Intel® Core™ i3 2 GHz or higher	
Memory	<ul style="list-style-type: none"> <li>2 GB or more (for Windows® 7 [32-bit])</li> <li>4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)</li> </ul>	
HDD	40 GB or more of free space	
Screen resolution	1024 × 768 or higher	
Interface	<ul style="list-style-type: none"> <li>Ethernet port (for getting access to the internet using LAN) or a modem (for getting access to the internet using a landline)</li> <li>Up to 6 USB ports (Only required for a server Computer working as a VRF controller)</li> <li>-Maximum of 2 USB ports are required to connect to a White-USB-key/ WibuKey</li> <li>-Up to 4 USB ports required to connect to a Echelon® U10 USB network interface</li> <li>* Maximum number of required USB ports depends on the applicable system configuration.</li> </ul>	<ul style="list-style-type: none"> <li>Ethernet port (for getting access to the internet using LAN) or a modem (for getting access to the internet using a landline)</li> <li>Up to 6 USB ports (Only required for a server Computer working as a VRF controller)</li> <li>-Maximum of 4 USB ports are required to connect to a White-USB-key/ WibuKey</li> <li>-1 USB port is required for an Echelon® U10 USB Network Interface</li> <li>* The maximum number of required USB ports depends on the applicable system configuration.</li> </ul>
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	Option Energy saving	Option 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-054 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 Simple Remote Controller

### CONVERTERS/ADAPTERS

- C-014 WLAN Adapter
- C-015 MODBUS® Converter KNX® converter
- C-016 MODBUS® Interface
- C-017 KNX® Interface
- C-018 WLAN Adapter
- C-019 Multi-split Protocol WLAN Adapter
- C-020 BACnet® Gateway External switch controller



### INDIVIDUAL CONTROL

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

### CENTRALIZED CONTROL

- C-024 Central Remote Controller

### CONVERTERS/ADAPTERS

- C-025 Network Converter for Single-Split Type



### INDIVIDUAL CONTROL

- C-026 Wireless Remote Controller IR receiver unit for Duct and Cassette type

### CENTRALIZED CONTROL

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

### CONVERTERS/ADAPTERS

- C-038 BACnet® Gateway Software
- C-039 BACnet® Gateway Hardware Multiple protocol LAN adapter
- C-040 BACnet®/MODBUS® Router
- C-041 BACnet®/MODBUS® Cloud Device
- C-042 MODBUS® Converter
- C-043 KNX® Converter
- C-044 Signal Amplifier Network Converter for LONWORKS™

- 
- C-046 Control System List

## Optional parts



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



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

- 
- C-059 AIR BEAM Radiation air outlet unit
  - C-060 Optional Parts List
  - C-064 Function List
  - C-068 Separation Tube and other piping products



SPLIT



MULTI-SPLIT



VRF J Series



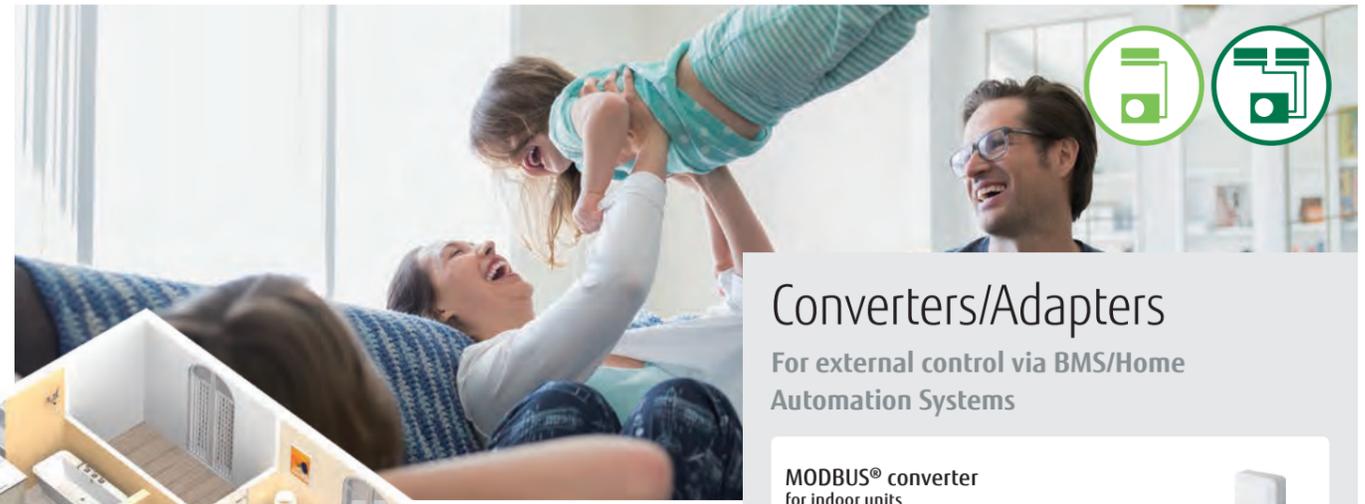
VRF V Series

# 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

For Duct type



IR receiver unit

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



**Central remote controller for 5, 6 & 8-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-VK SX



**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 FGLair app, you can control the heating and cooling of your home anytime, anywhere.

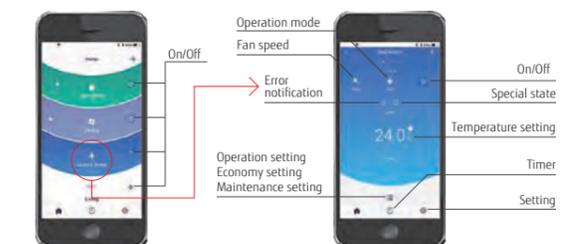
#### WLAN adapter

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



#### 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

**IR receiver unit**

UTB-YWC for duct type  
UTY-TRHX for One-way flow cassette Series  
3D flow cassette Series/duct type



For Cassette type  
for Circular flow cassette Series

UTY-LRHYB1 for cassette type  
UTY-LBHDXD for Circular flow cassette Series

### Air Conditioning Centralized control



**System controller (Software)**  
UTY-APGXZ1/UTY-ALGXZ1 (Lite version)  
**Up to 1600<sup>\*2</sup> Indoor units**

\*1: Echelon® U10 USB Network Interface  
\*2: The Lite version controls up to 400 indoor units.



**Touch panel controller**  
UTY-DTGYZ1  
**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)**



**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-TFSXZ1



**External switch controller**  
UTY-TERX



**Card-key (Locally available)**



**BMS/BAS<sup>\*3</sup>**



**BMS, Home automation system<sup>\*3</sup>**



\*3: BMS/BAS: Building Management System/Building Automation System

### Converters/Adapters for system expansion

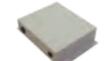
**Network converter DC power supply type**  
UTY-VTGX



**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	Group 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-CGGY	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)				
											
	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 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 Human sensor for meeting room				•							•

# Comparison table of controllers

Item																
Model name	UTY-RNRYZ5	UTY-RLRY	UTY-RVNYM	UTY-RCRYZ1	UTY-RSNYM	UTY-RSRY		UTY-RHRY	UTY-LNHY	UTY-LNTY	UTY-DMMYM	UTY-DCGYZ2	UTY-DTGVZ1	UTY-ALGXZ1	UTY-APGXZ1	
Maximum number of controllable remote controller groups	1	1	1	1	1	1		1	1	1	1	100	400	400	1600	
Maximum number of controllable indoor unit	16	16	16	1	16	16		16	16	16	8	100	400	400	1600	
Maximum number of controllable group	-	-	-	-	-	-		-	-	-	-	50	400	400	1600	
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	●	-	-	●	-		-	-	-	-	-	●*3	●	-	
	Group setting	-	-	-	-	-		-	-	-	-	-	●	●	●	
	Remote controller prohibition	-	-	-	-	-		-	-	-	-	●	●	●	●	
	Anti-freeze setting	●	-	-	●	-		-	-	-	-	●	●	●	●	
	Set temperature auto return	●	●	●	-	-		-	-	-	-	-	●	-	-	
	Economy mode setting	●	●	●	●	-		-	●	●	●	●	●	●	●	
	Human sensor control	●	-	-	-	-		-	-	-	-	●	●	●	●	
Displayed items	Error	●	●	●	●	●		●	-	-	●	●	●	●	●	
	Defrosting	●	●	●	●	●		●	-	-	-	●	●	●	●	
	Current time	●	●	●	-	-		-	●	●	●	●	●	●	●	
	Day of week	●	●	●	-	-		-	-	-	-	●	●	●	●	
	Remote controller prohibition	●	●	●	●	●		●	-	-	●	●	●	●	●	
	Address display	●	●	●	●	●		●	-	-	-	-	●	●	●	
	Room temperature	●	-	●	●	-		●	-	-	-	●*4	●*4	●*4	●*4	
	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	-		-	-	-	Week	Week	Year	Year	Year
			ON/OFF, Temp, Mode, Times per day	8	4	8	-		-	-	-	4	20	20	144	144
ON/OFF timer		●	●	●	●(OFF only)	-		-	●	●	-	-	-	-	-	
Sleep timer		-	-	-	-	-		-	●	●	-	-	-	-	-	
Program timer		-	-	-	-	-		-	●	●	-	-	-	-	-	
Auto-off timer		●	●	●	-	-		-	-	-	-	●	●	-	-	
Day off		●	●	●	-	-		-	-	-	●	●	●	●	●	
Minimum unit of timer setting (minutes)	10 • 30	30	30	-	-		-	5	5	5	10	10	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	● Child lock	● Child lock	● Child lock	-	-		-	-	-	-	● Child lock	● Password setting	● Password setting	● Password setting	● Password setting
	Low noise mode	-	-	-	-	-		-	-	-	-	●	●	●	●	
	Multi System Control	●	-	-	-	-		-	-	-	-	-	-	-	-	

\*1 "Operation mode" setting not available. \*2 Available only for external input control.  
 \*3 Equipped only with individual air volume batch reset. \*4 Available only when using Wired remote controller.  
 ●: Supported ○: Optional function -: Unsupported

# Wired remote controller (with touch panel)

UTY-RNRYZ5



NEW



## 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

Up to 16 indoor units

Up to 1 group

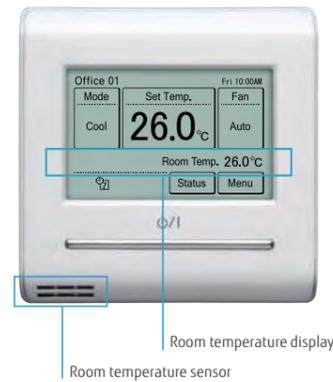
## High performance and compact size

A single remote controller controls each connected indoor unit and provides a weekly timer function and a variety of energy-saving options.



## Accurate control for comfort

A thermo sensor built into the remote controller monitors room temperature accurately.



## 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

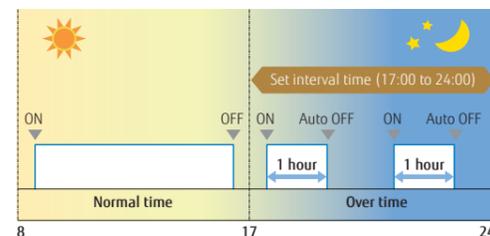
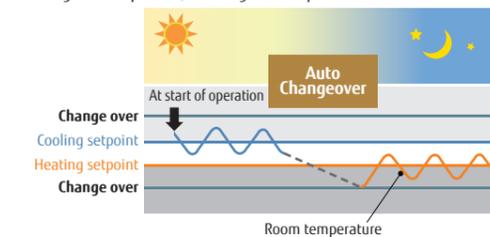
- While the Auto-timer is activated, if the set off time is specified as, for example, one hour, the power will automatically turn off one hour after the start of operation.
- A desired time frame can be specified for the Auto-off timer.
- The off-time can be set from 30 to 240 minutes.

### 2-setting weekly timer

### Set temperature auto return

### Setting temperature range limitation

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



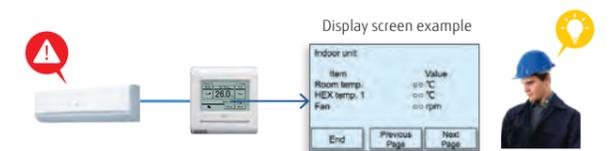
e.g.) Between 17:00 and 24:00 (over time hours), when the 1 hour set off time has elapsed, the system will automatically turn off the indoor unit as it

## Features: Wired Remote Controller (Touch Panel)

### NEW Refrigerant cycle monitor (Option)

Wired Remote Controller (Touch Panel) will support to display some sensor values for maintenance and service support.

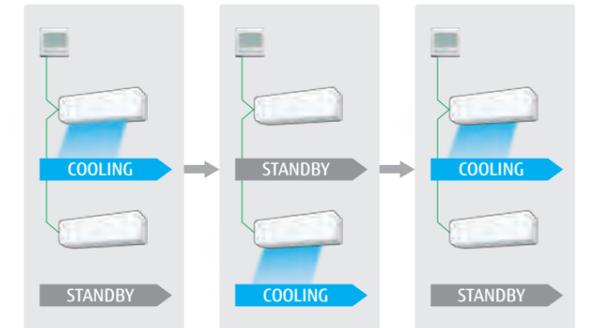
\* This function is only supported by split units, using the H-Serial communication protocol! Example: ASYH30KMTB



### NEW Multi System Control\*1

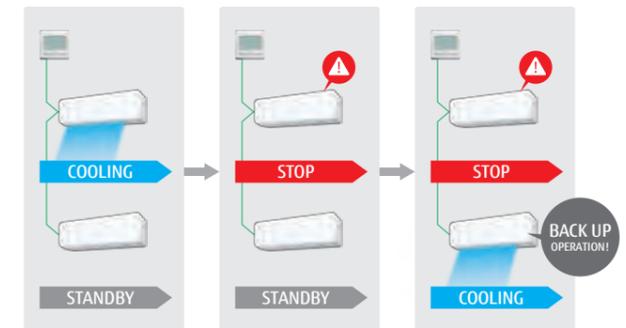
#### 1) Lead Lag Operation

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



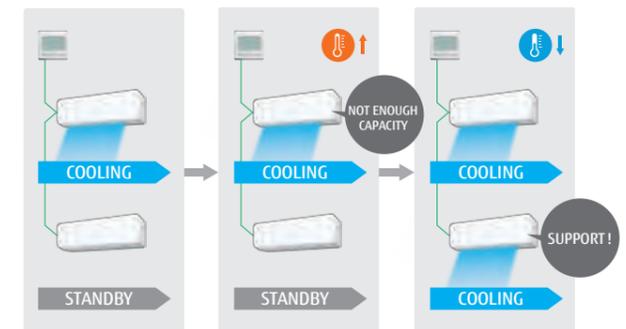
#### 2) Back up operation

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

DC 12 V is supplied by the indoor unit.

## Wired remote controller

UTY-RLRY



- 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

### 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.



Up to 16 indoor units

Up to 1 group

### 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

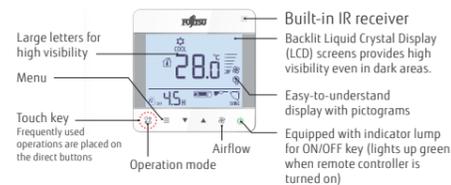
UTY-RCRYZ1



- 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

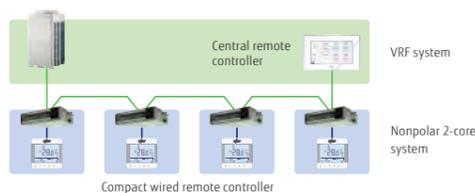
### Large screen and simple display

- 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



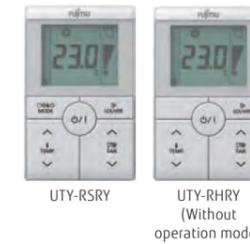
### Specifications

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

## Simple remote controller

UTY-RSRV/UTY-RHRY (without operation mode)



### Compact remote controller with basic functionality

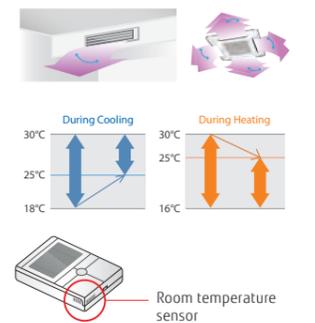
- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Simple design that matches stylish interiors
- Large LCD screen and easy-to-use control buttons
- Backlight: White backlight makes it easy to operate 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.



## Simple remote controller

UTY-RSNYM, UTY-RSKY/UTY-RHKY (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.
- 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-RSRV	UTY-RHRY	UTY-RSNYM, UTY-RSKY	UTY-RHKY
Power source	12 V DC	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	120 × 75 × 14
Weight (g)	120	120	120	90

12 V DC supplied by an indoor unit

# WLAN adapter

UTY-TFNXZ1/UTY-TFSXZ1, UTY-TFSXF2

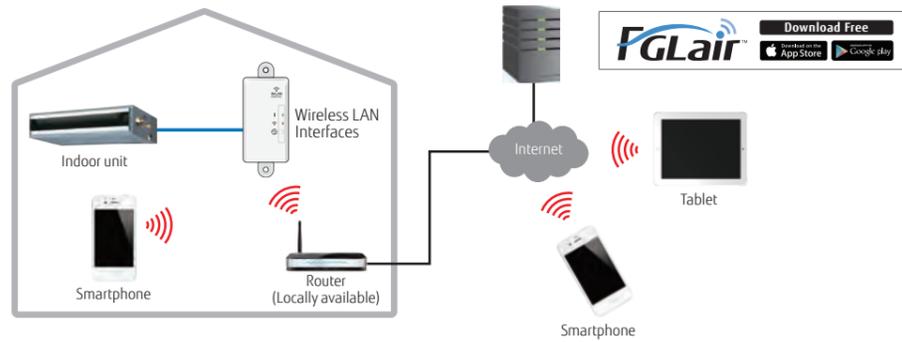


USB type for single-split models  
UTY-TFSXF2



UTY-TFNXZ1  
(3-wire RC-line type)  
UTY-TFSXZ1  
(CN connector type)

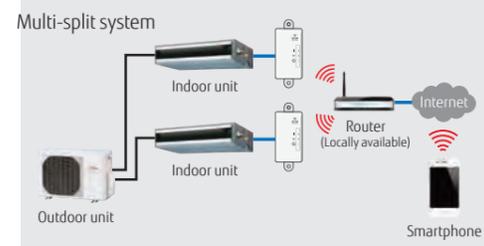
- This interface provides the most advanced solution for the remote management of an air conditioning system by using smartphones, tablets, and computers.
- No separate external power supply required
- Can be used for a single indoor unit and multi-split indoor units.



Up to  
1 indoor unit

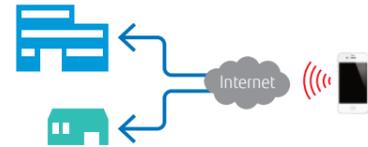
## Basic control

- 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



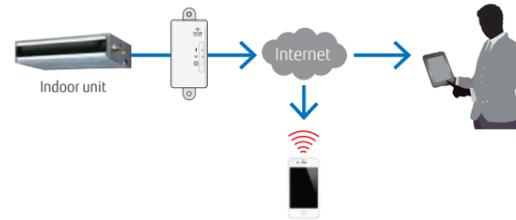
## Multiple air conditioning management

- 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

# MODBUS® converter for Indoor unit

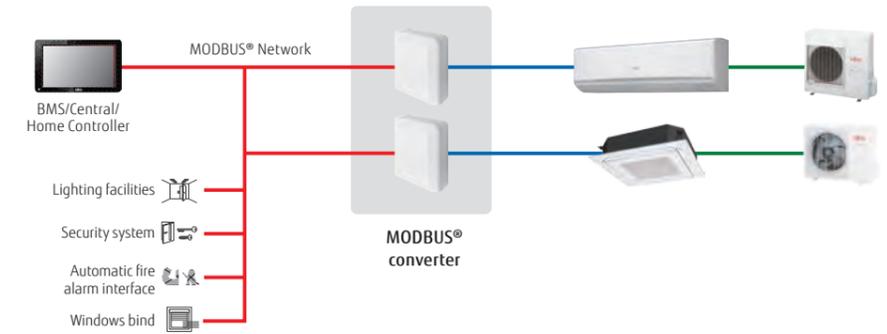
UTY-VMSX



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.

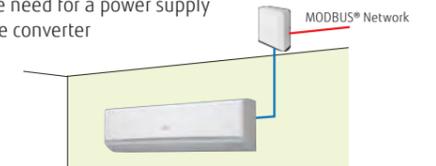


## Basic control

- 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

## Easy Installation

Easy to install with minimal wiring and without the need for a power supply cable to the converter



# KNX® converter for indoor unit

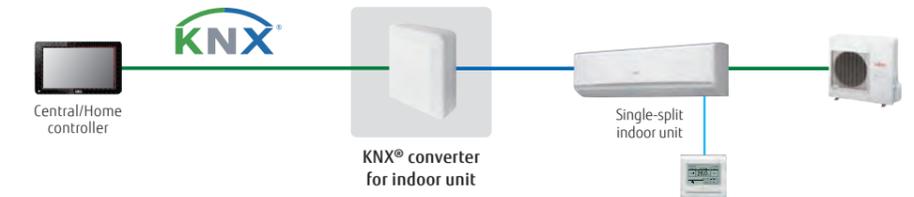
UTY-VKSX



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



### 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)

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

# MODBUS® interface

FG-RC-MBS1Z1/FG-AC-MBS1Z1



**Intesis**  
BY HBS NETWORKS



FG-RC-MBS1Z1  
(3-wire RC-line type)

**Intesis**  
BY HBS NETWORKS

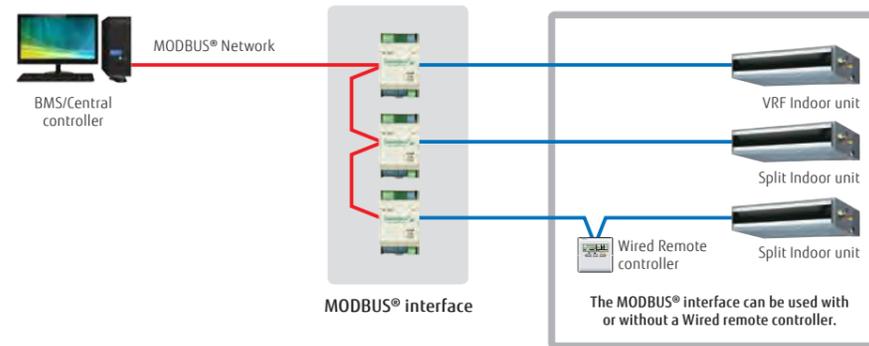


FG-AC-MBS1Z1  
(CN connector type)

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.

## Installation example



Up to  
**1** indoor unit

### Specifications

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

# KNX® interface

FG-RC-KNX1Z1/FG-AC-KNX1Z1/FG-IR-KNX1Z1



**Intesis**  
BY HBS NETWORKS



FG-RC-KNX1Z1  
(3-wire RC-line type)

**Intesis**  
BY HBS NETWORKS



FG-AC-KNX1Z1  
(CN connector type)

**Intesis**  
BY HBS NETWORKS



FG-IR-KNX1Z1  
(IR type)

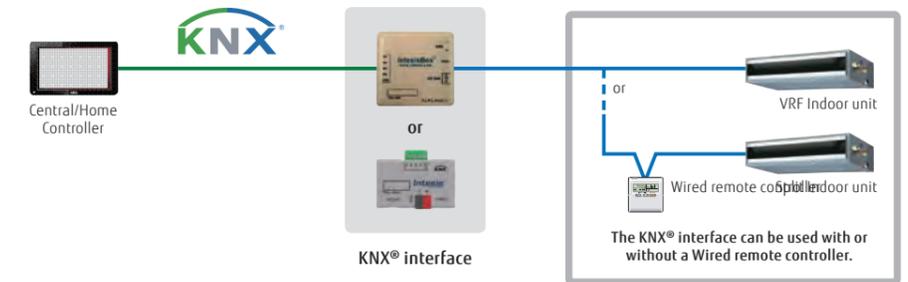
Up to  
**1** indoor unit

The KNX® interface enables air conditioners to be fully integrated into a KNX® network system.

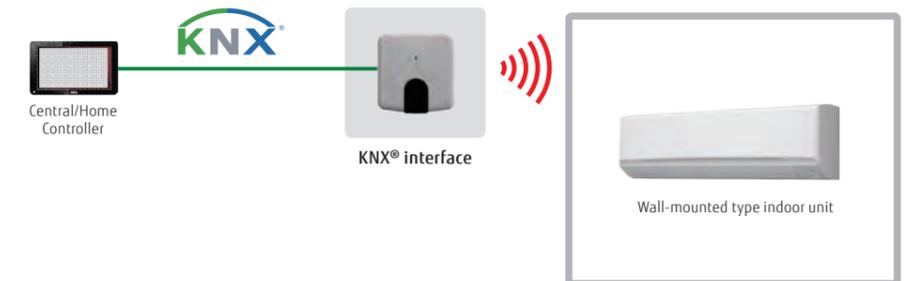
- Simple installation due to small and compact size.
- No separate external power supply required (only KNX® bus power required)

## Installation example

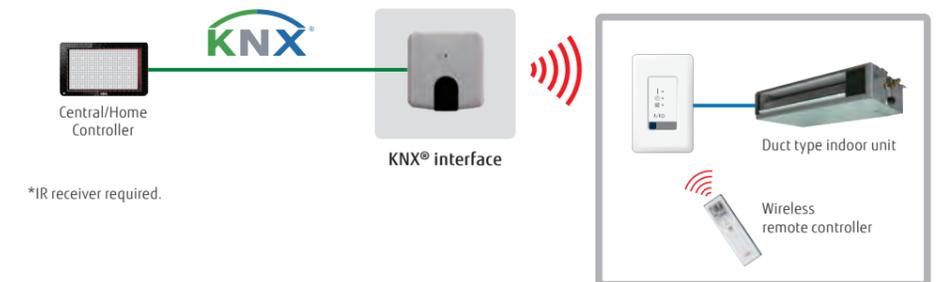
[3-wire RC-line type/CN connector type]



[IR type] Connection to wall-mounted type



[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



# WLAN adapter

FG-RC-WIF1Z2/FG-IR-WIF1Z1/FG-AC-WIF1Z1



**Intesis**  
BY HBS NETWORKS



FG-RC-WIF1Z2  
(3-wire RC-line type)

**Intesis**  
BY HBS NETWORKS



FG-AC-WIF1Z1  
(CN connector type)

**Intesis**  
BY HBS NETWORKS



FG-IR-WIF1Z1  
(IR type)

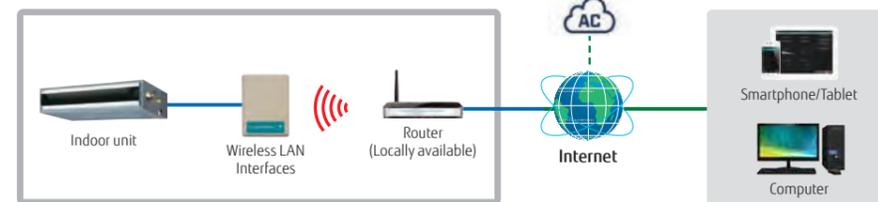
Up to  
**1 indoor unit**

## AC Cloud Control

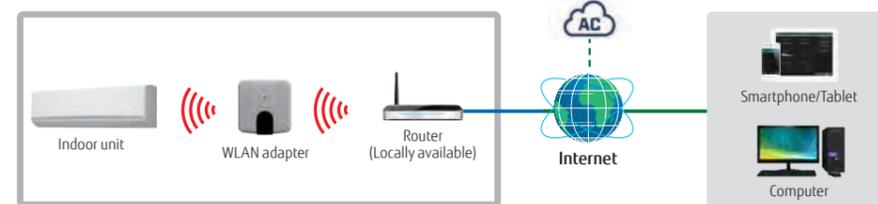
- This interface provides the most advanced solution for the remote management of an air conditioning system by using smartphones, tablets, and computers.
- No separate external power supply required

### Installation example

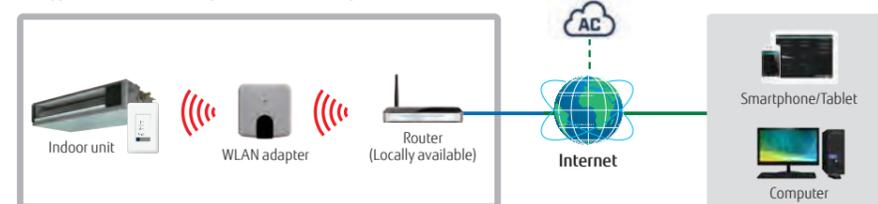
[3-wire RC-line type/CN connector type]



[IR type] Connection to wall-mounted type



[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 HBS NETWORKS



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

**Intesis**  
BY HBS NETWORKS



FG-AC-WMP1Z1  
(CN connector type)

**Intesis**  
BY HBS NETWORKS



FG-IR-WMP1Z1  
(IR type)

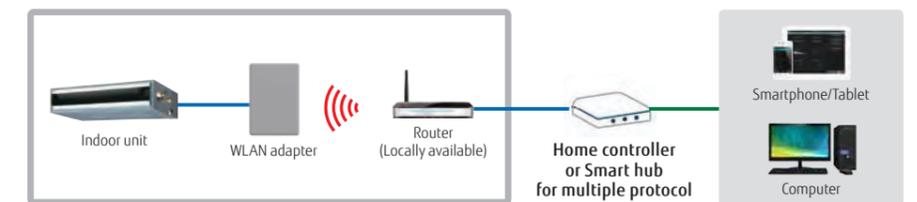
Up to  
**1 indoor unit**

## AC Cloud Control

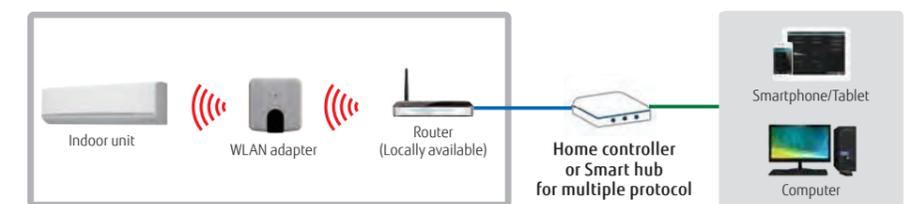
- Air conditioner control of Home Automation systems via wireless LAN connection.
- No separate external power supply required

### Installation example

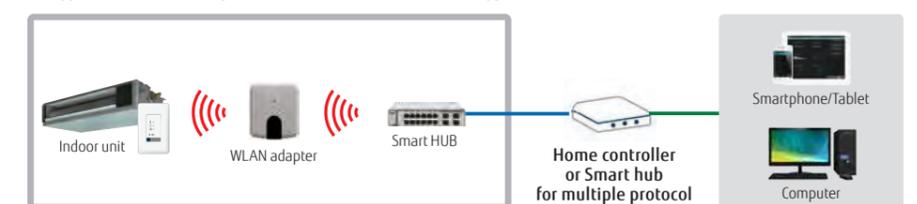
[3-wire RC-line type/CN connector type]



[IR type] Connection to wall-mounted type



[IR type] Connection to a product other than wall-mounted type



\*IR receiver required.

### 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

# BACnet® gateway

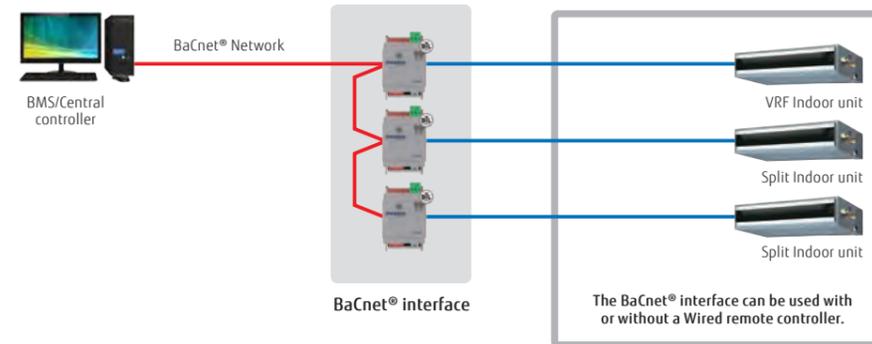
FG-AC-BAC1Z1



Up to  
1 indoor unit

- BACnet® Gateway 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



# External switch controller

UTY-TERX



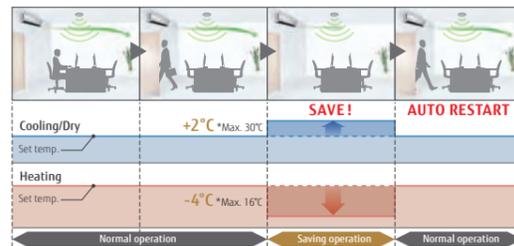
Up to  
1 group

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

Human 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.



Human sensor equipment needs to be purchased separately. Human sensor is not mounted on an External switch controller.

### Specifications

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

12 V DC supplied by an indoor unit

# Wired remote controller

UTY-RVNYM



Up to  
16 indoor units

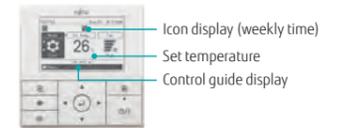
Up to  
1 group

## 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

## 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

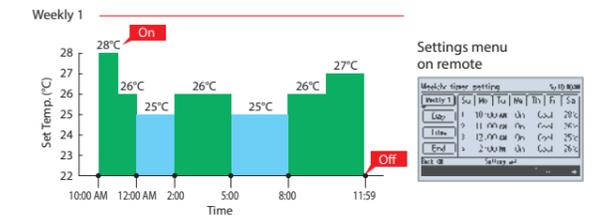
- A single remote controller controls each connected indoor unit and provides a variety of energy-saving options.



## Energy-saving controls

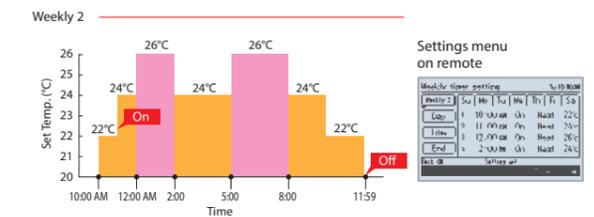
### Weekly Timer

- ON/OFF, mode and temperature can be set up to 8 times a day.
- 2 setting patterns are available (e.g., for Summer/Winter).



### Auto-off timer

- Set temperature auto return
- Setting temperature range limitation



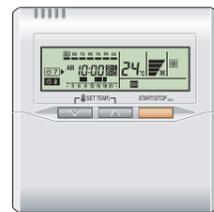
### Specifications

Model name	UTY-RVNYM
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

## Wired remote controller

UTY-RNNYM

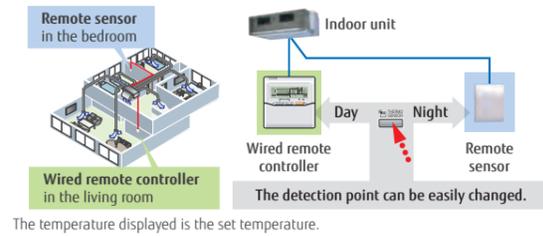


- Simple operation with Built-in Weekly/Daily Timer.
- Control up to 16 indoor units.
- Up to 2 Wired remote controllers can be connected to a single indoor unit.

### Accurate 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



Up to  
**16** indoor units

Up to  
**1** group

### 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

## Wireless remote controller

UTY-LNTY



### 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

Up to  
**16** indoor units

Up to  
**1** group

Up to  
**4** different daily timers

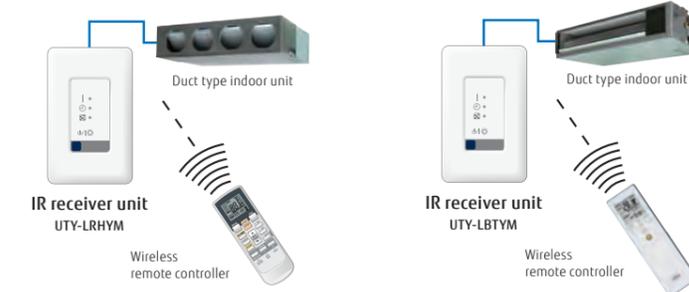
#### Specifications

Model name	UTY-RNNYM	UTY-LNTY
Power source	12 V DC	1.5 V (R03/LR03/AAA)
Dimensions (H × W × D) (mm)	120 × 120 × 18	205 × 61 × 17
Weight (g)	160	125

12 V DC supplied by an indoor unit

## IR receiver unit for duct type

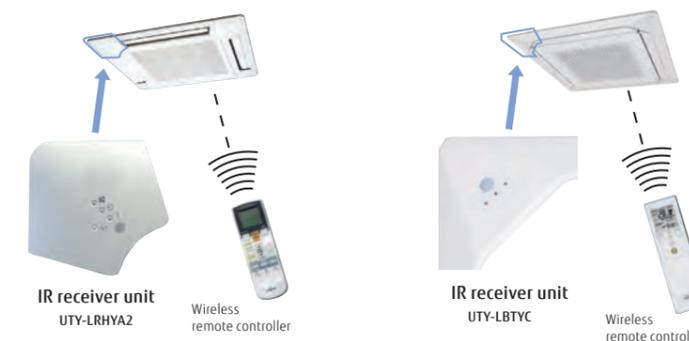
UTY-LRHYM, UTY-LBTYM



The wireless remote controller controls duct type indoor units.

## IR receiver unit for Cassette

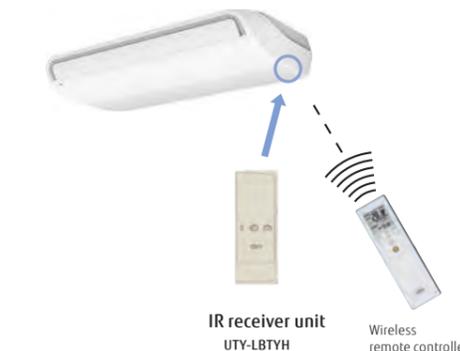
UTY-LRHYA2, UTY-LBTYC



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)				
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 Receiver Unit >

Model name	DC5V	DC5V	DC5V	DC5V	DC5V
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.

# Central remote controller

UTY-DMMYM/UTY-DMMYM1



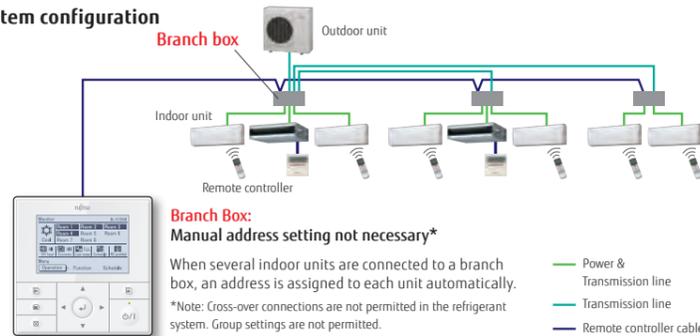
Up to 1 multi-split system

Up to 8 indoor units

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

- Batched control of up to 8 indoor units For all indoor units connected to the remote controllers, the 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

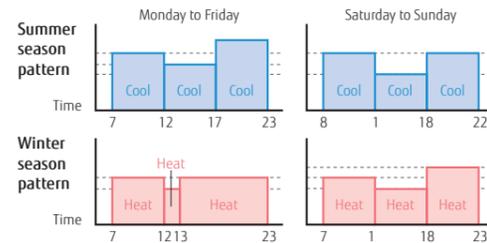
### Example of system configuration



## 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.

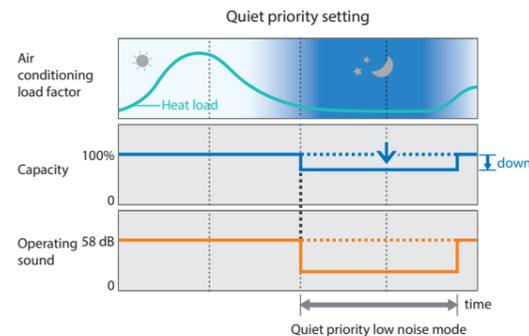
\*Consult your dealer for conditions of use.

### 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 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 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

# Network converter for single-split type

UTY-VTGX/UTY-VTGXV



UTY-VTGX  
DC power supply type

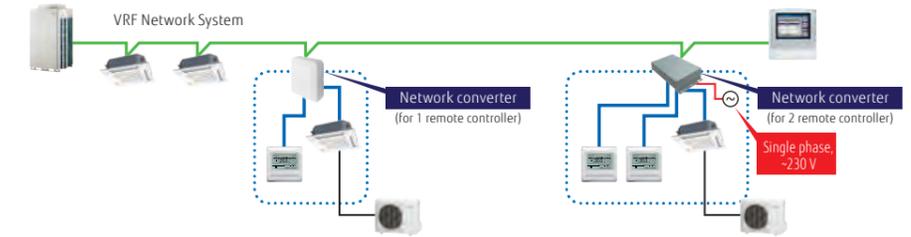


UTY-VTGXV  
AC power supply type

- 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.

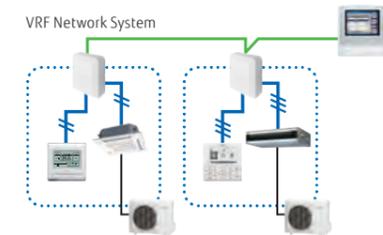


Up to 16 single indoor units

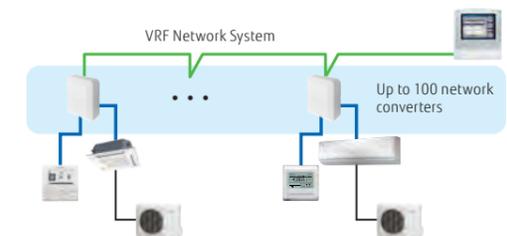
Up to 1 group

Up to 100 Network Converters

- 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
	polar 3-core	nonpolar 2-core	Single phase
Power supply	12 V DC	DC 12 V	~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

# Wireless remote controller

UTY-LNHY



## 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

Up to  
**16** indoor units

Up to  
**1** group

Up to  
**4** different daily timers

# 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: UY-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: UY-LNHY) is required.

### Specifications

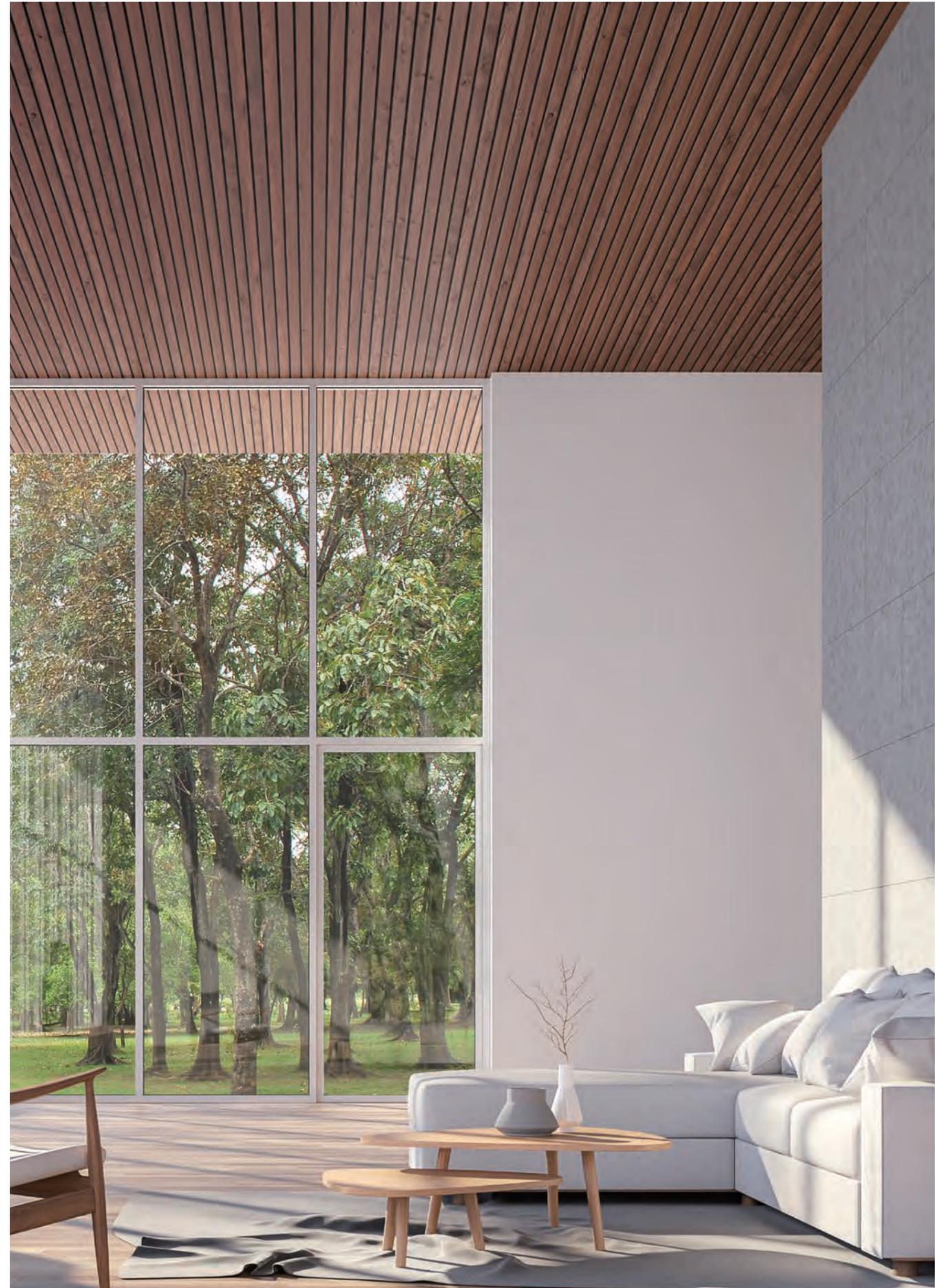
< Wireless Remote Controller >

Model name	UTY-LNHY	UTB-YWC	UTY-LRHYB1	UTY-LBHXD	UTY-TRHX
Battery	1.5 V (R03/LR03/AAA)				
Dimensions (H × W × D) (mm)	170 × 56 × 19	170 × 56 × 19	170 × 56 × 19	170 × 56 × 19	170 × 56 × 19
Weight (g)	85	85	85	85	85

< IR Receiver 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.



# Central Remote Controller

UTY-DCGYZZ



NEW



## 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

Up to 100 indoor units

Up to 50 groups

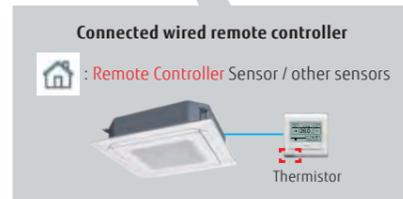
## Easy Operation

### 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.



### NEW 50 Remote Controller Groups Display

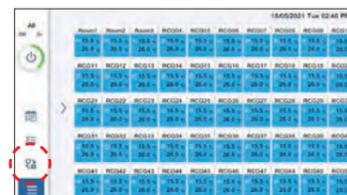
The group display and the 50 remote controller groups display can be switched easily. Users can choose which display is better, depending on the situation.

#### Group Display



Manage & Monitor by each Groups

#### 50 Remote Controller Groups Display

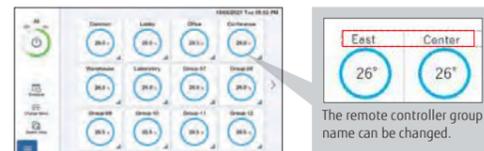


Manage & Monitor by 50 Remote Controller Groups



### NEW Remote Controller Groups Rename

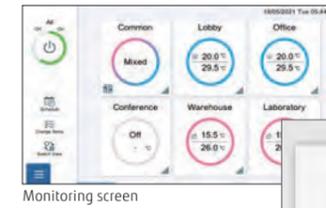
The remote controller group names can be changed. Users can know easily where the air conditioning is located by changing the remote controller group names.



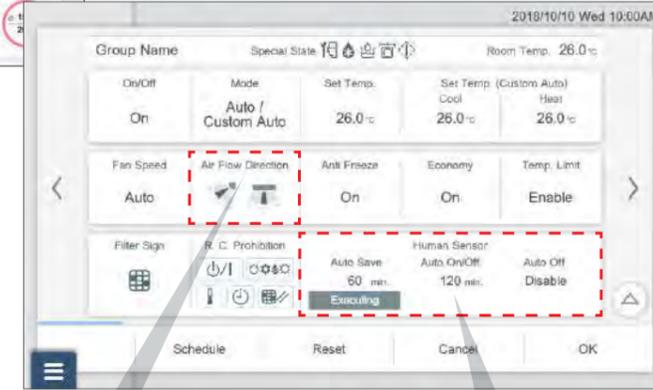
The remote controller group name can be changed.

## Features: Central Remote Controller

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



Monitoring screen



Individual setting

### NEW Added individual wind direction control

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



Circular flow cassette

### NEW Human Sensor Compatible

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



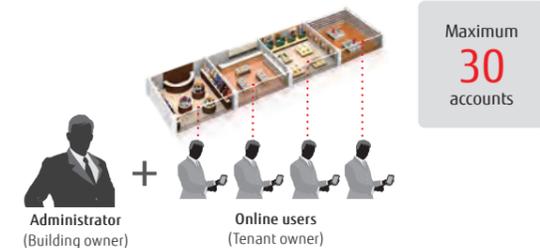
## Remote Management

### Remote monitoring / Remote operation

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

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

### NEW Increased the Number of Accounts



### Trouble support function

#### Display error details

Display descriptive explanation when an error occurs



#### Sensor value monitoring function

Monitor sensor data of indoor unit / outdoor unit, send mail

#### Notify room temperature by email\*

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

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

## Specifications

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

# Touch panel controller

UTY-DTGYZ1



- Large 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

## 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.

Up to 400 indoor units

Up to 100 outdoor units

Up to 400 groups



## 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.

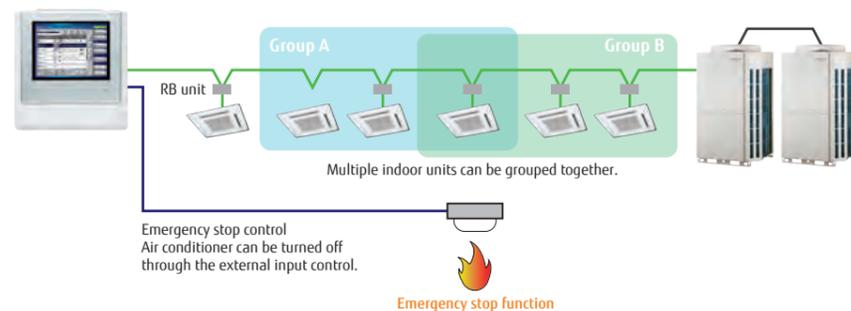


## Easy installation

- 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



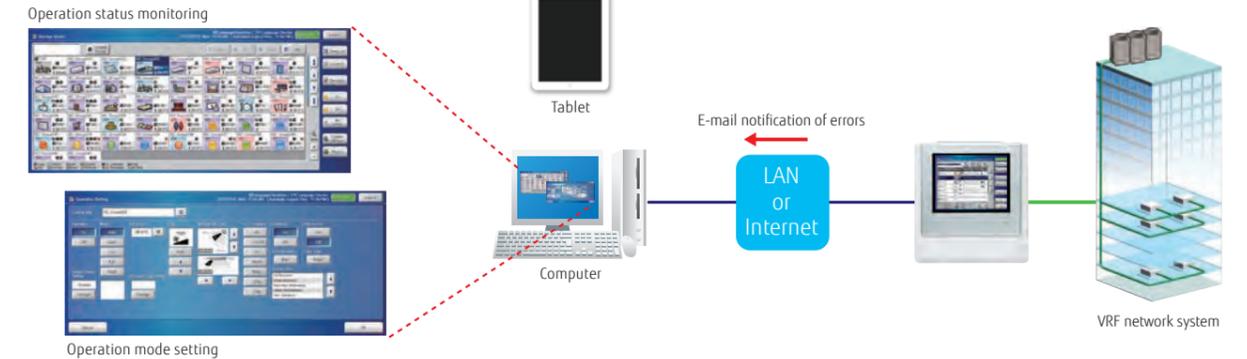
## Controls up to 400 indoor units.



## 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

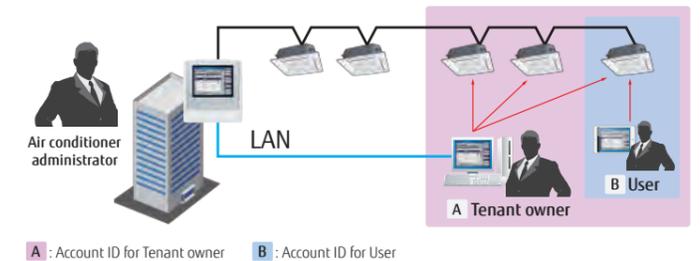
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iPhone 7 (iOS 10.1)	Safari 10

### Tablet

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

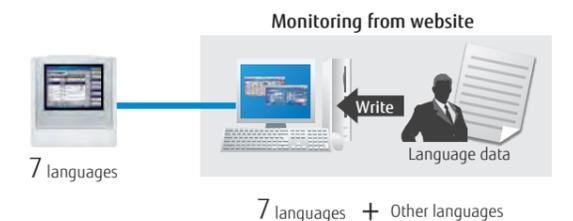
## Flexible access permissions can be granted to users at each point level.

The administrator can register multiple users and permit them to access any indoor unit and any functions.



## Additional languages

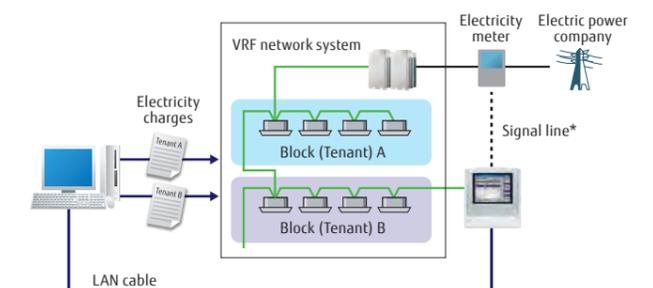
Supports 7 languages as standard: Chinese, English, French, German, Polish, Russian, and Spanish. Create a language database to integrate additional languages into the remote device. The added languages will only be displayed on the remote device and cannot be added to the Touch panel controller.



## 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:

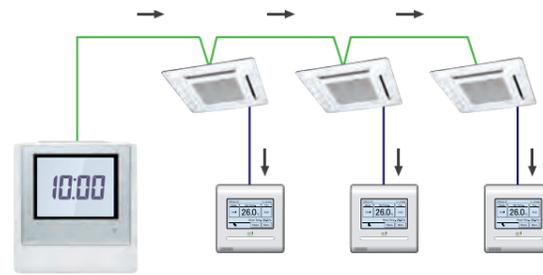
### Automatic setting for daylight saving time

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.

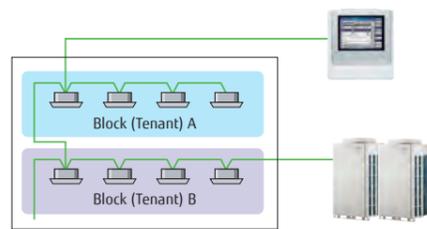
Automatic clock adjustment

- 2) Time can be set for all controllers in a batch automatically.

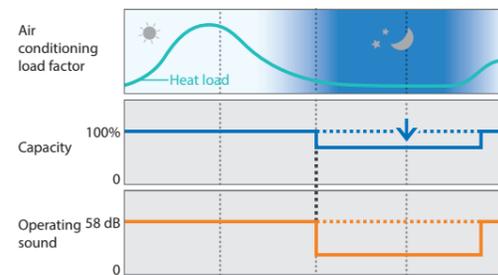


### Outdoor unit low noise operation

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

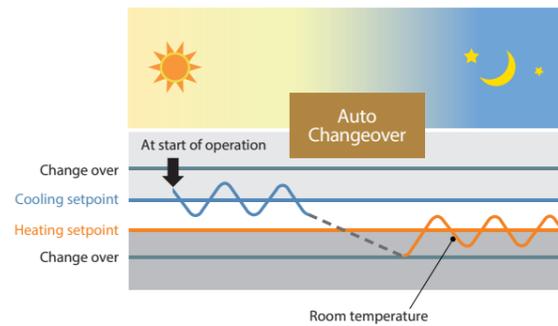
Custom Auto

- 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-DTGVZ1	Monitoring side
<b>Air conditioning control functions</b>		
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	●	●
Human sensor control	—	●
<b>Displayed items</b>		
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-DTGVZ1	Monitoring side
<b>Timer</b>		
	Period	Year
Schedule timer	ON/OFF, Temp, Mode, Times per day	20
ON/OFF timer	—	—
Sleep timer	—	—
Program timer	—	—
Auto-off timer	—	●
Day off	●	●
Minimum unit of timer setting (minutes)	10	10
<b>Control</b>		
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

	UTY-DTGVZ1
Model name	UTY-DTGVZ1
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 system

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.

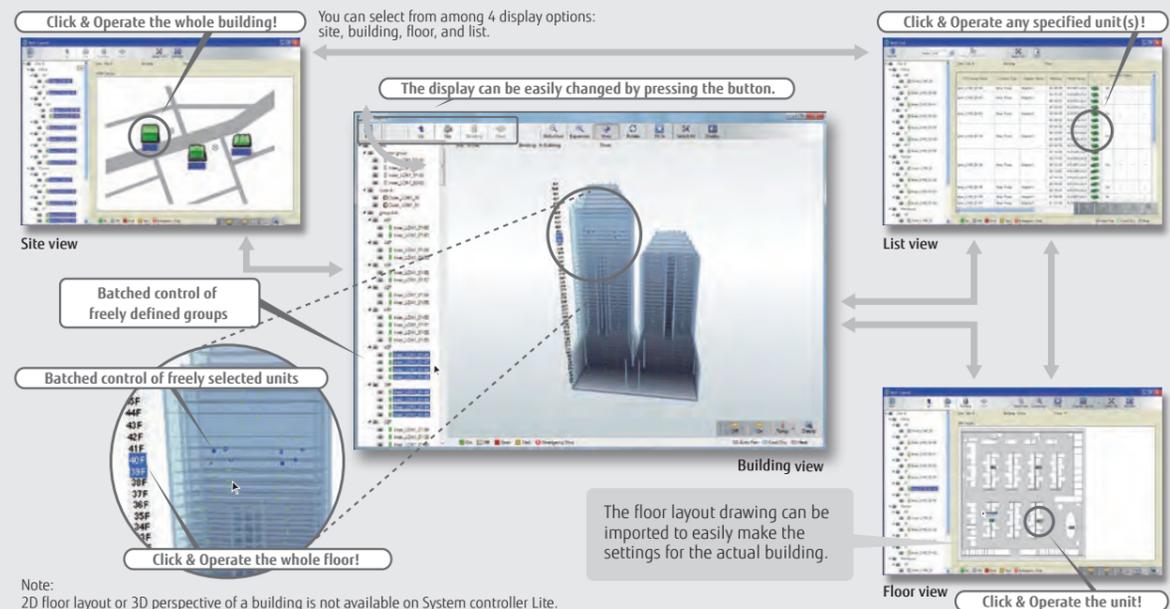
- Up to 400 indoor units and 100 outdoor units on a VRF network system can be controlled.
- In addition to precise air conditioning control, a variety of applications are available as options to offer a wider range of control.
- Supports 7 languages: Chinese, English, French, German, Polish, Russian, 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.



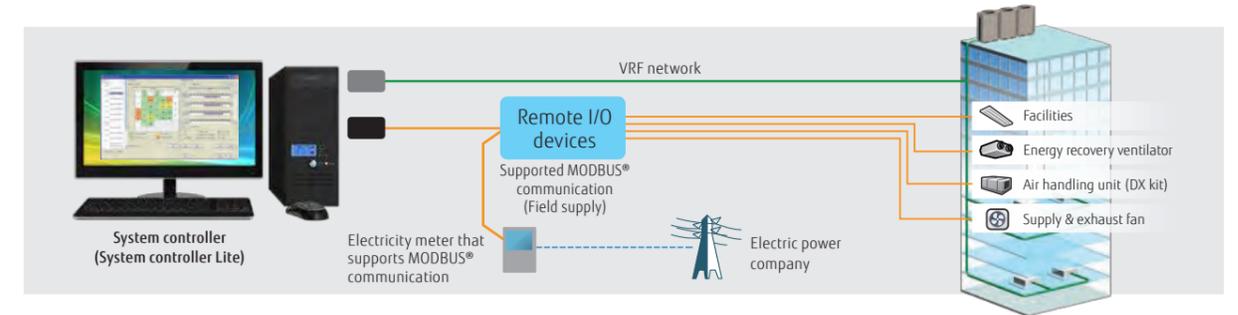
Note: 2D floor layout or 3D perspective of a building is not available on System controller Lite.

## 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

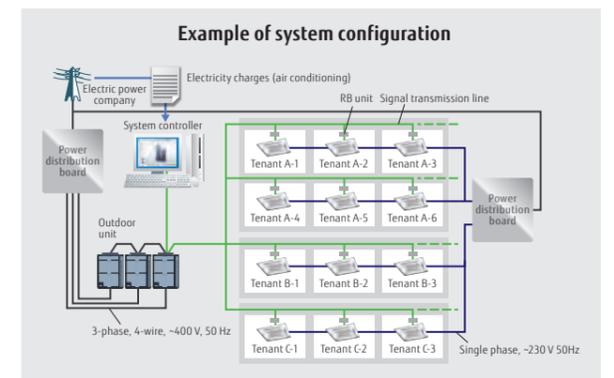
Time can be set for all controllers in batch automatically.

## 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.



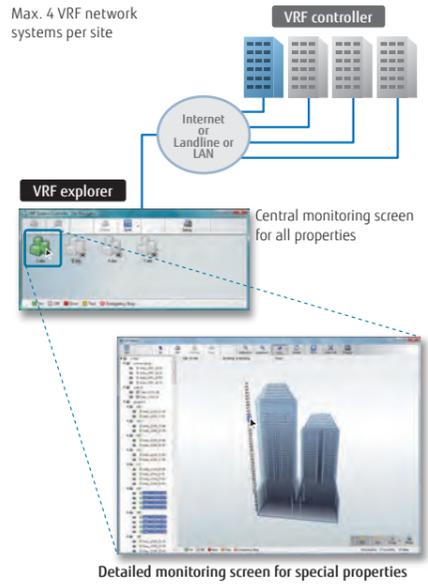
Features:

### Remote monitoring management

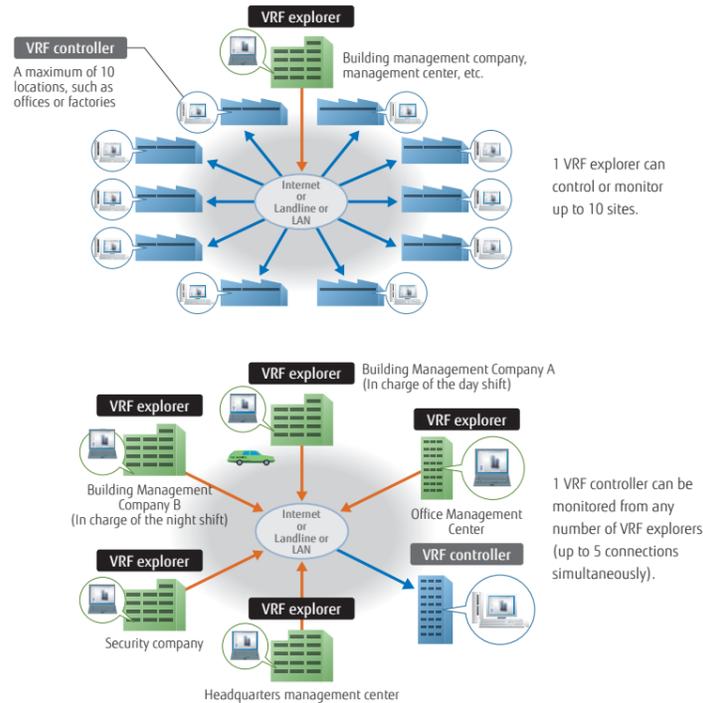
- Standard** on System controller
- Option** System controller Lite UTY-PLGXR2

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-PEGXZ1
- Option** System controller Lite UTY-PLGXE2

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	—	—	—	—
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	●	—	●	—	—	—	—
Error management	Error notification	●	—	●	—	—	—	—
	Audible alarm	●	—	●	—	—	—	—
	E-mail notification of errors	●	—	●	—	—	—	—
History	Error history	●	—	●	—	—	—	—
	Operation history	●	—	●	—	—	—	—
Operation control	Individual control	ON/OFF	●	—	●	—	—	—
		Operation mode*	●	—	●	—	—	—
		Room temperature	●	—	●	—	—	—
		Fan speed	●	—	●	—	—	—
		Airflow direction	●	—	●	—	—	—
		Economy mode	●	—	●	—	—	—
		Setting temperature range limitation	●	—	●	—	—	—
		Anti-freeze	●	—	●	—	—	—
		Low noise setting of outdoor units	●	—	●	—	—	—
		Remote controller prohibition	●	—	●	—	—	—
		Setting temperature range limitation	●	—	●	—	—	—
		Filter sign reset	●	—	●	—	—	—
		memory operations	●	—	●	—	—	—
Pattern operations	●	—	●	—	—	—		
Schedule	Annual Schedule	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	Web Operation	Web Operation	●	—	●	—	—	—
		Remote monitoring	●	—	●	—	—	—
		Remote operation control	●	—	●	—	—	—
		Remote function setting	●	—	●	—	—	—
Electricity charge apportionment	Apportionment charge/bill calculation	Apportionment charge/bill calculation	●	—	●	—	—	
		Tenant (block) setting	●	—	●	—	—	
		Common facilities apportionment setting	●	—	●	—	—	
		Rated power consumption allotment setting	●	—	●	—	—	
Energy-saving management	Indoor unit rotation	Indoor unit rotation	—	●	—	—	—	
		Peak cut control	—	●	—	—	—	
		Capacity saving for outdoor unit	—	●	—	—	—	
		Record of energy-saving operation	—	●	—	—	—	
		Information on energy saving	—	●	—	—	—	
		Power consumption monitor	—	●	—	—	—	
Control of external devices	Monitor	Monitor	●	—	●	—	—	
		Control	●	—	●	—	—	
Others	Importing and exporting databases	Importing and exporting databases	●	—	●	—	—	
		Automatic clock adjustment	●	—	●	—	—	
		Multiple language support	7 languages	—	7 languages	—	—	
		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
<b>Operating system</b>	<ul style="list-style-type: none"> <li>Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1</li> <li>Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit)</li> <li>Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)</li> </ul> Supports 7 languages: English, Chinese, French, German, Russian, Spanish, and Polish	<ul style="list-style-type: none"> <li>Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1</li> <li>Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit)</li> <li>Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)</li> </ul> Supports 7 languages: English, Chinese, French, German, Russian, Spanish, and Polish
<b>CPU</b>	Intel® Core™ i3 2 GHz or higher	Intel® Core™ i3 2 GHz or higher
<b>Memory</b>	<ul style="list-style-type: none"> <li>2 GB or more (for Windows® 7 [32-bit])</li> <li>4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)</li> </ul>	<ul style="list-style-type: none"> <li>2 GB or more (for Windows® 7 [32-bit])</li> <li>4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)</li> </ul>
<b>HDD</b>	40 GB or more of free space	40 GB or more of free space
<b>Displayed items</b>	1024 × 768 or higher resolution	1024 × 768 or higher resolution
<b>Interfaces</b>	<ul style="list-style-type: none"> <li>Ethernet port (for getting access to the internet using LAN) or a modem (for getting access to the internet via landline)</li> <li>Up to 6 USB ports</li> <li>(Only required for a server computer working as a VRF controller)</li> <li>- Maximum of 2 USB ports are required to connect to a White-USB-key/WibuKey</li> <li>- Up to 4 USB ports required to connect to an Echelon® U10 USB network interface</li> <li>* Maximum number of required USB ports depends on the applicable system configuration.</li> </ul>	<ul style="list-style-type: none"> <li>Ethernet port (for getting access to the internet using LAN) or a modem (for getting access to the internet via landline)</li> <li>Up to 6 USB ports</li> <li>(Only required for a server computer working as a VRF controller)</li> <li>- Maximum of 4 USB ports are required to connect to a White-USB-key/WibuKey</li> <li>- 1 USB port is required for an Echelon® U10 USB Network interface</li> <li>* The maximum number of required USB ports depends on the applicable system configuration.</li> </ul>
<b>Graphic accelerator</b>	Microsoft® DirectX® 9.0c compatible	Microsoft® DirectX® 9.0c compatible
<b>Software</b>	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.

# BACnet® gateway

UTY-ABGXZ1 (Software)



White-USB-key (Software Protection Key)

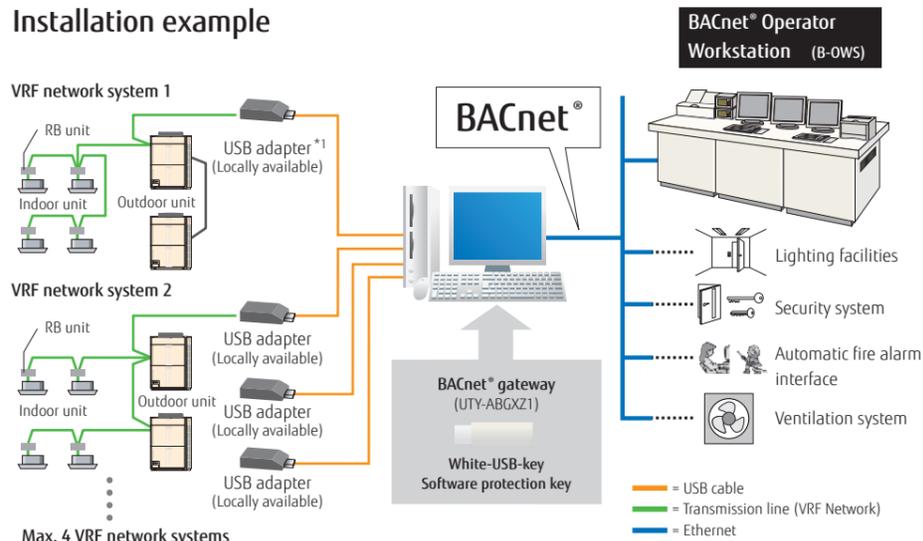


BACnet® is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to the requirements of ASHRAE Standard 135 is the responsibility of BACnet International (BI). BTL is a registered trademark of BACnet International.

Up to 4 VRF network systems  
Up to 400 outdoor units  
Up to 1,600 indoor units

- 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.

## Installation example



\*1: U10 USB network interface available from Echelon® Corporation.

## Computer requirements

	UTY-ABGXZ1
Operating system	<ul style="list-style-type: none"> <li>• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1</li> <li>• Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit)</li> <li>• Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)</li> </ul> Supported languages: Chinese, English, French, German, Polish, Russian, and Spanish
CPU	Intel® Core™ i3 2 GHz or higher
Memory	<ul style="list-style-type: none"> <li>• 2 GB or more (for Windows® 7 [32-bit])</li> <li>• 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)</li> </ul>
HDD	40 GB or more of free space
Displayed items	1024 × 768 or higher resolution
Interfaces	<ul style="list-style-type: none"> <li>• Ethernet port (for getting access to the internet using LAN)</li> <li>• Up to 5 USB ports</li> <li>- 1 USB port required to connect to a White-USB-key/WibuKey</li> <li>- Up to 4 USB ports required to connect to an Echelon® U10 USB network interface</li> </ul> *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

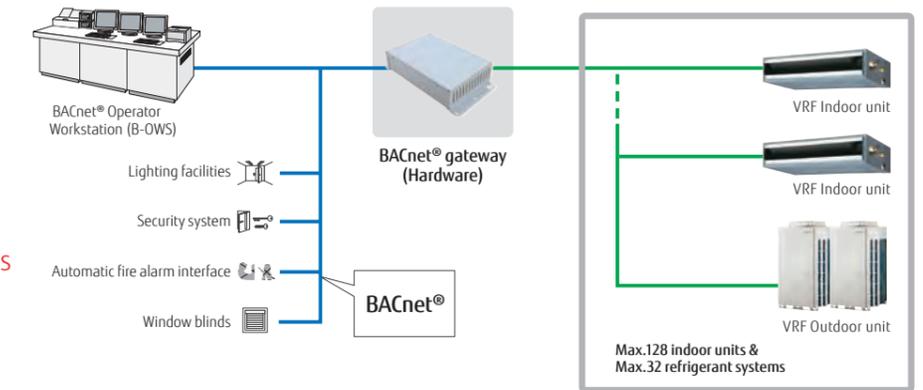
UTY-VBGX (Hardware)



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

Up to 1 VRF network system  
Up to 32 refrigerant systems  
Up to 128 indoor units

## Installation example



Max.128 indoor units & Max.32 refrigerant systems

## 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

Model name	UTY-VBGX
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

# Multiple protocol LAN adapter

FG-TL-MBS16Z1

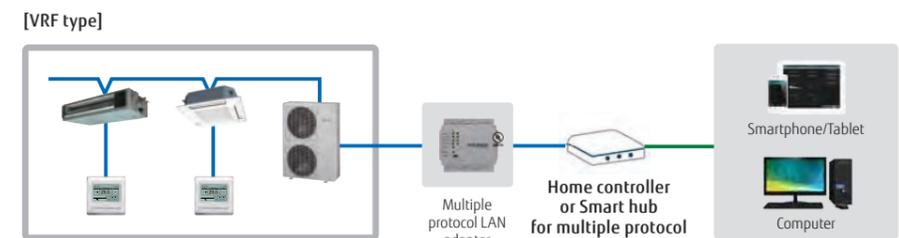


Up to 16 indoor units

## No separate external power supply required

- Can be used for 16 indoor units.

## Installation example



## 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.

# BACnet®/MODBUS® Router

FG-RTR-BAC32Z1/FG-RTR-MBS32Z1



FG-RTR-BAC32Z1 (BAC net)



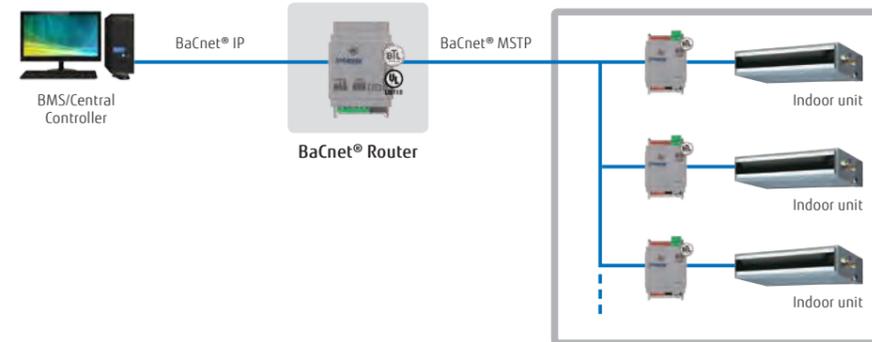
FG-RTR-MBS32Z1 (MODBUS®)

## Routing between BaCnet® MS/TP and BaCnet® IP networks

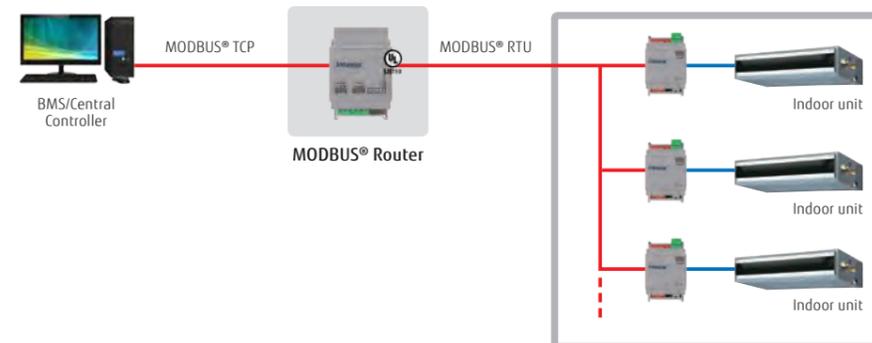
- Routing between BaCnet® MS/TP and BaCnet® IP networks
- Routing between MODBUS® RTU and MODBUS® TCP networks

### 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

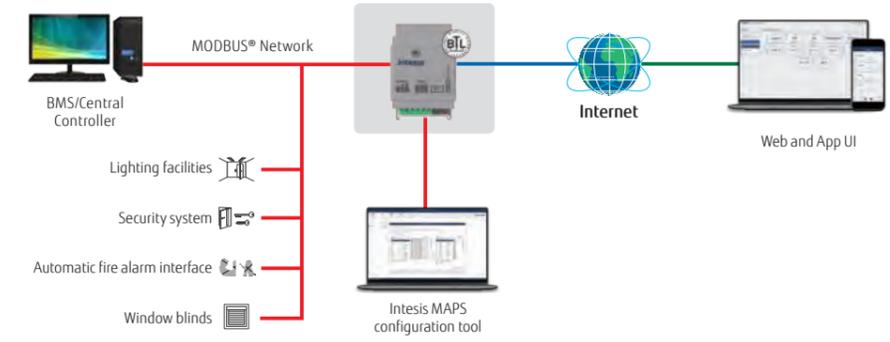
FG-CLD-BMG4Z1/FG-CLD-BMG8Z1/FG-CLD-BMG16Z1/FG-CLD-BMG32Z1



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 HubTM
- Full data control and protection
- Secure and remote updates during the application lifetime

### System Features

- Monitor and control all devices in an intuitive way
- Comes with a native iOS and Android app and a web interface
- Create scenes and interact with multiple concurrent devices
- 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			
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

# MODBUS® convertor for VRF

UTY-VMGX/FG-TL-MBS16Z1



UTY-VMGX

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.

Up to 9 units per VRF system

Up to 100 outdoor units

Up to 128 indoor units

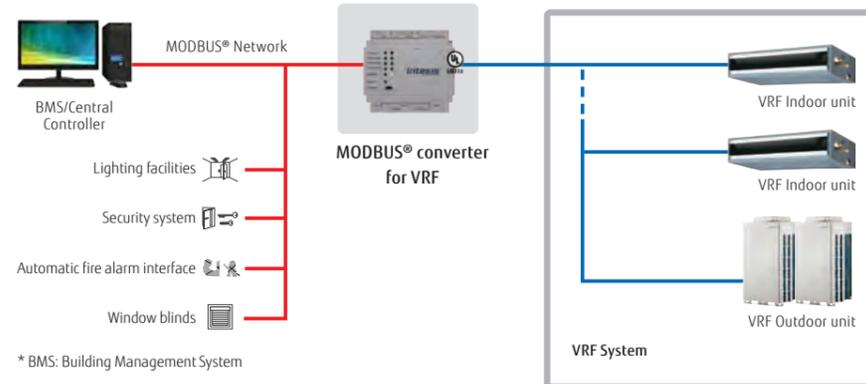
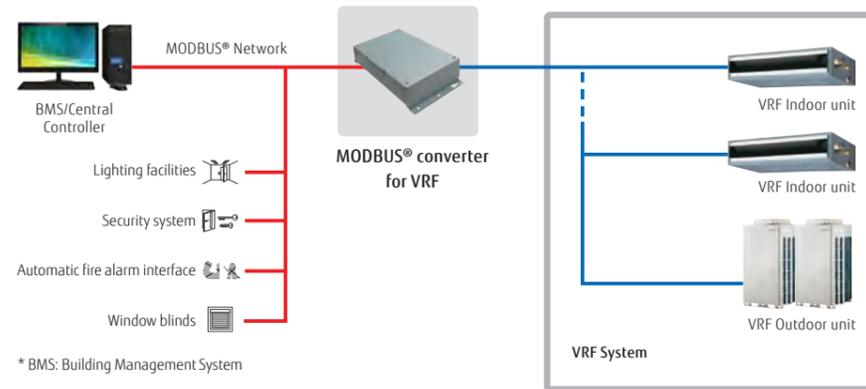


FG-TL-MBS16Z1

Up to 16 indoor units

Up to 16 outdoor units

## Installation example



### 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.

# KNX® converter for VRF

UTY-VKGX/FG-TL-KNX16Z1



UTY-VKGX

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)

Up to 100 outdoor units

Up to 128 indoor units

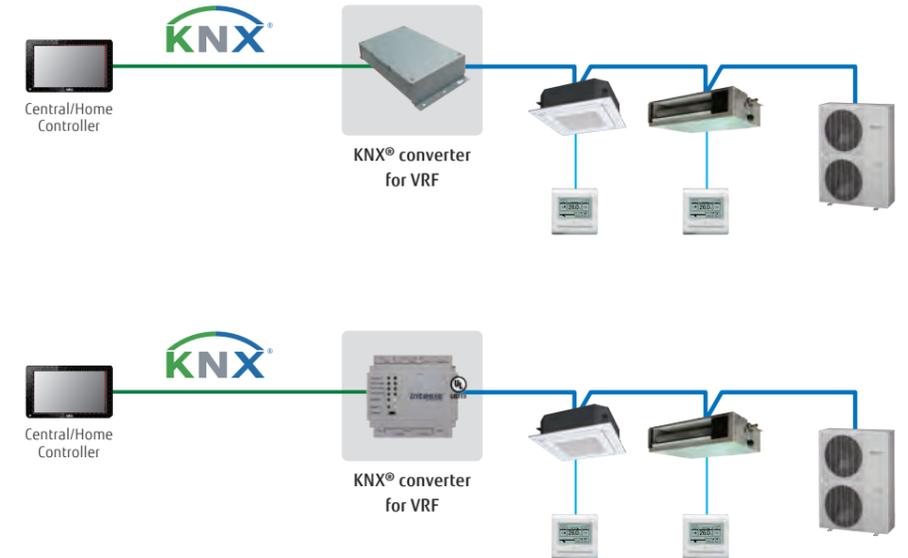


FG-TL-KNX16Z1

Up to 16 indoor units

Up to 16 outdoor units

## Installation example



### Specifications

Model name	UTY-VKGX	FG-TL-KNX16Z1
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)	1.5	1.6
Dimensions (H × W × D) (mm)	54 × 260 × 150	90 × 88 × 56
Weight (g)	1,200	340

\*24 V DC power supply is recommended.

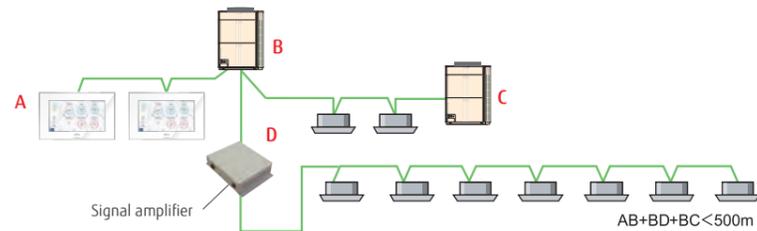
# Signal amplifier

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
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

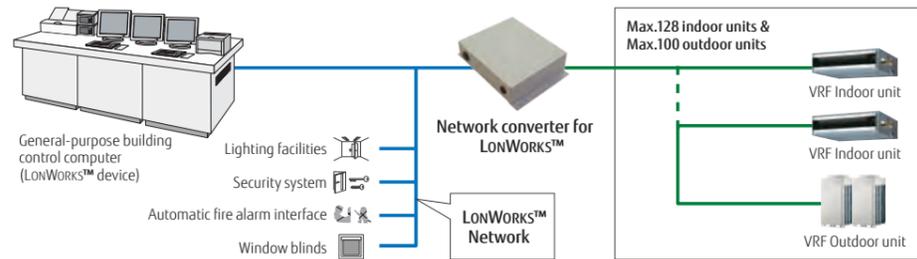
# Network converter for LONWORKS™

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™

## Installation example



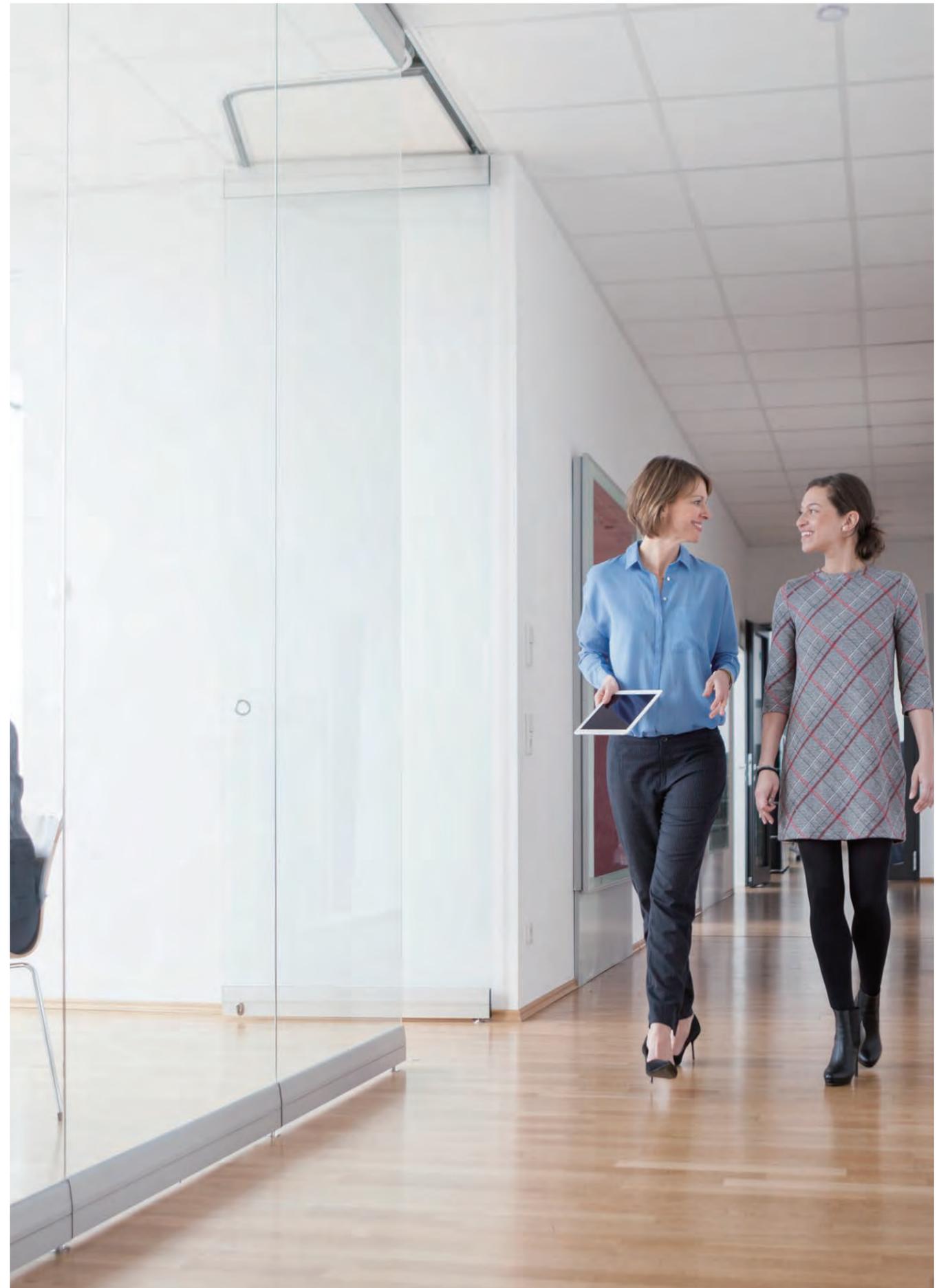
- Up to 4 units to BMS
- Up to 100 outdoor units
- Up to 128 indoor units

## 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)



# Controller system list (available) for Split/Multi-split

Controller Options/Accessories:



Type	Refrigerant	Indoor unit																			Outdoor unit		
		Wall-mounted							Cassette		Duct		Duct				Indoor unit				Multi-split	Single phase	
		Flagship Series	Designer Series		Standard Series		ECO Series	Compact 4-way flow Series	Circular flow Series	Slim	Medium static pressure (Compact)	Medium static pressure (Standard)	High static pressure		BIG	Floor	Ceiling	Wall-mounted	Compact cassette	Mini duct	Slim duct	5/6/8-unit multi-split	
R32 R410A	ASYG 12KXCA	ASYG 07/09/12/14 KGTE	ASYG 07/09/12/14 KETE, KETE-B	ASYG 07/09/12/14 KMCE	ASYG 18/24KMTE	ASYH 30/36KMTB	ASYG 07/09/12 KPCE	AUXG 09/12/14/18/22/24 KVLA	AUXG 18/22/24/30/36/45/54 KRLB	ARXG 09/12/14/18 KLLAP	ARXG 12/14/18/22/24/30/36/45/54 KHTAP	ARXG22KMLB, ARXG 24/30/36/45 KMLA	ARXG 45/54KHTB	ARYG 60LHTA	ARYG 72/90LHTA	ACYG 09/12/14 KVCA	ABYG 18/22/24/30/36/45/54 KR1A	ASYG 22KMTE	AUXG 07KVLA	ARXG 07/09/12/14/18 KSLAP	ARXG 07KLLAP	AOYG36KBTAS	
Wired remote controller					• UTY-RNRYZ5+ UTY-TWRXZ2					• UTY-RNRYZ5						• UTY-RNRYZ5	• UTY-RNRYZ5+ UTY-TWRXZ3	• UTY-RNRYZ5	• UTY-RNRYZ5+ UTY-TWRXZ2		• UTY-RNRYZ5		
					• UTY-RLRY+ UTY-TWRXZ2					• UTY-RLRY						• UTY-RLRY	• UTY-RLRY+ UTY-TWRXZ3	• UTY-RLRY	• UTY-RLRY+ UTY-TWRXZ2		• UTY-RLRY		
					• UTY-RCRYZ1+ UTY-TWRXZ2					• UTY-RCRYZ1						• UTY-RCRYZ1	• UTY-RCRYZ1+ UTY-TWRXZ3	• UTY-RCRYZ1	• UTY-RCRYZ1+ UTY-TWRXZ2		• UTY-RCRYZ1		
										• UTY-RVNYM						• UTY-RVNYM	• UTY-RVNYM					• UTY-RVNYM	
										• UTY-RNNYM						• UTY-RNNYM	• UTY-RNNYM					• UTY-RNNYM	
Simple remote controller	 nonpolar 2-core type    polar 3-core type				• UTY-RSRY UTY-RHRY+ UTY-TWRXZ2					• UTY-RSRY, UTY-RHRY, UTY-RSNYM					• UTY-RSRY	• UTY-RSRY UTY-RHRY UTY-RSNYM	• UTY-RSRY UTY-RHRY+ UTY-TWRXZ3	• UTY-RSRY UTY-RHRY	• UTY-RSRY UTY-RHRY+ UTY-TWRXZ2		• UTY-RSRY UTY-RHRY UTY-RSNYM		
Central remote controller																						• UTY-DMMYM1*3 (KBTAS) UTY-DMMYM*3 (LBLA6, LBT8)	
Wireless remote controller									• UTY-LNTY													• UTY-LNTY	
IR receiver unit with Wireless remote controller	 For Duct type    For Cassette type																• UTY-LRHYM						
	 For Duct type    For Cassette type    For Ceiling type									• UTY-LBTYC	• UTY-LBTYM					• UTY-LBTYM		• UTY-LBTYH				• UTY-LBTYM	• 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 VRF

Controller Options:



Type	Refrigerant	Indoor unit										Indoor unit								
		Cassette		Slim type		Large type		Duct		Duct		Floor		Ceiling/Floor		Ceiling		Wall-mounted		
		One-way flow	3D flow	Compact Grid type/Standard type	Circular flow		Mini (With drain pump)	Slim (With drain pump)		High static pressure		-	external EEV	-	external EEV	-	external EEV	-	external EEV	
		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	ARXX 004/007/009/ 012/014/018/ 024GLGH	ARXD 04GALH	ARXD 007/009/012/ 014/018/024 GLEH	ARXA 024/030/ 036/045 GLEH	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
Interfaces	BACnet® gateway	● UTY-ABGX1, UTY-VBGX										● UTY-ABGX1, UTY-VBGX								
	CN connector type	● FG-AC-BAC1Z1		● FG-AC-BAC1Z1		● FG-AC-BAC1Z1		● FG-AC-BAC1Z1		● FG-AC-BAC1Z1		● FG-AC-BAC1Z1		● FG-AC-BAC1Z1		● FG-AC-BAC1Z1		● FG-AC-BAC1Z1		
Network converter for LonWorks™		● UTY-VLQX										● UTY-VLQX								
		● UTY-VMSX		● UTY-VMSX		● UTY-VMSX		● UTY-VMSX		● UTY-VMSX		● UTY-VMSX		● UTY-VMSX		● UTY-VMSX		● UTY-VMSX		
MODBUS® Converter		● UTY-VMGX FG-TL-MBS1Z1										● UTY-VMGX FG-TL-MBS1Z1								
	3-wire RC-line type CN connector type	● FG-AC-MBS1Z1		● FG-RC-MBS1Z1		● FG-AC-MBS1Z1		● FG-AC-MBS1Z1		● FG-AC-MBS1Z1		● FG-RC-MBS1Z1		● FG-AC-MBS1Z1		● FG-RC-MBS1Z1		● FG-AC-MBS1Z1		
KNX® converter		● UTY-VKQX FG-TL-KNX16Z1										● UTY-VKQX FG-TL-KNX16Z1								
	3-wire RC-line type CN connector type	● FG-AC-KNX1Z1		● FG-RC-KNX1Z1		● FG-AC-KNX1Z1		● FG-AC-KNX1Z1		● FG-AC-KNX1Z1		● FG-RC-KNX1Z1		● FG-AC-KNX1Z1		● FG-RC-KNX1Z1		● FG-AC-KNX1Z1		
IR type		● 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		● FG-IR-KNX1Z1+UTB-YWC		● FG-IR-KNX1Z1+UTY-TRHX		● FG-IR-KNX1Z1		
	CN connector type	● UTY-TFSXZ1										● UTY-TFSXZ1								
WLAN adapter	3-wire RC-line type CN connector type	● FG-AC-WIF1Z1		● FG-RC-WIF1Z2		● FG-AC-WIF1Z1		● FG-AC-WIF1Z1		● FG-AC-WIF1Z1		● FG-RC-WIF1Z2		● FG-AC-WIF1Z1		● FG-RC-WIF1Z2		● FG-AC-WIF1Z1		
	IR type	● 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		● FG-IR-WIF1Z1+UTB-YWC		● FG-IR-WIF1Z1+UTY-TRHX		● FG-IR-WIF1Z1		
IR type	3-wire RC-line type CN connector type	● FG-AC-WMP1Z1										● FG-AC-WMP1Z1								
	IR type	● 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		● FG-IR-WMP1Z1+UTB-YWC		● FG-IR-WMP1Z1+UTY-TRHX		● FG-IR-WMP1Z1		
External switch controller		● UTY-TERX										● 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



**Human sensor kit**  
A built-in thermo sensor monitors and controls room temperature accurately.



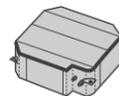
**Cassette grille**  
A lineup of cassette grilles that match a variety of interiors. A grid ceiling-type cassette grille has been added to the lineup.



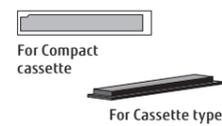
**Silver ion filter**  
The Silver ion filter helps to keep indoor air free from viruses, bacteria and molds.\*



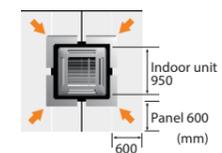
**Fresh air intake kit**  
Fresh air can be taken in by a fan connected to an external control unit.



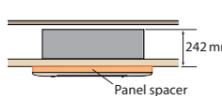
**Insulation kit for high humidity**  
for Compact cassette type/Cassette type  
Insulation kit for high humidity is used when the installation location is in a high humidity environment.



**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.

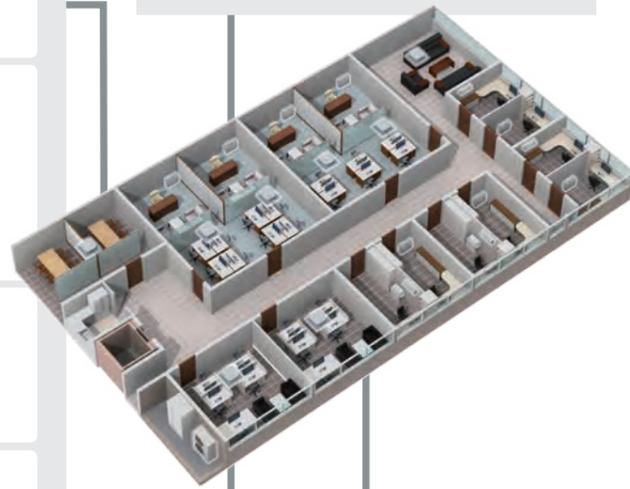


**Panel spacer**  
If the ceiling space is tight and the main body protrudes from the ceiling surface, a panel spacer can be used as a decorative trim.

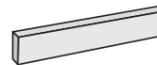
## Optional Parts For V-IV



**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.\*

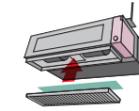
## Optional Parts For Duct & Ceiling



**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

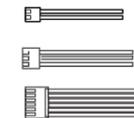
**External input and output PCB**  
For Wall-mounted, Duct, or Cassette type, these parts are required when the external input and output function is used.



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



NEW



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

For Cassette  
UTD-HFAA / UTD-HFRA

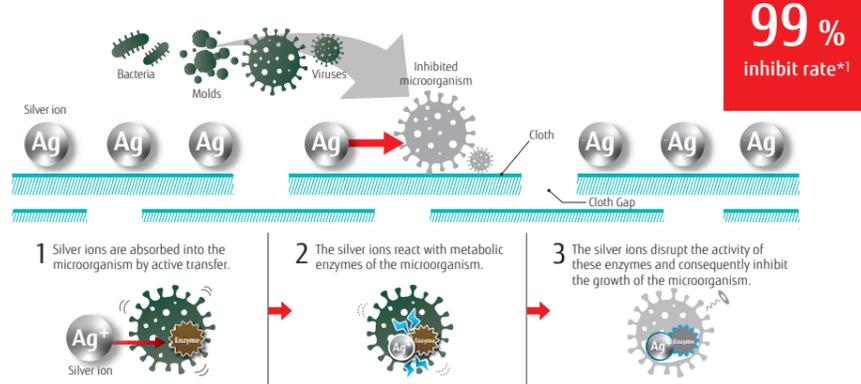
For Duct  
UTD-HFTA / UTD-HFTB  
UTD-HFTC / UTD-HFNC  
UTD-HFNB / UTD-HFNA  
UTD-HFND / UTD-HFKB  
UTD-HFKA

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

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

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

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



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

The filter is easily removable\* and hand-washable.

(\*Wall mounted and floor models only)



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

## Specifications

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

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

# Auto louver grille kit

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

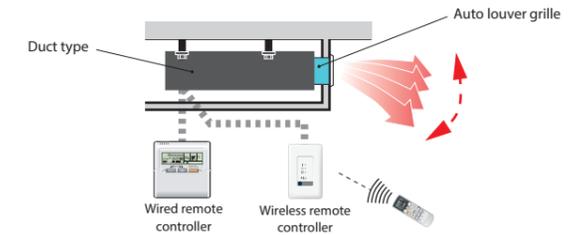


The optional clean-looking flat Auto louver grille kit blends into any interior and provides a comfortable airflow.

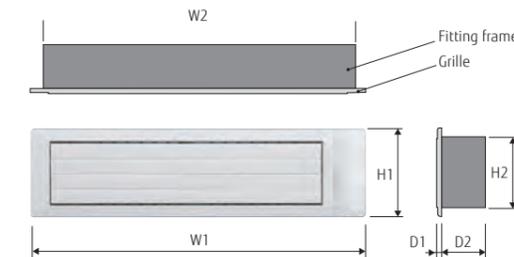


## Flexible Control

- 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



Model name	W1	W2	H1	H2	D1	D2
UTD-GXTA-W	683	645	180	148	9	84
UTD-GXTB-W	883	845	180	148	9	84
UTD-GXTC-W	1,083	1,045	180	148	9	84

Unit: mm

## Specifications

Model name	UTD-GXTA-W	UTD-GXTB-W	UTD-GXTC-W		
Applicable indoor unit	ARYG07/09LLTA ARYG12/14LLTB 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 x W x D)	mm	180 x 683 x (84 + 9)	180 x 883 x (84 + 9)	180 x 1,083 x (84 + 9)	
Weight	Net	kg	2.0 (4.4)	2.5 (5.6)	3.0 (6.7)
	Gross	(lbs)	3.0 (6.7)	3.5 (7.8)	4.0 (8.9)
Color	White				
Louver motor	Stepping motor				
Accessories	Fitting Flame, etc.				
Operating range	Cooling	°C	18 to 32		
		% RH	80 % or less		
Operating range	Heating	°C	16 to 30		

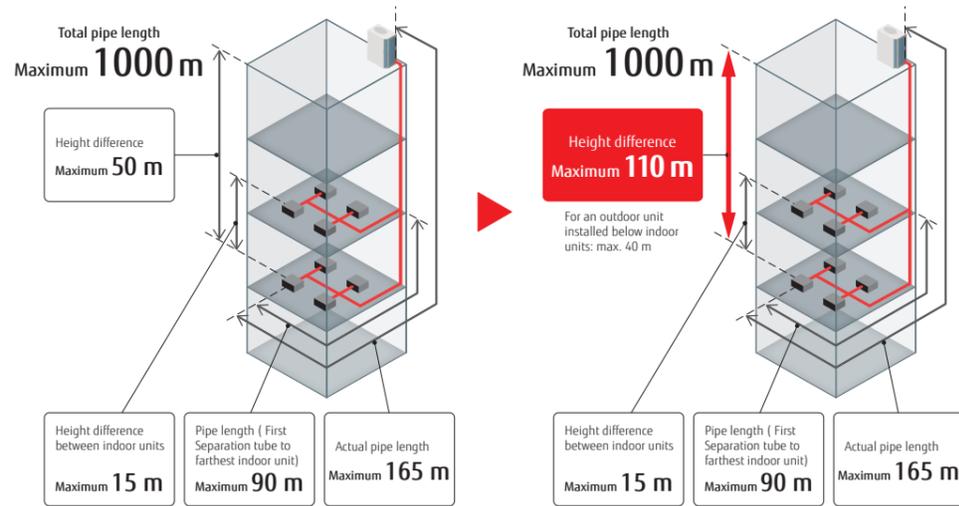
# Pressure sensor kit

UTY-SPWX

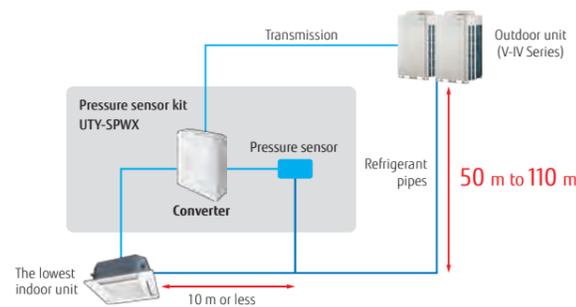


## Design flexibility

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 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-GXXC

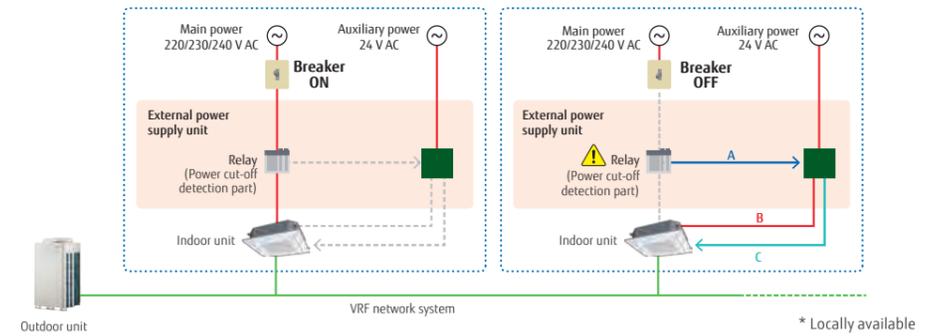


The External power supply unit protects the increment in the system even if the power supply for some of the indoor units is shut down.

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.

## 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

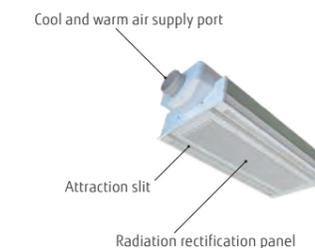
Model name	UTZ-GXXC
Power supply	24 V AC 50/60 Hz
Dimensions (H × W × D) (mm)	97 × 200 × 178
Weight (g)	800

# AIR BEAM Radiation air outlet unit

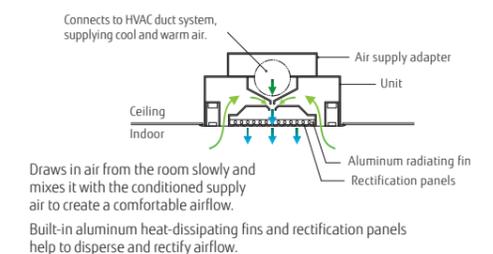
\*Production by order  
 Contact us for more details.



## Key component



## Cross-section view



Airflow rate (m <sup>3</sup> /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															
		Cassette		Duct			Duct			Indoor unit							
		4-way flow Compact	Circular flow	Slim	Medium static pressure (Compact)	Medium static pressure (Standard)	High static pressure	Big	Floor	Ceiling	Wall-mounted	4-way flow Compact cassette	Mini duct	Slim duct	Floor ceiling		
		AUXG 09/12/14/ 18/22/24 KVLA	AUXG 18/22/24/ 30/36/45/54 KRLB	ARXG 09/12/14/18 KLLAP	ARXG 12/14/18/22/ 24/30/36/45/54 KHTAP	ARXG 22/24/30/36/45 KMLA	ARXG45/54KHTB				AGYG 09/12/14 KVCA	ABYG 18/22/24/30/ 36/45/54 KRTA	ASYG 07/09/12 KPCE	AUXG07KVLA	ARXG 07/09/12/14/18 KSLAP	ARXG07KLLAP	
							ARYG60LHTA							AUYG07/09LVLA	ARYG07/09LSLAP	ARYG07/09LLTA	ABYG14LVTA
Human sensor kit			• UTY-SHZXC														
Remote sensor unit	 The remote sensor provides additional convenience.				• UTY-XSZX				• UTY-XSZX						• UTY-XSZX		
Cassette grille		• UTG-UFYF-W	• UTG-UKYA-W, UTG-UKYC-W, UTG-UKYA-B										• UTG-UFYF-W (KVLA), UTG-UFYD-W (LVLA)				
Auto louver grille kit				• UTD-GXTA-W (09/12/14) UTD-GXTB-W (18)											• UTD-GXTA-W (07/09/12/14), UTD-GXTB-W (18)		
Long-life filter					• UTD-LFNA (36/45/54) UTD-LFNB (18/22/24/30) UTD-LFNC (12/14)	• UTD-LF25NA	• UTD-LF60KA (45/54)		• UTD-LFKA								
Flange						• UTD-SF04ST UTD-RF204											
Drain pump unit						• UTZ-PX1NBA			• UTZ-PX1NAB			• UTR-DPB24T					
Wide Panel			• UTG-AKXA-W														
Panel spacer			• UTG-BKXA-W														
Fresh air intake kit	 For Compact cassette For Cassette type	• UTZ-VXAA	• UTZ-VXRA											• UTZ-VXAA			
Air outlet shutter plate	 For Compact cassette For Cassette type	• UTR-YDZB	• UTR-YDZK											• UTR-YDZB			
Insulation kit for high humidity	 For Compact cassette Series/ Cassette type	• UTZ-KXGC	• UTZ-KXRA											• UTZ-KXGC			
Half concealed kit	 Used to half conceal a floor type indoor unit in the wall.									• UTR-STA							
L-type piping kit												• UTP-FX24A (18/22/24) UTP-FX35A (30/36/45/54)					

# Optional parts list for VRF



Type	Refrigerant 	Indoor unit										Indoor unit								Outdoor unit				
		Cassette			Slim type		Large type		Duct			Duct		Floor		Floor/Ceiling		Ceiling		Wall-mounted				V-IV Series
		One-way flow	3D flow	Compact grid type/ Standard type	Circular flow		Mini (With drain pump)	Slim (With drain pump)		Medium static pressure	High static pressure		-	external EEV	Floor/Ceiling	Ceiling	-	external EEV	-	-	-	-		
		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	ARXA 024/030/ 036/045 GLEH	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	ASVA 004/007/009 012/014 GCGH	ASVE 004/007/009 012/014 GCEH	ASVA 018/024GCEH	ASVA 030/034GTEH	AY 072/090/108/ 126/144/162 LALDH			
Human sensor kit					● UTY-SHZXC																			
Remote sensor unit								● UTY-XSZX			● UTY-XSZX													
Cassette grille					● UTG-UNYA-W ● UTG-UNVB-W		● UTG-USYA-W	● UTG-UFYE-W ● UTG-UFYC-W		● UTG-UKYC-W ● UTG-UKYA-B														
Auto louver grille kit								● UTD-GXTA-W ● UTD-GXTB-W (18) ● UTD-GXTC-W (24)																
Long-life filter											● UTD-LF2SNA	● UTD-LF60KA (036/045/060)												
Flange											● UTD-SF045T ● UTD-RF204						● UTD-RF204							
Drain Pump Unit											● UTZ-PX1NBA						● UTR-DPB24T							
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-YDZK																		
Insulation kit for high humidity					● UTZ-KXGC	● UTZ-KXRA																		
Half concealed kit														● UTR-STA										
External power supply unit		● UTZ-GXXC		● UTZ-GXXC				● UTZ-GXXC	● UTZ-GXXC	● UTZ-GXXC			● UTZ-GXXC						● UTZ-GXXC					
Pressure sensor kit																					● UTZ-SPWX			





# Separation tube



## For SPLIT/MULTI-SPLIT/SIMULTANEOUS MULTI-SPLIT

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



## for VRF

Separation tube			
UTP-AX054A  Gas pipe  Liquid pipe  	UTP-AX090A  Gas pipe  Liquid pipe  	UTP-AX180A  Gas pipe  Liquid pipe  	UTP-AX567A  Gas pipe  Liquid pipe  
UTP-BX090A  Suction Gas pipe  Discharge Gas pipe  Liquid pipe  	UTP-BX180A  Suction Gas pipe  Discharge Gas pipe  Liquid pipe  	UTP-BX567A  Suction Gas pipe  Discharge Gas pipe  Liquid pipe  	UTP-LX180A For DX kit  

## Header

UTR-H0906L/UTR-H1806L  Gas pipe  Liquid pipe  	UTR-H0908L/UTR-H1808L  Gas pipe  Liquid pipe  	UTP-J0906A/UTP-J1806A  Suction gas pipe  Discharge gas pipe  Liquid pipe  	UTP-J0908A/UTP-J1808A  Suction gas pipe  Discharge gas pipe  Liquid pipe  
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## Outdoor unit branch kit

Outdoor unit branch kit		Separation tube for RB unit	
UTP-CX567A  Gas Pipe  Liquid Pipe  	UTP-DX567A  Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe  	UTP-EX060A  Gas Pipe  Liquid Pipe  	UTP-EX096A  Gas Pipe  Liquid Pipe  

## for VRF

EV kit
Model name $\leq$ 09: UTR-EV09XB Model name $\geq$ 12: UTR-EV14XB for compact wall-mounted type  

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

## Specifications

### Separation tube

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

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

### Header

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

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

### Outdoor unit branch kit

Model name	UTP-CX567A (for V-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

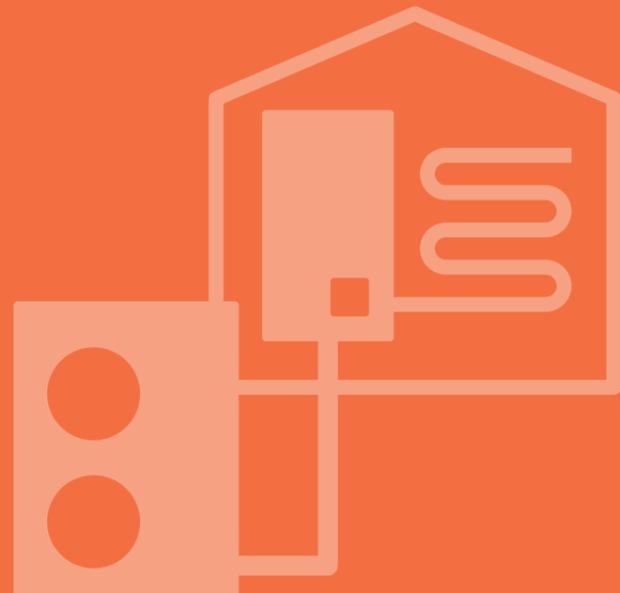
### RB unit

Type	Single type				Multi-split type		
	Model name	UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH	UTP-RX08AH	UTP-RX12AH
Power source	V/Ø/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 $\leq$ 8.0	Q $\leq$ 18.0	Q $\leq$ 28.0	Q $\leq$ 56.1*1	Q $\leq$ 72.0	Q $\leq$ 95.0
Maximum capacity of connectable indoor units per branch (Q)	kW	Q $\leq$ 8.0	Q $\leq$ 18.0	Q $\leq$ 28.0	Q $\leq$ 18.0	Q $\leq$ 8.0	Q $\leq$ 8.0
Maximum 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
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- W-024 Control Overview
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- 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, bathrooms—even a swimming pool.



## 24 Models

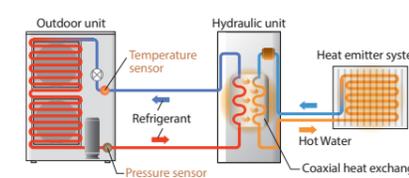
Fujitsu General WATERSTAGE™ heat pumps offer a variety of high-efficiency renewable central heating systems that absorb energy primarily from the air.



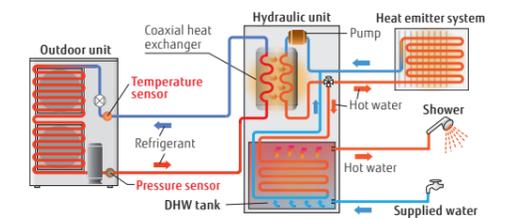
### Optimized refrigerant cycle operation

Super High Power and High Power Series deliver high performance and efficiency with twin sensors and hot water heating technology.

### Split Type

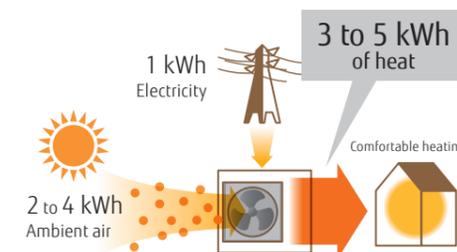


### Split DHW Integrated Type



### What is a heat pump?

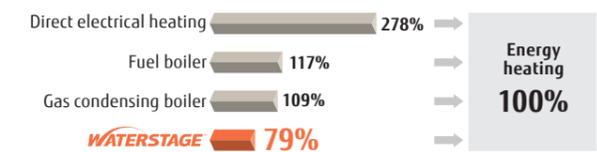
A heat pump extracts heat energy from the atmosphere. It requires only 1 kW of electricity to generate 3 to 5 kW of thermal energy.



### 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						Split DHW Integrated Type							
	Super High Power Series		High Power Series		Comfort Series		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	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"> <li>Supplies 60°C hot water even when the outdoor temperature is -20°C.</li> <li>Supplies 55°C hot water even when the outdoor temperature is -22°C.</li> <li>Can be used with a variety of heating systems, including underfloor heating and radiators.*</li> <li>Heating and DHW supply in one system.*</li> <li>Equipped with additional electric heater for backup</li> <li>Up to two independent control circuits.*</li> <li>Cooling operation is possible.*</li> <li>Operating range is -25 to 35°C.</li> </ul>		<ul style="list-style-type: none"> <li>Supplies 60°C hot water even when the outdoor temperature is -20°C.</li> <li>Can be used with a variety of heating systems, including underfloor heating and radiators.*</li> <li>Heating and DHW supply in one system.*</li> <li>Equipped with additional electric heater for backup</li> <li>Up to two independent control circuits.*</li> <li>Cascade connection is possible for up to three systems.*</li> <li>Cooling operation is possible.*</li> <li>Operating range is -25 to 35°C.</li> </ul>		<ul style="list-style-type: none"> <li>Supplies 55°C hot water even when the outdoor temperature is -22°C.</li> <li>Heating and DHW supply in one system.*</li> <li>Equipped with additional electric heater for backup</li> <li>Up to two independent control circuits.*</li> <li>Cooling operation is possible.*</li> <li>Operating range is -20 to 35°C.</li> <li>Can be used with a variety of heating systems, including underfloor heating and radiators.*</li> </ul>		<ul style="list-style-type: none"> <li>Supplies 60°C hot water even when the outdoor temperature is -20°C.</li> <li>Supplies 55°C hot water even when the outdoor temperature is -22°C.</li> <li>Can be used with a variety of heating systems, including underfloor heating and radiators.*</li> <li>Space saving heating and DHW supply in a single Hydraulic unit</li> <li>Equipped with additional electric heater for backup</li> <li>Up to two independent control circuits.*</li> <li>Cooling operation is possible.*</li> <li>Operating range is -25 to 35°C.</li> </ul>		<ul style="list-style-type: none"> <li>Supplies 60°C hot water even when the outdoor temperature is -20°C.</li> <li>Can be used with a variety of heating systems, including underfloor heating and radiators.*</li> <li>Space saving heating and DHW supply in a single Hydraulic unit</li> <li>Equipped with additional electric heater for backup</li> <li>Up to two independent control circuits.*</li> <li>Cooling operation is possible.*</li> <li>Operating range is -25 to 35°C.</li> </ul>		<ul style="list-style-type: none"> <li>Supplies 55°C hot water even when the outdoor temperature is -22°C.</li> <li>Heating and DHW supply in one system.</li> <li>Equipped with additional electric heater for backup</li> <li>Up to two independent control circuits.*</li> <li>Cooling operation is possible.*</li> <li>Operating range is -20 to 35°C.</li> <li>Can be used with a variety of heating systems, including underfloor heating and radiators.*</li> </ul>			
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		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							WGYA050ML3 WOYA060KLT		
	6 kW				WSYA080ML3 WOYA060KLT							WGYA080ML3 WOYA060KLT		
	8 kW				WSYA080ML3 WOYA080KLT							WGYA080ML3 WOYA080KLT		
	10 kW				WSYA100ML3 WOYA100KLT							WGYA100ML3 WOYA100KLT		
	11 kW			WSYG140DG6 WOYG112LHT	WSYK160DG9 WOYK112LCTA					WGYK140DG6 WOYG112LHT	WGYK160DG9 WOYK112LCTA			
	14 kW			WSYG140DG6 WOYG140LCTA	WSYK160DG9 WOYK140LCTA					WGYK140DG6 WOYG140LCTA	WGYK160DG9 WOYK140LCTA			
	15 kW		WSYK170DJ9 WOYK150LJL							WGYK170DJ9 WOYK150LJL				
	16 kW	WSYG160DJ6 WOYG160LJL			WSYK160DG9 WOYK160LCTA				WGYK160DJ6 WOYK160LJL				WGYK160DG9 WOYK160LCTA	
17 kW		WSYK170DJ9 WOYK170LJL							WGYK170DJ9 WOYK170LJL					

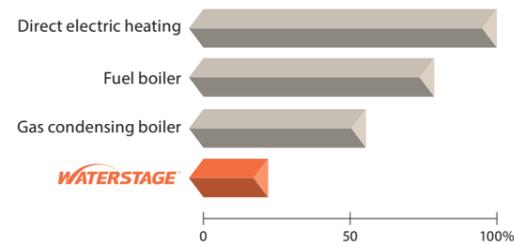
\* Please refer to page W-036, W-037 for more optional parts information.

# Benefits

**Less**  
CO<sub>2</sub> Emissions

WATERSTAGE™ is an environmentally friendly system that emits substantially less carbon dioxide than conventional gas and hydrocarbon combustion systems.

### Average annual CO<sub>2</sub> 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

**Clean**  
and Healthy

As a WATERSTAGE™ system does not use a burner to heat water, it does not produce NO<sub>x</sub> or other harmful substances.



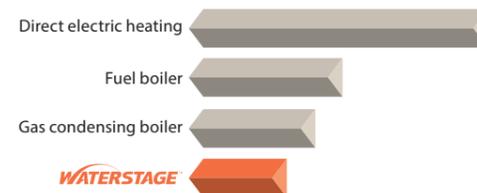
Environmentally friendly heating system



**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.

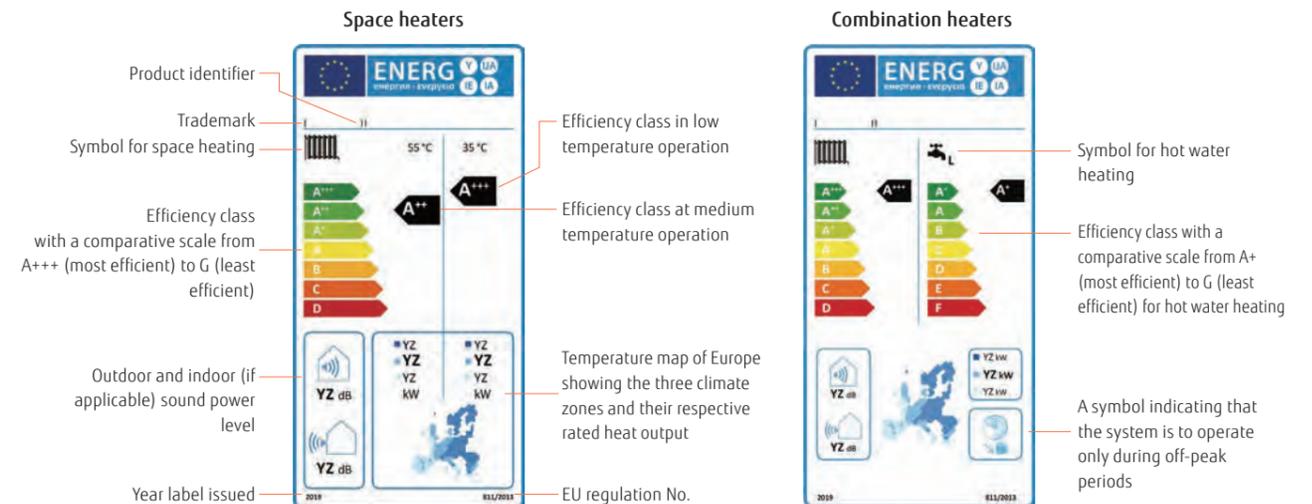
**Easy**  
Installation and Maintenance

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\*<sup>1</sup> 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<sub>s</sub>). The value is based upon the Seasonal Coefficient of Performance (SCOP).

### The Energy Labelling Directive (EU) No. 811/213

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+++	η <sub>s</sub> ≥ 150	η <sub>s</sub> ≥ 175
A++	125 ≤ η <sub>s</sub> < 150	150 ≤ η <sub>s</sub> < 175
A+	98 ≤ η <sub>s</sub> < 125	123 ≤ η <sub>s</sub> < 150
A	90 ≤ η <sub>s</sub> < 98	115 ≤ η <sub>s</sub> < 123
B	82 ≤ η <sub>s</sub> < 90	107 ≤ η <sub>s</sub> < 115
C	75 ≤ η <sub>s</sub> < 82	100 ≤ η <sub>s</sub> < 107
D	36 ≤ η <sub>s</sub> < 75	61 ≤ η <sub>s</sub> < 100
E	34 ≤ η <sub>s</sub> < 36	59 ≤ η <sub>s</sub> < 61
F	30 ≤ η <sub>s</sub> < 34	55 ≤ η <sub>s</sub> < 59
G	η <sub>s</sub> < 30	η <sub>s</sub> < 55

### EHPA Quality Label



Fujitsu General's WATERSTAGE™<sup>2</sup> has acquired the EHPA Quality Label<sup>3</sup> through testing in accordance with the International Standards EN14511 and EN17025. The EHPA Quality Label<sup>3</sup> 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/](http://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 BWV<sup>4</sup>, 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

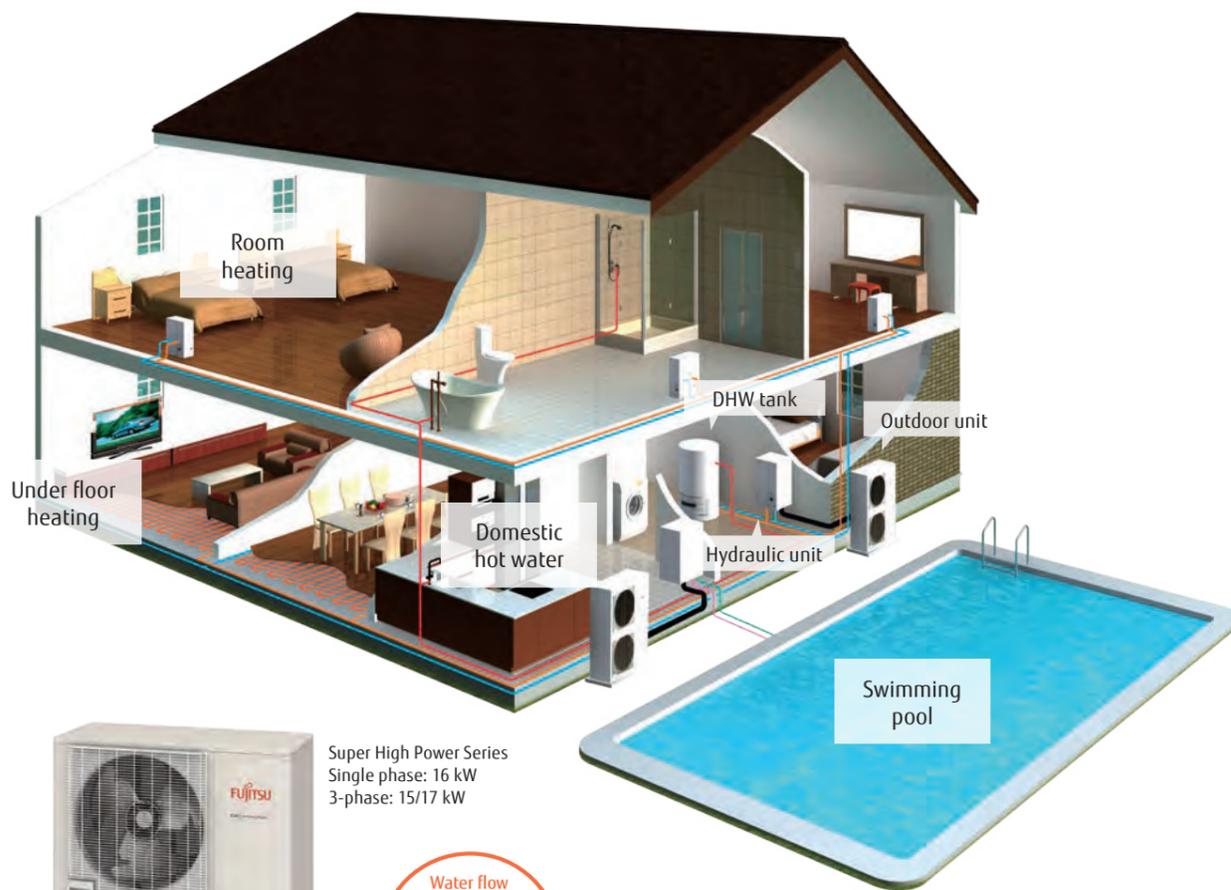


The Heat Pump KEYMARK is a full certificate supporting the quality of heat pumps in the European market. The Heat Pump KEYMARK is a voluntary, independent, European certification mark (ISO Type 5 Certification) for all heat pumps, combination heat pumps, and hot water heaters (as covered by Ecodesign, EU Regulation 813/2013 and 814/2013). Fujitsu General's WATERSTAGE™<sup>5</sup> has acquired the KEYMARK certificate<sup>6</sup>.

\*5: R32 refrigerant comfort model only  
\*6: Learn more about the validity of the mark at [www.heatpumpkeymark.com/about/](http://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

Water flow temperature  
**60°C**

\* When using the Swimming pool, other devices (Radiator, DHW tank etc.) cannot be connected in the same system. The Swimming pool hydraulic components will need be 3rd party supplied.

## 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.<sup>1</sup>

\*1: High Power Series only



## Adopting R32 refrigerant

R32 refrigerant is an environmentally friendly refrigerant with a significantly lower Global Warming Potential (GWP) than conventional refrigerants.



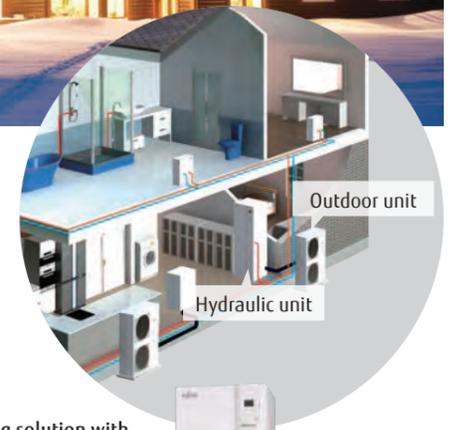
### + DHW tank

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, W-037 for more optional parts information.

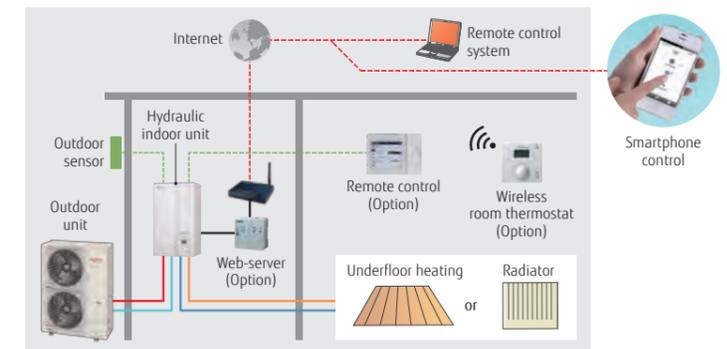


Stylish space saving solution with built-in DHW tank



## 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.



## Smart control

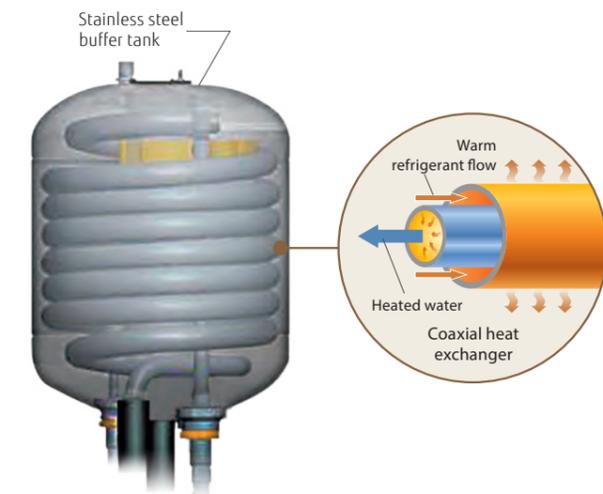
To meet the diverse needs of customers, we offer a variety of control options, such as individual control and remote control options.

# High-Efficiency Technology

## Twin-Rotary Compressor



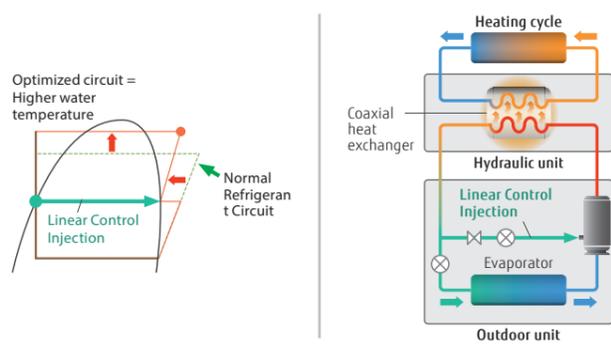
## High-durability coaxial heat exchanger



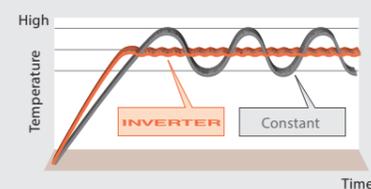
## For Outdoor unit

### 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.



### DC inverter technology controls temperatures precisely.



## 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

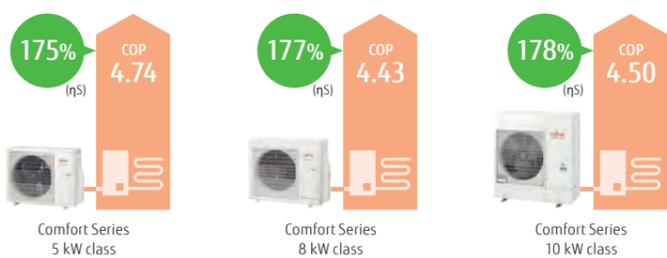
Heat pumps of WATERSTAGE™ ATW Systems work more efficiently and consume less energy than conventional heating systems.

Energy efficiency class **A+++\***

\*Temperature application: Heating temp. 35°C

### Seasonal space heating energy efficiency (η<sub>s</sub>)

Conditions: Outdoor Temp. 7°C Heating Temp. 35°C



## 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				
	Outdoor unit	WOYA060KLT	WOYA060KLT	WOYA080KLT	WOYA100KLT				
<b>Capacity Range</b>		5	6	8	10				
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				
<b>Space heating characteristics**</b>									
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 <sub>rated</sub> )	kW	5	5	6	7	8	9	8	9
Seasonal space heating energy efficiency (η <sub>s</sub> )	%	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	-
<b>Hydraulic unit specifications</b>									
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				
Weight (Net)	kg	47	47	47	47				
Water circulation	Min./Max. L/min	7.6/22.0	8.5/22.0	10.0/22.0	13.2/30.0				
Buffer tank capacity	L	16	16	16	16				
Expansion vessel capacity	L	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				
Backup heater	Capacity kW	3.0	3.0	3.0	3.0				
<b>Outdoor unit specifications</b>									
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				
Weight (Net)	kg	39	39	42	62				
Refrigerant	Type (Global Warming Potential)	R32 (675)							
	Charge	kg	0.97	0.97	1.02	1.63			
Additional refrigerant charge		g/m	25	25	20				
	Diameter	Liquid mm	6.35	6.35	6.35	9.52			
Connection pipe	Length	m	3/30	3/30	3/30				
	Length (Pre-charge)	m	15	15	15				
	Height difference	m	20	20	20				
	Max. Heating °C	°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.

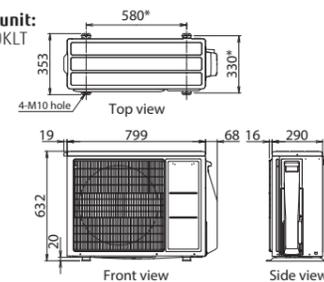
\*2: Information about ErP can be downloaded from our website at [www.fujitsu-general.com/global/support/downloads/search/](http://www.fujitsu-general.com/global/support/downloads/search/)

\*3: The sound power level values are based on EN12102 standard measurements under EN14825 standard conditions.

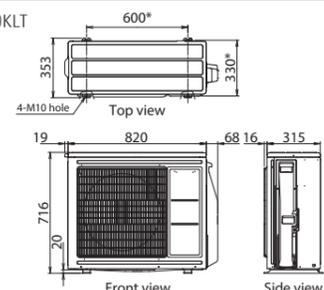
## Dimensions

(Unit: mm)

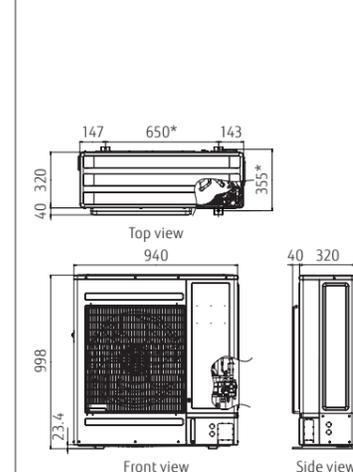
**Outdoor unit:**  
WOYA060KLT



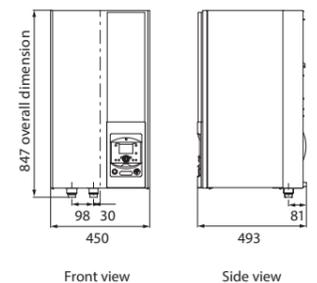
WOYA080KLT



WOYA100KLT



**Hydraulic unit:**  
WSYA050ML3/WSYA080ML3/WSYA100ML3



\*Pitch of bolts for installation

# Split Type

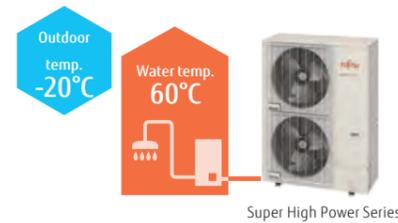
Super High Power Series



## 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.



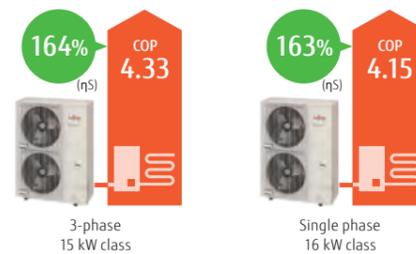
## High COP

Heat pumps of WATERSTAGE™ ATW Systems work more efficiently and consume less energy than conventional heating systems.



### Seasonal space heating energy efficiency (η<sub>s</sub>)

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	Outdoor unit	WSYG160DJ6 WOYG160LJL	WSYK170DJ9 WOYK150LJL	WSYK170DJ9 WOYK170LJL	
<b>Capacity range</b>			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	
<b>Space heating characteristics*2</b>						
Temperature application	°C		55	35	55	35
Energy efficiency class			A++	A++	A++	A++
Rated heat output (P <sub>rated</sub> )	kW		14	16	16	17
Seasonal space heating energy efficiency (η <sub>s</sub> )	%		125	163	130	164
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
<b>Hydraulic unit specifications</b>						
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.)	
<b>Outdoor unit specifications</b>						
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)			
Additional refrigerant charge	Charge	kg	3.80		3.80	
		g/m	50		50	
Connection pipe	Diameter	Liquid	mm	Ø9.52		
		Gas		Ø15.88		
	Length	Min./Max.	m	5/30		
		(Pre-charge)		15		
Height difference	Max.	m	25/15 (Outdoor unit: Upper/Lower)			
Operating range	Heating	°C	-25 to 35		-25 to 35	

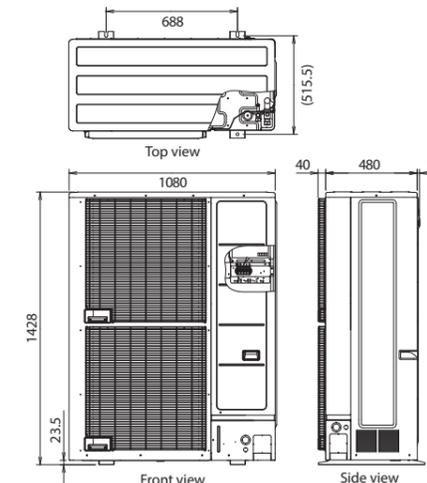
\*1: Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.

\*2: Information about ErP can be downloaded from our website at [www.fujitsu-general.com/global/support/downloads/search/](http://www.fujitsu-general.com/global/support/downloads/search/)

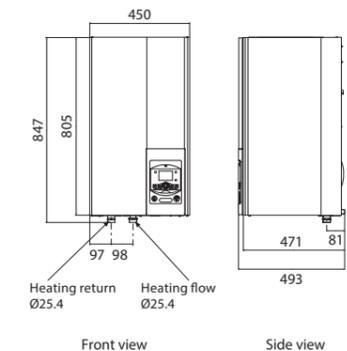
## Dimensions

(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<sub>s</sub>)

Conditions: Outdoor Temp. 7°C Heating Temp. 35°C



**Hydraulic unit:**  
WSYG140DG6/[3-phase] WSYK160DG9  
**Outdoor unit:**  
WOYG112LHT/WOYG140LCTA  
[3-phase] WOYK112LCTA/WOYK140LCTA/  
WOYK160LCTA



### Specifications

Model Name	Hydraulic unit	WSYG140DG6	WSYG140DG6	WSYK160DG9	WSYK160DG9	WSYK160DG9
	Outdoor unit	WOYG112LHT	WOYG140LCTA	WOYK112LCTA	WOYK140LCTA	WOYK160LCTA
Capacity range		11	14	11	14	16
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
<b>Space heating characteristics*2</b>						
Temperature application	°C	55	35	55	35	55
Energy efficiency class		A+	A++	A+	A+	A+
Rated heat output (P <sub>rated</sub> )	kW	9	11	11	13	14
Seasonal space heating energy efficiency (η <sub>s</sub> )	%	112	151	113	148	112
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		70
<b>Hydraulic unit specifications</b>						
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	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.)	
<b>Outdoor unit specifications</b>						
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	92			1,290 × 900 × 330	
Weight (Net)	kg	92			99	
Refrigerant	Type (Global Warming Potential)	R410A (2,088)				
Additional refrigerant charge	Charge	2.50				
		50				
Connection pipe	Diameter	Liquid	Ø9.52			
		Gas	Ø15.88			
	Length	Min./Max.	5/20			
	Length (Pre-charge)		15			
Height difference	Max.	15				
		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/](http://www.fujitsu-general.com/global/support/downloads/search/)

### Dimensions

(Unit: mm)

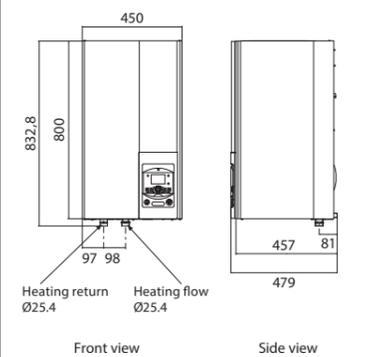
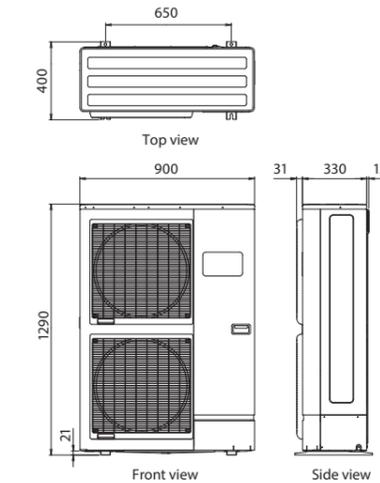
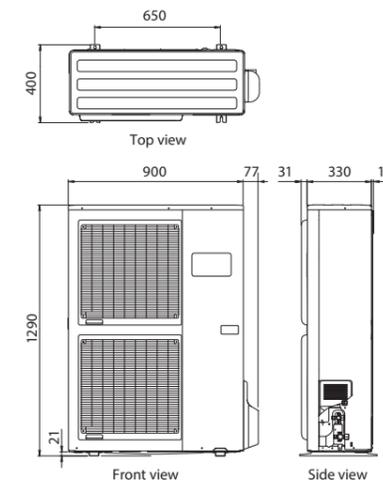
#### Outdoor unit:

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<sub>s</sub>)

Conditions: Outdoor Temp. 7°C Heating Temp. 35°C



## 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	
	Outdoor unit	WOYA060KLT	WOYA060KLT	WOYA080KLT	WOYA100KLT	
<b>Capacity range</b>		5	6	8	10	
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	
<b>Space heating characteristics*2</b>						
Temperature application	°C	55	35	55	35	
Energy efficiency class		A++	A+++	A++	A+++	
Rated heat output (P <sub>rated</sub> )	kW	5	5	6	7	
Seasonal space heating energy efficiency (η <sub>s</sub> )	%	125	175	125	177	
Annual energy consumption	kWh	3,035	2,322	3,411	2,594	
Sound power level*3	Hydraulic unit	40	-	40	-	
	Outdoor unit	57	-	57	-	
<b>Domestic hot water characteristics*2</b>						
Load profile		L	L	L	L	
Energy efficiency class		A+	A+	A+	A+	
Energy efficiency (η <sub>wh</sub> )	%	130	130	130	130	
Annual electricity consumption	kWh	793	793	793	793	
<b>Hydraulic unit specifications</b>						
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	
Hot water heater capacity	kW	1.5	1.5	1.5	1.5	
Buffer tank capacity	L	16	16	16	16	
Expansion vessel capacity	L	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	
Backup heater	Capacity kW	3.0	3.0	3.0	3.0	
<b>Outdoor unit specifications</b>						
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	
Weight (Net)	kg	39	39	42	62	
Refrigerant	Type (Global Warming Potential)	R32 (675)				
Charge	kg	0.97	0.97	1.02	1.63	
Additional refrigerant charge	g/m	25	25	25	20	
Connection pipe	Diameter	Liquid mm	6.35	6.35	6.35	9.52
	Length	Gas mm	12.70	12.70	12.70	15.88
	Length (Pre-charge)	Min./Max. m	3/30	3/30	3/30	3/30
	Height difference	Max. m	15	15	15	20
Operating range	Heating	°C	-20 to 35	-20 to 35	-20 to 35	-20 to 35

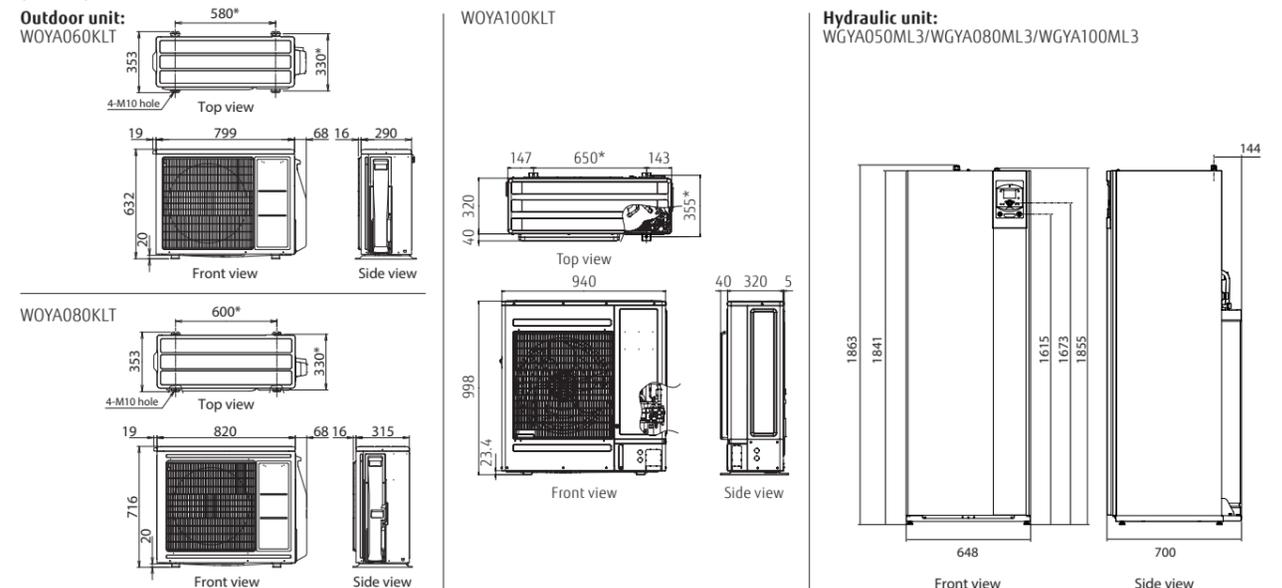
\*1: Heating capacity, input power, and COP are measured using the EN14511 standard. Actual usage environments, such as the operating modes of the heating equipment, room temperature, and controller settings, may cause differences in values between those listed in the catalog and the actual performance characteristics.

\*2: Information about EIP can be downloaded from our website at [www.fujitsu-general.com/global/support/downloads/search/](http://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)



\*Pitch of bolts for installation

# Split DHW Integrated Type

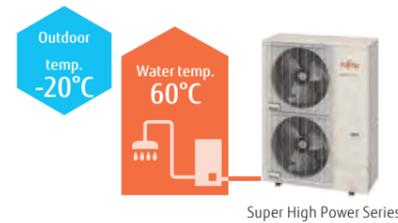
Super High Power Series



## 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.



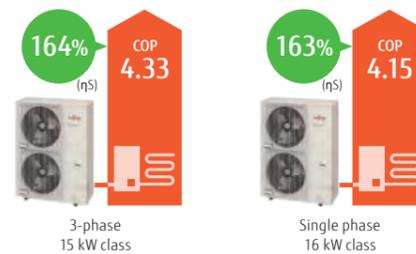
## High COP

Heat pumps of WATERSTAGE™ ATW Systems work more efficiently and consume less energy than conventional heating systems.



### Seasonal space heating energy efficiency (η<sub>s</sub>)

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

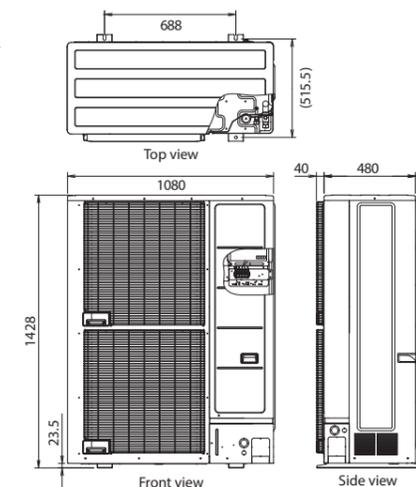
### Specifications

Model Name	Hydraulic unit	WGYG160DJ6	WGYK170DJ9	WGYG170DJ9
Capacity range	Outdoor unit	WGYG160LJL	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
<b>Space heating characteristics*2</b>				
Temperature application	°C	55	35	55
Energy efficiency class		A++	A++	A++
Rated heat output (P <sub>rated</sub> )	kW	14	16	17
Seasonal space heating energy efficiency (η <sub>s</sub> )	%	125	163	130
Annual energy consumption	kWh	8,757	8,014	9,915
Sound power level	Hydraulic unit	45	45	45
	Outdoor unit	67	66	67
<b>Domestic hot water characteristics*2</b>				
Load profile				L
Energy efficiency class				A
Energy efficiency (η <sub>wh</sub> )	%			109
Annual electricity consumption	kWh			941
<b>Hydraulic unit specifications</b>				
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	
Hot water heater capacity	kW		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	
Backup heater	Capacity kW	6.0 (3.0 kW × 2 pcs.)	9.0 (3.0 kW × 3 pcs.)	
<b>Outdoor unit specifications</b>				
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	
Additional refrigerant charge		g/m	50	
	Diameter	Liquid mm	Ø9.52	
Connection pipe		Gas mm	Ø15.88	
	Length	Min./Max. m	5/30	
	Length (Pre-charge)	m	15	
Height difference	Max. m	25/15 (Outdoor unit: Upper/Lower)		
	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 <a href="http://www.fujitsu-general.com/global/support/downloads/search/">www.fujitsu-general.com/global/support/downloads/search/</a>				

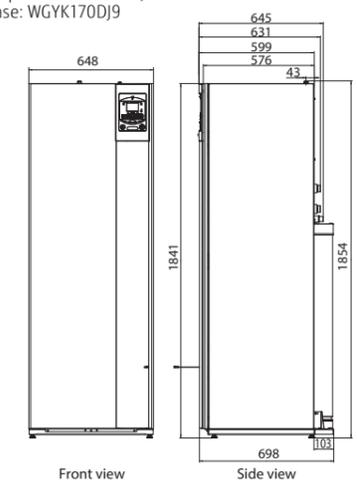
### Dimensions

(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.



\*Temperature application: Heating temp. 35°C

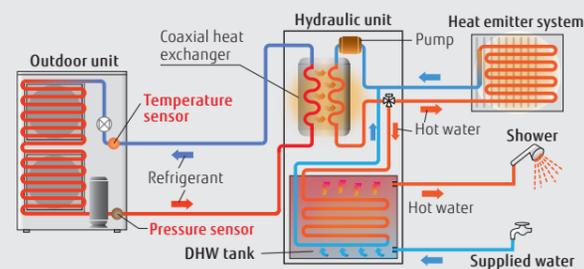
### Seasonal space heating energy efficiency (η<sub>s</sub>)

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		WGYK160DG9		WGYG140DG6		WGYK160DG9	
	Outdoor unit		WOYG112LHT	WOYG140LCTA	WOYK112LCTA	WOYK140LCTA	WOYK112LCTA	WOYK140LCTA	WOYK160DG9	WOYK160LCTA
Capacity range			11	14	11	14	11	14	14	16
	7°C/35°C floor heating *1	Heating capacity	kW		10.80	13.50	10.80	13.50	13.50	15.17
		Input power	kW		2.54	3.23	2.51	3.20	3.20	3.70
COP				4.25	4.18	4.30	4.22	4.10	4.10	
2°C/35°C floor heating *1	Heating capacity	kW		10.77	12.00	10.77	13.00	13.00	13.50	
	Input power	kW		3.44	3.87	3.40	4.15	4.15	4.34	
	COP			3.13	3.10	3.17	3.13	3.13	3.11	
-7°C/35°C floor heating *1	Heating capacity	kW		10.38	11.54	10.38	12.20	12.20	13.50	
	Input power	kW		4.32	5.08	4.28	5.13	5.13	5.40	
	COP			2.40	2.27	2.43	2.38	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 <sub>rated</sub> )	kW	9	11	11	13	9	11	11	13	13	14
Seasonal space heating energy efficiency (η <sub>s</sub> )	%	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	dB(A)		46	46	46	46	46	46	46	46
	Outdoor unit	dB(A)		68	69	69	68	70	68	71	71

### Domestic hot water characteristics\*2

Load profile		L									
Energy efficiency class		A									
Energy efficiency (η <sub>wh</sub> )	%	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								
Hot water heater capacity	kW	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								
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	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								
Additional refrigerant charge		g/m								
	Diameter	mm								
Connection pipe	Liquid	Ø9.52								
	Gas	Ø15.88								
	Length	m								
	Length (Pre-charge)	m								
Height difference	Max. m	15								
	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.

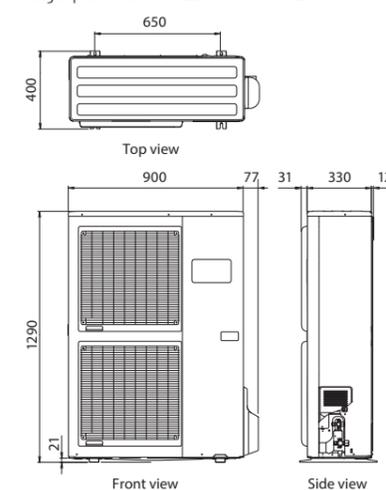
\*2: Information about ErP can be downloaded from our website at [www.fujitsu-general.com/global/support/downloads/search/](http://www.fujitsu-general.com/global/support/downloads/search/)

### Dimensions

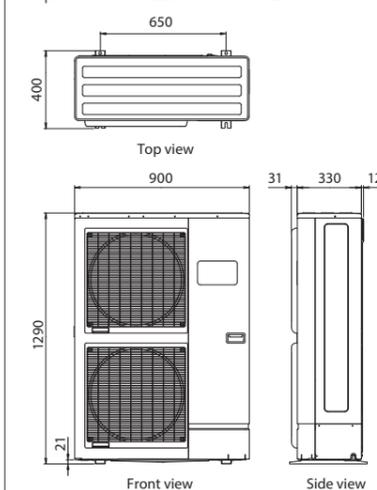
(Unit: mm)

#### Outdoor unit:

Single phase: WGYG112LHT/WOYG140LCTA

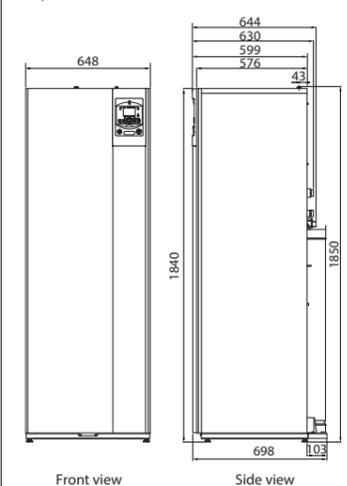


3-phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



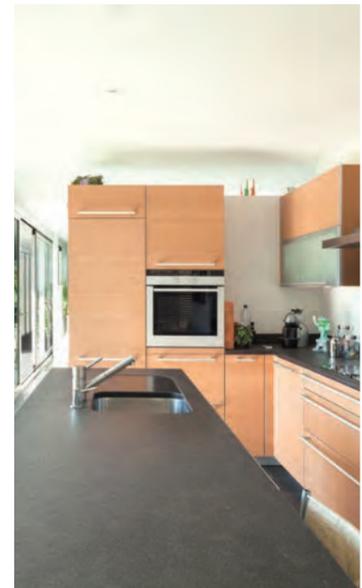
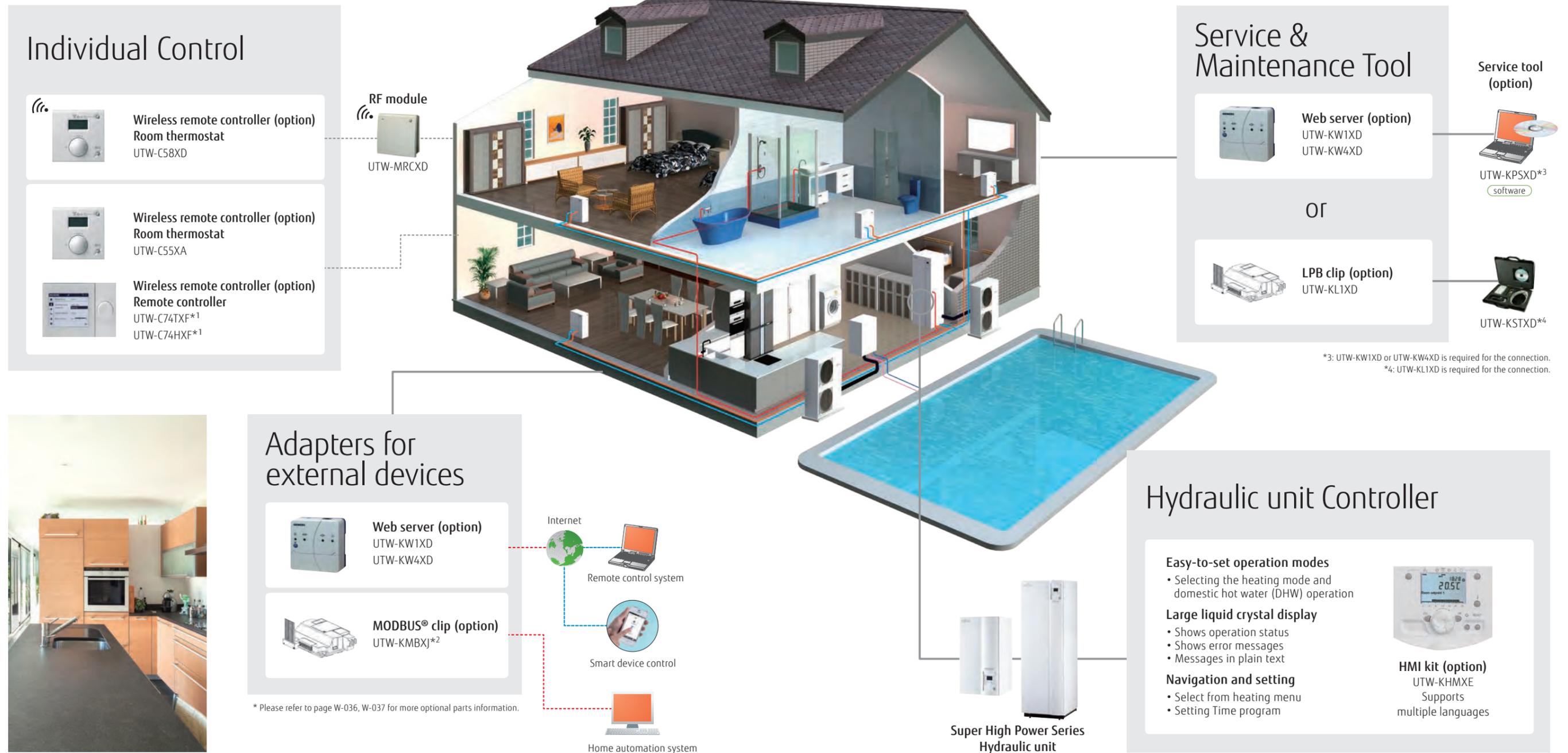
#### Hydraulic unit:

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.



# 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

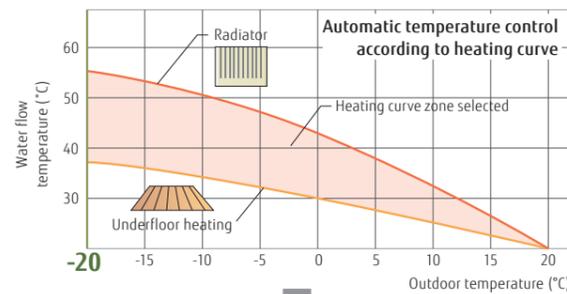
- 1. Automatic mode**  
Enables automatic switching between Comfort mode and Reduce mode according to time program
- 2. Reduce mode**  
Maintains water temperature at a lower level
- 3. Comfort mode**  
Maintains water temperature at a comfortable level
- 4. Protection mode**  
Activates frost protection in standby operation



# Useful Features

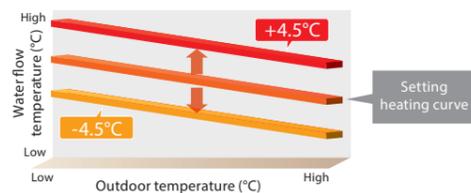
## Automatic heating curve control

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.

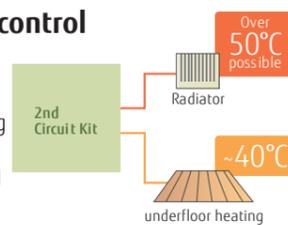
## Auto changeover

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

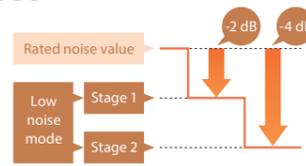
\*1: Optional parts required



## 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, W-037 for more optional parts information.



# Safety Features

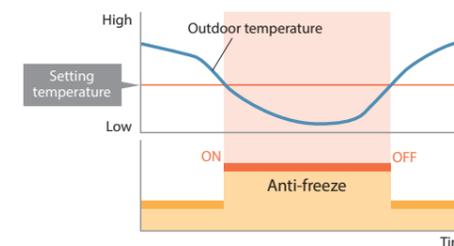
## Anti-Legionella function

Prevents the growth of Legionella bacteria in the DHW tank to supply safe and clean hot water at all times.



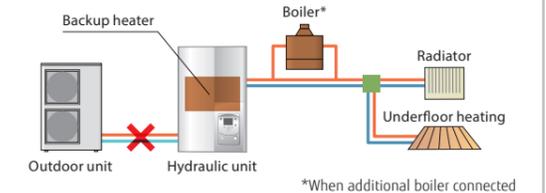
## Anti-freeze function

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

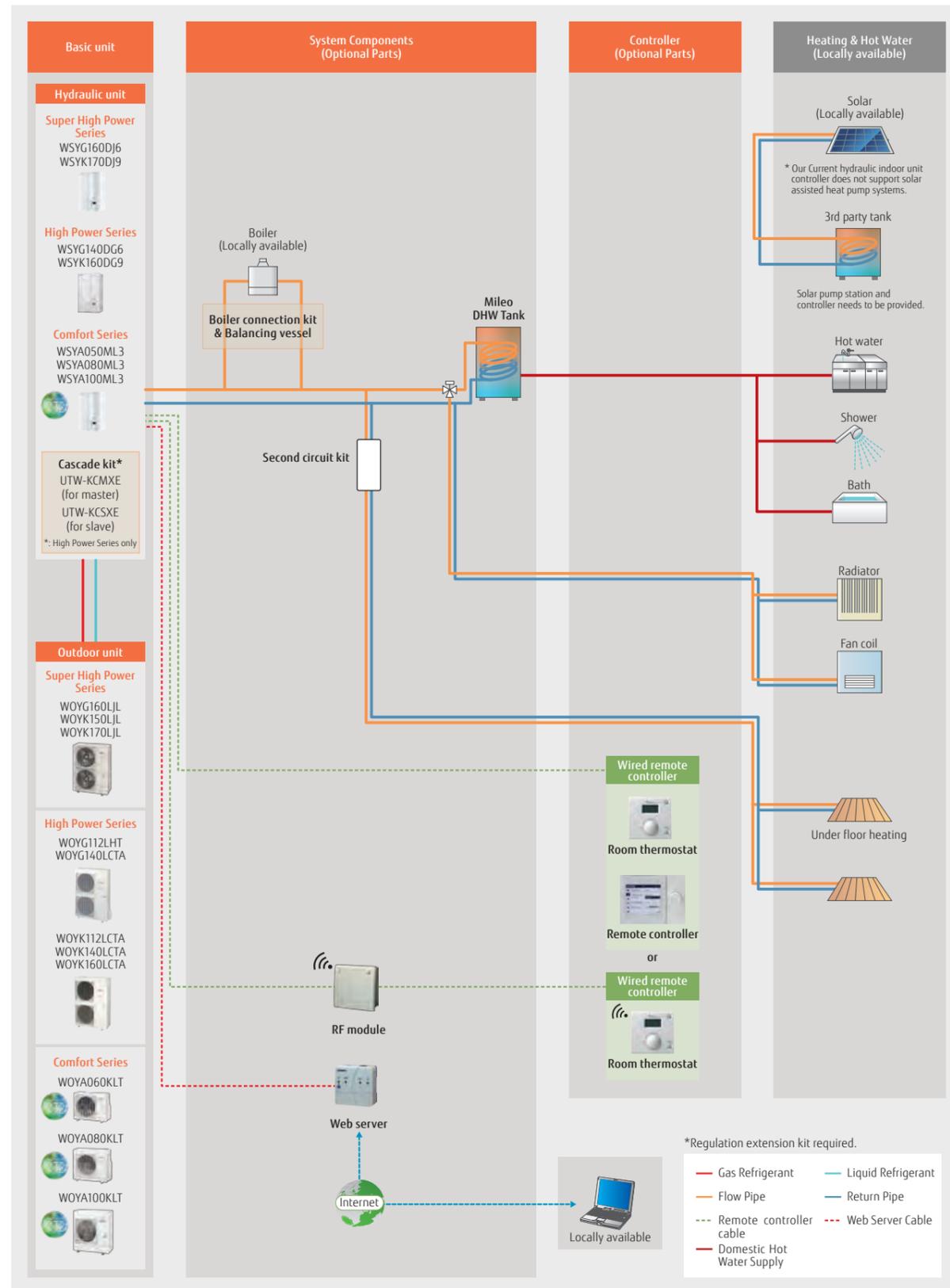


- Error history saves 10 errors in memory
- Display telephone number of service company

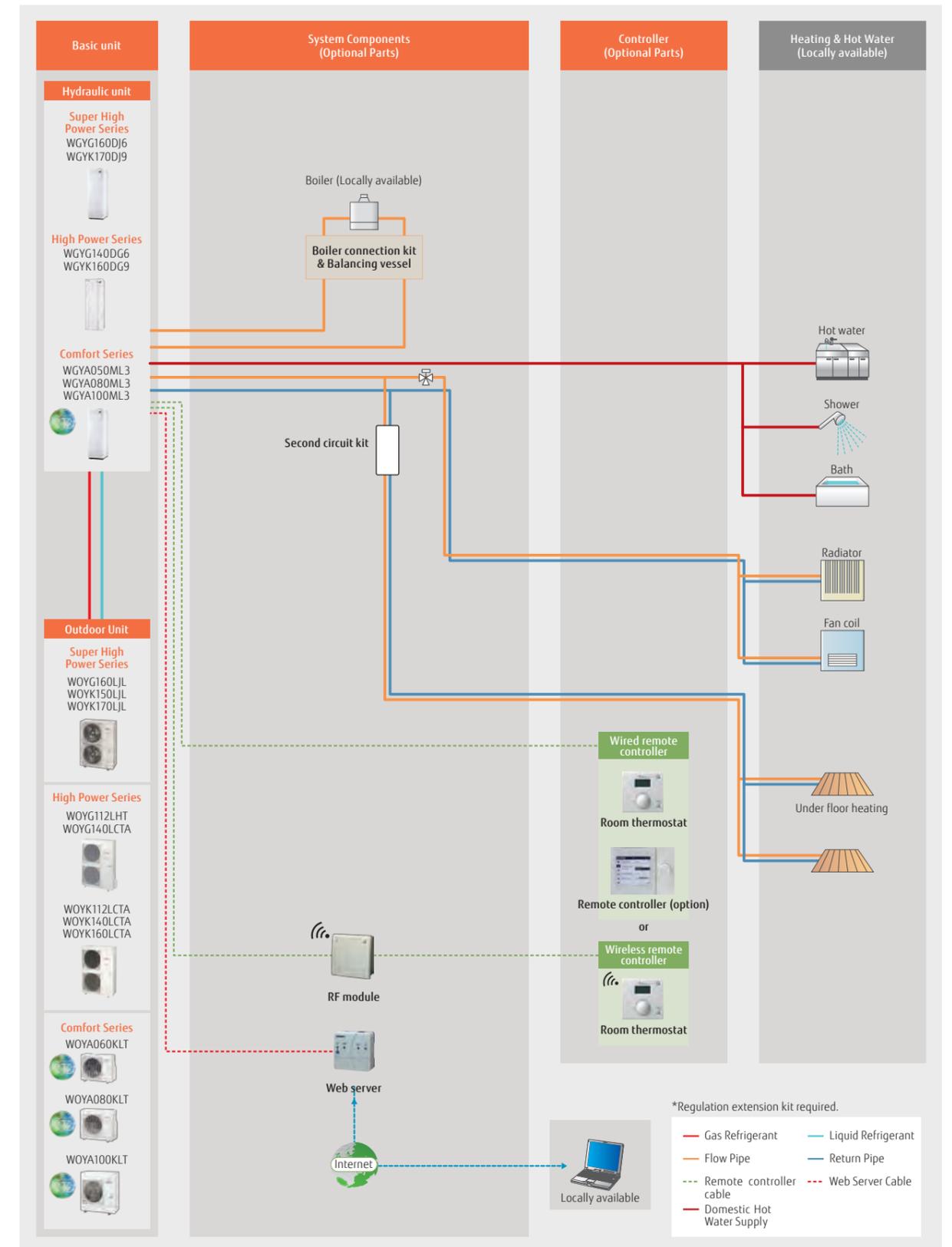


# System Configuration

## Split Type



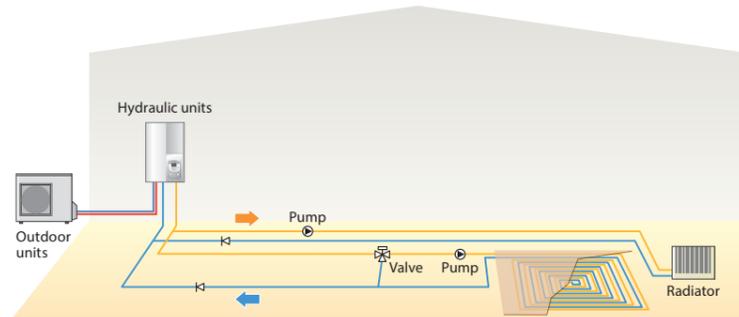
## Split DHW Integrated Type



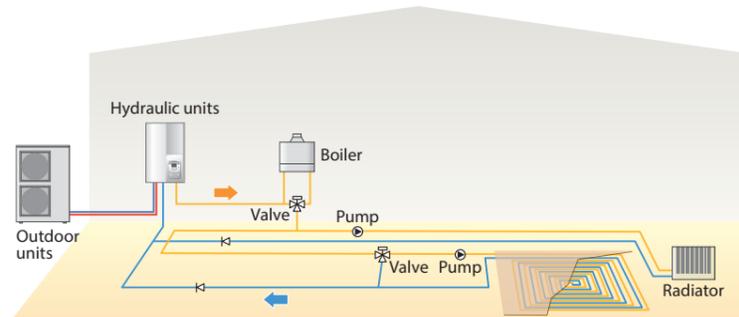
# Case Studies

## Split Type

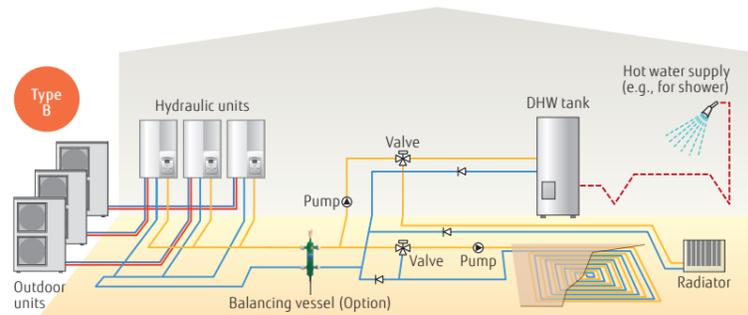
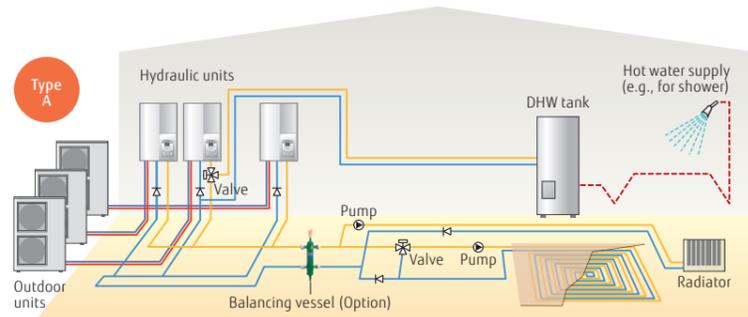
**2-emitter simultaneous heating (Individual control)**  
Underfloor heating + Radiator



**Boiler connected to heating (Boiler + Heating)**



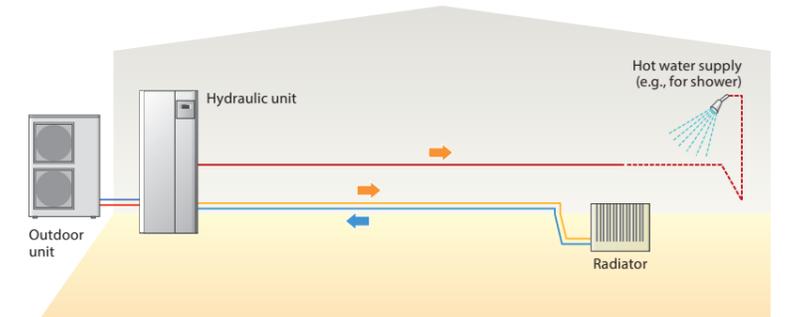
**2-emitter simultaneous heating & domestic hot water supply (Cascade)**



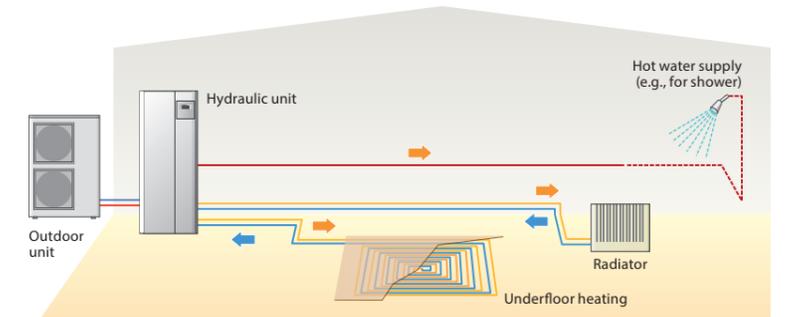
\*The hydraulic layouts shown are mainly representation. Please check with local dealer for actual hydraulic connections.

## Split DHW Integrated Type

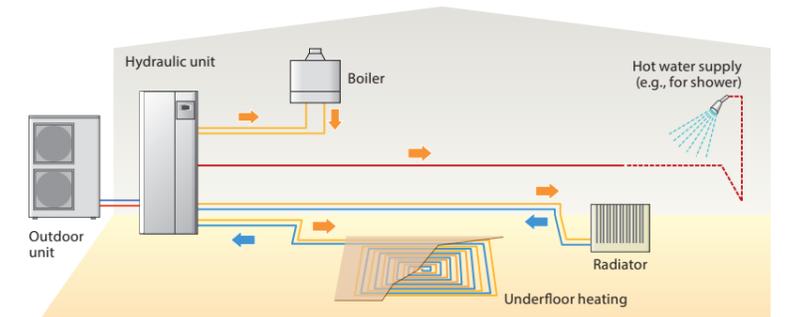
**Single heating & domestic hot water supply**  
Radiator + domestic hot water supply



**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**

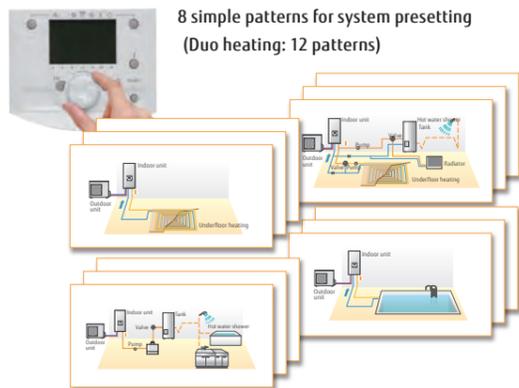


\*The hydraulic layouts shown are mainly representation. Please check with local dealer for actual hydraulic connections.

# Simple installation

## Presetting configurations

A controller installed makes it easy to configure the system without having to set each component or unit individually.

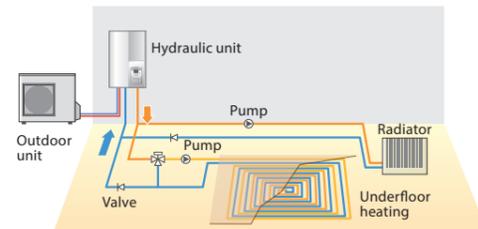


Configuration (Parameter 5700)	Installation type
Presetting 1	1 heating circuit
Presetting 2	2 heating circuits
Presetting 3	1 heating circuit with boiler backup
Presetting 4	2 heating circuits with boiler backup
Presetting 5	1/2 heating circuit with buffer control
Presetting 6	1/2 heating circuit with 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
- Pool heating and cooling option
- Cascade connection only available in High Power models.

## Outdoor temperature simulation

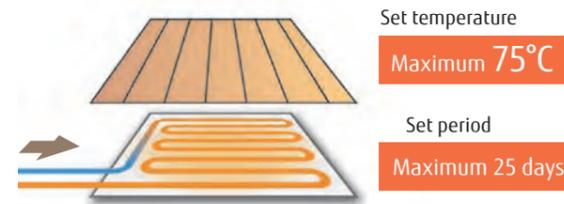
It verifies that each unit operates properly under the set conditions and expected outdoor air temperature when the system is actually assembled.



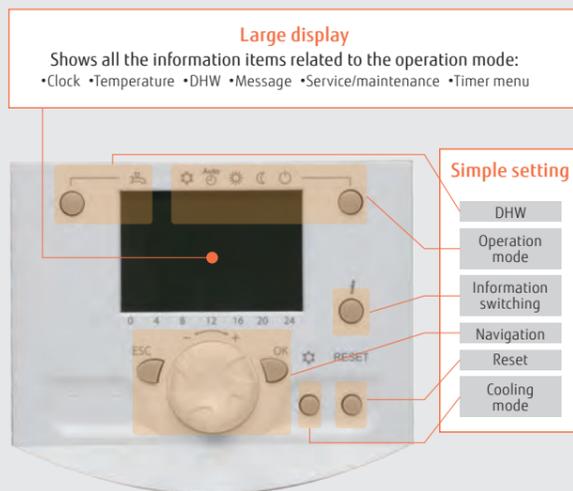
The outdoor temperatures can be simulated in the range of -50°C to +50°C.

## 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



### Main operation flow and settings for installers and end users

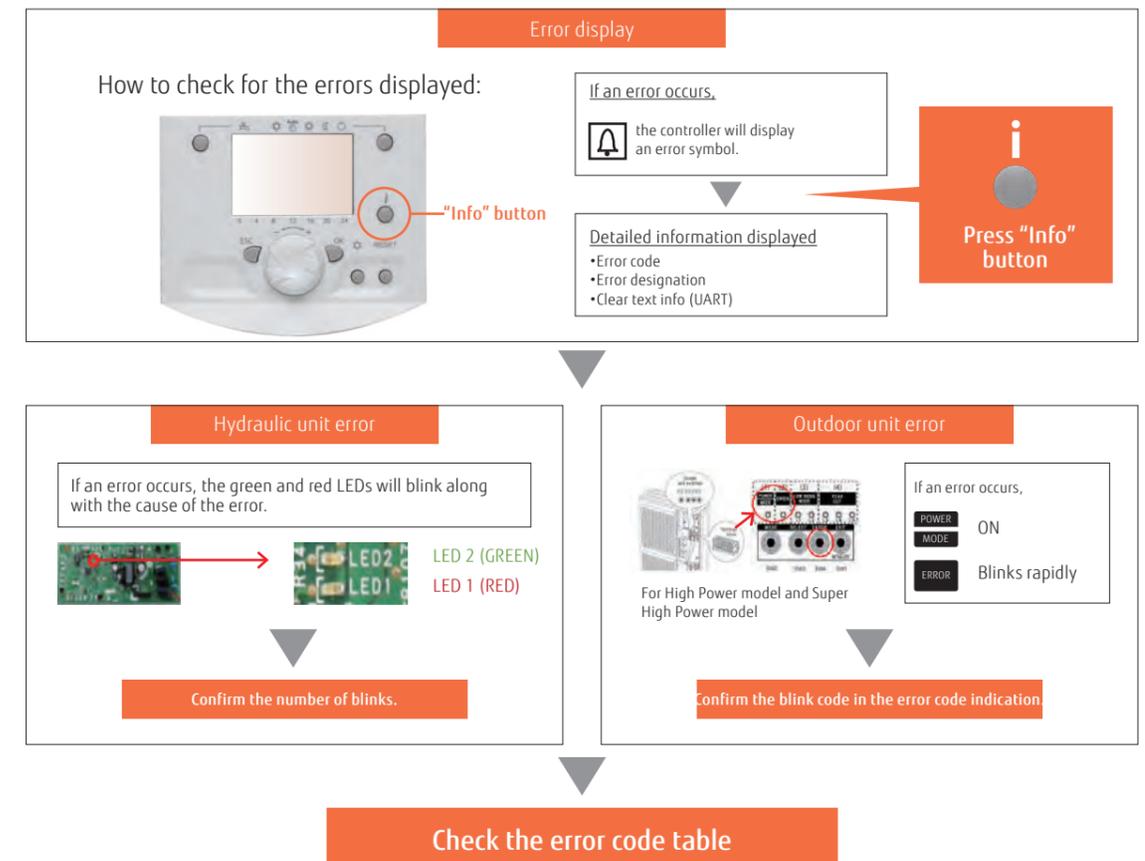
	Flow Chart	Example Item
Installers	1 Install Setting	Pump speed setting, Configuration, Heating curve setting, Heat pump shut off
	2 Option Setting	Cooling kit, DHW kit, Boiler kit, Swimming pool kit
	3 Convenient Function	Automatic heating curve setting, Underfloor controlled driving, Outdoor temperature 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

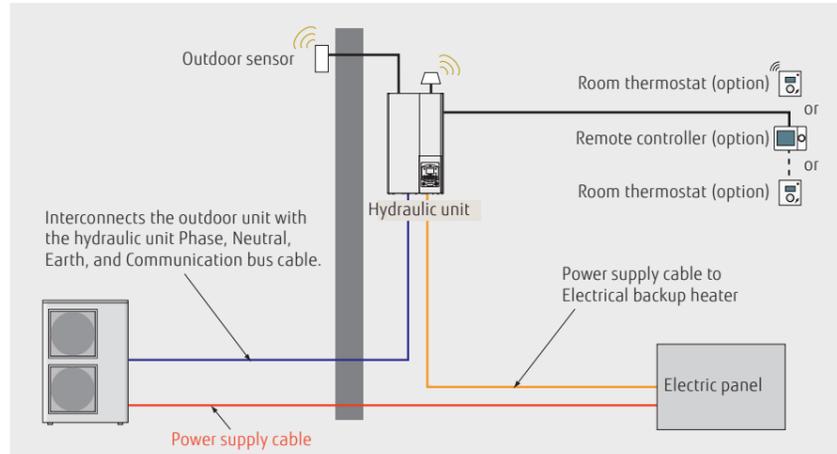
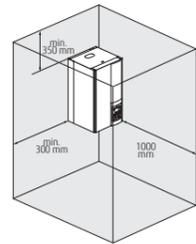


# Installation requirements

## Installation of equipment & electrical wiring

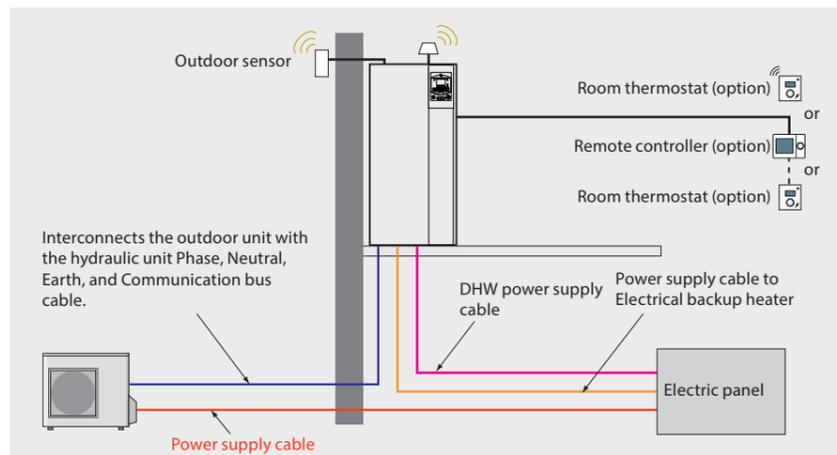
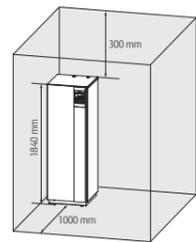
### Split type Hydraulic unit

- The Hydraulic unit is hung on the wall.
- Weight ≤ 88 kg (including water)
- Space for maintenance needs to be taken into consideration.



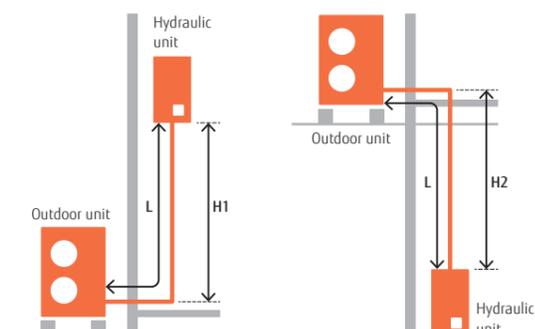
### Split DHW Integrated Type Hydraulic Unit

- Floor standing
- Weight ≤ 393 kg (including water)
- Space for maintenance needs to be taken into consideration.

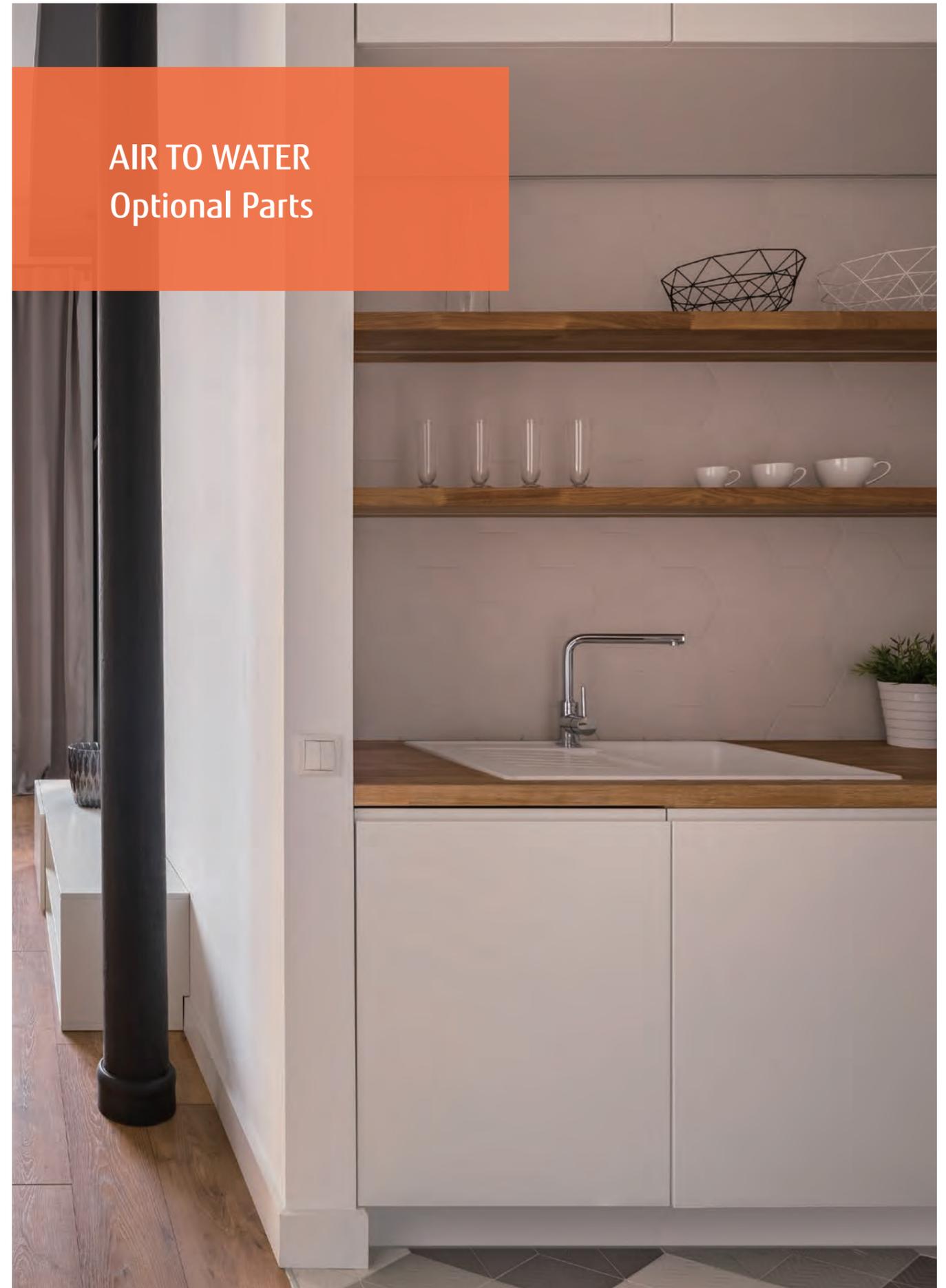


## Piping and Wiring split type

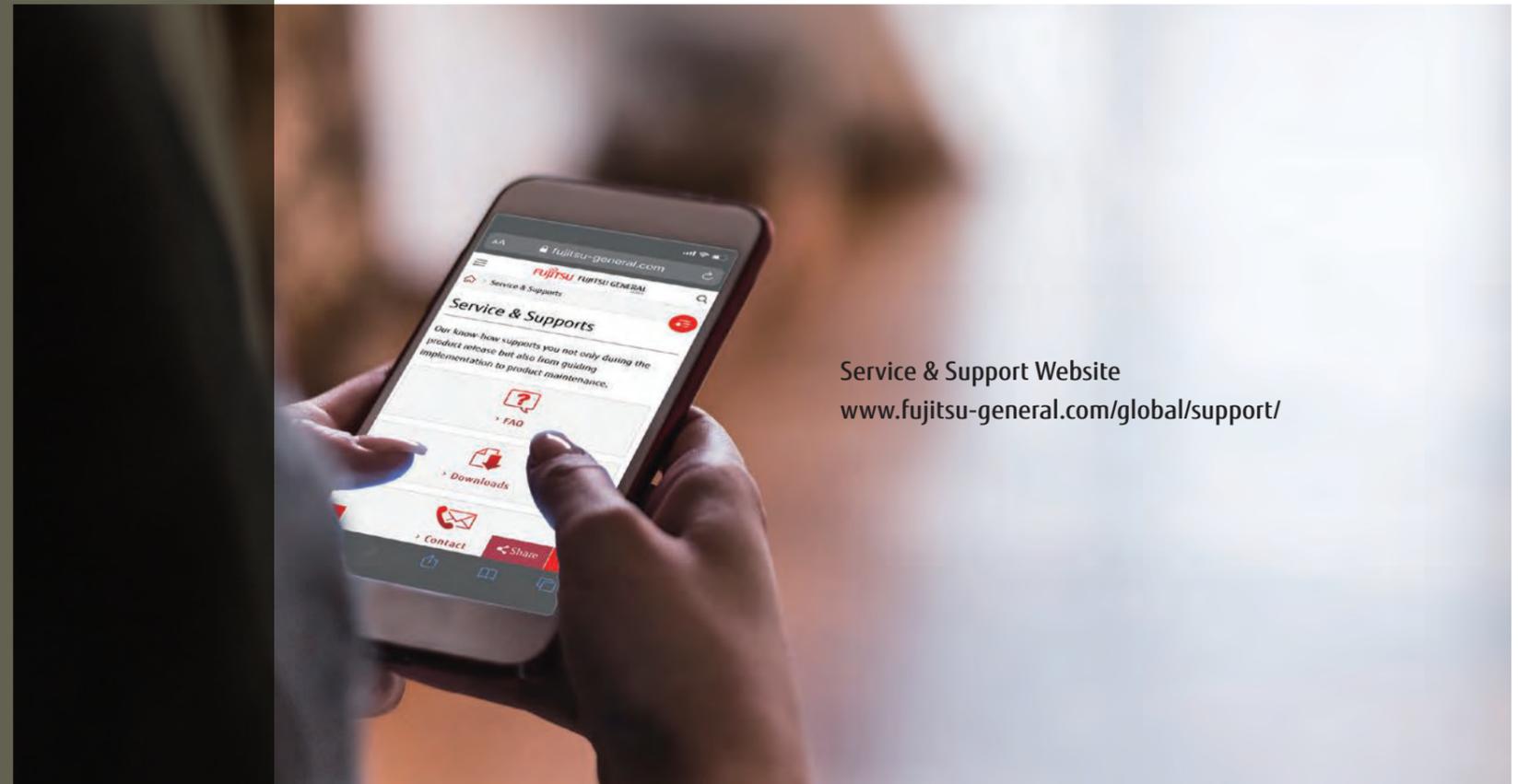
Series	Capacity range (kW)	Pipe diameter (Liquid/Gas) (mm)	H1 (m)	H2 (m)	L (m)
R32 Comfort	5	6.35/12.70	+20	-20	3-30
	6				
	8				
	10				
High Power	11	9.52/15.88	+15	-15	5-20
	14				
	16				
Super High Power	15	9.52/15.88	+15	-25	5-30
	16				
	17				



## AIR TO WATER Optional Parts







Service & Support Website  
[www.fujitsu-general.com/global/support/](http://www.fujitsu-general.com/global/support/)

# 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

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.



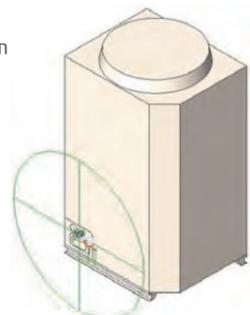
## Training facilities

### 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



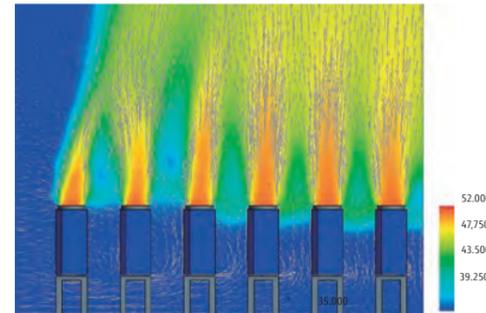
[www.fujitsu-general.com/uk/support/downloads/vrff](http://www.fujitsu-general.com/uk/support/downloads/vrff)

### 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



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 AIRSTAGE™ systems
- On-site training for control systems

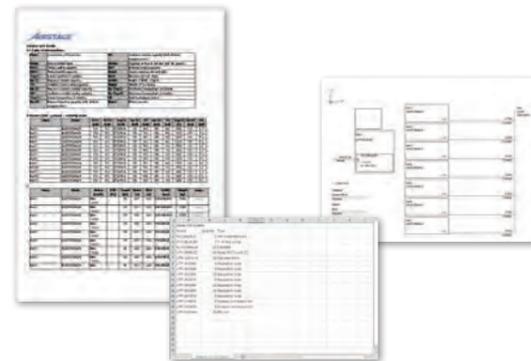
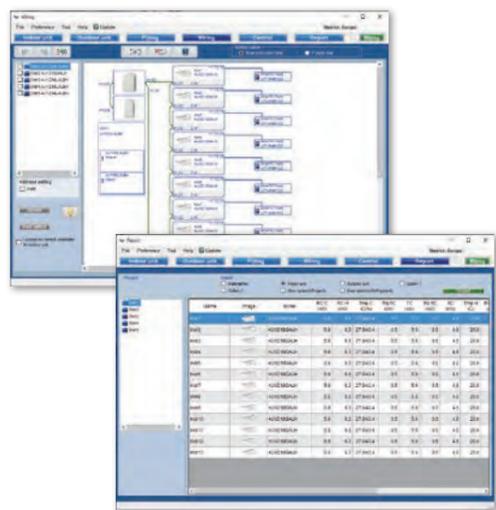
- 1 Head office training center in Japan
- 2 Training center in China
- 3 Asia training center in Singapore
- 4 Europe training center in the United Kingdom
- 5 Europe training center in Germany
- 6 America training center in the United States
- 7 Middle East training center in the UAE
- 8 Oceania training 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



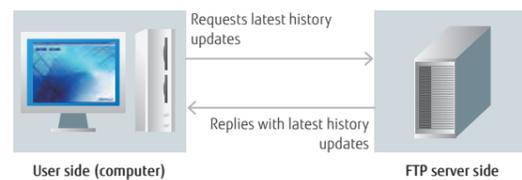
### Outputs in the format that matches the application

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.



**R RFA (Revit data)**  
A data format available for BIM-designed projects

**A DWG**  
a standard data format used for Autodesk products

#### Data content

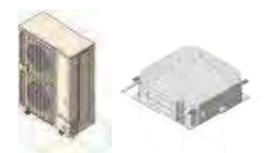
- Shape (Size)
- Drain direction
- Pipe direction
- Power supply location
- It contains information about the above specifications.



#### DXF

Intermediate data commonly available in CAD products

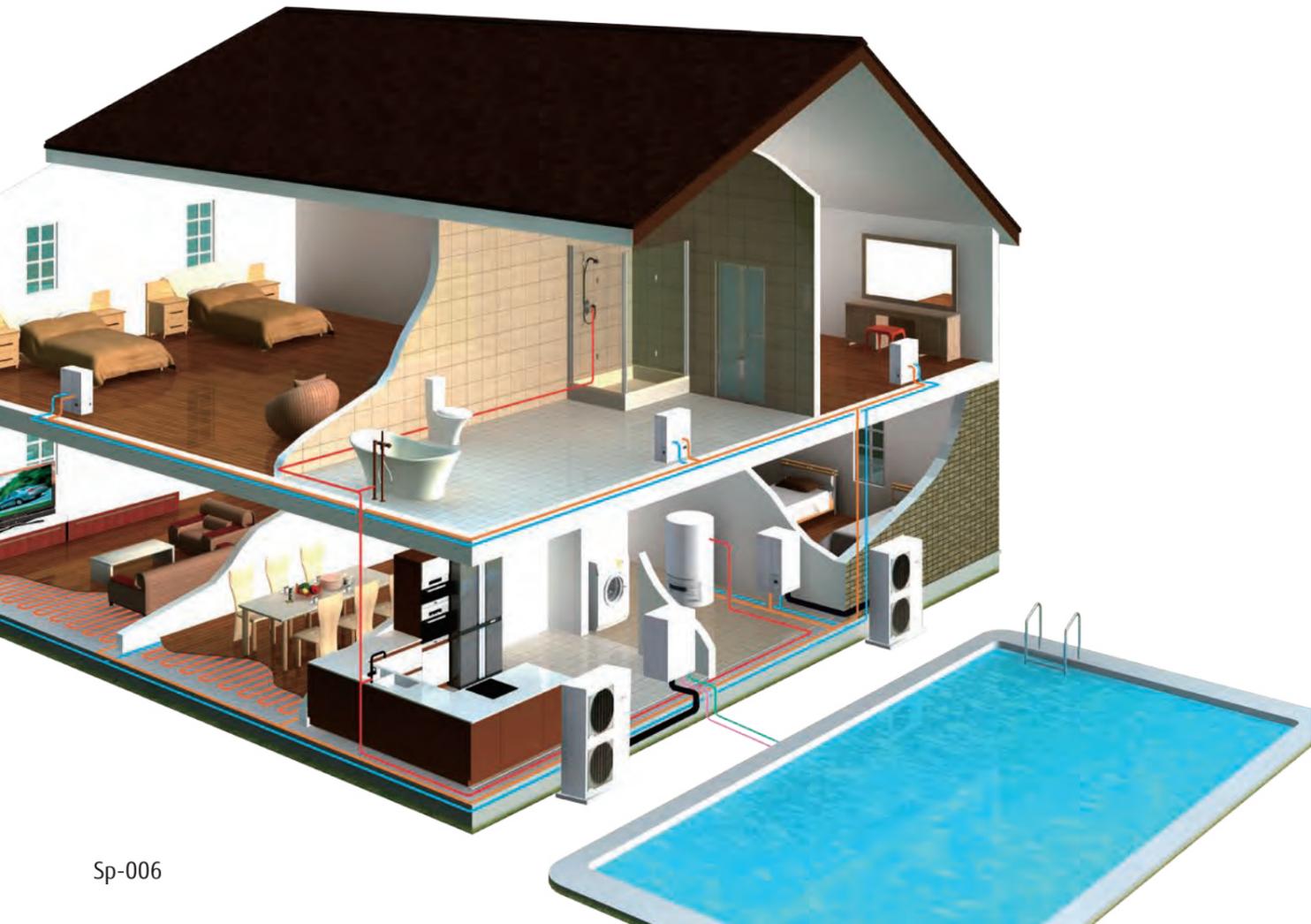
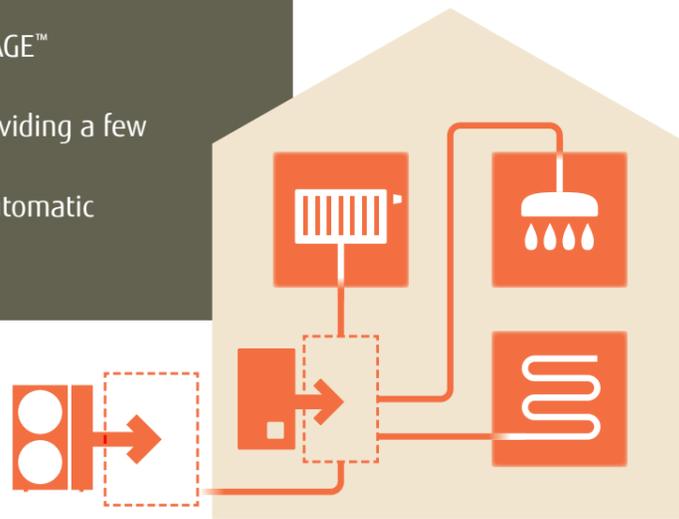
- Shape (Size)



\*To learn more about how to use BIM files, refer to the instructional video on each product page. [youtu.be/wfL-hwFQ7dM](https://youtu.be/wfL-hwFQ7dM)

# WATERSTAGE™ Support tool

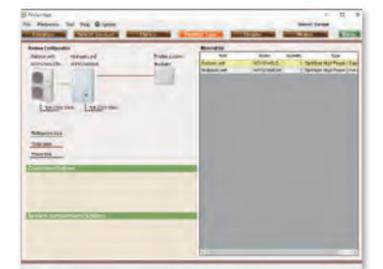
Fujitsu General's software for WATERSTAGE™ automatically creates a combination of WATERSTAGE™ equipment by simply providing a few parameters. Supports multiple languages with an automatic update function.



## 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.

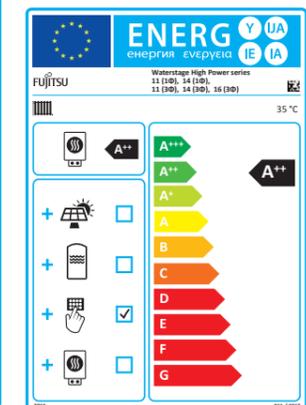
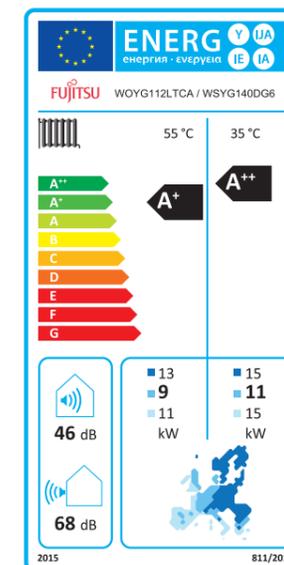
The selected unit can be modified after reviewing the overall system configuration. The images and the list of devices are displayed at the same time, helping to avoid mistakes in device selection.

## 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.

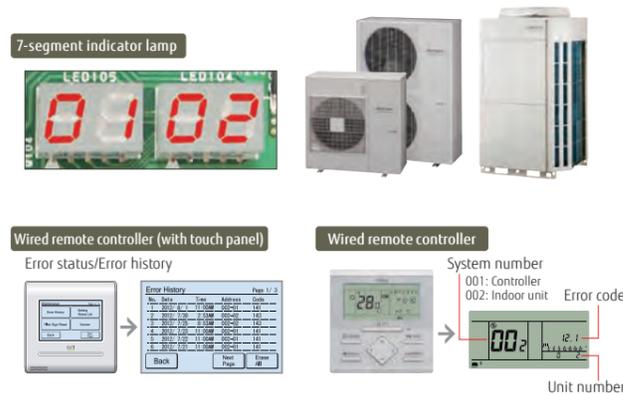


## Easy maintenance & monitoring

### 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.

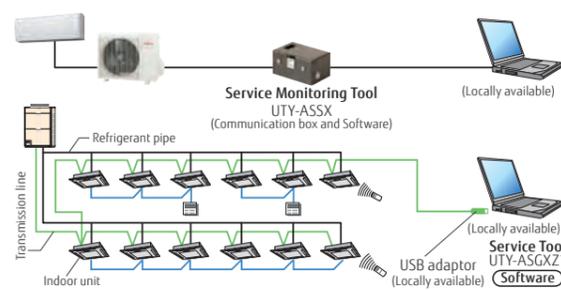
- Display the operation mode at the time.
- Discharge temperature and pressure
- Compressor operation status
- "Address/Type/Number" of the outdoor unit
- Error code



### Error diagnosis by Service tool

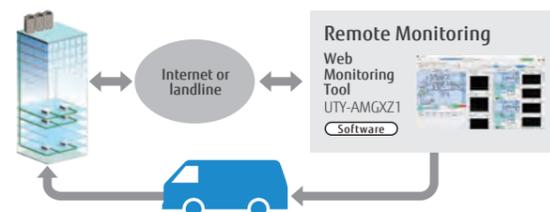
Connect Service tool to check the status details of units, from single split to VRF, on a computer screen. Check the errors quickly for prompt countermeasures.

- 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, "FGLair", and R32 calculation of allowable refrigerant capacity)

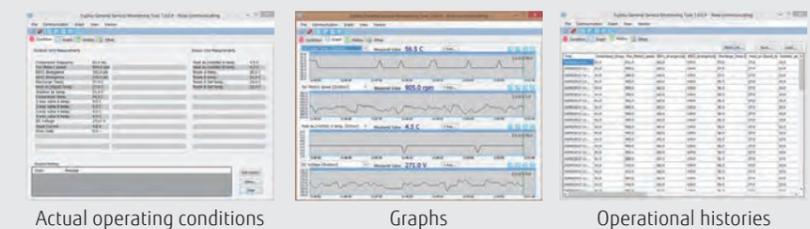
Use Error Code Check, Troubleshooting, and Sensor Check to understand the status of your air conditioner.



## 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



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

# Service tool

## Extensive monitoring and analysis functions that make installation and maintenance easier

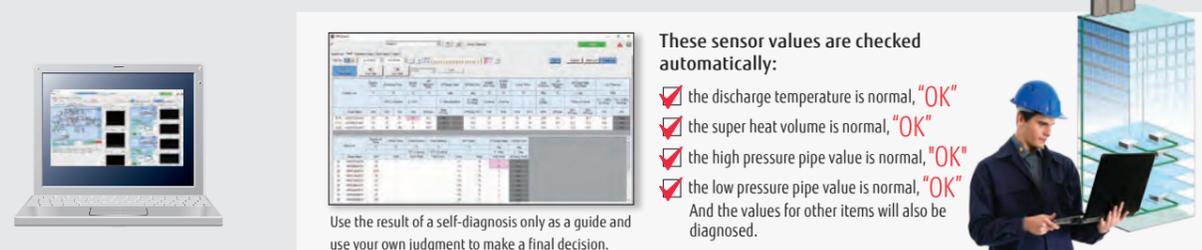
- The operation status of the system can be monitored and analyzed to detect any malfunctions.
- Data on the operation status of the system can be stored on a computer to allow for remote access.
- Up to 400 indoor units in a single VRF network system can be controlled and monitored for a large building or hotel.
- This software can be connected to any point of transmission line with a USB adaptor (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.

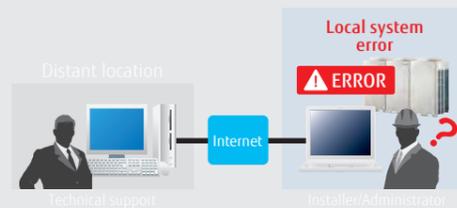
**These sensor values are checked automatically:**

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

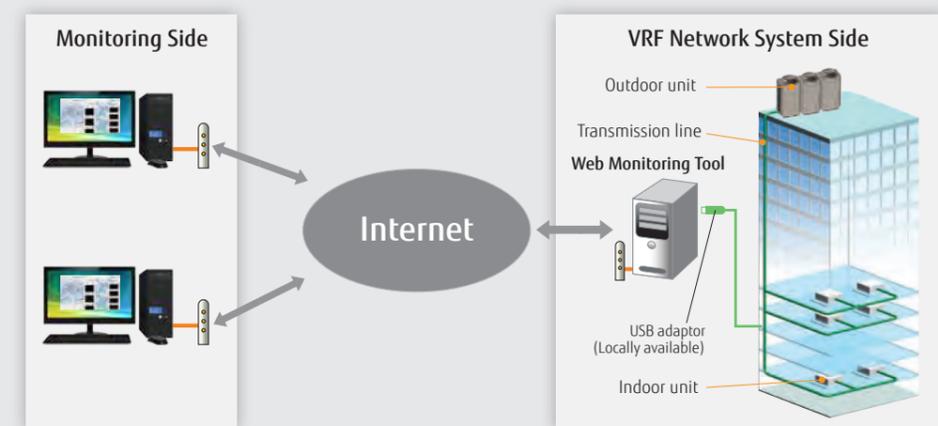
# Web monitoring tool

## 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.

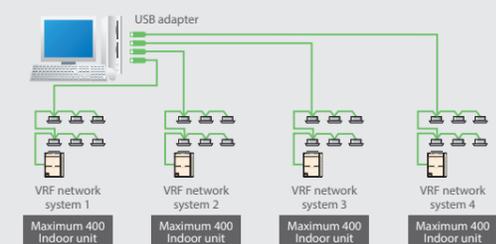
## Web Monitoring System



## Supporting up to 4 VRF network systems

Up to 4 USB adaptors 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	• Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	• 1 GB or more (for Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Screen resolution	1366 × 768 pixels or higher
Interface	• USB ports (one for U10 USB Network interface and up to 4 ports for software protection keys) • Interface for remote connection: - 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)