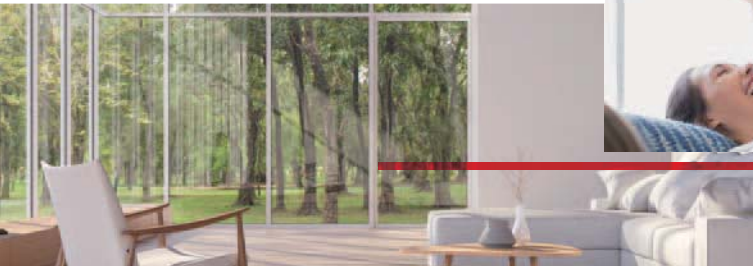


PRODUCT CATALOGUE 2019

AIR CONDITIONERS LINEUP



OUR MESSAGE

SOLUTIONS

SPLIT

MULTI SPLIT

VRF

VENTILATION

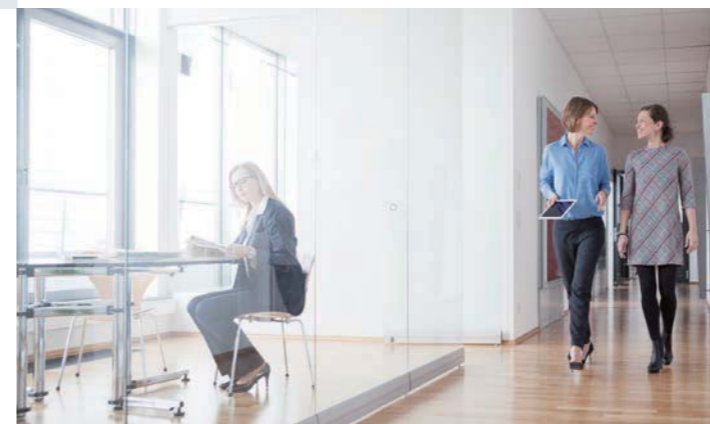
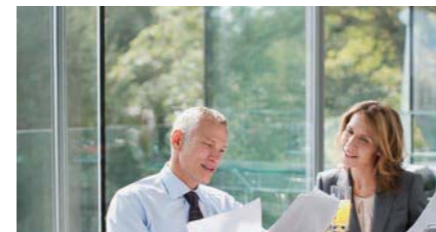
CONTROL SYSTEM & OPTIONAL PARTS

AIR TO WATER

SUPPORT



OUR SOLUTION for ALL LIFE SCENES



Fujitsu General provides comfortable and economical air conditioning systems that fit architectural trends and environmental awareness in Europe

– from business scene to lifestyle scene.

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Innovation & Globalization

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- 010 Design for Control
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PRODUCT LINEUP

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OUR MESSAGE

Innovation & Globalization

Providing a Brand New Tomorrow to Everyone on Earth



Design for Future



Design for Comfort



Design for Control



History



World Wide Locations



Global Business Activities



Project Reference



Global Development & Production Bases



High Quality Development & Production Facilities





Design for Future

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

Our Pioneering Efforts Make Green Future

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

20% Less Primary Energy Use

Fujitsu General products with high efficiency and therefore low electricity

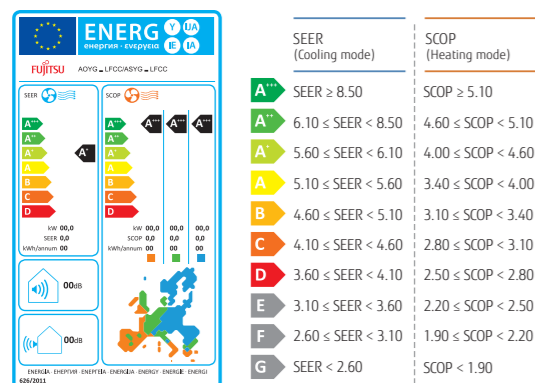
20% Less CO₂ Emissions

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

20% Share of Renewable Energy

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

New Energy Labelling Requirement 626/2011/EU
Our Air Conditioners have reached the "Class A" ranking, the highest energy efficiency level that is now shown on energy labels in Europe.



EU strengthen F-gas Regulation introduced 2014.

New EU F-gas Regulation aims prevention of emissions and reduction the use of higher GWP F-gases.

Key elements

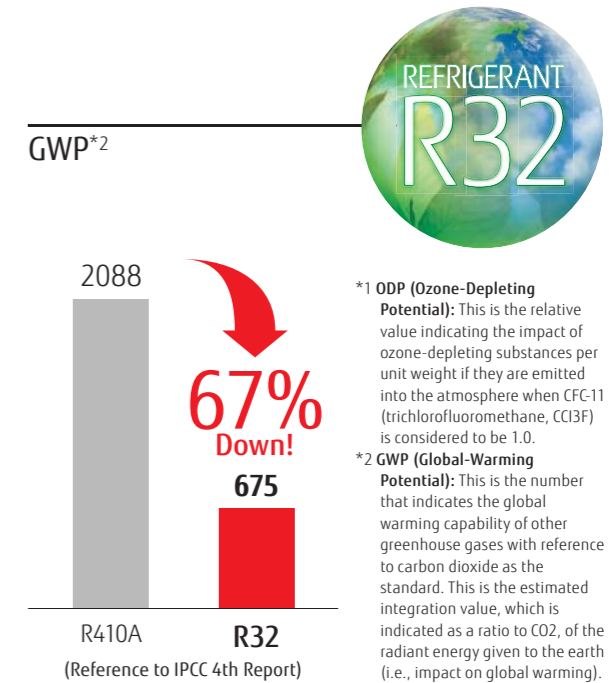
- Phase down approach
- Quota allocation
- Restrictions on the placing on the market
- Traceability of HFC contained in pre-charged equipment

Fujitsu General work on the reduction of HFC with innovative efforts

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

Key points

- The ozone-depleting potential (ODP^{*1}) is 0!
- Environmental properties
- Performance
- Economic efficiency



Less is more

Space, Noise, Refrigerant

Less Space

Installation Space

Depth 765 mm
↓
480 mm
-45%

Weight

-58 kg

AIRSTAGE J-III L
14/16 HP models & New 18 HP model

Current model AIRSTAGE™ V-Series outdoor unit 14/16/18 HP models: 765 mm depth

New model: 480 mm depth

Less Refrigerant

System Refrigerant Volume

20.5 kg
↓
16.8 kg
-18%

Design with small refrigerant

Significantly reduce the system refrigerant volume by new small indoor unit, piping design and optimized heat exchanger volume design. The minimized refrigerant volume may allow the application to prevent the installation of a refrigerant leak detector required under EN 378.

Less Noise

Sound Power Level (BHP model)

77 dB(A)
↓
66 dB(A)
-11dB

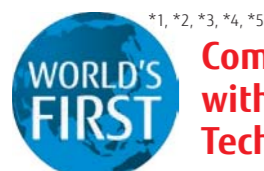
Top Class Low Operating Sound

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



Design for Comfort

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



Comfort by Design with Advanced Technology

The Dual Side Fans equipped to our flagship "nocria X" model optimally control the airflow. Their distinctive form delivers comfortable airflow to the corners of room. The Power Diffuser opens the lower flap of the main unit to blow warm air downward. This heats up rooms from the floor to increase heating efficiency. Lambda Heat Exchanger improves the operating efficiency and expands the possibilities of design, such as compactness of indoor units. Moreover, we have developed the automatic cleaning of filters for the first time to ensure maintenance and operating efficiency. The airflow control system of nocria X is also applied to cassette type. 3 airflows create comfortable space. Fujitsu General is developing unique technologies to provide pleasant spaces.

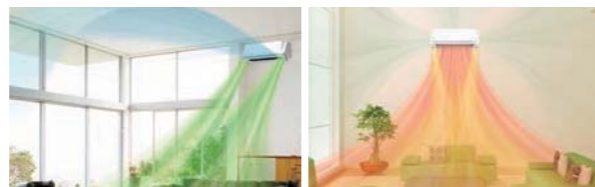


*1: Announced 2012. In room air conditioner for the home (our company's investigation)
 *2: Announced 1994. In room air conditioner for the home (our company's investigation)
 *3: Announced 2012. In room air conditioner for the home (our company's investigation)
 *4: Announced 1991. In room air conditioner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

Comfortable Airflow



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



Design

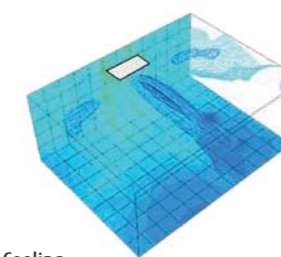


New 3D Flow Cassette

- Achieves a comfortable living space throughout the entire room using 3 airflows.*5
- The unit was designed to overcome a variety of installation limitations, which can occur at installation site.
- New air discharge design provides high intact and smooth discharge with reduced loss and top-class high energy saving performance.

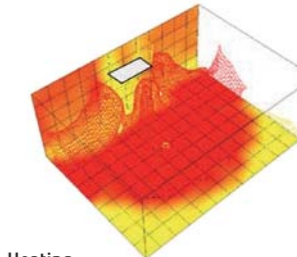


Temperature distribution during cooling and heating (when set to comfortable airflow)



Cooling
 Cool airflow spreads out throughout the room so that there is a comfortable coolness anywhere in the room

*When cooling operation is stable with an outside air temperature of 35°C, a set temperature of 18°C and an air volume set to "Hi" in a 40 m² environmental test room for the AUXS018GLEH



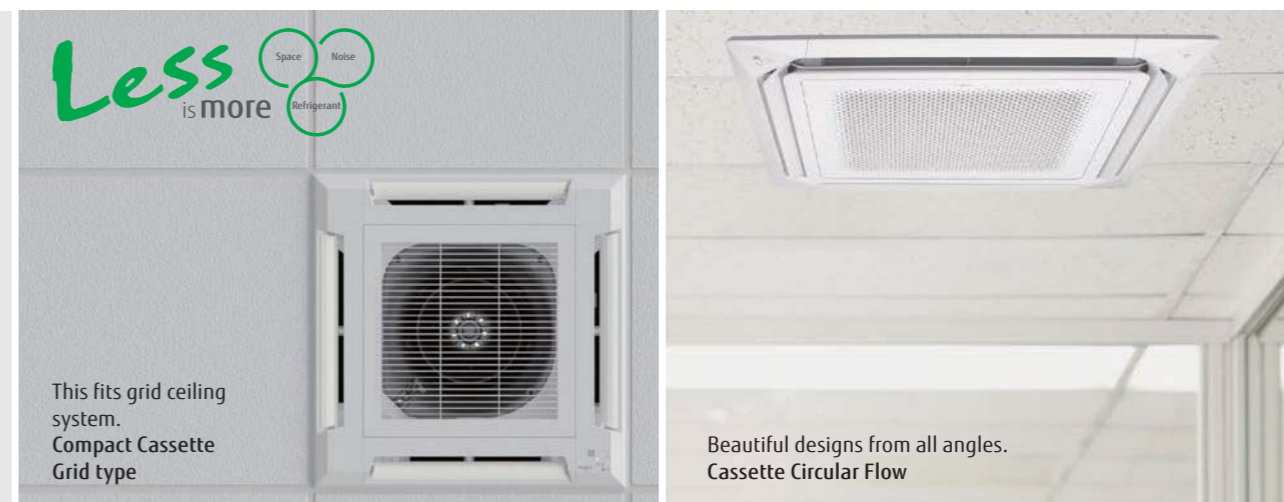
Heating
 The spread of warm airflow near the floor*6 is approximately 80% of the room – this is approximately three times that of conventional duct type air conditioners*7 (Refer to the figure below)

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

*6: When heating operation is stable with an outside air temperature of 7°C, a set temperature of 30°C and an air volume set to "Hi" in a 40 m² environmental test room for the AUXS018GLEH, the temperature distribution 10 cm above the floor was measured and the areas at 28°C or more were compared.
 *7: Fujitsu General ARXK24GCLH duct type air conditioner

Beautiful Space Design

Design Award winning products
 Wall Mounted



OUR MESSAGE



Design for Control

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

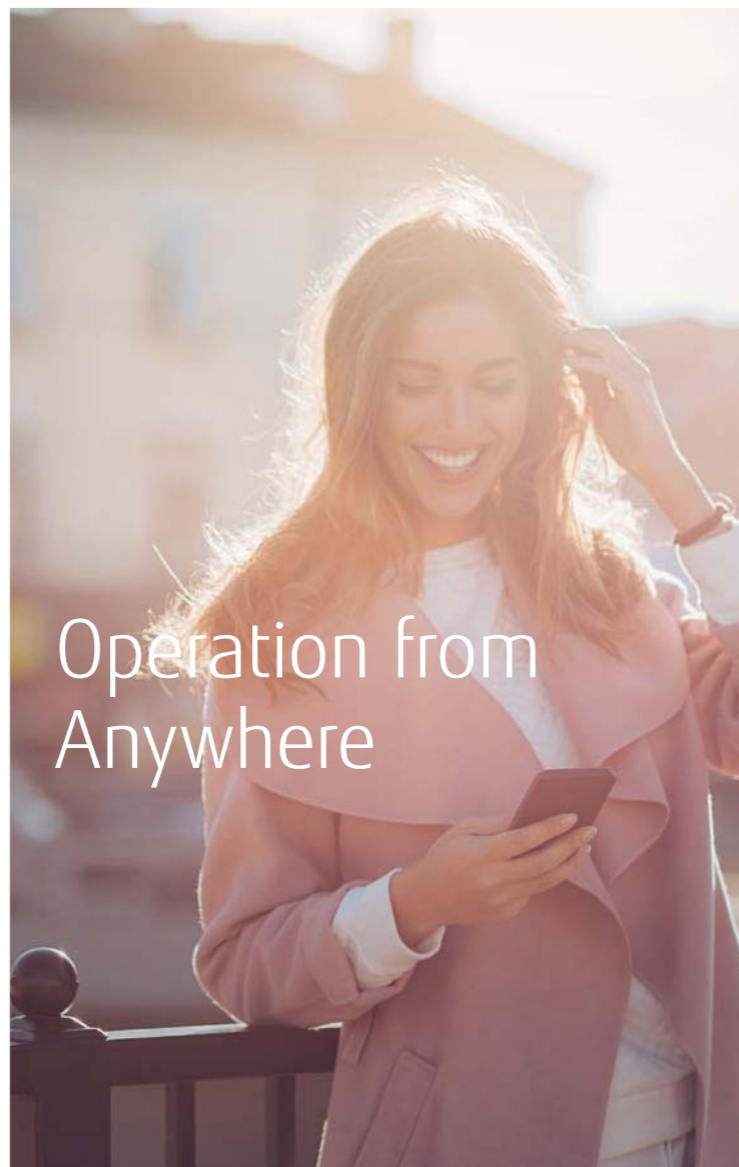
User Friendly Interface

User friendly screen display facilitates easy operation.

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

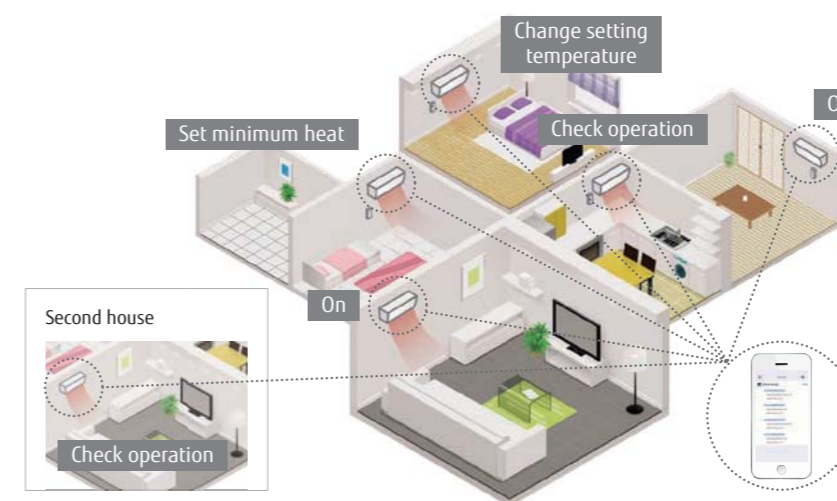
Get **FGLair™**
Download Free

Download on the **App Store** | **Google play**



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

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



Wireless LAN Interface

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

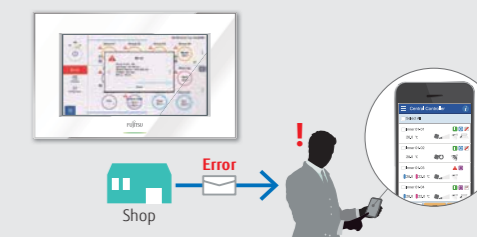


New Central Remote Controller for VRF

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

Remote monitoring/ Remote operation

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



OUR MESSAGE



History

1936 Established as Yaou Shouten Ltd.

Overseas Air Conditioning Business since 1971

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

1971: Air conditioner exports to Middle East.
1977: "Super Power, Super Quiet" series
1982: Window type 3 Super series

AL/AX series



1985: Large wall mounted and multi air conditioner introduced.

For Residential

WORLD'S FIRST *1,*2
1991: Air conditioner with the world's first lambda heat exchanger
1994: Air conditioner with the world's first power diffuser

For Commercial

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



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



For Light Commercial

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

2006
VRF Heat Pump type Max. 42 HP AIRSTAGE™ V series is released.
2009: Heat Pump Modular type Max. 48 HP AIRSTAGE™ V-II series is released.

2009
Air to Water system is released.



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

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



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

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

2014-15
Heat pump modular type AIRSTAGE™ V-III max. 54 HP ideal for large properties is released



2011
Hi-spec Design model is released.



2017
Flagship Wall Mounted models



2019 New Topic

2017-19
New small VRF AIRSTAGE™ J-III L suitable for diverse light commercial properties is released.

AIRSTAGE™ J-III L
8-16 HP models & New 18 HP model



2019
New cassette style release.



2018-19
Environment-friendly new refrigerant R32 models are added.



2019
Air to Water system High capacity models that increase heating efficiency are added to our lineup.

WATERSTAGE™
15/16/17 kW models



2019
Construction of new building to strengthen development capabilities at Kawasaki head office: Base to create new value by combining internal and external knowledge



1950 ~

1970 ~

2000 ~

2010 ~

Manufacturing Company Establishment

1955: Headquarters in Kawasaki
1964: Electronic components factory in Ichinoseki



1977: Air conditioner manufacturing company in Hamamatsu (now Hamamatsu business office.)
1991: Air conditioner manufacturing company in Thailand.
1994: Air conditioner manufacturing company in Shanghai, China.
1998: Air conditioner motor manufacturing company in Thailand.

2006: VRF air conditioner manufacturer, sale, and service company in China.
2007: Air conditioner technology building completed on Main Office group. Air conditioner R&D Center in Kawasaki
2009: Operation of compressor factory begins in Thailand.

2012: Joint venture in Thailand to manufacture compressors
2016: Commercial use air conditioner R&D Center in Thailand



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

Sales & Service Maintenance Company Establishment

1976: North America sales company
1977: Europe sales company (UK)
1978: Australia sales company / Europe sales company (Germany)
1980: Brazil sales company
1997: Asia sales company (Singapore)
1998: Middle East sales company (UAE) / New Zealand sales company

2000: Air conditioner manufacturing and sale technical partnership in India
2002: Taiwan sales company
2006: China sales company

2016: THE AIRSTAGE on Broadway in New York





World Wide Locations

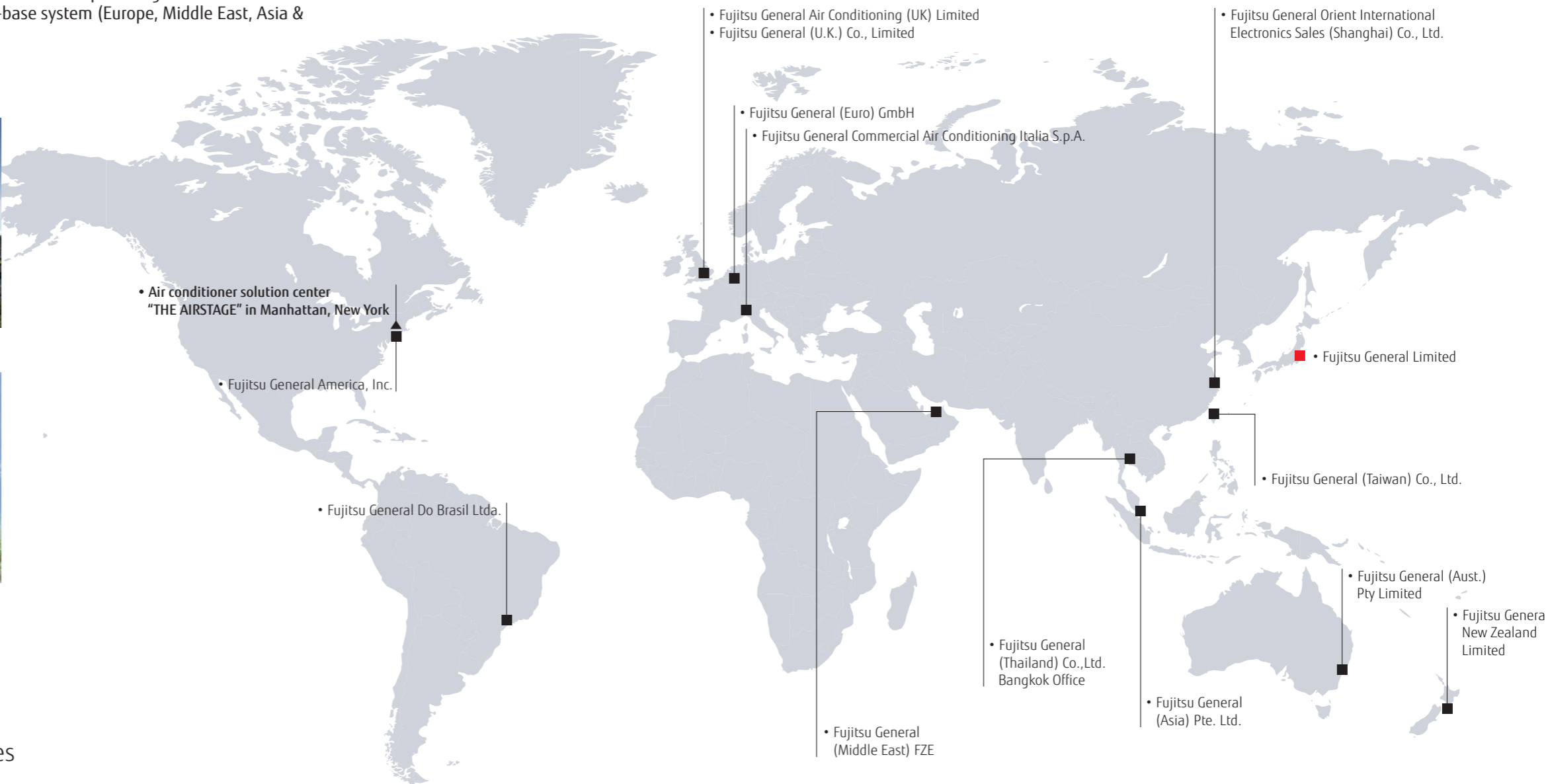
Promoting Globalization from a global perspective while emphasizing the actual local situation in the field under the aim of advancing our five-base system (Europe, Middle East, Asia & Oceania, Americas, and Japan)



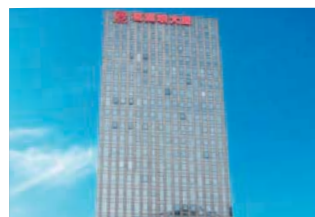
JAPAN Head Office



New Technology Research Building (Japan)



14 Overseas Sales Companies



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



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



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



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



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



Fujitsu General New Zealand Ltd. (New Zealand)



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



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



Fujitsu General (EURO) GmbH (Germany)



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



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



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



Fujitsu General Do Brasil Ltda. (Brasil)

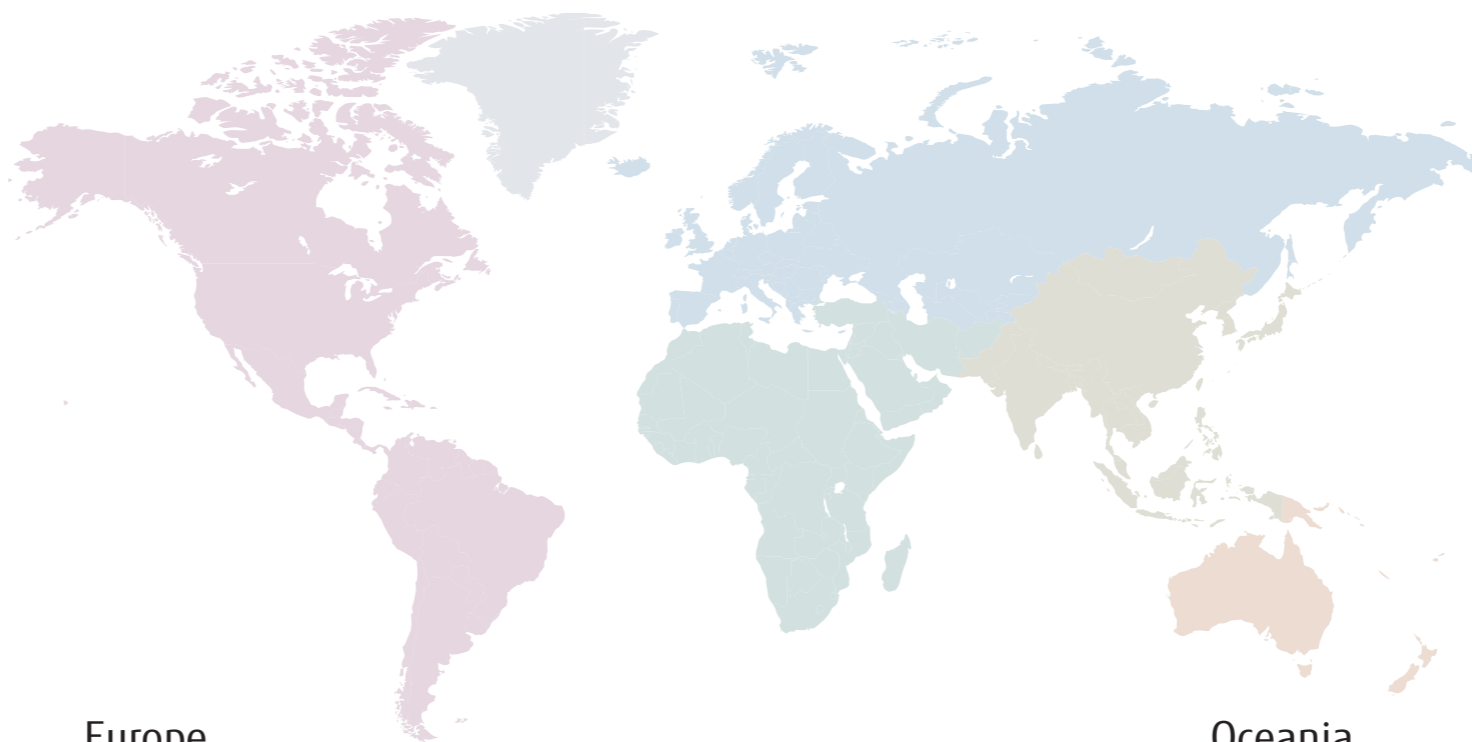


Fujitsu General America, Inc. (U.S.A.)



Global Business Activities

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



North/South America



AHR Expo



HVAC trade show in Brasil



Distributor meeting



Call center

Middle East



Exhibition



Exhibition



Technical seminar

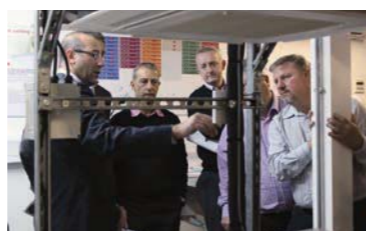


Training for dealers

Europe



HVAC trade show in Europe countries



Presentation & training



ACR Show



HVAC trade show in Europe countries

Oceania



HVAC trade show in Australia



Charity (Christchurch)



Service & Maintenance

Asia



New Product Presentation Meeting



VRF training



SE training



Call center

International authoritative design awards



"Dealer Design Awards" of "the NEWS"



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



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



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



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



reddot design award winner 2012

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



Coolworld Industry Awards "Most Efficient Air Conditioner"



Canstar Blue Most Satisfied Customers Award



China State Construction Engineering Luban Prize



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



Project Reference

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

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



1



9



10



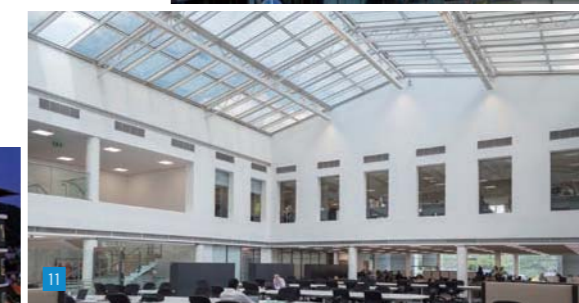
2



3



12



11

For Commercial

- 9 Office in Europe
- 10 Office in Europe
- 11 Office in Europe
- 12 Hotel in Asia



4



5



7



8

For Light Commercial

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



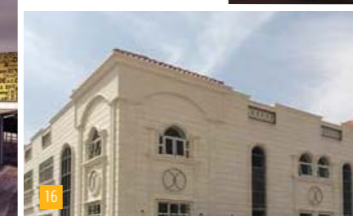
13



14



15



16

For Residential

- 13 Residential in Europe
- 14 Residential in Europe
- 15 Residential in Oceania
- 16 Residential in Middle East



Global Development & Production Bases

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

- Head Office
- R&D Center
- Manufacturing Companies



Overseas Manufacturing Companies



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



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



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



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



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



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



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

R&D Center & New Technology Research Building



R&D Center in Fujitsu General (Shanghai)



R&D Center in Fujitsu General Engineering (Thailand)



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



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



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

New Technology Research Building in Japan Head Office



OUR MESSAGE



High Quality Development & Production Facilities

Advanced Research Facility and Equipment

Performance Testing



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



Calorimeter
Measure the cooling/heating capacity by measuring the inlet and outlet temperatures, humidity, and air volume of the air conditioner.



Silent Room
Measure the operating sounds of air conditioners with the sound reflection-proof walls and ceiling.

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

Reliability Testing



Constant Temperature Room
Check on the product performance in cooling/heating operation under the various temperature and humidity conditions.



Practical Test Room
Check on whether the air conditioners performance under the actual house conditions is sustainable.



Shower Test Room
Check on whether the electrical box of the outdoor unit is protected by rain waters with Typhoon like wind.

Transportation & Handling



Compressibility testing



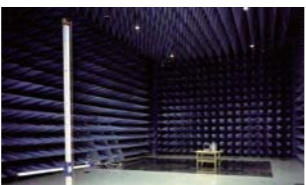
Vibration testing



New Technology Research Building
in Japan Head Office

Testing Laboratory

Fujitsu General EMC Laboratory Limited



60 m Height Difference Testing Tower

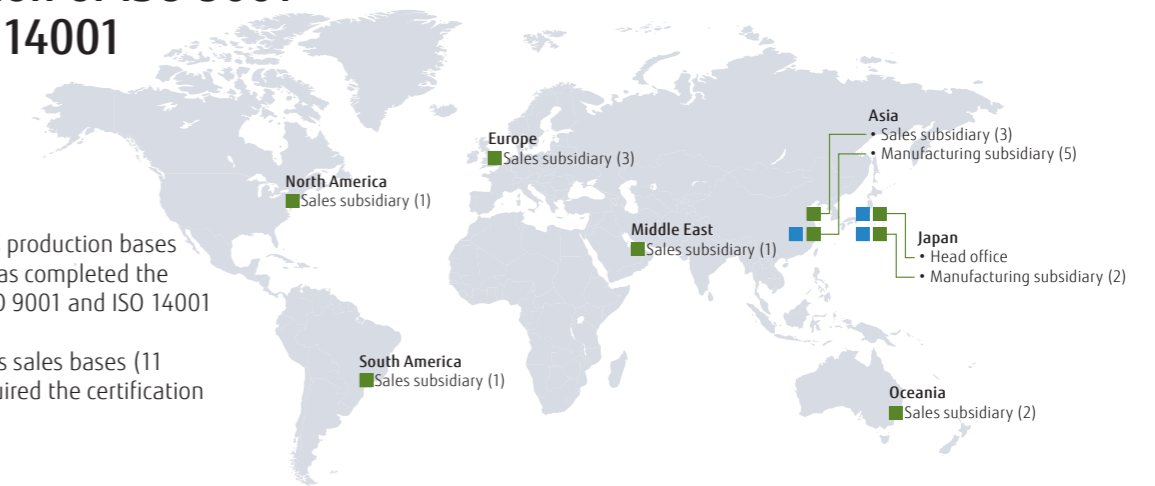
Objective is to confirm oil circulation of compressor for reliability



Acquisition of ISO 9001 and ISO 14001

■ ISO 9001
■ ISO 14001
() Number of companies

Each of overseas production bases (5 companies) has completed the acquisition of ISO 9001 and ISO 14001 individually. In 2012, overseas sales bases (11 companies) acquired the certification of ISO 14001.



High Product Quality Assurance

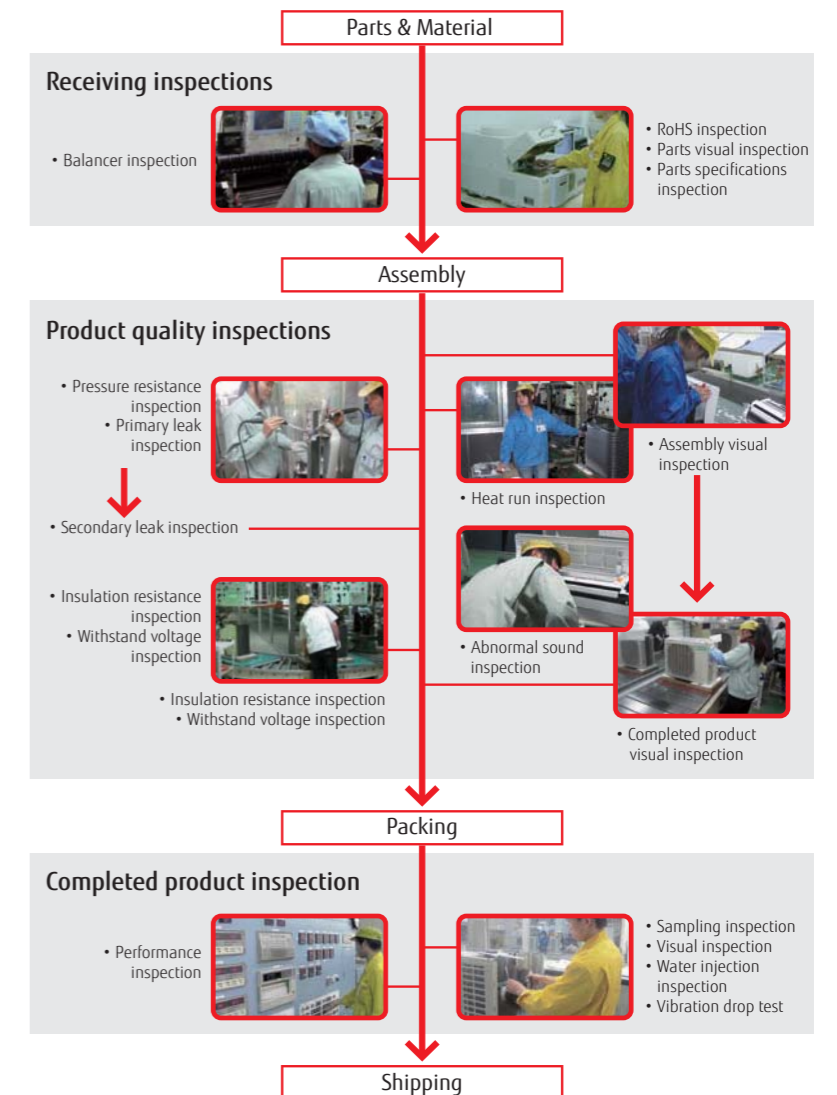
All Fujitsu General factories have acquired ISO 9001, and have built a quality control system common around the world. High quality products are offered to all over the world based on stringent quality inspections.

Receiving inspection

Parts procurement requires a supplier's test report. European regulation RoHS inspection is also performed by special test department in-house. Total number inspection is performed especially on main parts to remove defectives.

Stringent product quality inspection

Stringent quality inspection is carried out at all production processes. High quality is maintained by stringent checks by inspectors and repetitive inspection.



2019 **New** Products



Wall Mounted

Exquisite Design Range series
High Efficiency & Comfort

Future Release

- 7/9/12 class 3 models, 2 colors
- New compact design chassis
- High energy efficiency
- New type Wireless LAN adaptor (option)
- R32 refrigerant & low refrigerant volume



KE
Series

Wall Mounted

Standard Range series
High Efficiency & Large Room

Page 062

- 18/24 class 2 models
- High energy efficiency
- Family look design
- New type Wireless LAN adaptor (option)
- R32 refrigerant & low refrigerant volume



KM
Series

Wall Mounted

ECO Range series
Compact & Comfort

Page 064

- 7/9/12 class 3 models
- New compact design chassis & high energy saving
- New type Wireless LAN adaptor (option)
- R32 refrigerant & low refrigerant volume



KP
Series

Cassette

Compact 4-way Flow series
Compact & Comfort

Page 080

- 9 - 24 class 6 models
- Compact & stylish panel design
- Easy maintenance



Cassette

Circular Flow series
Comfort for Large Room

Page 084

- 18 - 54 class 7 models
- Individual louver control
- Various cassette grille
- Unique circular flow design

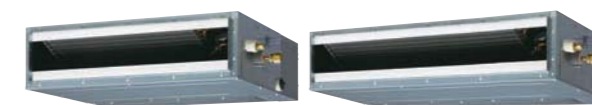


Slim Duct

Slim & Comfort

Page 092

- 9/12/14/18 class 4 models
- High efficiency & quiet operation
- Small and light weight outdoor unit
- Up to -15°C at cooling operation



Medium Static Pressure Duct

Compact & Comfort

Page 096

- 12 - 54 class 9 models
- High efficiency & quiet operation
- Small and light weight outdoor unit
- Up to -15°C at cooling operation



Medium Static Pressure Duct

Standard

Page 100

- Single phase 22 - 45 class 5 models
- Compact outdoor unit
- Slim & compact design indoor unit
- Up to -15°C at cooling operation



High Static Pressure Duct

Page 104

- 45/54 class 2 models
- Compact outdoor unit
- All DC inverter technology
- Design also corresponding to high static pressure



REFRIGERANT R32 **MULTI SPLIT**



2 Rooms Multi Outdoor units

Page 128

- 14/18 class 2 models
- Space saving application
- Up to -15°C at cooling operation
- Various indoor units lineup



New indoor unit lineup

Page 142

- 4 types 20 models
- Capacity range from 2.0 kW to 4.0 kW class



Simultaneous Multi Twin/Triple

Page 136

- 4/5/6 HP 3 models
- Slim & Compact design outdoor unit
- Flexible installation



New indoor unit lineup

- 3 types 6 models indoor units



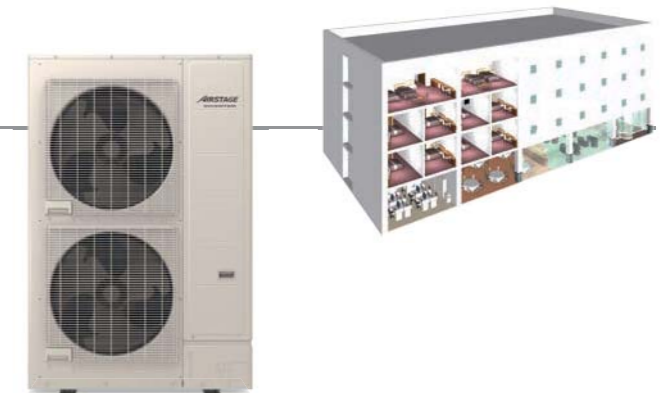
REFRIGERANT R410A **VRF**

AIRSTAGE J-III

Outdoor Unit 18 HP model

Page 184

- Slim & compact design
- Top class low noise
- Up to 42 indoor units can be connected
- Design with small refrigerant



3D Flow Cassette for VRF

Page 206

- 18/24 class 2 models
- Three air outlet ports realize wide air flow
- Three air outlet ports can be controlled individually
- High energy saving
- Low input power



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

CONTROL SYSTEM

Wireless LAN Interface

Page 236

- Operation from anywhere
- Easy to install and set up



Central Remote Controller

Page 247

- Remarkable design
- User friendly
- Remote monitoring operation
- Supporting Max. 12 different-languages



REFRIGERANT R410A **AIR TO WATER**

WATERSTAGE
Split type & Split DHW Integrated type
Super High Power Series

Page 278

- 15/16/17 kW class 3 models outdoor units, 4 models Hydraulic indoor units
- Advanced heating capability at low outside temperature
- Enhanced anti-freezing functions in cold areas
- Quiet design against the noise when being operated at night



From Business to Private Spaces SOLUTIONS

Target Properties



For Light Commercial

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

- 030 Shops, Restaurant
- 032 Small Office
- 034 Hotels
- 036 School



For Commercial

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

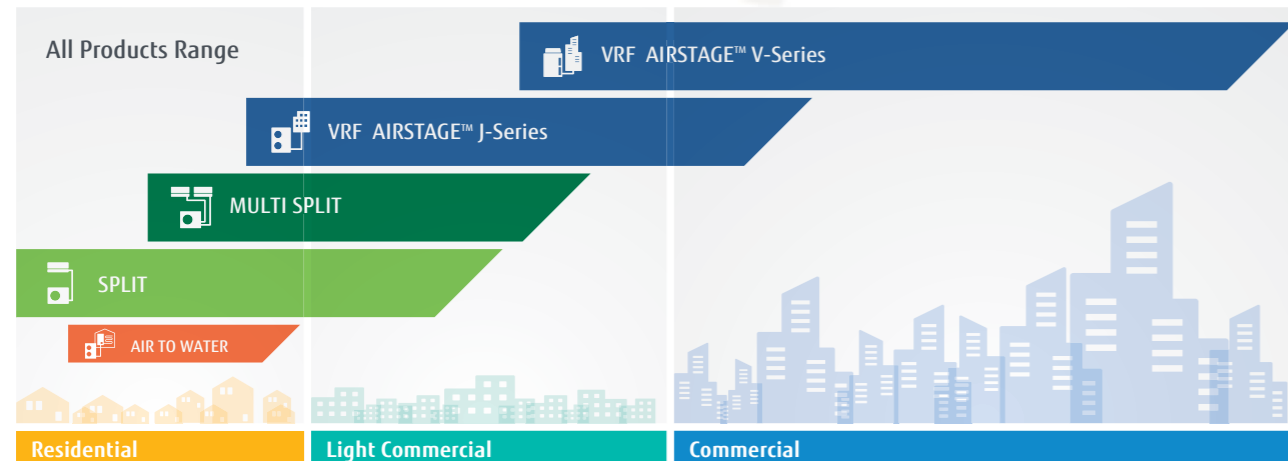
- 038 Large Building



For Residential

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

- 040 Residence



A casual conversation with a colleague at work

A presentation in a large meeting room

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

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

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

Restaurant, Shops

For Light Commercial

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



New Single Split For Restaurant

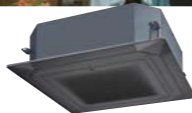


Compact Cassette



Circular Flow Cassette Series

Circular Flow Cassette Series For ambiances with dim lightings



For bright Interior rooms etc.



Mini Duct



Slim Duct



Medium Static Pressure Duct



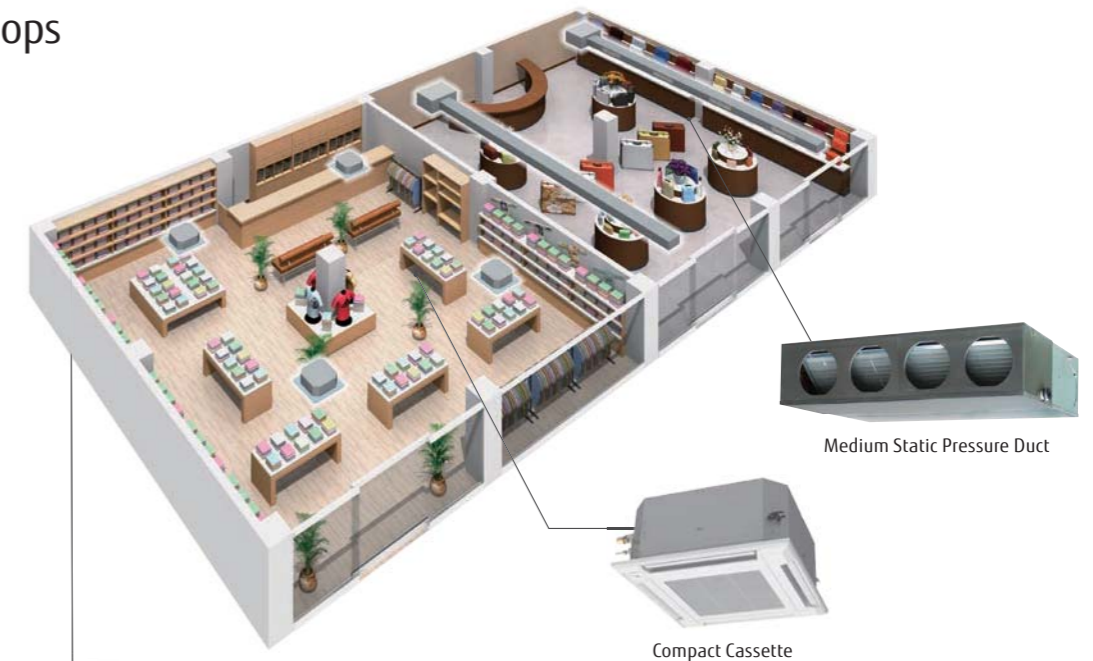
R32 large models lineup expanded

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



High Static Pressure Duct

New Simultaneous Multi For Shops



Twin 36 class (Single phase)

Twin/Triple 45/54 class (Single phase)

Various indoor unit lineup

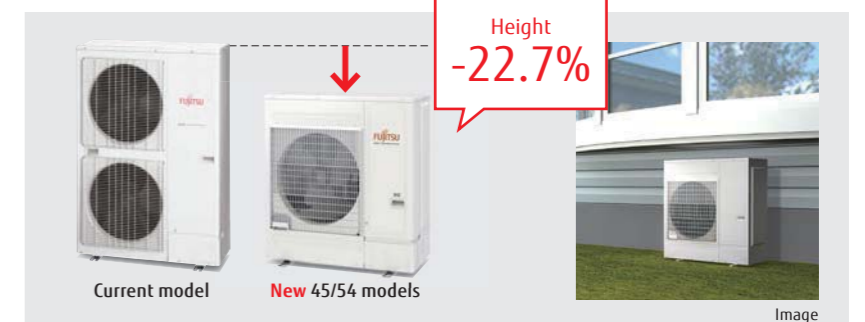
We provide 3 types of indoor units. You can select them to suit the atmosphere and layout of your shop.



Slim Duct

Small and light weight outdoor unit

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



Current model

New 45/54 models

Image

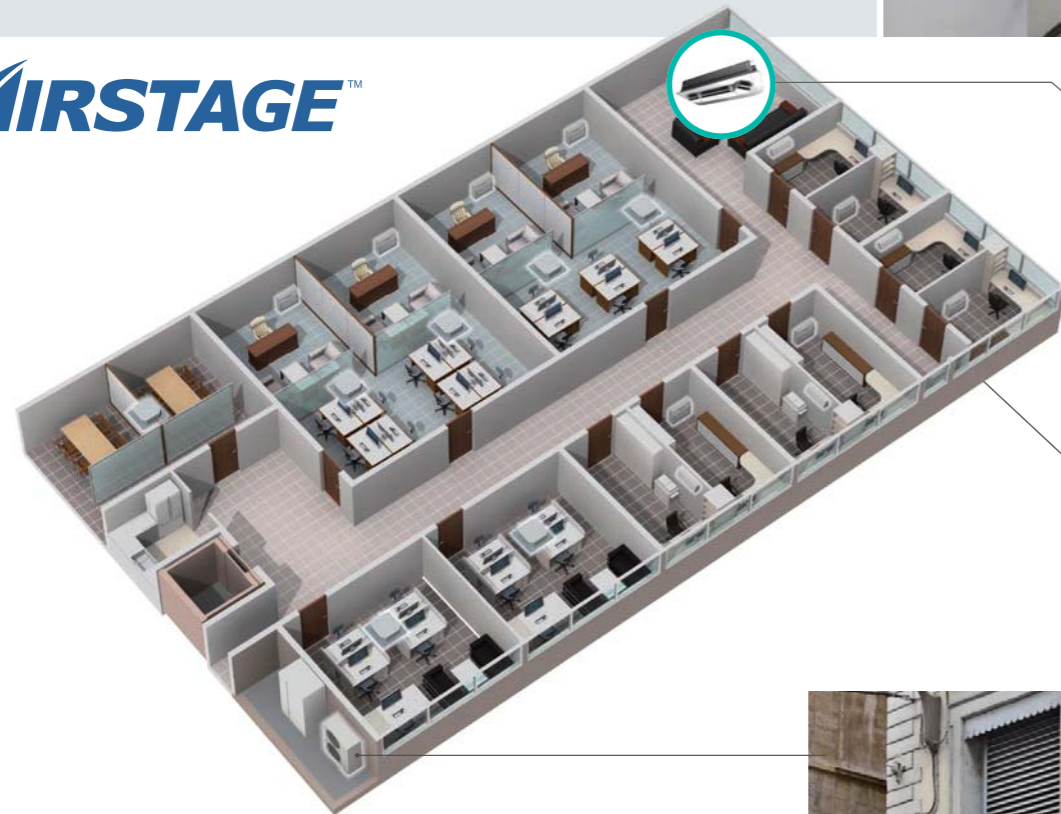
Small Offices

For Light Commercial

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



AIRSTAGE™



New style 3D flow cassette provides more comfort

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



New centralized remote controller with improved operability

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



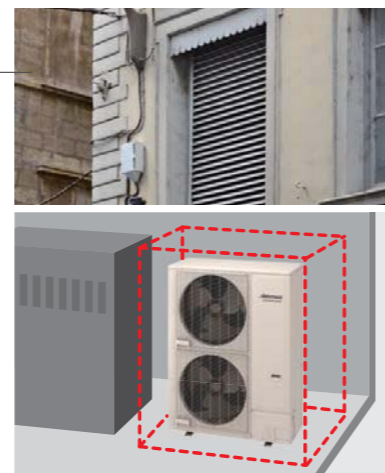
Central Remote Controller UTY-DCGYZ1



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

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

*Only J-IIIIL 18 HP model



J-IIIIL

Compact and low noise design outdoor unit

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

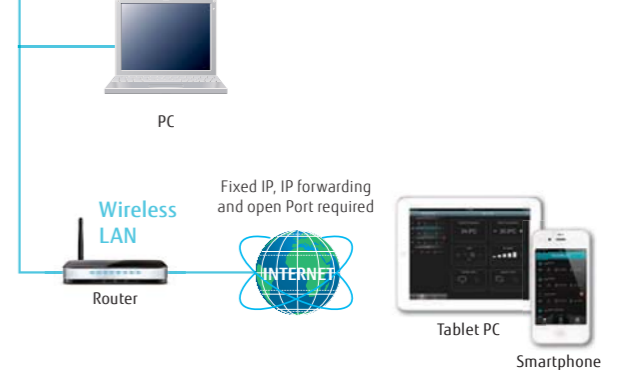
Various indoor units lineup for low capacity class

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



Compact Cassette Grid Type

LAN



Control and monitoring

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



iOS, Android and/or Windows

Hotels

For Light Commercial

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



AIRSTAGE™ J-Series appearance-oriented compact outdoor unit

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



Ventilation of the whole hotel supported

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



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

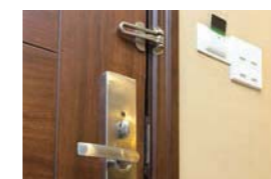
Space saving
Mini duct type with 198 mm height and 450 mm depth. This can be installed in narrow ceiling space easily.



Mini Duct



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



Use of an external connect switch



Comfortable airflow that switches up and down air directions
The Auto Louver Grille Kit achieves comfortable airflow by adjusting the air direction.



Auto Louver Grille Kit



Centralized control of air conditioning in shared spaces

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



System controller



Simple Remote Controller with sophisticated design

Suitable for hotels or offices as it is easily operated with no complex functions. Large LCD screen & simple operation buttons White colored backlight on monitor enable easy operation in dark.



Large space air conditioning in the reception and lobby

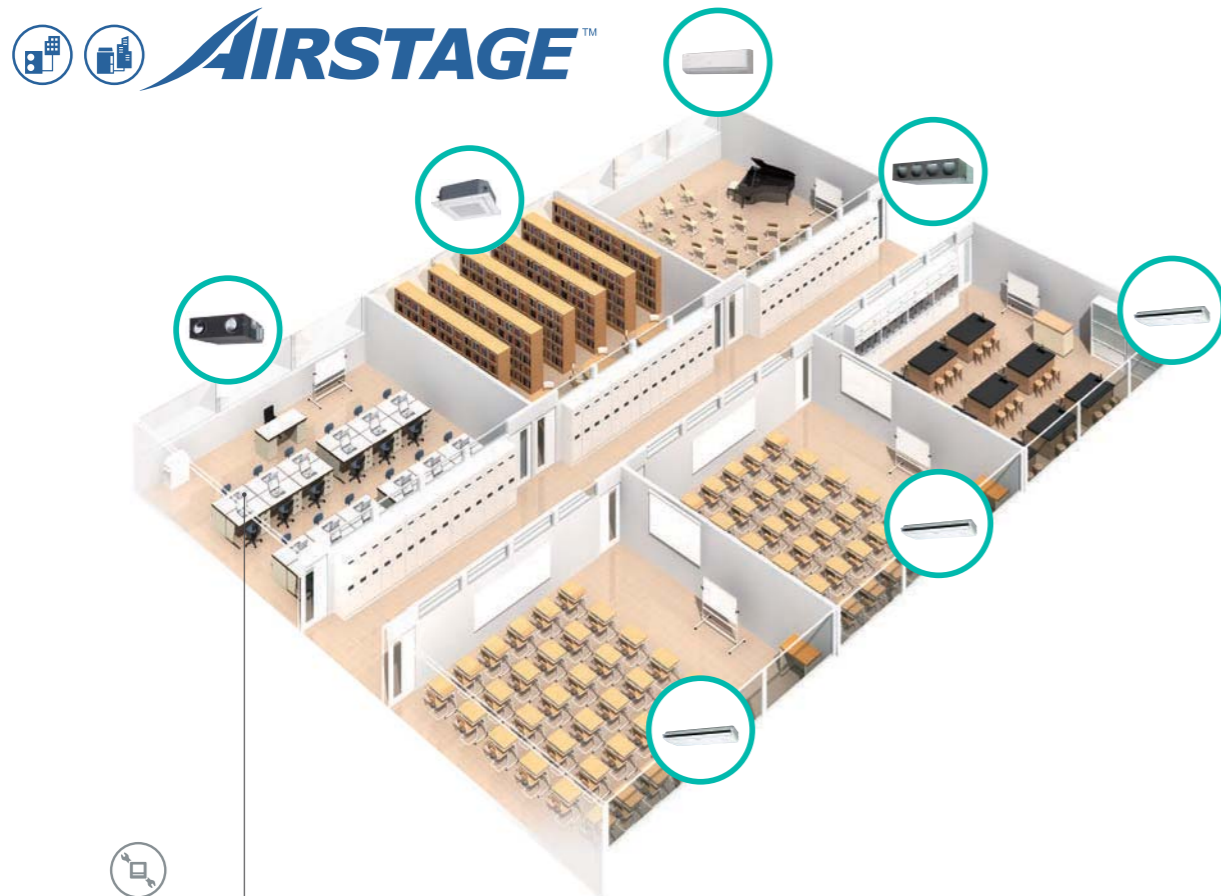
Ultra-large duct type single split system suitable for large spaces with high ceilings



School

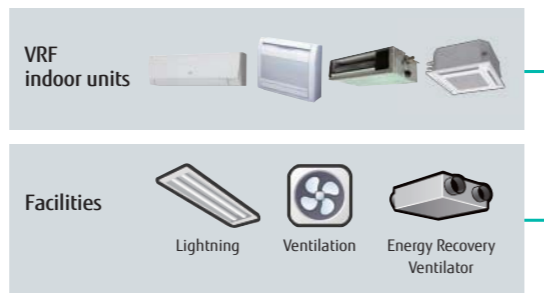
For Light Commercial

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



Centralized control of both air conditioning and ventilation equipment

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



System Controller Lite



Various indoor units

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



Energy Recovery Ventilator

Comfortable room air conditioning without airflow feeling

Circular Flow Cassette blows out in all directions without temperature unevenness

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

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

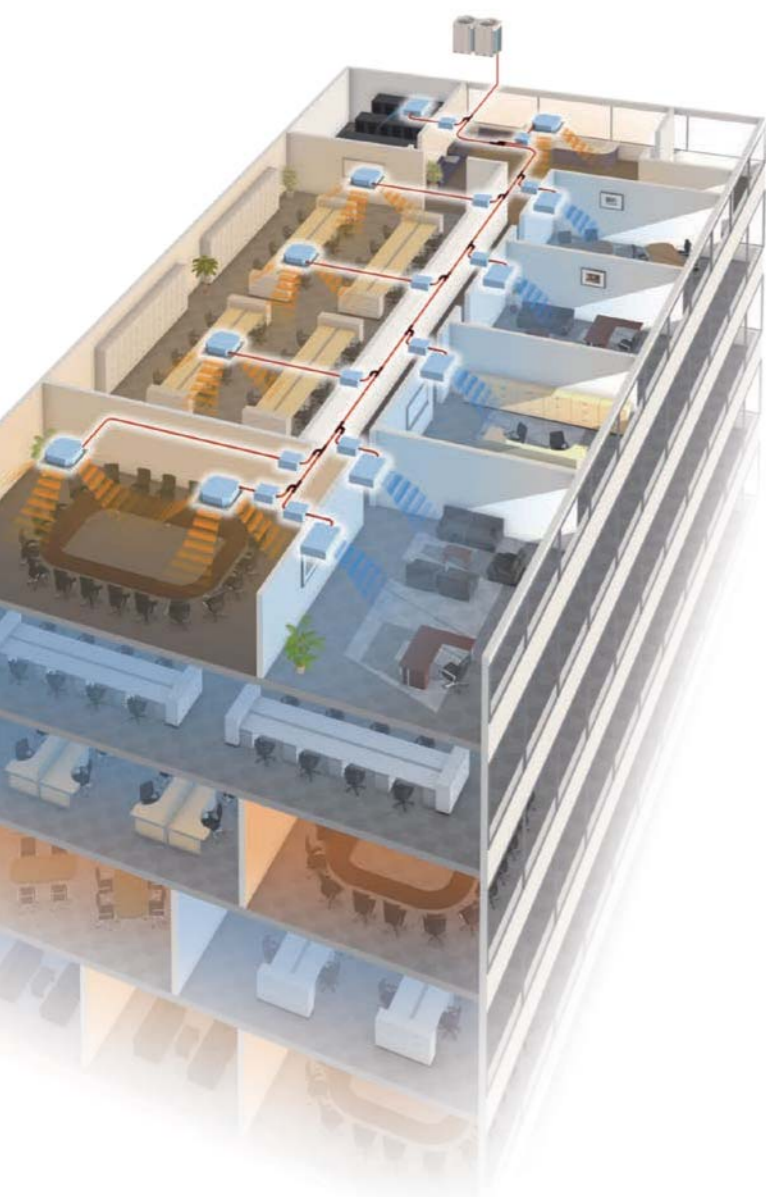
Human sensor (Option)



Large Building

For Commercial

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



Abundant lineup suitable to match the operating environment

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

*: TROPICAL model only



AIRSTAGE VR-II

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

8 HP - 48 HP 34 Models

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

Individual air conditioning system for large buildings

Capacities can be expanded up to simultaneous cooling and heating with maximum 48HP. Large individual air conditioning is supported.

AIRSTAGE V-III



8 HP - 54 HP 39 Models

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



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)



VRF indoor units

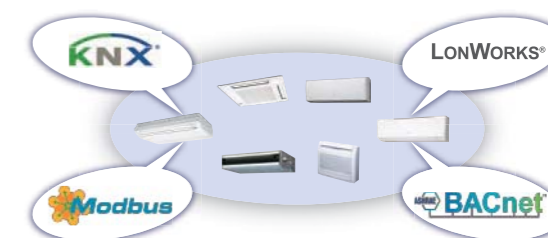


Facilities



Link up with a variety of BMS

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

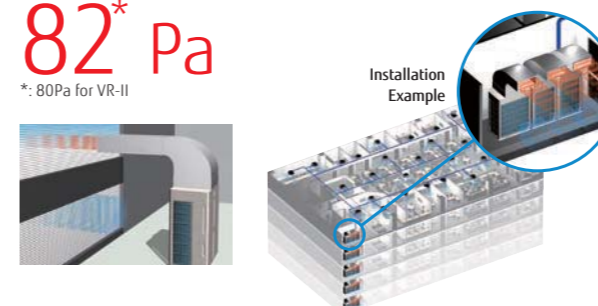


High system flexibility

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

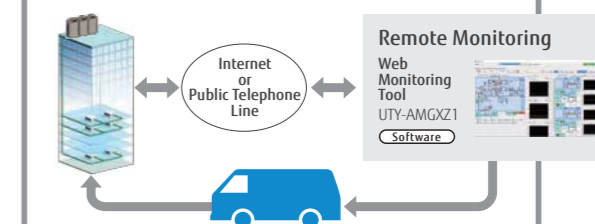
82* Pa

*: 80Pa for VR-II



Rapid service support

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



Residence

For Apartment & House

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



Various indoor units suitable for the characteristics of each room



KX Series



For Large Living Room & Dining Room

Advanced Airflow Model
Comfortable in every corner even in large living rooms and unusually shaped rooms

* Announced 2012. In room air conditioner for the home (our company's investigation)



NEW KM Series

For Large Room

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



NEW KP Series

For Bed Room or Home Office

Standard & ECO Range Series
High performance and compact design model for compact spaces such as bed room or home office.



KG Series GOOD DESIGN

For Master Bed Room or Living Room

Good Design & Silent Model
High performance and low noise model with an emphasis on its design



KM Series GOOD DESIGN

Outdoor units suitable for residential environments



R32 Multi type released

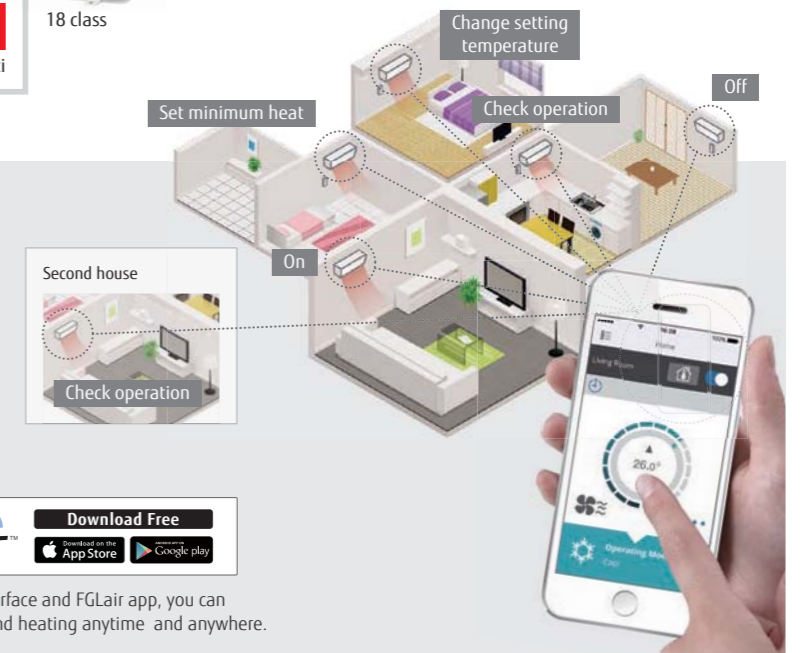
Models using the environmentally-friendly new refrigerant R32 were released. Two new wall mounted types with improved visual design were added to the indoor unit lineup.

New Wall Mounted



Operation from anywhere

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



Wireless LAN Interface (USB)



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

Light Commercial & Residential SPLIT

- 044 Split Overview
- 046 Indoor Units Lineup
- 050 Feature
- 055 Feature Explanation
- 116 Feature Summary



Refrigerant type R32 models

Wall Mounted

- 056 Flagship Range Series
- 058 Designer Range Series – High Spec & Design
- 060 Standard Range Series – High Efficiency & Comfort
- 062 **New** Standard Range Series – High Efficiency & Large Room
- 064 **New** ECO Range Series – Compact & Comfort
- 066 ECO Range Series – Comfort for Large Room

Cassette

- 080 **New** Compact Cassette – 4-way Flow Series
- 084 **New** Circular Flow Series – Comfort for Large Room

Duct

- 092 **New** Slim Duct – Slim & Comfort
- 096 **New** Medium Static Pressure Duct – Compact & Comfort
- 100 **New** Medium Static Pressure Duct – Standard
- 104 **New** High Static Pressure Duct



Refrigerant type R410A models

Wall Mounted

- 068 Designer Range Series – High Spec & Design
- 070 Designer Range Series – High COP
- 072 Standard Range Series – High Efficiency & Comfort
- 074 Standard Range Series – Comfort for Large Room
- 078 ECO Range Series – Compact & Comfort

Cassette

- 082 Compact Cassette – 4-way Flow Series
- 086 Circular Flow Series – Comfort for Large Room
- 088 4-way Flow Series – Comfort for Large Room

Duct

- 090 Mini Duct – Built-in Drain Pump
- 094 Slim Duct – Slim & Comfort
- 098 Medium Static Pressure Duct – Compact & Comfort
- 102 Medium Static Pressure Duct – Standard
- 106 High Static Pressure Duct
- 108 Big Duct

Floor/Ceiling

- 110 Floor
- 112 Floor/Ceiling
- 114 Ceiling

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

An air conditioner that is people-friendly is also environment friendly. Fujitsu General meets various needs for from living rooms and bedrooms to stores, small offices and hotels.



Split Overview

Fujitsu General provides our customers with 6 types and 116 models air conditioning system ideal for various customer applications and layout. Environment-friendly new refrigerant R32 models are added.



R32
KX
Series



R32



R410A

Floor

Floor type with compact and slim design is suitable for installation in both residential and commercial. This model is recommended as heating device because it blows warm airflow from both above and below outlets.



R32

Cassette

Cassette type adapts to the interior. This type blows air in four directions to perform the air conditioning of entire spaces evenly. We have a variety of series including Compact models that have adopted a new design panel to match grid ceilings and Circular Flow models that deliver air in 360° directions.



R410A

Floor/Ceiling

Two types of installation method – floor installation and ceiling installation – can be selected. This model has a compact design with a width of 990 mm and a depth of just 199 mm (ceiling installation: height). This means they can handle various installation conditions.



R32
KX
Series

WORLD'S FIRST
DUAL BLASTER
nocria X

Wall Mounted

Installation work is simple and easy for wall mounted type. We have pursued airflow control and energy saving including our dual side fan equipped flagship models. At the same time, their flat and simple designs that match the interior are also attractive. We have a lineup with many models that have adopted the new environmentally friendly R32 refrigerant.

* Announced 2012. In room air conditioner for the home (our company's investigation)



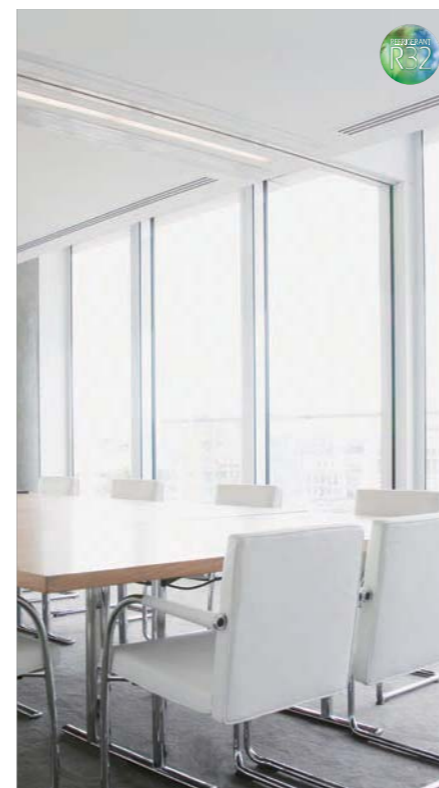
R32
KG
Series



R32
KM
Series



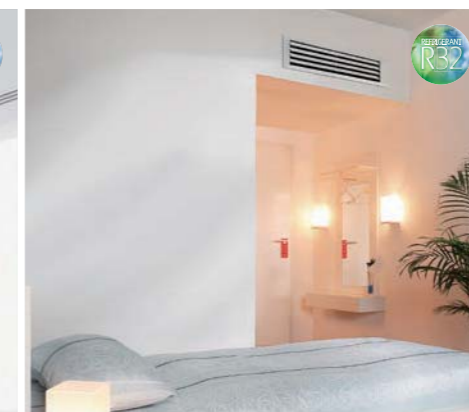
R32
KP
Series



R32

Duct

The main unit of this type cannot be seen, so your interior will feel clear. We have Mini Duct and Slim Duct models available to also enable installation in narrow spaces in beams or above the ceiling. For a large model suitable for air conditioning vast spaces, multiple outlets can be installed by only one unit. Therefore, these models are recommended for unusual room layout.



R32



R410A

Ceiling

Installation work is as easy as with wall mounted type. This model can be installed neatly because it has a thin design with a height of 240 mm. It delivers a powerful wind far away from a wide outlet. Therefore, this model is ideal for oblong rooms such as large meeting rooms and audiovisual rooms with depth.

Indoor Units Lineup



FUJITSU GENERAL (Euro) GmbH participates in the ECP programme for AIR CONDITIONERS. Check ongoing validity of certificate: 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	
Wall Mounted	Flagship Range Series nocria X					ASYG12KXCA									
	Designer Range Series High Spec & Design			ASYG07KGTB	ASYG09KGTB	ASYG12KGTB	ASYG14KGTB								
	Standard Range Series High Efficiency & Comfort			ASYG07KMTB*	ASYG09KMTB*	ASYG12KMTB*	ASYG14KMTB*								
	Standard Range Series High Efficiency & Large Room							ASYG18KMTA		ASYG24KMTA					
	ECO Range Series Compact & Comfort			ASYG07KPCA	ASYG09KPCA	ASYG12KPCA									
	ECO Range Series Comfort for Large Room							ASYG18KLCA*		ASYG24KLCA*					
Cassette	Compact 4-way Flow Series Compact & Comfort				AUXG09KVLA	AUXG12KVLA	AUXG14KVLA	AUXG18KVLA	AUXG22KVLA	AUXG24KVLA					
	Circular Flow Series Comfort for Large Room		 18/22/24 30/36/45/54					AUXG18KRLB	AUXG22KRLB	AUXG24KRLB	AUXG30KRLB	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB	
Duct	Slim Duct		 09/12/14 18		ARXG09KLLAP	ARXG12KLLAP	ARXG14KLLAP	ARXG18KLLAP							
	Medium Static Pressure Duct Compact & Comfort		 12/14 18/22/24/30 36/45/54			ARXG12KHTAP	ARXG14KHTAP	ARXG18KHTAP	ARXG22KHTAP	ARXG24KHTAP	ARXG30KHTAP	ARXG36KHTAP	ARXG45KHTAP	ARXG54KHTAP	
	Medium Static Pressure Duct Standard								ARXG22KMLA	ARXG24KMLA	ARXG30KMLA	ARXG36KMLA	ARXG45KMLA		
	High Static Pressure Duct												ARXG45KHTA	ARXG54KHTA	



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

Type	Series	Refrigerant	Model	Class															
				7	9	12	14	18	24	30	36	45	54	60	72	90			
Wall Mounted	Designer Range Series High Spec & Design	R410A			ASYG09LTCA	ASYG12LTCA													
	Designer Range Series High COP			ASYG07LUCA	ASYG09LUCA	ASYG12LUCA	ASYG14LUCA												
	Standard Range Series High Efficiency & Comfort			ASYG07LMCE	ASYG09LMCE	ASYG12LMCE	ASYG14LMCE												
	Standard Range Series Comfort for Large Room							ASYG18LFCA	ASYG24LFCC	ASYG30LFCA									
										ASYG30LMTA	ASYG36LMTA								
	ECO Range Series Compact & Comfort			ASYG07LLCE	ASYG09LLCE	ASYG12LLCE													
Cassette	Compact 4-way Flow Series Compact & Comfort	R410A				AUYG12LVLB	AUYG14LVLB	AUYG18LVLB	AUYG24LVLA										
	Circular Flow Series Comfort for Large Room			18/24	30/36/45/54				AUXG18LRLB	AUXG24LRLB	AUXG30LRLB	AUXG36LRLB	AUXG45LRLB	AUXG54LRLB					
	4-way Flow Series Comfort for Large Room										AUYG30LRLE	AUYG36LRLE AUYG36LRLA	AUYG45LRLA	AUYG54LRLA					
Duct	Mini Duct	R410A		12/14	18		ARYG12LSLAP*	ARYG14LSLAP*	ARYG18LSLAP*										
	Slim Duct			12/14	18		ARYG12LLTB	ARYG14LLTB	ARYG18LLTB										
	Medium Static Pressure Duct Compact & Comfort			12/14	18/24/30	36/45/54		ARYG12LHTBP	ARYG14LHTBP	ARYG18LHTBP	ARYG24LHTBP	ARYG30LHTBP	ARYG36LHTBP	ARYG45LHTBP	ARYG54LHTBP				
	Medium Static Pressure Duct Standard										ARYG24LMLA	ARYG30LMLE	ARYG36LMLE ARYG36LMLA	ARYG45LMLA					
	High Static Pressure Duct			45/54	60										ARYG45LHTA	ARYG54LHTA	ARYG60LHTA		
	Big Duct																	ARYG72LHTA*	ARYG90LHTA*
Floor Compact & Comfort		R410A			AGYG09LVCA	AGYG12LVCA	AGYG14LVCA												
Floor/Ceiling Comfort & Dual Design		R410A						ABYG18LVTB	ABYG24LVTA										
Ceiling Comfort for Large Room		R410A									ABYG30LRTE	ABYG36LRTE ABYG36LRTA	ABYG45LRTA	ABYG54LRTA					

Feature

High Efficiency

Optimized Inverter Control



i I-PAM (IPM*+PAM) inverter control

I-PAM inverter control is a technology which reduces loss by adjusting the current waveform to a better sine waveform. This promotes the effective use of the input power supply to attain high performance.
IPM*: Intelligent Power Module

V V-PAM (Vector + I-PAM) inverter control

V-PAM inverter control reduces the effects of magnetic flux and increases the maximum speed and efficiency of the compressor by vector control technology. With this technology, further miniaturization, higher efficiency, and better performance are attained.

All DC Inverter Technology



ALL DC DC twin rotary compressor

The high efficiency DC inverter type "2-cylinder rotary compressor" is used for our product ranges. It has achieved higher energy efficiency compared with similar compressors by optimizing the structure inside the compressor.

DC fan motor

DC fan motor produces high power, wide operation range, and high efficiency.

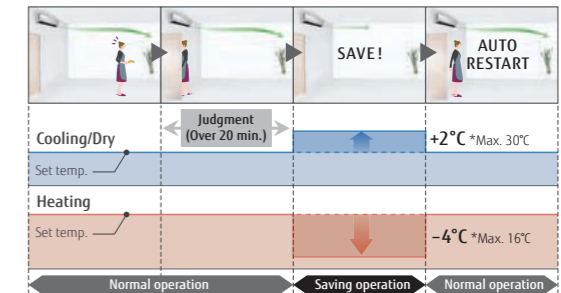
Sine-wave DC inverter control

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

High Energy Saving

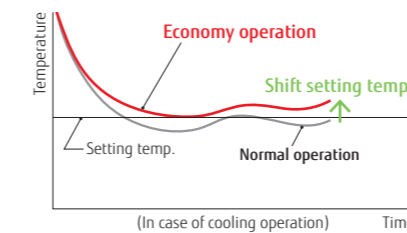
Save+Stop Human sensor control

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



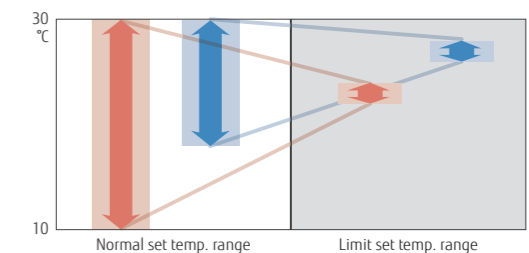
Economy Economy operation

Limits the maximum operation current, and the power consumption is cut down and the maximum load is suppressed.



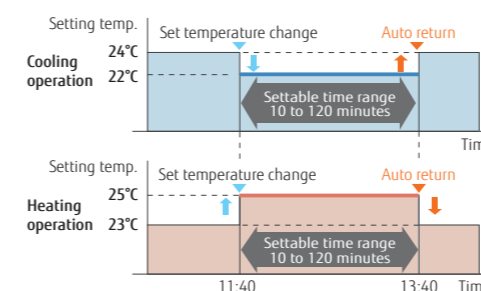
Set Temp. Room temperature set point limitation

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



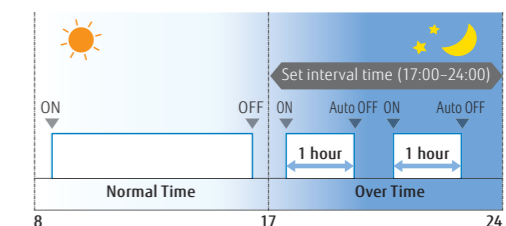
Return Set temperature auto return

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



Auto OFF Auto-off timer

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



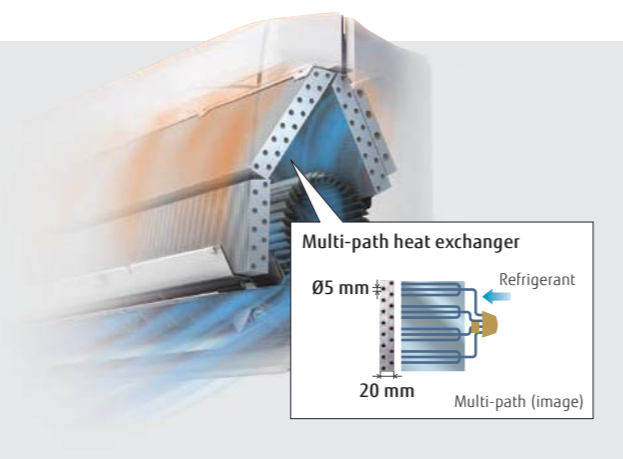
Heat Exchanger for Wall Mounted

High density multi-path heat exchanger

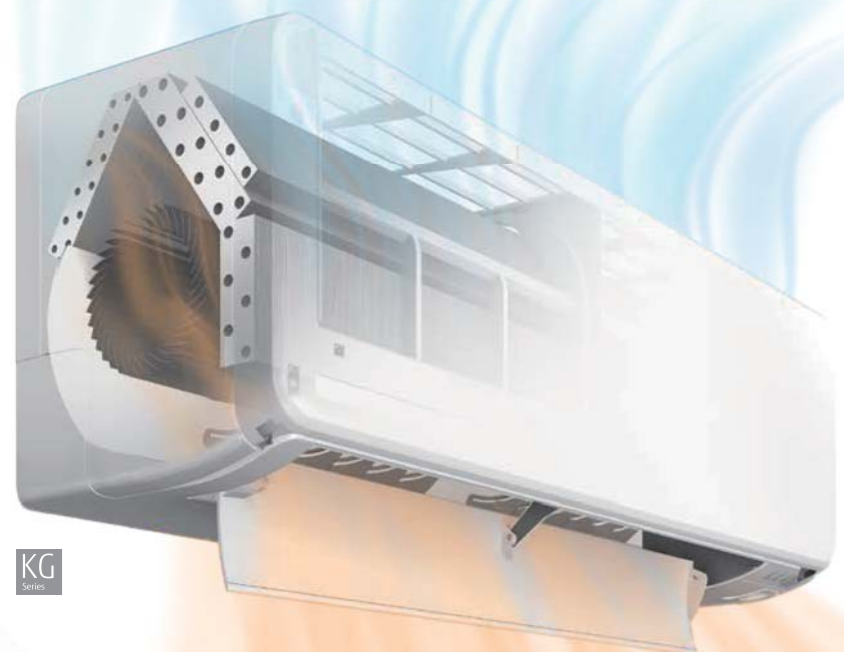
Heat exchange performance is substantially improved by thin and high-density heat exchanger and multi-path efficiency technology.

High performance sub-cool heat exchanger

Higher performance achieved by mounting of counter type bypass circuit. (Large multi type, VRF)



More Comfort



KG Series



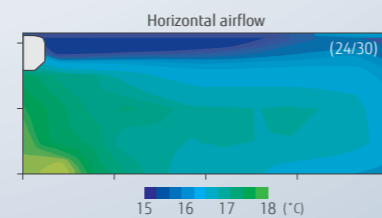
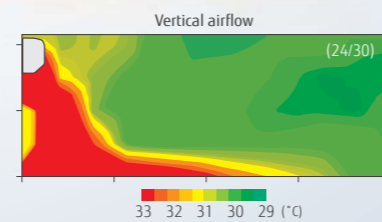
Powerful heating

High heating capacity is realized even at low outdoor temperature by mounting a large heat exchanger or large DC rotary compressor and developing high performance inverter PCB



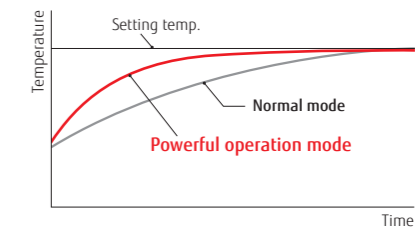
Power diffuser

Precision wind direction control is realized and ventilation efficiency is also improved by 3 technologies. Our airflow control makes your environment more comfortable.



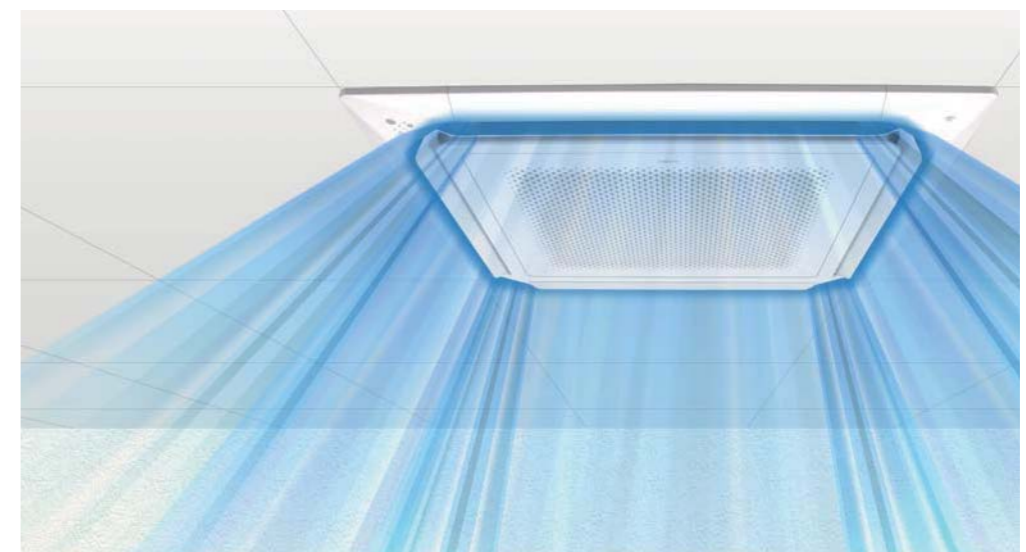
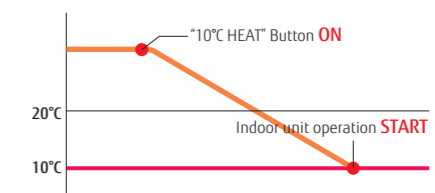
Powerful operation

Continuous operation by maximum airflow and maximum compressor speed after a certain period of time allows the temperature to reach the setting temp. quickly.



10°C Heat operation

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



Uniform air conditioning

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



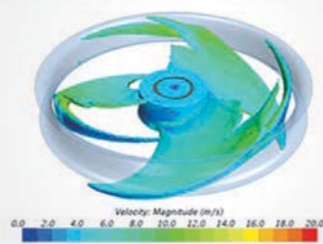
Quiet and Comfort Control

Low Noise Technology



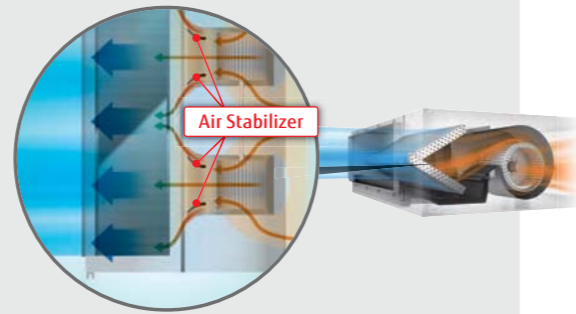
Outdoor unit fan

Outdoor unit fan design with little separation vortex, fan control to minimize the air volume and top class low noise



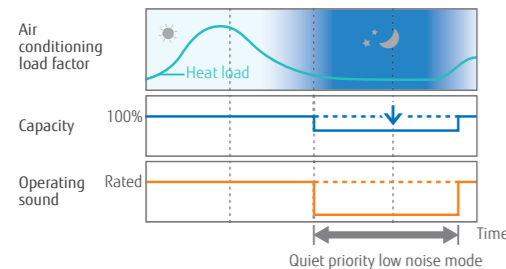
Air stabilizer in Duct

Low noise duct structure with a built-in air stabilizer



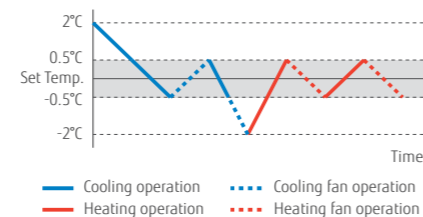
Outdoor unit low noise operation

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



Auto-changeover function

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



Fresh air intake for Cassette, Duct, Ceiling

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



Fresh Air Intake kit

Feature Explanation

Energy Saving Function

- Dual side fans**
The comfortable space can be created with Hybrid Airflow, which combines different temperatures of air current and velocities.
- Economy mode**
Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.
- Save human sensor**
Human sensor detects the movement of people in the room and judges whether the energy saving operation.
- Room temperature set point limitation**
The minimum and maximum temperature range can be set giving further energy saving while considering the comfort of the occupants.
- Save & Stop human sensor**
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.

Comfortable Function

- Powerful heating**
Keeping the rated heating capacity even when the outdoor ambient temperature is -7°C.
- Powerful mode**
Operation at maximum air flow and compressor speed, and quickly makes the room comfortable.
- Auto-changeover**
The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.
- Automatic fan speed**
The micro-computer automatically adjusts the airflow effectively to follow the changes of room temperature.
- Fresh air intake**
Fresh air can be taken in by a fan which can be connected using external control unit.
- Power diffuser**
An additional louver that opens based on monitoring sensors to quickly enhance immediate comfort needs.
- 10°C HEAT operation**
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 flaps**
The up/down flaps automatically swing 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 power supply is restored.
- Connectable distributing duct**
Systems are capable of attaching Locally purchased branch ducts distributing the airflow.
- Server room operation**
Interlock operation is possible by connecting 2 indoor units even in the low temperature.
- Low noise mode**
Sound noise level of outdoor unit can be selected.
- Double swing automatic**
Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.
- Connectable fresh air duct**
Outside air can be introduced by attaching Locally purchased duct to fresh air knockout and optional part.
- Individual airflow direction control**
Each louver of 4-way Cassette type can be controlled individually and provides comfortable airflow.

Convenient Function

- 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**
- External ON/OFF input**
- Sleep timer**
The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.
- Weekly + setback timer**
Weekly + Setback timer can set temperature for two times spans and for each day of the week.
- 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 lamp.
- Wireless LAN control**
The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.

Clean Function

- Plasma air clean**
The electrostatic precipitator removes dust particles such as pollens and house dust. It is washable and can be always maintained clean.
- Apple-catechin filter**
The Apple-catechin filter uses static electricity to clean fine particles and dust in the air.
- 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 the ultra-fine-particle ceramic.
- Washable panel**
Since the front panel is easy to remove, maintenance is also easy.

Installation

- Automatic airflow adjustment**
Automatically detects required airflow in each application case and adjusts the volume.
- Drain pump as standard**
- Blue fin**

ALL DC All DC models

i-PAM i-PAM control models
i-PAM inverter control is a technology which reduces loss by adjusting the current waveform to a better sine waveform.

V-PAM V-PAM control models
V-PAM inverter control reduces the effects of magnetic flux and increases the maximum speed and efficiency of the compressor by vector control technology.

Wall Mounted Flagship Range

nocria™ X



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



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

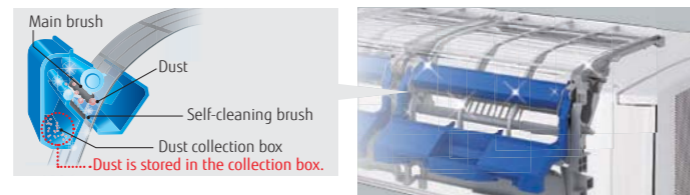


*1: Announced 2012. In room air conditioner for the home (Our company's investigation)

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

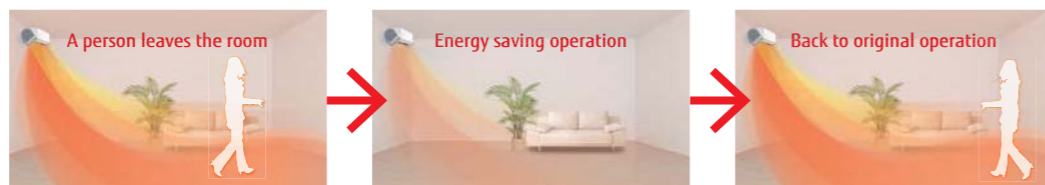
Air is cleaned with an electric dust collecting technology. Pollen, house dust and other tiny pollutants are collected and removed with static electricity.



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

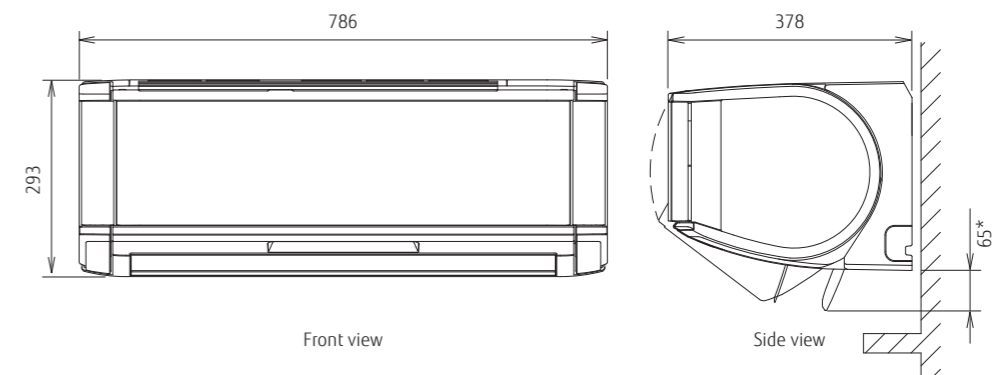


Specifications

Model No.	Indoor unit		Outdoor unit		ASYG12KXCA		AOYG12KXCA	
	Indoor unit		Outdoor unit		ASYG12KXCA		AOYG12KXCA	
Power Source					Single-phase, ~230V, 50Hz			
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			W/W			5.09	
EER	Cooling		W/W				4.90	
	Heating					3.4/3.5		
Pdesign	Cooling/Heating(-10°C)		kW			8.50		
	Cooling			W/W			5.10	
SEER	Cooling		W/W				A+++	
	Heating (Average)					A+++		
Energy Efficiency Class	Cooling				A			
	Heating (Average)				140			
Max. Operating Current	Cooling/Heating		A			961		
	Cooling					1.2		
Annual Energy Consumption	Cooling		kWh/a			46/42/38/28		
	Heating					48/43/39/30		
Moisture Removal	Indoor (Cooling)		l/h			44/43		
	Indoor (Heating)					58/62		
Sound Pressure Level	Indoor (Cooling/Heating)		dB(A)			57/57		
	Indoor (Cooling/Heating)					670/2,230		
Sound Power Level	Indoor (Cooling/Heating)		dB(A)			810/1,975		
	Indoor (Cooling/Heating)					293×786×378		
Airflow Rate	Indoor / Outdoor (Cooling)		m³/h			20 (44)		
	Indoor / Outdoor (Heating)					41 (90)		
Net Dimensions H x W x D	Indoor		mm			6.35/9.52		
	Outdoor					13.8 / 15.8 to 16.7		
Weight	Indoor		kg(lbs)			15 (15)		
	Outdoor					10		
Connection Pipe Diameter (Liquid / Gas)	Indoor		mm			-10 to 43		
	Outdoor					-15 to 24		
Drain hose Diameter (I.D./O.D.)	Indoor		kg(lbs)			R32 (675)		
	Outdoor					1.30 (0.9)		
Max Pipe Length (Pre-Charge)	Indoor		m					
	Outdoor							
Max Height Difference	Cooling		°CDB					
	Heating							
Operation Range	Cooling		°CDB					
	Heating							
Refrigerant	Type (Global Warming Potential)		kg(CO2eq-T)					
	Charge							

Dimensions

(Unit : mm)



*Dimensions in case of air flowing downward

Wall Mounted Designer Range

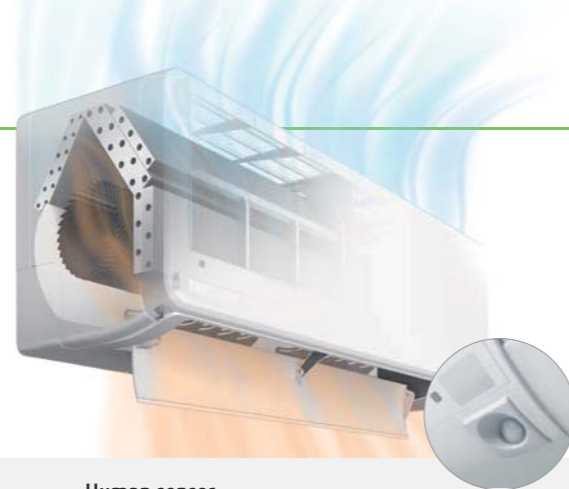
High Spec & Design



High energy saving

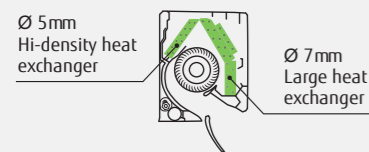
Top class high efficiency is achieved by high efficient lamda heat exchanger, large cross flow fan and new refrigerant.

Rank **A+++** SEER **8.5** SCOP **5.1**
 *1: 07, 09, 12 models



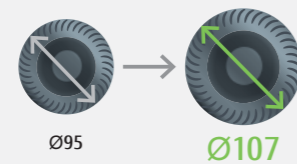
Hybrid-heat exchanger

The heat exchange efficiency has been significantly improved with the large hybrid heat exchanger, attaining the top-level SEER and SCOP.



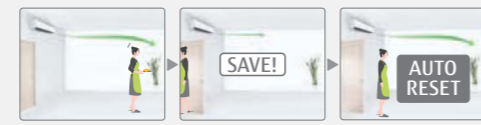
Ø107 Large cross-flow fan

With the large-diameter fan, efficient air volume can be obtained at low power.



Human sensor

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



Comfortable airflow & Silent operation

The big louver and the new air blowing structure have attained a comfortable air flow that spreads wider to user's feet and silent operation.



Smart device Control (Option)

Easy air conditioner control from inside or outside the house and office using the Smartphones, Tablets, and PC.



Wireless LAN Interface

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

Model: ASYG07KGTB / ASYG09KGTB / ASYG12KGTB / ASYG14KGTB



Specifications

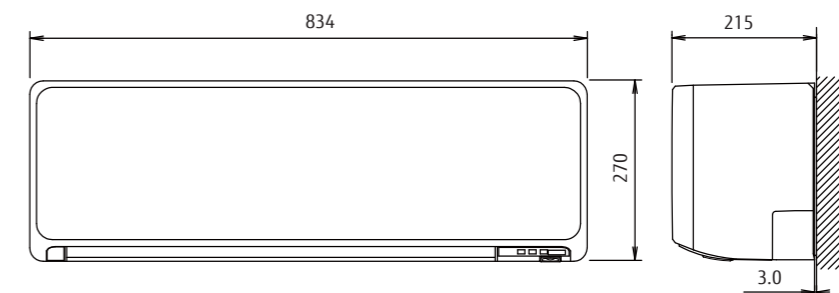
Model No.	Indoor unit		ASYG07KGTB	ASYG09KGTB	ASYG12KGTB	ASYG14KGTB
	Outdoor unit		AOYG07KCCA	AOYG09KCCA	AOYG12KCCA	AOYG14KCCA
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW	2.0	2.5	3.4	4.2
	Heating	kW	2.5	2.8	4.0	5.4
Input Power	Cooling/Heating		0.400/0.500	0.555/0.560	0.805/0.910	1.175/1.350
	Cooling	W/W	5.00	4.50	4.22	3.57
COP	Heating		5.00	5.00	4.40	4.00
	Cooling/Heating(-10°C)		2.0/2.3	2.5/2.4	3.4/2.5	4.2/4.0
SEER	Cooling		8.52	8.52	8.51	7.11
	Heating (Average)		5.12	5.11	5.10	4.31
Energy Efficiency Class	Cooling		A+++	A+++	A+++	A++
	Heating (Average)		A+++	A+++	A+++	A+
Max. Operating Current	Cooling/Heating		6.5/9.0	6.5/9.0	6.5/9.0	9.0/10.5
	Cooling		82	103	140	207
Annual Energy Consumption	Cooling		628	658	685	1,298
	Heating		1.0	1.3	1.8	2.1
Moisture Removal	Indoor (Cooling)		38/33/29/19	40/34/29/19	40/35/30/19	43/36/30/20
	Indoor (Heating)		41/35/31/21	42/36/31/21	42/38/33/21	44/39/33/24
Sound Pressure Level	Outdoor(Cooling/Heating)		46/46	46/48	50/50	50/50
	Indoor(Cooling/Heating)		54/56	55/57	56/58	57/59
Sound Power Level	Outdoor(Cooling/Heating)		61/62	61/63	65/66	65/66
	Indoor / Outdoor (Cooling)		650/1,610	700/1,610	700/1,680	770/1,680
Airflow Rate	Indoor / Outdoor (Heating)		720/1,560	750/1,610	770/1,580	800/1,580
	Indoor		mm	270×834×215	270×834×215	270×834×215
Net Dimensions H x W x D	Outdoor		mm	542×799×290	542×799×290	542×799×290
	Indoor		kg(lbs)	10 (22)	10 (22)	10 (22)
Weight	Outdoor		kg(lbs)	30 (66)	30 (66)	31 (68)
	Connection Pipe Diameter (Liquid / Gas)		mm	6.35/9.52		
Drain hose Diameter (I.D./O.D.)	13.8/15.8 to 16.7					
Max Pipe Length (Pre-Charge)	20 (15)					
Max Height Difference	15					
Operation Range	Cooling					-10 to 46
	Heating					-15 to 24
Refrigerant	Type (Global Warming Potential)					R32 (675)
	Charge		kg(CO2eq-T)	0.75 (0.5)	0.75 (0.5)	0.85 (0.6)

Optional parts

- Wired Remote Controller: UTY-RNRYZ3, UTY-RLRY
- Simple Remote Controller: UTY-RSRY, UTY-RHRY
- External Input and Output PCB: UTY-XCSXZ2
- Communication kit: UTY-TWRXZ2
- Wireless LAN Interface: UTY-TFSXW1
- External connect kit: UTY-XWZK

Dimensions

(Unit : mm)



Wall Mounted Standard Range

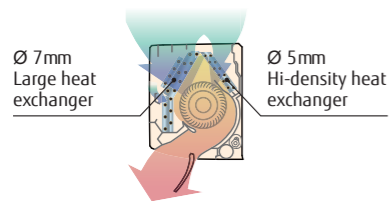
High Efficiency & Comfort



Slim & stylish square design

Slim and stylish square design is realized by high density multi-path heat exchanger and high efficiency wind blower.

Hybrid-heat exchanger



High energy saving

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

Rank Cooling **A++** Heating **A+**

SEER **7.4** *1 SCOP **4.4** *2

*1: 07/09 models *2: 12 model

Comfortable airflow & Silent operation

The big louver and the new air blowing structure have attained a comfortable air flow that spreads wider to user's feet and silent operation.



Smart device Control (Option)

Easy air conditioner control from inside or outside the house and office using the Smartphones, Tablets, and PC.



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

Model: ASYG07KMTB / ASYG09KMTB / ASYG12KMTB / ASYG14KMTB



Specifications

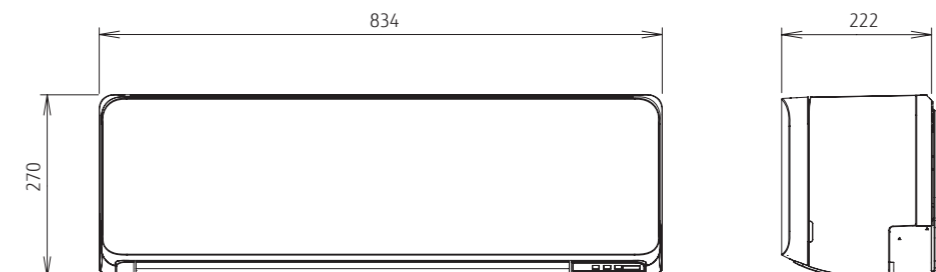
Model No.	Indoor unit		ASYG07KMTB	ASYG09KMTB	ASYG12KMTB	ASYG14KMTB
	Outdoor unit		AOYG07KMTA	AOYG09KMTA	AOYG12KMTA	AOYG14KMTA
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW	2.0 (0.9-3.0)	2.5 (0.9-3.2)	3.4 (0.9-3.9)	4.2 (0.9-4.4)
	Heating	kW	2.5 (0.9-3.4)	2.8 (0.9-4.0)	4.0 (0.9-5.3)	5.4 (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	Cooling		4.52	4.52	4.17	3.83
	Heating		2.0/2.3	2.5/2.4	3.4/2.5	4.2/4.0
Pdesign	Cooling/Heating(-10°C)		7.40	7.40	7.30	6.90
	Cooling	W/W	4.10	4.10	4.40	4.10
SEER	Cooling		A++	A++	A++	A++
	Heating (Average)		A+	A+	A+	A+
SCOP	Heating (Average)		6.5/9.0	6.5/9.0	6.5/9.0	6.5/9.0
	Cooling	A	95	118	163	213
Max. Operating Current	Cooling/Heating		785	819	795	1367
	Cooling	kWh/a	1.0	1.3	1.8	2.1
Annual Energy Consumption	Cooling		38/33/29/20	40/34/29/20	40/35/30/20	43/36/30/20
	Heating		41/35/31/22	42/36/31/22	42/38/33/22	44/39/33/24
Moisture Removal	Indoor (Cooling)	H/M/L/Q	46/46	46/46	50/50	50/50
	Indoor (Heating)	H/M/L/Q	54/56	55/57	55/58	57/59
Sound Pressure Level	Outdoor(Cooling/Heating)	High	61/61	61/62	65/65	65/66
	Indoor(Cooling/Heating)	High	650/1,650	700/1,650	700/1,700	770/1,680
Sound Power Level	Indoor(Cooling/Heating)	High	720/1,450	750/1,450	770/1,470	800/1,580
	Outdoor(Cooling/Heating)	High	541*663*290	541*663*290	541*663*290	542*799*290
Airflow Rate	Indoor / Outdoor (Cooling)	High	10 (22)	10 (22)	10 (22)	10 (22)
	Indoor / Outdoor (Heating)	High	23 (51)	23 (51)	25 (55)	31 (68)
Net Dimensions H x W x D	Indoor	mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52
	Outdoor	mm	13.8/15.8 to 16.7	13.8/15.8 to 16.7	13.8/15.8 to 16.7	13.8/15.8 to 16.7
Weight	Indoor	kg(lbs)	20 (15)	20 (15)	20 (15)	20 (15)
	Outdoor	kg(lbs)	15	15	15	15
Connection Pipe Diameter (Liquid / Gas)	Cooling		-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
Drain hose Diameter (I.D./O.D.)	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)
Max Pipe Length (Pre-Charge)	Max Height Difference		15	15	15	15
	Operation Range		15	15	15	15
Refrigerant	Type (Global Warming Potential)		-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Charge		kg(CO2eq-T)	0.6 (0.405)	0.6 (0.405)	0.7 (0.473)

Optional parts

- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- External connect kit: UTY-XWZXZ5
- Communication kit: UTY-TWBXF2
- Wireless LAN Interface: UTY-TFSXW1

Dimensions

(Unit : mm)



Wall Mounted Standard Range

High Efficiency & Large Room



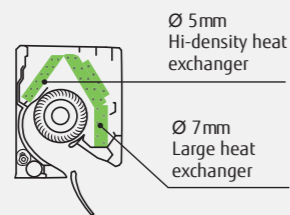
High energy saving

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



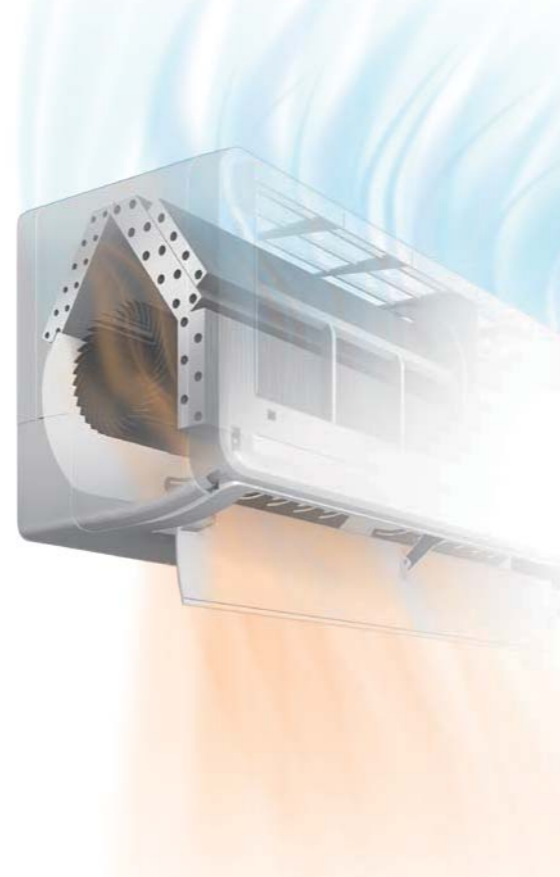
Hybrid-heat exchanger

The heat exchange efficiency has been significantly improved with the large hybrid heat exchanger, attaining the top-level SEER and SCOP.



Ø107 Large cross-flow fan

With the large-diameter fan, efficient air volume can be obtained at low power.

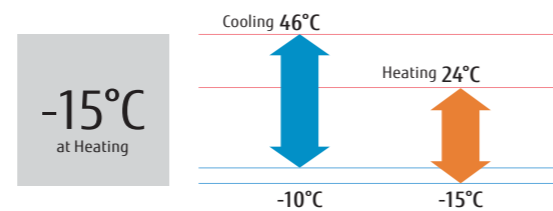


Smart device Control (Option)

This model can be controlled from anywhere using smart device by installing optional wireless LAN interface. Wireless LAN interface can be installed easily without specialized installation work.



Low ambient operation



Model: ASYG18KMTA / ASYG24KMTA



Specifications

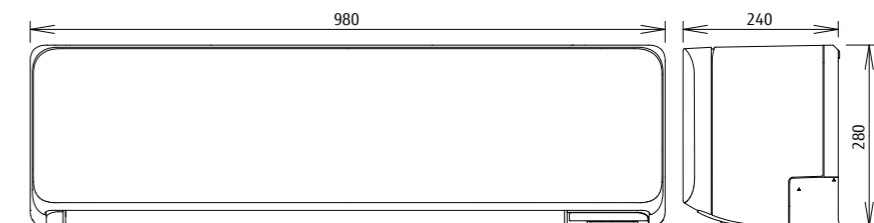
Model No.	Indoor unit		Outdoor unit		ASYG18KMTA		ASYG24KMTA		
	Outdoor unit		AOYG18KMTA		AOYG24KMTA		AOYG24KMTA		
Power Source	Single-phase, ~230V, 50Hz								
Capacity	Cooling	kW			5.2(0.9-6.0)		7.1(0.9-8.3)		
	Heating				6.3(0.9-8.7)		8.0(0.9-10.1)		
Input Power	Cooling/Heating		kW			1.39/1.56		2.08/1.91	
	Cooling					3.74		3.41	
EER	Cooling		W/W			4.04		4.19	
	Heating					5.2/4.8		7.1/7.1	
Pdesign	Cooling/Heating(-10°C)		kW			7.77		7.28	
	Cooling					4.56		4.18	
SEER	Cooling		W/W			A++		A++	
	Heating (Average)					A+		A+	
SCOP	Cooling		A			9.5/13.5		13.5/16.0	
	Heating (Average)					234		341	
Max. Operating Current	Cooling/Heating		kWh/a			1,472		2,372	
	Cooling					1.7		2.7	
Annual Energy Consumption	Cooling		I/h			45/40/35/29		49/40/35/29	
	Heating					46/40/35/29		49/40/35/29	
Moisture Removal	Indoor (Cooling)	H/M/L/Q			50/50		54/52		
	Indoor (Heating)	H/M/L/Q			60/61		65/65		
Sound Pressure Level	Outdoor(Cooling/Heating)	High	dB(A)			65/65		67/66	
	Indoor(Cooling/Heating)	High				980/2,350		1,170/3,240	
Sound Power Level	Indoor(Cooling/Heating)	High			1,020/2,100		1,170/2,820		
	Outdoor(Cooling/Heating)	High			280 × 980 × 240		280 × 980 × 240		
Airflow Rate	Indoor / Outdoor (Cooling)	High	m³/h			12.5		12.5	
	Indoor / Outdoor (Heating)	High				36(79)		42(93)	
Net Dimensions H x W x D	Indoor		mm			6.35 / 12.70		6.35 / 12.70	
	Outdoor					13.8/15.8 to 16.7		13.8/15.8 to 16.7	
Weight	Indoor		kg(lbs)			25(15)		30(15)	
	Outdoor					20		25	
Connection Pipe Diameter (Liquid / Gas)	Cooling		°CDB			-10 to 46		-10 to 46	
	Heating					-15 to 24		-15 to 24	
Drain hose Diameter (I.D./O.D.)	Type (Global Warming Potential)				R32 (675)		R32 (675)		
	Charge		kg(CO2eq-T)		1.02(0.689)		1.32(0.891)		

Optional parts

- Wired Remote Controller: UTY-RNRYZ3, UTY-RLRY
- Simple Remote Controller: UTY-RSRY, UTY-RHRY
- External input and output PCB: UTY-XCSXZ2
- External connect kit: UTY-XWZXZ5
- Communication kit: UTY-TWRXZ2
- Wireless LAN Interface: UTY-TFSXF2

Dimensions

(Unit : mm)



Wall Mounted ECO Range

Compact & Comfort



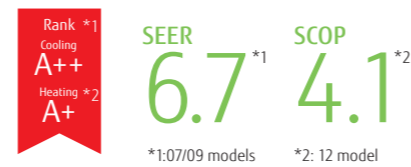
Slim & stylish square design

Slim and stylish square design is realized by high density multi-path heat exchanger and high efficiency wind blower.



High energy saving

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



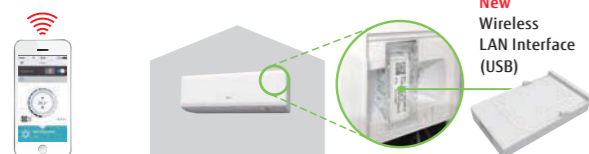
Comfortable airflow & Silent operation

The big louver and the new air blowing structure have attained a comfortable air flow that spreads wider to user's feet and silent operation.

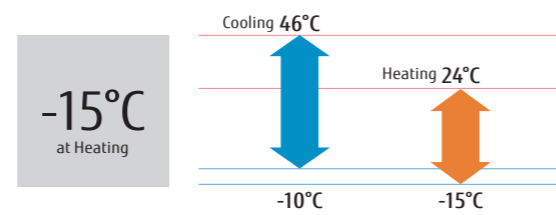


Smart device Control (Option)

This model can be controlled from anywhere using smart device by installing optional wireless LAN interface. Wireless LAN interface can be installed easily without specialized installation work.



Low ambient operation



Model: ASYG07KPCA / ASYG09KPCA / ASYG12KPCA



Wireless R.C.



Specifications

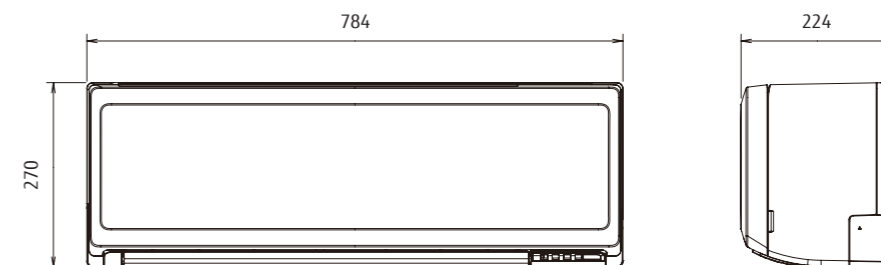
Model No.	Indoor unit		ASYG07KPCA	ASYG09KPCA	ASYG12KPCA
	Outdoor unit		AOYG07KPCA	AOYG09KPCA	AOYG12KPCA
Power Source	Single-phase, ~230V, 50Hz				
Capacity	Cooling	kW	2.0 (0.9-2.8)	2.5 (0.9-3.0)	3.4 (0.9-3.7)
	Heating	kW	2.5 (0.9-3.4)	2.8 (0.9-3.8)	3.8 (0.9-4.8)
Input Power	Cooling/Heating		0.48/0.63	0.71/0.79	1.00/1.14
	Cooling	W/W	4.17	3.52	3.40
COP	Heating		3.97	3.54	3.33
	Cooling/Heating(-10°C)	kW	2.0/2.2	2.5/2.4	3.4/2.5
SEER	Cooling		6.70	6.70	6.30
	Heating (Average)		4.00	4.00	4.10
Energy Efficiency Class	Cooling		A++	A++	A++
	Heating (Average)		A+	A+	A+
Max. Operating Current	Cooling/Heating		6.5/9.0	6.5/9.0	6.5/9.0
	Cooling	kWh/a	104	131	189
Annual Energy Consumption	Heating		769	840	853
	Moisture Removal		l/h	1.3	1.8
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	45/38/31/22	45/38/31/22	46/40/33/22
	Indoor (Heating)	H/M/L/Q	45/40/36/26	45/40/36/26	46/40/35/27
	Outdoor(Cooling/Heating)	High	45/46	47/47	49/51
Sound Power Level	Indoor(Cooling/Heating)	High	57/58	58/58	59/59
	Outdoor(Cooling/Heating)	High	57/58	59/59	62/62
	Airflow Rate	Indoor / Outdoor (Cooling)	High	580/1,650	580/1,650
Net Dimensions H x W x D	Indoor		270x784x224	270x784x224	270x784x224
	Outdoor		541x663x290	541x663x290	541x663x290
	Weight	Indoor	kg(lbs)	8(18)	8(18)
Connection Pipe Diameter (Liquid / Gas)	Indoor		23 (51)	23 (51)	25 (55)
	Outdoor		6.35/9.52	6.35/9.52	6.35/9.52
	Drain hose Diameter (I.D./O.D.)		mm	11.8/15.8 to 16.8	11.8/15.8 to 16.8
Max Pipe Length (Pre-Charge)	Max Pipe Length (Pre-Charge)		m	20 (15)	20 (15)
	Max Height Difference		m	15	15
	Operation Range	Cooling	°CDB	-10 to 46	-10 to 46
Heating		°CDB	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R32 (675)	R32 (675)	R32 (675)
	Charge		kg(CO2eq-T)	0.55 (0.371)	0.55 (0.371)

Optional parts

Wireless LAN Interface: UTY-TFSXF2
Remote Controller Holder: UTZ-RXLA

Dimensions

(Unit : mm)





Wall Mounted ECO Range

Comfort for Large Room



Model: ASYG18KLCA / ASYG24KLCA



Wireless R.C.



For ASYG18KLCA

For ASYG24KLCA

Specifications

Model No.	Indoor unit		ASYG18KLCA	ASYG24KLCA
	Outdoor unit		AOYG18KLTA	AOYG24KLTA
Power Source	Single-phase, ~230V, 50Hz			
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		1.685/1.80	2.42/2.225
	Cooling	W/W	3.09	2.93
COP	Heating		3.50	3.60
	Pdesign	Cooling/Heating(-10°C)		5.20/4.80
SEER		Cooling		7.20
	SCOP	Heating (Average)		4.30
Energy Efficiency Class		Cooling		A++
	Heating (Average)		A+	A+
Max. Operating Current	Cooling/Heating		A	13.5/17.5
	Annual Energy Consumption	Cooling	kWh/a	253
Heating		1563	2485	
Moisture Removal			l/h	3.1
	Indoor (Cooling)	H/M/L/Q		47/44/40/35
Sound Pressure Level	Indoor (Heating)	H/M/L/Q		50/45/41/37
	Outdoor(Cooling/Heating)	High	dB(A)	50/56
Sound Power Level	Indoor(Cooling/Heating)	High		60/65
	Outdoor(Cooling/Heating)	High		61/66
Airflow Rate	Indoor / Outdoor (Cooling)	High	m³/h	865/1,830
	Indoor / Outdoor (Heating)	High		995/2,265
Net Dimensions H x W x D	Indoor		mm	293×790×249
	Outdoor		mm	542×799×290
Weight	Indoor		kg(lbs)	9.5 (21)
	Outdoor		kg(lbs)	33 (73)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52
Drain hose Diameter (I.D./O.D.)				13.8/15.8 to 16.7
Max Pipe Length (Pre-Charge)			m	25 (15)
Max Height Difference				20
Operation Range	Cooling		°CDB	-10 to 46
	Heating			-15 to 24
Refrigerant	Type (Global Warming Potential)			R32(675)
	Charge		kg(CO2eq-T)	0.85(0.574)
				1.10(0.743)

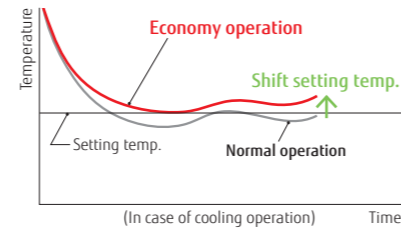
Narrow width & Compact Design

High performance and compact design model. Powerful airflow is realized despite 790 mm width compact design for compact spaces such as bed room or home office.



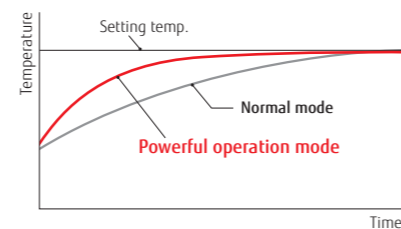
Economy operation

Setting temperature is shifted by 1°C automatically. Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.



Powerful operation

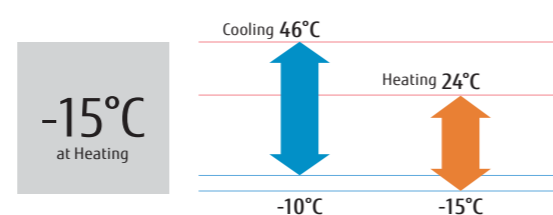
20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.



ON-OFF Programmable timer

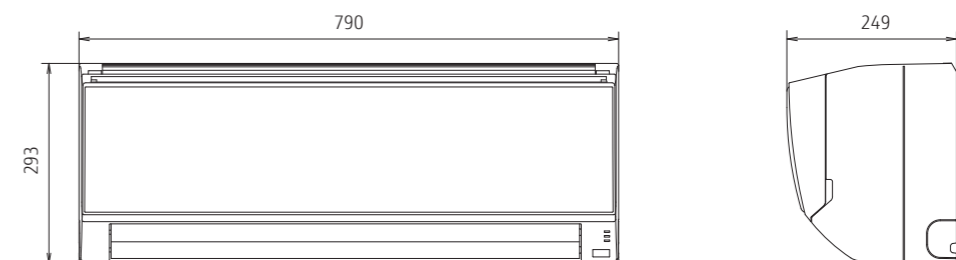
You can set an integrated ON-OFF or OFF-ON timer suitable for your life style. (Setting time: 0.5, 1, 1.5, 2, 2.5, -----9.5, 10, 11, 12 hours)

Low ambient operation



Dimensions

(Unit : mm)



Wall Mounted Designer Range

High Spec & Design

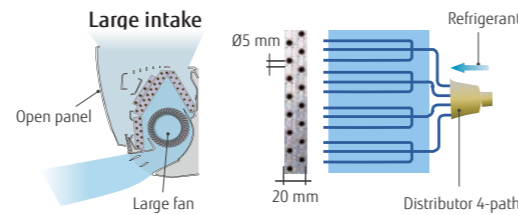


Thin & Slim design

Thin and slim design is realized by high density multi-path heat exchanger and high efficiency wind blower.



Big open panel and High density multi path heat exchanger



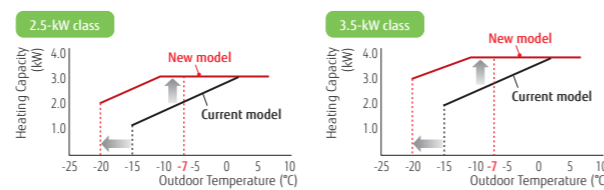
Human sensor

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



Powerful heating

Rated heating capacity is maintained up to an outdoor temperature lower than -7 °C. This new model can operate even at -20 °C low outdoor temperature.

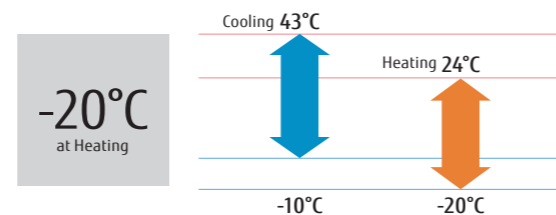


3 Mode timer (Weekly/Program/Sleep)

Weekly timer can be easily set by wireless remote controller. ON, OFF can be set up to 4 times in 1 day and up to 28 times in 1 week. For other modes, program timer and sleep timer can be also selected by one push.



Low ambient operation



Model: ASYG09LTCA / ASYG12LTCA



Specifications

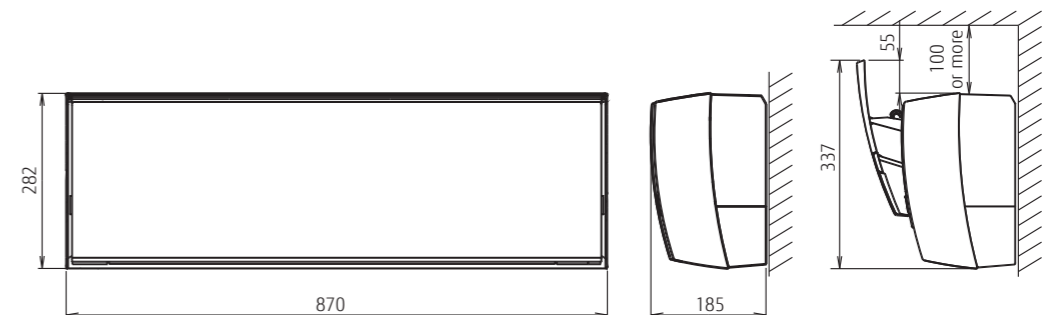
Model No.	Indoor unit		Outdoor unit	
			ASYG09LTCA	ASYG12LTCA
Power Source	Single-phase, ~230V, 50Hz			
Capacity	Cooling	kW	2.5 (0.9-3.5)	3.5 (1.1-4.0)
	Heating	kW	3.2 (0.9-5.4)	4.0 (0.9-6.5)
Input Power	Cooling/Heating		0.505/0.660	0.850/0.910
	Cooling	W/W	4.95	4.12
EER	Heating		4.85	4.40
	Cooling/Heating(-10°C)	kW	2.5/3.0	3.5/4.0
SEER	Cooling		8.50	8.50
	Heating (Average)		4.60	4.60
SCOP	Cooling		A+++	A+++
	Heating (Average)		A++	A++
Max. Operating Current	Cooling/Heating		A	9.0/10.5
	Cooling	kWh/a	103	144
Annual Energy Consumption	Heating		912	1,217
	Moisture Removal		l/h	1.8
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	42/36/32/21	43/37/32/21
	Indoor (Heating)	H/M/L/Q	42/37/32/21	43/38/32/21
Sound Power Level	Outdoor (Cooling/Heating)	High	48/50	48/49
	Indoor (Cooling/Heating)	High	59/61	60/62
Airflow Rate	Outdoor (Cooling/Heating)	High	63/65	64/65
	Indoor / Outdoor (Cooling)	High	800/1,700	850/2,050
Net Dimensions H x W x D	Indoor / Outdoor (Heating)	High	800/1,700	850/2,000
	Indoor	mm	282×870×185	282×870×185
Weight	Outdoor	mm	540×790×290	620×790×290
	Indoor	kg(lbs)	9.5 (21)	9.5 (21)
Connection Pipe Diameter (Liquid / Gas)	Outdoor	kg(lbs)	33 (73)	40 (88)
	Indoor	kg(lbs)	33 (73)	40 (88)
Drain hose Diameter (I.D./O.D.)	mm		6.35/9.52	6.35/9.52
Max Pipe Length (Pre-Charge)	m		13.8/15.8 to 16.7	13.8/15.8 to 16.7
Max Height Difference	m		20 (15)	20 (15)
	°CDB		15	15
Operation Range	Cooling	°CDB	-10 to 43	-10 to 43
	Heating	°CDB	-20 to 24	-20 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	1.05 (2.2)	1.20 (2.5)

Optional parts

- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- Communication kit: UTY-TWBXF2
- Wireless LAN Interface: UTY-TFNXZ1
- External Connect Kit: UTY-XWZXZ5

Dimensions

(Unit : mm)



Wall Mounted Designer Range

High COP



Model: ASYG07LUCA / ASYG09LUCA / ASYG12LUCA / ASYG14LUCA



Specifications

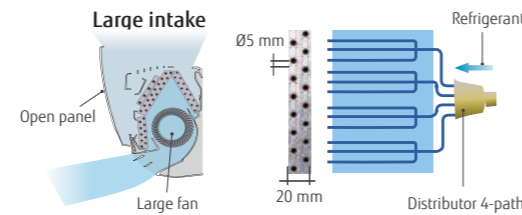
Model No.	Indoor unit		ASYG07LUCA	ASYG09LUCA	ASYG12LUCA	ASYG14LUCA
	Outdoor unit		AOYG07LUCA	AOYG09LUCB	AOYG12LUC	AOYG14LUC
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW	2.0 (0.5-3.0)	2.5 (0.5-3.2)	3.5 (0.9-4.0)	4.2 (0.9-5.0)
	Heating	kW	3.0 (0.5-4.0)	3.2 (0.5-4.2)	4.0 (0.9-5.6)	5.4 (0.9-6.0)
Input Power	Cooling/Heating		0.460/0.740	0.555/0.680	0.905/0.930	1.235/1.380
	Cooling	W/W	4.35	4.50	3.87	3.40
COP	Heating		4.05	4.71	4.30	3.91
	Cooling/Heating(-10°C)	kW	2.0/2.6	2.5/2.8	3.5/3.9	4.2/4.8
SEER	Cooling	W/W	7.20	7.10	7.05	6.78
SCOP	Heating (Average)		4.02	4.10	4.00	4.00
Energy Efficiency Class	Cooling		A++	A++	A++	A++
	Heating (Average)		A+	A+	A+	A+
Max. Operating Current	Cooling/Heating		6.0/7.5	6.0/7.5	6.5/9.0	9.0/10.5
	Cooling	kWh/a	97	123	174	217
Annual Energy Consumption	Heating		887	956	1363	1677
	Moisture Removal		l/h	1.0	1.3	1.8
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	38/35/31/21	42/36/32/21	43/37/32/21	45/40/33/25
	Indoor (Heating)	H/M/L/Q	38/35/31/21	42/37/32/21	43/38/32/21	45/40/34/27
Sound Power Level	Outdoor (Cooling/Heating)	High	46/46	48/48	50/50	50/50
	Indoor (Cooling/Heating)	High	57/59	59/61	60/62	60/64
Airflow Rate	Indoor / Outdoor (Cooling)	High	680/1,720	800/1,720	850/1,940	900/1,940
	Indoor / Outdoor (Heating)	High	710/1,510	800/1,510	850/1,700	950/1,700
Net Dimensions H x W x D	Indoor	mm	282×870×185	282×870×185	282×870×185	282×870×185
	Outdoor	mm	540×660×290	540×660×290	540×790×290	540×790×290
Weight	Indoor	kg(lbs)	9.5 (21)	9.5 (21)	9.5 (21)	9.5 (21)
	Outdoor	kg(lbs)	23 (51)	25 (55)	33 (73)	34 (75)
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.)			13.8/15.8 to 16.7	13.8/15.8 to 16.7	13.8/15.8 to 16.7	13.8/15.8 to 16.7
Max Pipe Length (Pre-Charge)			20 (15)	20 (15)	20 (15)	20 (15)
Max Height Difference			15	15	15	15
	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 43	-10 to 43
Operation Range	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24
	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
Refrigerant Charge	kg(CO2eq-T)		0.70 (1.5)	0.85 (1.8)	1.05 (2.2)	1.05 (2.2)

Thin & Slim design

Thin and slim design is realized by Ø5 mm heat exchanger and high efficiency wind blower.

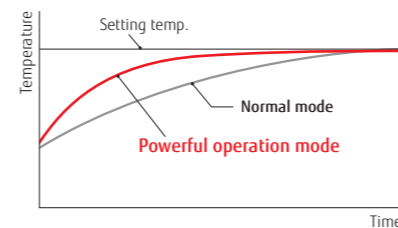


Big open panel and High density multi path heat exchanger



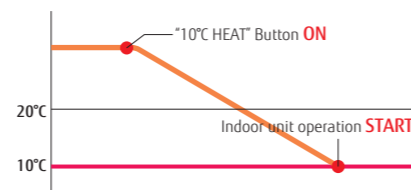
Powerful operation

20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.



10°C HEAT Operation

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. *Only available with Wireless RC.

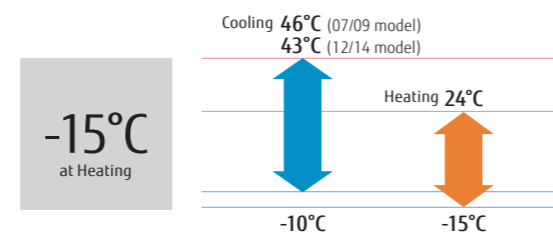


3 Mode timer (Weekly/Program/Sleep)

Weekly timer can be easily set by wireless remote controller. ON, OFF can be set up to 4 times in 1 day and up to 28 times in 1 week. For other modes, program timer and sleep timer can be also selected by one push.



Low ambient operation

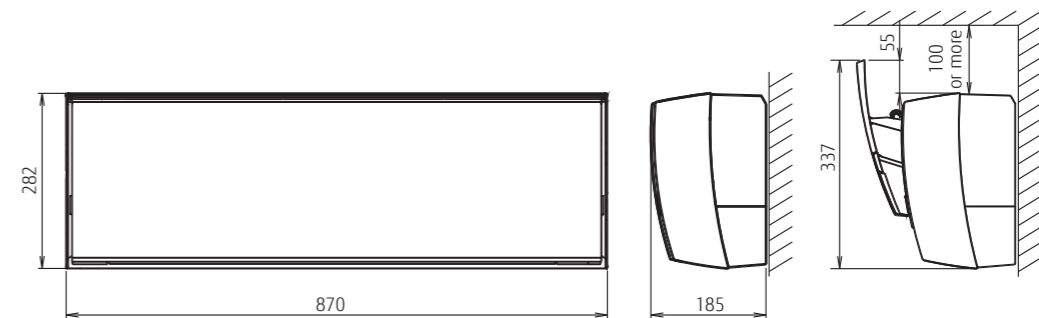


Optional parts

- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- Communication kit: UTY-TWBXF2
- Wireless LAN Interface: UTY-TFNXZ1
- External Connect Kit: UTY-XWZXZ5

Dimensions

(Unit : mm)



Wall Mounted Standard Range

High Efficiency & Comfort



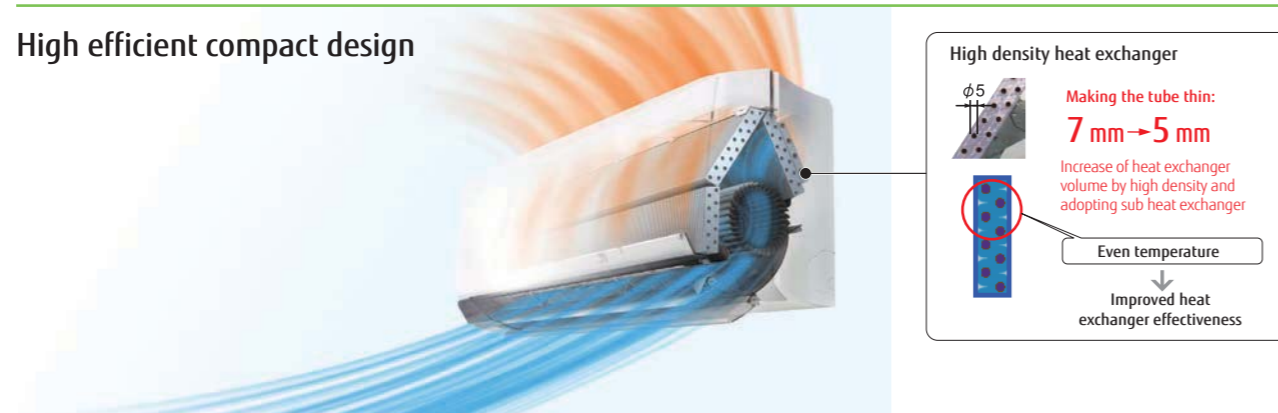
Model: ASYG07LMCE / ASYG09LMCE / ASYG12LMCE / ASYG14LMCE



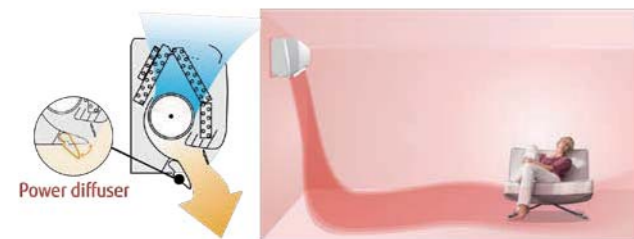
Specifications

Model No.	Indoor unit		ASYG07LMCE	ASYG09LMCE	ASYG12LMCE	ASYG14LMCE
	Outdoor unit		AOYG07LMCE	AOYG09LMCE	AOYG12LMCE	AOYG14LMCE
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW	2.0(0.5-3.0)	2.5(0.5-3.2)	3.4(0.9-3.9)	4.0(0.9-4.4)
	Heating	kW	3.0(0.5-3.4)	3.2(0.5-4.0)	4.0(0.9-5.3)	5.0(0.9-6.0)
Input Power	Cooling/Heating		0.465/0.685	0.65/0.73	0.97/1.02	1.135/1.365
	Cooling	W/W	4.30	3.85	3.50	3.52
EER	Cooling		4.38	4.38	3.92	3.66
	Heating		2.0/2.3	2.5/2.4	3.4/3.5	4.0/3.9
Pdesign	Cooling/Heating(-10°C)		6.80	7.00	7.00	6.90
	Cooling	W/W	4.10	4.10	4.00	4.00
SEER	Cooling		A++	A++	A++	A++
	Heating (Average)		A+	A+	A+	A+
SCOP	Cooling		6.0/7.5	6.0/7.5	6.5/9.0	9.0/10.5
	Heating (Average)		103	125	170	203
Energy Efficiency Class	Cooling		786	820	1,225	1,365
	Heating		1.0	1.3	1.8	2.1
Max. Operating Current	Cooling/Heating		43/40/32/21	43/40/32/21	43/40/32/21	44/40/33/25
	Cooling	kWh/a	43/38/33/22	43/38/33/22	43/38/33/22	44/40/35/27
Annual Energy Consumption	Cooling		45/45	45/45	50/50	50/50
	Heating		59/59	59/59	59/59	60/60
Moisture Removal	Cooling/Heating		58/56	58/56	61/61	65/65
	Indoor (Cooling)	H/M/L/Q	750/1,670	750/1,670	750/1,830	770/1,940
Sound Pressure Level	Indoor (Heating)	H/M/L/Q	750/1,470	750/1,470	750/1,600	770/1,700
	Outdoor (Cooling/Heating)	High	45/45	45/45	50/50	50/50
Sound Power Level	Indoor (Cooling/Heating)	High	59/59	59/59	59/59	60/60
	Outdoor (Cooling/Heating)	High	58/56	58/56	61/61	65/65
Airflow Rate	Indoor / Outdoor (Cooling)	High	750/1,670	750/1,670	750/1,830	770/1,940
	Indoor / Outdoor (Heating)	High	750/1,470	750/1,470	750/1,600	770/1,700
Net Dimensions H x W x D	Indoor	mm	270×870×204	270×870×204	270×870×204	270×870×204
	Outdoor	mm	535×663×293	535×663×293	535×663×293	540×790×290
Weight	Indoor	kg(lbs)	8.5(19)	8.5(19)	8.5(19)	8.5(19)
	Outdoor	kg(lbs)	21(46)	21(46)	26(57)	34(75)
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.)			13.8/15.8 to 16.7	13.8/15.8 to 16.7	13.8/15.8 to 16.7	13.8/15.8 to 16.7
Max Pipe Length (Pre-Charge)			20(15)	20(15)	20(15)	20(15)
Max Height Difference			15	15	15	15
	Cooling	°CDB	-10 to 43	-10 to 43	-10 to 43	-10 to 43
Operation Range			-15 to 24	-15 to 24	-15 to 24	-15 to 24
	Heating					
Refrigerant	Type (Global Warming Potential)		R410A(2,088)	R410A(2,088)	R410A(2,088)	R410A(2,088)
	Charge	kg(CO2eq-T)	0.70 (1.5)	0.70 (1.5)	0.85 (1.8)	1.05 (2.2)

High efficient compact design



More comfort airflow



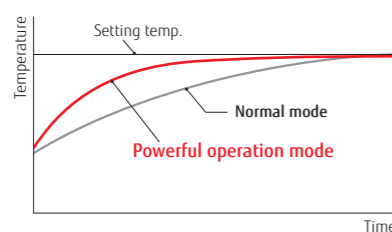
Vertical airflow provides powerful floor level heating



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

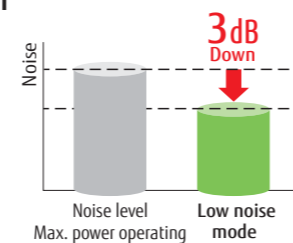
Powerful operation

20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.



Low noise mode for outdoor unit

Low noise mode of outdoor unit can be selected by wireless remote controller.

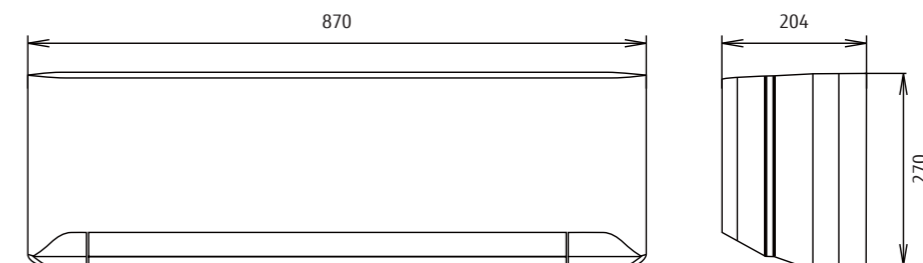


Optional parts

- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- Communication kit: UTY-XCBXZ2
- Wireless LAN Interface: UTY-TFNXZ1
- External Connect kit: UTY-XWZXZ5

Dimensions

(Unit : mm)

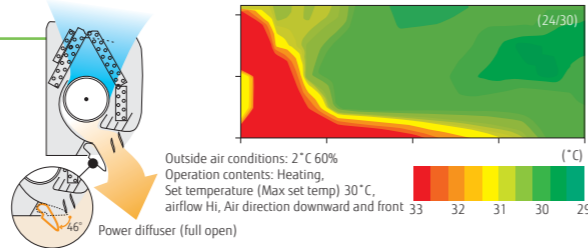


Wall Mounted Standard Range

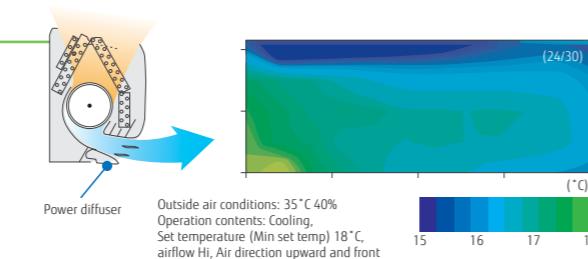
Comfort for Large Room



"Vertical airflow" provides powerful floor level heating



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



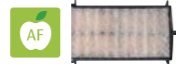
Air conditioner filter features

Using different filters at both sides



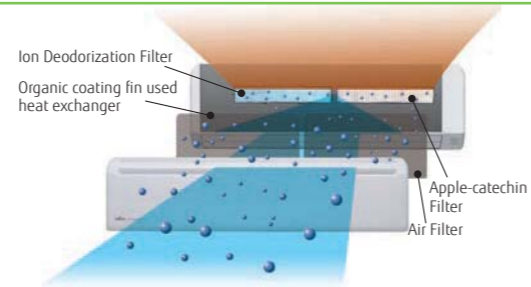
Ion Deodorization Filter

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



Apple-catechin Filter

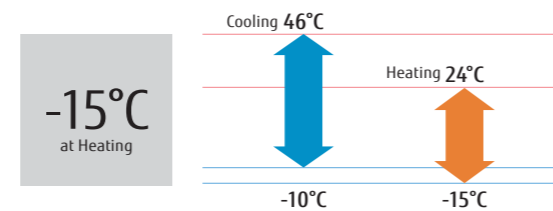
The Apple-catechin filter uses static electricity to clean fine particles and dust in the air.



Flexible Installation

	18 model	24 model	30 model
Max. Piping Length	25 m	30 m	50 m
Max. Height	20 m	20 m	30 m

Low ambient operation



Model: ASYG18LFCA / ASYG24LFCC / ASYG30LFCA



Specifications

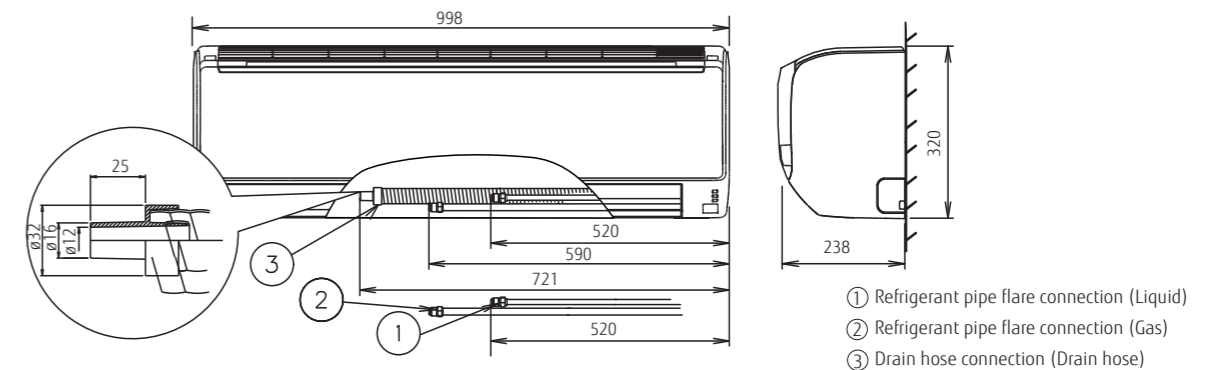
Model No.	Indoor unit		ASYG18LFCA	ASYG24LFCC	ASYG30LFCA
	Outdoor unit		AOYG18LFC	AOYG24LFCC	AOYG30LFT
Power Source	Single-phase, ~230V, 50Hz				
Capacity	Cooling	kW	5.2 (0.9-6.0)	7.1 (0.9-8.0)	8.0 (2.9-9.0)
	Heating	kW	6.3 (0.9-9.1)	8.0 (0.9-10.6)	8.8 (2.2-11.0)
Input Power	Cooling/Heating		1.52/1.71	2.20/2.21	2.49/2.44
	Cooling	W/W	3.42	3.23	3.21
EER	Cooling		3.42	3.23	3.21
	Heating		3.68	3.61	3.61
COP	Cooling/Heating(-10°C)		5.2/5.9	7.1/7.1	8.0/8.0
	Cooling		6.94	6.11	5.69
Pdesign	Cooling		6.94	6.11	5.69
	Heating (Average)		3.87	3.80	3.80
SEER	Cooling		6.94	6.11	5.69
	Heating (Average)		3.87	3.80	3.80
SCOP	Cooling		A++	A++	A+
	Heating (Average)		A	A	A
Energy Efficiency Class	Cooling		A++	A++	A+
	Heating (Average)		A	A	A
Max. Operating Current	Cooling/Heating		9.0/12.5	13.5/18.5	17.0/19.0
	Cooling	A	9.0/12.5	13.5/18.5	17.0/19.0
Annual Energy Consumption	Cooling	kWh/a	262	406	492
	Heating	kWh/a	2,130	2,610	2,941
Moisture Removal	Cooling		2.6	2.7	3.2
	Heating		2.6	2.7	3.2
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	43/37/33/26	49/42/37/32	48/42/37/33
	Indoor (Heating)	H/M/L/Q	42/37/33/25	48/42/37/32	49/42/37/33
Sound Power Level	Outdoor (Cooling/Heating)	High	50/51	55/56	53/56
	Indoor (Cooling/Heating)	High	58/58	64/64	64/64
Airflow Rate	Indoor / Outdoor (Cooling)	High	900/2,150	1,120/2,460	1,100/3,600
	Indoor / Outdoor (Heating)	High	900/2,070	1,120/2,340	1,150/3,600
Net Dimensions H x W x D	Indoor	mm	320×998×238	320×998×238	320×998×238
	Outdoor	mm	620×790×290	620×790×290	830×900×330
Weight	Indoor	kg(lbs)	14 (31)	14 (31)	14 (31)
	Outdoor	kg(lbs)	41 (90)	41 (90)	61 (135)
Connection Pipe Diameter (Liquid / Gas)	mm		6.35/12.70	6.35/15.88	9.52/15.88
	mm		12/16	12/16	12/16
Drain hose Diameter (I.D./O.D.)	mm		12/16	12/16	12/16
	mm		12/16	12/16	12/16
Max Pipe Length (Pre-Charge)	m		25 (15)	30 (15)	50 (20)
	m		20	30	30
Max Height Difference	m		20	30	30
	m		20	30	30
Operation Range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46
	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	1.20 (2.5)	1.80 (3.8)	2.1 (4.4)

Optional parts

- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- Wireless LAN Interface: UTY-TFNXZ1
- External Connect Kit: UTY-XWZX

Dimensions

(Unit : mm)



Wall Mounted Standard Range Comfort for Large Room



Large Capacity & Powerful airflow

Achieved large capacity and powerful airflow by large heat exchanger, long cross-flow fan, high output DC fan motor and new airflow structure design.



Human sensor

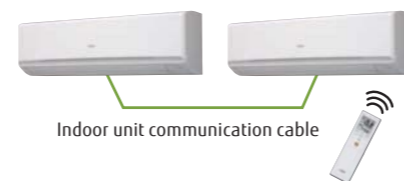
Human sensor catches movements of people in a room, and operates with lower capacity when people leave the room. When people come back to the room, it automatically returns to previous operating mode.



Server room function*

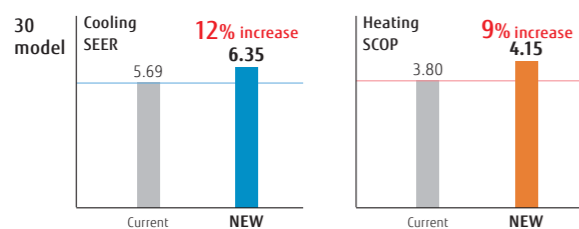
The following interlock operation is possible by connecting 2 indoor units with a cable. Cooling operation can be performed even in the low outdoor temperature and low humidity environment.

- **Alternative operation:** Two units operate alternately
- **Backup operation:** When 1 unit breaks down, the other unit starts operating automatically.
- **Supporting operation:** Both units operate simultaneously when the loaded capacity is not enough with one unit

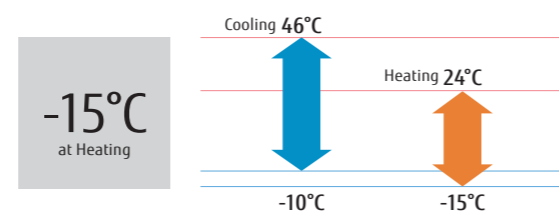


*2 x UTY-XWNX of optional parts are required.

High seasonal energy efficiency



Low ambient operation



Model: ASYG30LMTA / ASYG36LMTA



Wireless R.C.



Specifications

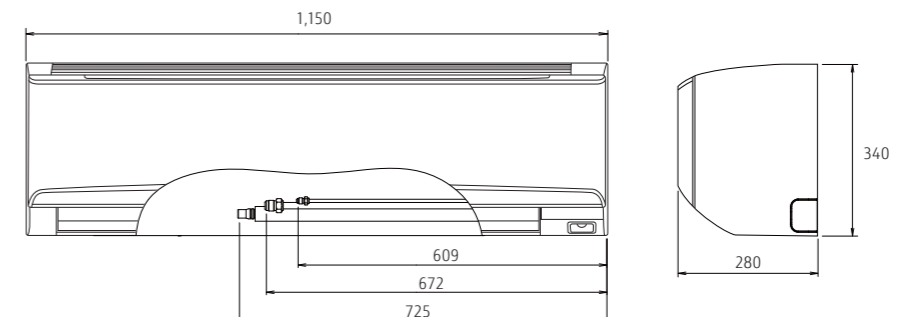
Model No.	Indoor unit		Outdoor unit		ASYG30LMTA		ASYG36LMTA	
	AOYG30LMTA		AOYG36LMTA					
Power Source	Single-phase, ~230V, 50Hz							
Capacity	Cooling	kW	8.0 (2.9-9.0)		9.4 (2.9-10.0)			
	Heating	kW	8.8 (2.2-11.0)		10.1 (2.7-11.2)			
Input Power	Cooling/Heating		2.33/2.41		3.16/2.96			
	EER		3.43		2.97			
COP	Cooling		3.65		3.41			
	Heating		8.0/6.5		9.4/7.1			
Pdesign	Cooling/Heating(-10°C)		6.35		5.73			
SEER	Cooling		4.15		4.19			
SCOP	Heating (Average)		A++		A+			
Energy Efficiency Class	Cooling		A+		A+			
	Heating (Average)		14.5/14.5		19.0/19.0			
Max. Operating Current	Cooling/Heating		A		A			
	Annual Energy Consumption	Cooling	kWh/a	441		575		
Heating		kWh/a	2,193		2,373			
Moisture Removal			2.7		3.7			
	Indoor (Cooling)	H/M/L/Q	50/44/38/31		50/44/38/31			
Sound Pressure Level	Indoor (Heating)	H/M/L/Q	49/44/39/33		49/44/39/33			
	Outdoor (Cooling/Heating)	High	52/55		55/56			
Sound Power Level	Indoor (Cooling/Heating)	High	65/65		65/65			
	Outdoor (Cooling/Heating)	High	67/68		68/70			
Airflow Rate	Indoor / Outdoor (Cooling)	High	1,380/3,600		1,380/3,800			
	Indoor / Outdoor (Heating)	High	1,380/3,600		1,380/3,800			
Net Dimensions H x W x D	Indoor	mm	340×1,150×280		340×1,150×280			
	Outdoor	mm	830×900×330		830×900×330			
Weight	Indoor	kg(lbs)	18 (40)		18 (40)			
	Outdoor	kg(lbs)	61 (134)		61 (134)			
Connection Pipe Diameter (Liquid / Gas)			9.52/15.88		9.52/15.88			
Drain hose Diameter (I.D./O.D.)			13.8 / 15.8 to 16.7		13.8 / 15.8 to 16.7			
Max Pipe Length (Pre-Charge)			50 (20)		50 (20)			
Max Height Difference			30		30			
Operation Range	Cooling	°CDB	-15 to 46		-15 to 46			
	Heating	°CDB	-15 to 24		-15 to 24			
Refrigerant	Type (Global Warming Potential)		R410A (2,088)		R410A (2,088)			
	Charge	kg(CO2eq-T)	2.10 (4.4)		2.10 (4.4)			

Optional parts

- Wired Remote Controller: UTY-RNRYZ3, UTY-RVNYM, UTY-RLRY, UTY-RNNYM
- Simple Remote Controller: UTY-RSRY, UTY-RSNYM, UTY-RSRY
- Communication kit: UTY-TWRX, UTY-XWNX
- External input and output PCB (with box): UTY-XCSXZ2 + UTZ-GXXB
- Wireless LAN Interface: UTY-TFNXZ1
- External Connect Kit: UTY-XWZX

Dimensions

(Unit : mm)



Wall Mounted ECO Range Compact & Comfort



Model: ASYG07LLCE / ASYG09LLCE / ASYG12LLCE



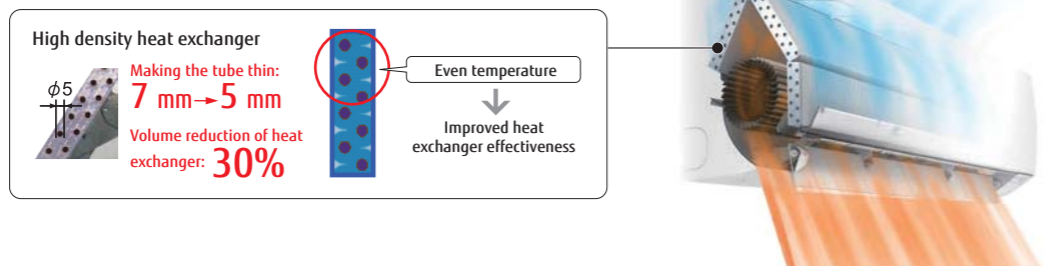
Wireless R.C.



Specifications

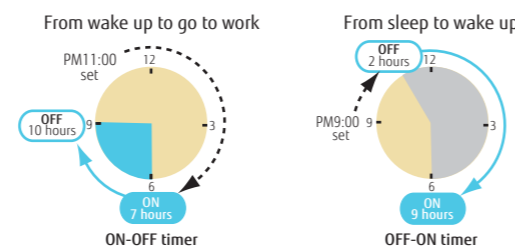
Model No.	Indoor unit		ASYG07LLCE	ASYG09LLCE	ASYG12LLCE
	Outdoor unit		AOYG07LLCE	AOYG09LLCE	AOYG12LLCE
Power Source	Single-phase, ~230V, 50Hz				
Capacity	Cooling	kW	2.0(0.9-2.8)	2.5(0.9-3.0)	3.4(0.9-3.8)
	Heating	kW	2.7(0.9-3.6)	3.0(0.9-3.8)	4.0(0.9-5.0)
Input Power	Cooling/Heating		0.470/0.620	0.730/0.740	1.080/1.130
	Cooling	W/W	4.26	3.42	3.15
EER	Cooling		4.26	3.42	3.15
	Heating		4.35	4.05	3.54
Pdesign	Cooling/Heating(-10°C)		2.0/2.2	2.5/2.3	3.4/3.2
	Cooling	W/W	6.70	6.90	6.60
SEER	Cooling		6.70	6.90	6.60
	Heating (Average)		4.00	4.00	3.80
SCOP	Cooling		A++	A++	A++
	Heating (Average)		A+	A+	A
Max. Operating Current	Cooling/Heating		6.0/7.5	6.0/7.5	6.5/9.0
	Cooling	A	6.0/7.5	6.0/7.5	6.5/9.0
Annual Energy Consumption	Cooling	kWh/a	104	127	180
	Heating	kWh/a	770	805	1,179
Moisture Removal			l/h	1.3	1.8
	Indoor (Cooling)	H/M/L/Q	43/38/33/22	43/38/33/22	43/38/33/22
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	43/38/33/22	43/38/33/22	43/38/33/22
	Indoor (Heating)	H/M/L/Q	43/38/33/22	43/38/33/22	43/38/33/22
Sound Power Level	Outdoor(Cooling/Heating)	High	47/48	47/48	50/51
	Indoor(Cooling/Heating)	High	59/60	59/60	59/60
Airflow Rate	Indoor / Outdoor (Cooling)	High	720/1,670	720/1,670	720/1,830
	Indoor / Outdoor (Heating)	High	740/1,470	740/1,470	740/1,600
Net Dimensions H x W x D	Indoor	mm	262×820×206	262×820×206	262×820×206
	Outdoor	mm	535×663×293	535×663×293	535×663×293
Weight	Indoor	kg(lbs)	7.0 (15)	7.0 (15)	7.0 (15)
	Outdoor	kg(lbs)	24 (53)	24 (53)	26 (57)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/9.52
Drain hose Diameter (I.D./O.D.)			mm	13.8/15.8 to 16.7	13.8/15.8 to 16.7
Max Pipe Length (Pre-Charge)			m	20(15)	20(15)
Max Height Difference			m	15	15
	Cooling	°CDB		-10 to 43	-10 to 43
Operation Range			°CDB	-15 to 24	-15 to 24
	Heating	°CDB		-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A(2,088)	R410A(2,088)
	Charge		kg (CO2eq-T)	0.65(1.4)	0.65(1.4)

High efficient compact design



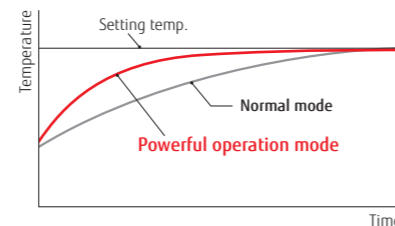
ON-OFF Programmable timer

You can set an integrated ON-OFF or OFF-ON timer suitable for your life style. (Setting time: 0.5, 1, 1.5, 2, 2.5, -----9.5, 10, 11, 12 hours)



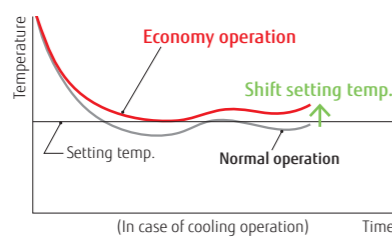
Powerful operation

20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.

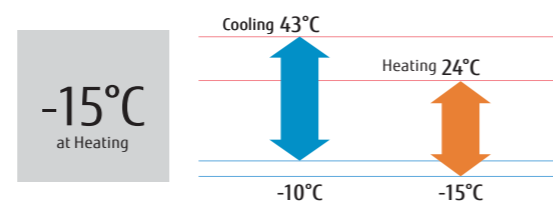


Economy operation

Setting temp. is shifted by 1°C automatically.



Low ambient operation

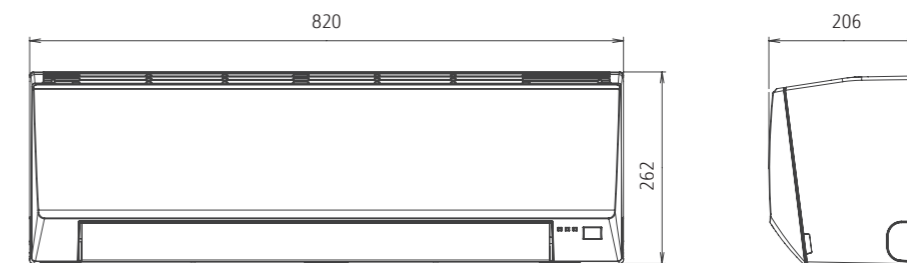


Optional parts

Remote Controller Holder: UTZ-RXLA

Dimensions

(Unit : mm)



Compact Cassette

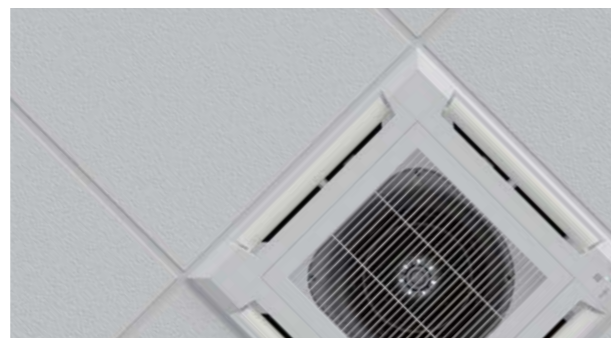
4-way Flow

Compact & Comfort



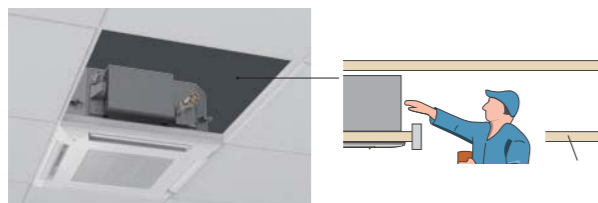
Compact and stylish panel design

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



Easy maintenance

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



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

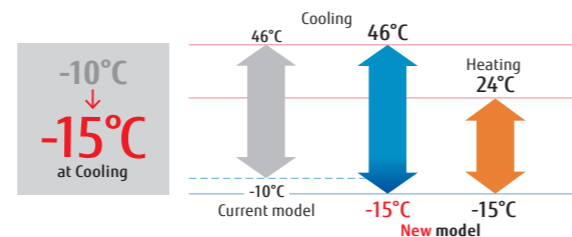


Flexible installation

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



Low ambient operation



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



Specifications

Model No.	Indoor unit		AUXG09KVLA	AUXG12KVLA	AUXG14KVLA	AUXG18KVLA	AUXG22KVLA	AUXG24KVLA
	Outdoor unit		AOYG09KBTB	AOYG12KBTB	AOYG14KBTB	AOYG18KBTB	AOYG22KBTB	AOYG24KBTB
Power Source	Single-phase, ~230V, 50Hz							
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	kW	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	W/W	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)	W/W	4.40	4.30	4.40	4.20	4.30	4.00
Energy Efficiency Class	Cooling		A++	A++	A++	A++	A++	A++
	Heating (Average)		A+	A+	A+	A+	A+	A+
Max. Operating Current	Cooling/Heating	A	7.9	9.7	10.2	12.1	12.6	13.6
	Cooling	kWh/a	131	186	231	275	318	390
Annual Energy Consumption	Heating	kWh/a	826	1,106	1,208	1,466	1,562	2,097
	Moisture Removal	l/h	0.6	1.2	1.5	2.2	2.6	2.7
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	33/31/29/27	37/34/30/27	38/34/30/27	38/34/30/26	44/42/36/30	49/44/36/30
	Indoor (Heating)	H/M/L/Q	34/32/29/27	37/34/31/29	43/38/34/30	43/38/34/30	45/43/40/33	49/45/40/33
	Outdoor (Cooling/Heating)	High	46/46	47/47	49/49	50/50	51/51	53/54
Sound Power Level	Indoor (Cooling/Heating)	High	46/47	49/49	50/55	50/55	56/57	59/61
	Outdoor (Cooling/Heating)	High	59/59	61/61	62/62	62/62	63/63	65/66
	Airflow Rate	Indoor / Outdoor (Cooling)	High	540/1,480	600/1,580	680/1,670	680/2,160	830/2,240
Net Dimensions H x W x D	Indoor	mm	245x570x570	245x570x570	245x570x570	245x570x570	245x570x570	245x570x570
	Outdoor	mm	542x799x290	542x799x290	542x799x290	632x799x290	632x799x290	716x820x315
Weight	Indoor	kg (lbs)	15 (33)	15 (33)	15 (33)	15 (33)	16 (35)	16 (35)
	Outdoor	kg (lbs)	32 (71)	33 (73)	33 (73)	36 (79)	38 (84)	42 (93)
Connection Pipe Diameter (Liquid / Gas)	mm	6.35/9.53	6.35/9.53	6.35/9.53	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 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating	°CDB	-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(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)
Cassette Grille	Model name		UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W	UTG-UFYF-W
	Dimensions (H x W x D)	mm	49x620x620	49x620x620	49x620x620	49x620x620	49x620x620	49x620x620
Weight	kg (lbs)	2.3 (5.1)	2.3 (5.1)	2.3 (5.1)	2.3 (5.1)	2.3 (5.1)	2.3 (5.1)	

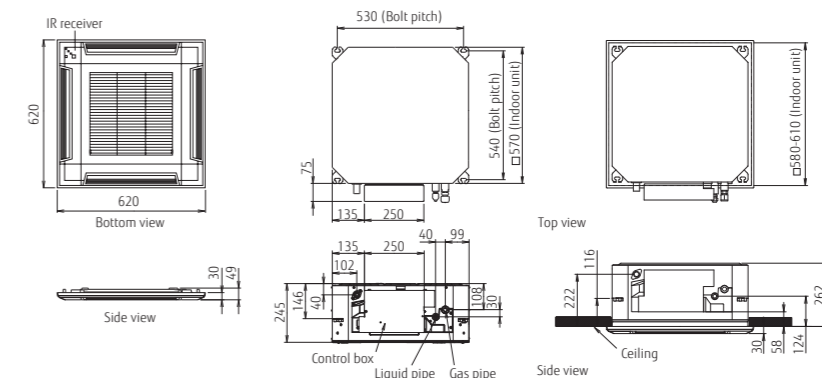
Optional parts

- Wireless Remote Controller: UTY-LNTY
- Wired Remote Controller: UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM, UTY-RNNYM
- Simple Remote Controller: UTY-RSRY, UTY-RHRY, UTY-RSNYM
- Wireless LAN Interface: UTY-TFSX21
- Cassette Grille: UTG-UFYF-W
- Fresh Air Intake Kit: UTZ-VXAA
- Air Outlet Shutter Plate: UTR-YDZB
- Insulation for High Humidity: UTZ-KXGC
- External Input and Output PCB (with box): UTY-XCSX+UTZ-GXRA
- External Connect Kit: UTY-XWZXZG



Dimensions

(Unit : mm)



Compact Cassette

4-way Flow

Compact & Comfort



Model : AUYG12LVLB / AUYG14LVLB / AUYG18LVLB / AUYG24LVLA



Wireless R.C.



For AUYG12/14LVLB



For AUYG18LVLB



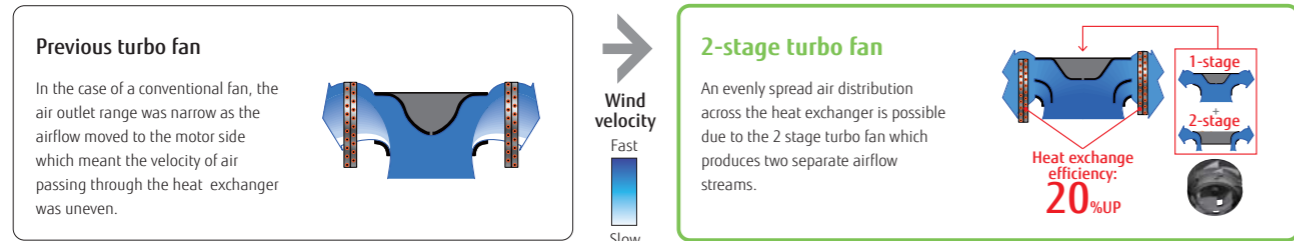
For AUYG24LVLA

Specifications

Model No.	Indoor unit		AUYG12LVLB	AUYG14LVLB	AUYG18LVLB	AUYG24LVLA
	Outdoor unit		AOYG12LALL	AOYG14LALL	AOYG18LBCB	AOYG24LBCB
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)	6.8 (0.9-8.0)
	Heating	kW	4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)	8.0 (0.9-9.1)
Input Power	Cooling/Heating	kW	1.05/1.11	1.33/1.34	1.62/1.66	2.21/2.26
EER	Cooling	W/W	3.33	3.21	3.21	3.08
	Heating	W/W	3.69	3.71	3.61	3.54
Pdesign	Cooling/Heating(-10°C)	kW	3.5/4.2	4.3/4.5	5.2/5.2	6.8/6.0
SEER	Cooling	W/W	6.20	6.40	6.20	5.60
SCOP	Heating (Average)	W/W	4.10	4.40	4.20	3.90
Energy Efficiency Class	Cooling		A++	A++	A++	A+
	Heating (Average)		A+	A+	A+	A
Max. Operating Current	Cooling/Heating	A	7.5/10.0	9.0/12.5	11.5/13.5	14.7/15.7
Annual Energy Consumption	Cooling	kWh/a	198	235	293	425
	Heating	kWh/a	1,431	1,432	1,731	2,151
Moisture Removal		l/h	1.2	1.5	2.2	2.7
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	37/34/30/27	38/34/30/27	38/34/30/26	49/44/36/30
	Indoor (Heating)	H/M/L/Q	37/34/31/29	43/38/34/30	43/38/34/30	49/45/40/33
	Outdoor(Cooling/Heating)	High	47/48	49/49	50/50	53/54
Sound Power Level	Indoor(Cooling/Heating)	High	49/49	50/55	50/55	59/61
	Outdoor(Cooling/Heating)	High	61/63	62/64	62/65	66/66
	Indoor / Outdoor (Cooling)	High	600/1,780	680/1,910	680/2,380	930/2,850
Airflow Rate	Indoor / Outdoor (Heating)	High	600/1,630	800/1,740	800/2,080	930/2,700
Net Dimensions H x W x D	Indoor	mm	245×570×570	245×570×570	245×570×570	245×570×570
	Outdoor	mm	578×790×300	578×790×300	632×799×290	716×820×315
Weight	Indoor	kg (lbs)	15 (33)	15 (33)	15 (33)	16 (35)
	Outdoor	kg (lbs)	40 (88)	40 (88)	36 (79)	42 (95)
Connection Pipe Diameter (Liquid / Gas)		mm	6.35/9.52	6.35/12.70	6.35/12.70	6.35/15.88
Drain hose Diameter (I.D./O.D.)		mm	25/32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)		m	25 (15)	25 (15)	25 (15)	30 (15)
Max Height Difference			15	15	15	20
Operation 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)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	1.15 (2.4)	1.25 (2.6)	1.20 (2.5)	1.50 (3.1)
Cassette Grille	Model name		UTG-UFYD-W	UTG-UFYD-W	UTG-UFYD-W	UTG-UFYD-W
	Dimensions (H x W x D)	mm	49×700×700	49×700×700	49×700×700	49×700×700
	Weight	kg (lbs)	2.6 (6)	2.6 (6)	2.6 (6)	2.6 (6)

2-stage turbo fan

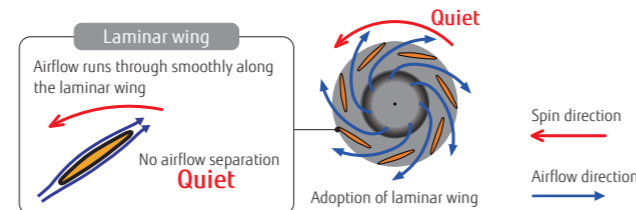
High efficiency design by 2 stage structure



Quiet quality

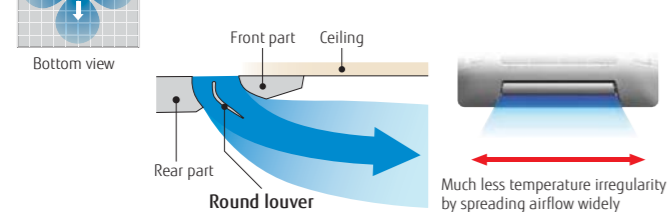
Optimized wing form (laminar wing type) and wing number (7 blades each)

Designed by CFD-analysis (fluid) simulations

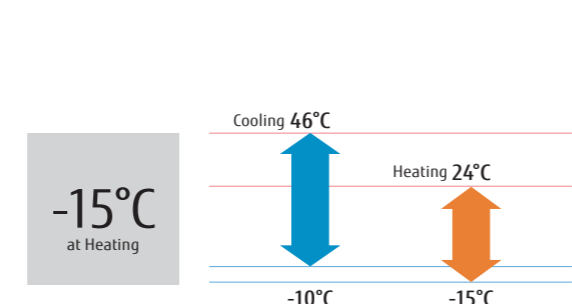


Improvement of the airflow distribution

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



Low ambient operation



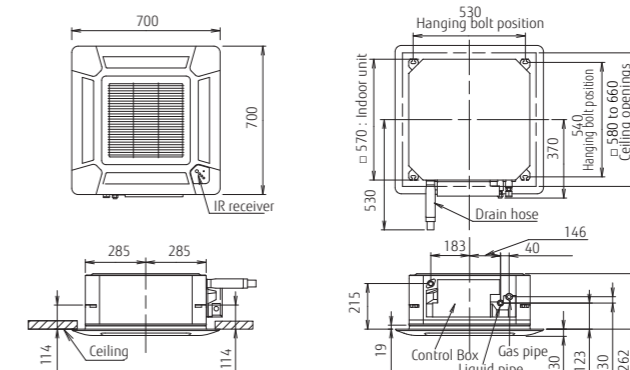
Optional parts

- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- Insulation Kit For High Humidity: UTZ-KXGC
- Fresh Air Intake Kit: UTZ-VXAA
- Air Outlet Shutter Plate: UTR-YDZB
- Wireless LAN Interface: UTY-TFNXZ1
- External Connect Kit: UTY-XWZX
- Cassette Grille: UTG-UFYD-W



Dimensions

(Unit : mm)



Cassette Circular Flow

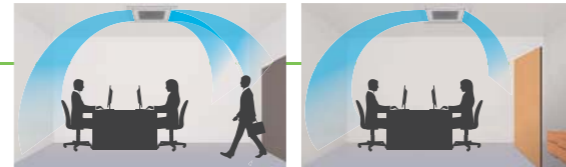
Comfort for Large Room

UTG-UKYA-B
Black Color Grille



Unique Circular Flow design

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



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

Efficient air conditioning based on the room layout

Individual louver control

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

*Touch Panel Wired RC (UTY-RNRYZ3)only

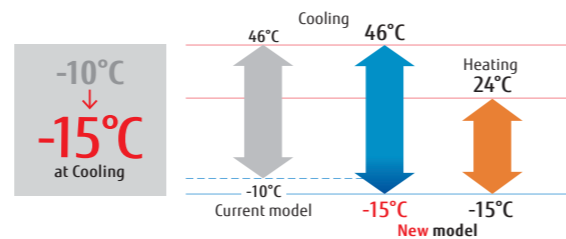
Human sensor increases more energy saving
Energy saving operation starts automatically by detecting the motion of a person. 2 modes of save operation mode and stop mode can be selected.

Compact and lightweight outdoor unit

45 model outdoor unit was changed completely. Easier installation was realized by compact and lightweight outdoor unit.



Low ambient operation



Various Cassette Grille

Both, black and white color grilles are available. There are three types: white color grille with Remote Controller, only white color grille and only black color grille. Selectable according to the atmosphere and/or usage of the room.



Model: AUXG18KRLB / AUXG22KRLB / AUXG24KRLB / AUXG30KRLB / AUXG36KRLB / AUXG45KRLB / AUXG54KRLB



Specifications

Model No.	Indoor unit		AUXG18KRLB	AUXG22KRLB	AUXG24KRLB	AUXG30KRLB	AUXG36KRLB	AUXG45KRLB	AUXG54KRLB
	Outdoor unit		AOYG18KBTB	AOYG22KBTB	AOYG24KBTB	AOYG30KBTB	AOYG36KBTB	AOYG45KBTB	AOYG54KBTB
Power Source	Single-phase, ~230V, 50Hz								
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)
	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)
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
EER	Cooling	W/W	3.82	3.51	3.60	3.49	3.26	3.35	3.04
COP	Heating		3.80	3.85	3.95	3.98	4.40	4.20	3.73
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	-	-
SEER	Cooling	W/W	7.00	7.00	6.60	6.70	6.55	-	-
SCOP	Heating (Average)		4.30	4.40	4.20	4.30	4.30	-	-
Energy Efficiency Class	Cooling	A	A++	A++	A++	A++	A++	-	-
	Heating (Average)		A+	A+	A+	A+	A+	-	-
Max. Operating Current	Cooling/Heating	A	12.1	12.6	13.6	22.6	22.6	28.5	28.5
	Cooling		260	300	360	444	507	-	-
Annual Energy Consumption	Cooling	kWh/a	1,431	1,527	1,999	2,601	2,828	-	-
	Heating		1.5	2.2	2.7	2.5	3.3	4.5	5.0
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
	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
Sound Pressure Level	Outdoor(Cooling/Heating)	High	50/50	51/51	53/54	53/55	55/55	57/57	57/59
	Indoor(Cooling/Heating)		47/47	49/49	49/49	54/54	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
	Indoor / Outdoor (Cooling)		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
Airflow Rate	Indoor / Outdoor (Heating)	High	1,050/1,830	1,050/1,960	1,150/2,700	1,600/3,750	1,870/3,750	2,000/4,450	2,100/4,450
	Indoor / Outdoor (Cooling)		246x840x840	246x840x840	246x840x840	288x840x840	288x840x840	288x840x840	288x840x840
Net Dimensions H x W x D	Indoor	mm	632x799x290	632x799x290	716x820x315	788x940x320	788x940x320	998x940x320	998x940x320
	Outdoor		23 (51)	23 (51)	24 (53)	26 (57)	29 (64)	29 (64)	29 (64)
Weight	Indoor	kg(lbs)	36 (79)	38 (84)	42 (93)	52 (115)	52 (115)	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
Connection Pipe Diameter (Liquid / Gas)	Indoor	mm	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)
Max Pipe Length (Pre-Charge)	Indoor	m	20	25	25	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
Operation Range	Cooling	°CDB	-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)
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)
	Charge		UTG-UKYA-W: White Color with touch panel wired remote controller UTG-UKYC-W: White Color / UTG-UKYA-B*1: Black Color						
Cassette Grille	Variation	mm	53x950x950	53x950x950	53x950x950	53x950x950	53x950x950	53x950x950	53x950x950
	Dimensions (H x W x D)		kg(lbs)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)
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)
	Outdoor		*1: IR Receiver kit and human sensor kit cannot be connected.						

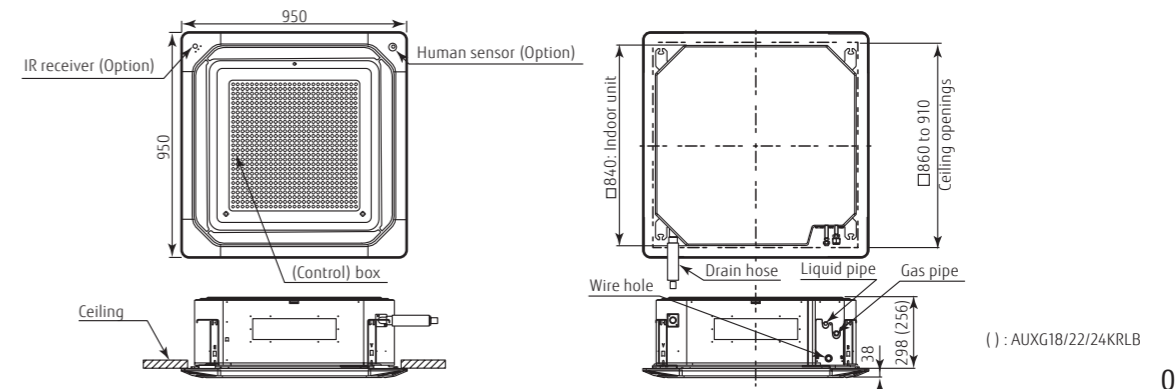
Optional parts

- Wired Remote Controller: UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM, UTY-RNNYM
- Simple Remote Controller: UTY-RSRY, UTY-RHRY, UTY-RSNYM
- IR Receiver Kit: UTY-LBTYC
- Wireless LAN Interface: UTY-TFSXZ1
- Human Sensor Kit: UTY-SHZXC
- Cassette Grille: UTG-UKYA-W, UTG-UKYC-W, UTG-UKYA-B
- Wide Panel: UTY-RNNYM
- Fresh Air Intake Kit: UTY-LBTYC
- Air Outlet Shutter Plate: UTY-TFSXZ1
- Insulation Kit for High Humidity: UTY-SHZXC
- External Input and Output PCB (with box): UTY-XCSX + UTZ-GXRA
- External Connect Kit: UTY-XWZXCZG
- UTG-AKXA-W
- UTG-BKXA-W
- UTZ-VXRA
- UTR-YDZK
- UTZ-KXRA
- UTY-XCSX + UTZ-GXRA
- UTY-XWZXCZG



Dimensions

(Unit : mm)



() : AUXG18/22/24KRLB

Cassette Circular Flow Comfort for Large Room



Unique Circular Flow design

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



Individual louver control

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

*Touch Panel Wired RC (UTY-RNRYZ3) only



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

Efficient air conditioning based on the room layout

Human sensor increases more energy saving

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

Human sensor (Option)

2 modes can be selected.

- Auto saving** Power is saved while people are away.
- Auto OFF** Operation stops after people go out.

*Touch Panel Wired RC (UTY-RNRYZ3) only

Various Cassette Grille

Both, black and white color grilles are available. There are three types: white color grille with Remote Controller, only white color grille and only black color grille. Selectable according to the atmosphere and/or usage of the room.



Model: AUXG18LRLB / AUXG24LRLB
AUXG30LRLB / AUXG36LRLB / AUXG45LRLB / AUXG54LRLB



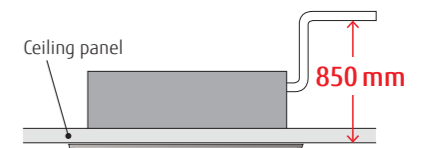
Specifications

Model No.	Indoor unit		AUXG18LRLB	AUXG24LRLB	AUXG30LRLB	AUXG36LRLB	AUXG45LRLB	AUXG54LRLB
	Outdoor unit		AOYG18LBCA	AOYG24LBCA	AOYG30LBTB	AOYG36LBTB	AOYG45LBTB	AOYG54LBTB
Power Source	Single-phase, ~230V, 50Hz							
Capacity	Cooling	kW	5.2 (0.9-6.5)	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.5 (2.8-11.2)	12.5 (4.0-14.0)	13.3 (4.5-14.5)
	Heating		6.0 (0.9-8.0)	7.8 (0.9-9.1)	10.0 (2.7-11.2)	10.8 (2.7-12.7)	14.0 (4.2-16.2)	15.8 (4.7-16.5)
Input Power	Cooling/Heating	kW	1.42/1.50	2.16/2.18	2.56/2.77	2.96/2.91	3.85/3.73	4.38/4.58
EER	Cooling	W/W	3.66	3.15	3.32	3.21	3.25	3.04
COP	Heating		4.00	3.58	3.61	3.71	3.75	3.45
Pdesign	Cooling/Heating(-10°C)	kW	5.2/4.3	6.8/6.0	8.5/8.0	9.5/8.7	-	-
SEER	Cooling	W/W	7.05	6.60	6.70	6.40	-	-
SCOP	Heating (Average)		4.40	4.20	4.30	4.30	-	-
Energy Efficiency Class	Cooling	A	A++	A++	A++	A++	-	-
	Heating (Average)		A+	A+	A+	A+	-	-
Max. Operating Current	Cooling/Heating	A	10.0/13.5	13.5/18.5	17.0/17.0	20.0/20.0	20.5/20.5	21.5/21.5
	Cooling		kWh/a	258	361	444	519	-
Annual Energy Consumption	Heating	kWh/a	1,367	1,999	2,604	2,833	-	-
	Moisture Removal		l/h	2.2	2.7	2.5	3.3	4.5
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	33/32/31/28	35/33/32/29	40/38/36/33	44/41/38/34	46/42/39/35	47/43/40/36
	Indoor (Heating)		H/M/L/Q	33/32/31/28	35/33/32/29	40/38/36/33	44/41/38/34	46/42/39/35
Sound Power Level	Outdoor(Cooling/Heating)	High	51/50	55/56	53/55	54/55	55/55	55/57
	Indoor(Cooling/Heating)		High	47/47	49/49	54/54	58/58	60/60
Airflow Rate	Outdoor(Cooling/Heating)	High	64/62	68/68	67/69	68/70	68/68	69/71
	Indoor / Outdoor (Cooling)		High	m ³ /h	1,050/1,900	1,150/2,460	1,600/3,600	1,900/3,800
Net Dimensions H x W x D	Indoor	mm	246×840×840	246×840×840	288×840×840	288×840×840	288×840×840	288×840×840
	Outdoor		620×790×290	620×790×290	830×900×330	830×900×330	1290×900×330	1290×900×330
Weight	Indoor	kg (lbs)	24 (53)	24 (53)	26 (57)	26 (57)	29 (64)	29 (64)
	Outdoor		41 (90)	41 (90)	61 (134)	61 (134)	86 (189)	86 (189)
Connection Pipe Diameter (Liquid / Gas)	mm		6.35/12.7	6.35/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)	mm		25/32	25/32	25/32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)	m		30 (15)	30 (15)	50 (20)	50 (20)	50 (20)	50 (20)
Max Height Difference	m		20	20	30	30	30	30
Operation Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)	R410A (2,088)						
	Charge	kg(CO2eq-T)	1.80 (3.8)	1.80 (3.8)	2.10 (4.4)	2.10 (4.4)	3.35 (7.0)	3.35 (7.0)
Cassette Grille	Variation	UTG-UKYA-W: White Color with touch panel wired remote controller UTG-UKYC-W: White Color / UTG-UKYA-B*1: Black Color						
	Dimensions (H x W x D)	mm	53×950×950	53×950×950	53×950×950	53×950×950	53×950×950	53×950×950
Weight	kg (lbs)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	

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

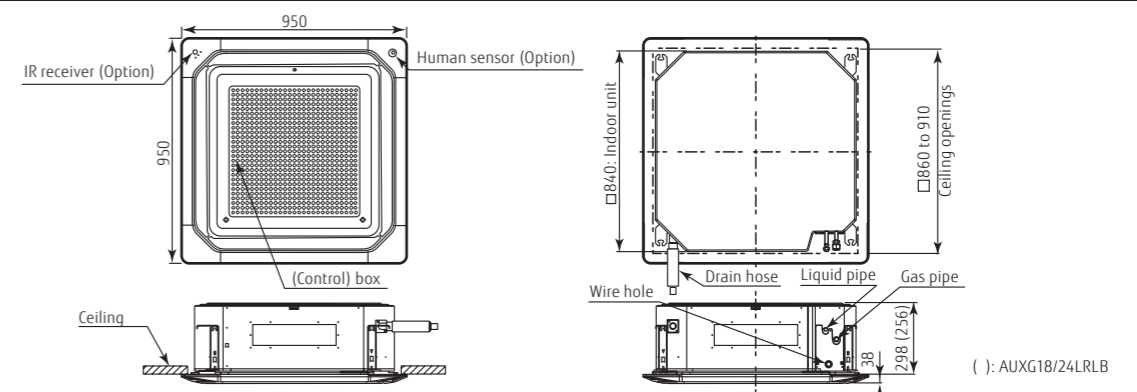
Optional parts

- Wired Remote Controller: UTY-RNRYZ3, UTY-RVNYM, UTY-RLRY, UTY-RNNYM, UTY-RSNYM, UTY-RSRY, UTY-RHRY, UTY-LBTRYC, UTY-SHZXC, UTY-AKXA-W, UTY-BKXA-W
- Simple Remote Controller: UTY-RSNYM, UTY-RSRY, UTY-RHRY, UTY-LBTRYC, UTY-SHZXC, UTY-AKXA-W, UTY-BKXA-W
- IR Receiver Kit: UTY-SHZXC
- Human Sensor Kit: UTY-SHZXC
- Wide Panel: UTY-AKXA-W
- Panel Spacer: UTY-BKXA-W
- Air Outlet Shutter Plate: UTR-YDZK
- Insulation Kit For High Humidity: UTZ-KXRA, UTZ-VXRA
- Flesh Air Intake Kit: UTY-XCSX + UTZ-GXRA
- External input and output PCB (with box): UTY-XCSX + UTZ-GXRA
- External connect kit: UTY-XWZYG
- Cassette Grille: UTG-UKYA-W, UTG-UKYA-B, UTG-UKYC-W
- Wireless LAN Interface: UTY-TFNXZ1



Dimensions

(Unit : mm)



() : AUXG18/24LRLB

Cassette

4-way Flow

Comfort for large room



Model : AUYG30LRLE / AUYG36LRLE / AUYG45LRLA / AUYG54LRLA / AUYG36LRLA [3 phase] / AUYG45LRLA [3 phase] / AUYG54LRLA [3 phase]



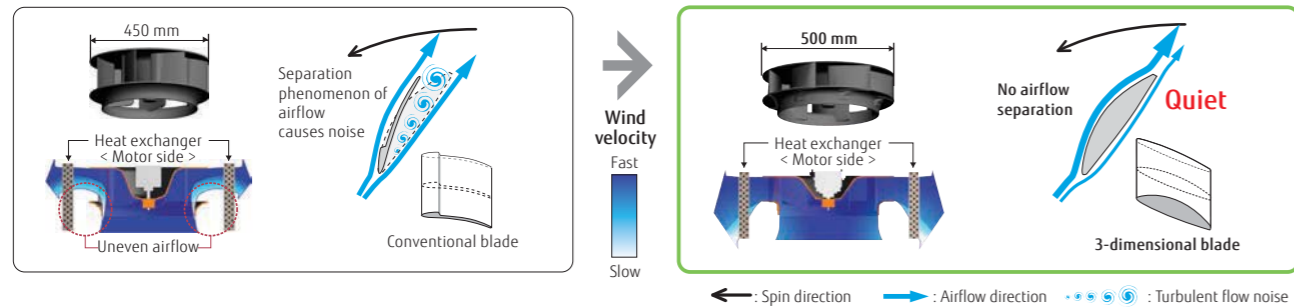
Specifications

Model No.	Indoor unit					Outdoor unit				
	AUYG30LRLE	AUYG36LRLE	AUYG45LRLA	AUYG45LRLA	AUYG54LRLA	AUYG36LRLA	AUYG45LRLA	AUYG54LRLA		
Power Source	Single-phase, ~230V, 50Hz					3-phase, ~400V, 50Hz				
Capacity	Cooling	8.5 (2.8-10.0)	10.0 (2.8-11.2)	12.1 (4.0-13.5)	12.5 (4.0-14.0)	13.3 (4.5-14.5)	10.0 (4.7-11.4)	12.5 (5.0-14.0)	14.0 (5.4-16.0)	
Input Power	Cooling/Heating	2.65/2.77	3.12/3.02	3.89/3.85	3.88/3.77	4.42/4.69	2.44/2.56	3.54/3.58	4.36/4.43	
EER	Cooling	3.21	3.21	3.11	3.22	3.01	4.10	3.53	3.21	
COP	Heating	3.61	3.71	3.51	3.71	3.41	4.38	3.91	3.61	
Pdesign	Cooling/Heating(-10°C)	8.5/8.0	10.0/8.7	-	-	-	10.0/10.0	-	-	
SEER	Cooling	6.50	6.30	-	-	-	6.50	-	-	
SCOP	Heating (Average)	4.30	4.20	-	-	-	4.30	-	-	
Energy Efficiency Class	Cooling	A++	A++	-	-	-	A++	-	-	
	Heating (Average)	A+	A+	-	-	-	A+	-	-	
Max. Operating Current	Cooling/Heating	A	17.0/17.0	18.5/20.0	23.5/23.5	20.5/20.5	21.5/21.5	7.9/7.9	8.9/8.9	9.9/9.9
Annual Energy Consumption	Cooling	kWh/a	458	555	-	-	538	-	-	
	Heating	kWh/a	2,604	2,897	-	-	3,253	-	-	
Moisture Removal		l/h	2.5	3.5	4.5	4.5	5.0	3.0	4.5	5.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	40/38/36/32	43/38/36/32	46/42/40/36	46/42/40/36	47/43/41/37	44/39/36/33	46/42/40/36	47/43/41/37
	Indoor (Heating)	H/M/L/Q	40/38/36/32	43/38/36/32	46/42/40/36	46/42/40/36	47/43/41/37	44/39/36/33	46/42/40/36	47/43/41/37
	Outdoor (Cooling/Heating)	High	53/55	54/55	58/58	55/55	55/57	51/53	54/54	55/56
Sound Power Level	Indoor (Cooling/Heating)	High	54/54	57/57	-	-	-	58/58	-	-
	Outdoor (Cooling/Heating)	High	68/69	69/70	-	-	-	67/69	-	-
	Indoor / Outdoor (Cooling)	High	1,600/3,600	1,800/3,800	1,900/4,650	1,900/6,750	2,000/6,750	1,800/6,200	1,900/6,750	2,000/6,900
Airflow Rate	Indoor / Outdoor (Heating)	High	1,600/3,600	1,800/3,800	1,900/4,650	1,900/6,200	2,000/6,850	1,800/6,200	1,900/6,200	2,000/6,900
	Indoor / Outdoor (Heating)	High	1,600/3,600	1,800/3,800	1,900/4,650	1,900/6,200	2,000/6,850	1,800/6,200	1,900/6,200	2,000/6,900
Net Dimensions H x W x D	Indoor	mm	288x840x840	288x840x840	288x840x840	288x840x840	288x840x840	288x840x840	288x840x840	288x840x840
	Outdoor	mm	830x900x330	830x900x330	914x970x370	1,290x900x330	1,290x900x330	1,290x900x330	1,290x900x330	1,290x900x330
Weight	Indoor	kg(lbs)	26 (57)	26 (57)	26 (57)	26 (57)	26 (57)	104 (229)	104 (229)	104 (229)
	Outdoor	kg(lbs)	61 (135)	61 (135)	75 (165)	86 (190)	86 (190)	104 (229)	104 (229)	104 (229)
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	9.52/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)		mm	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	
Max Pipe Length (Pre-Charge)		m	50 (20)	50 (20)	50 (20)	50 (20)	50 (20)	75 (30)	75 (30)	75 (30)
Max Height Difference		m	30	30	30	30	30	30	30	30
Operation Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating	°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
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)
	Charge	kg(CO2eq-T)	2.10 (4.4)	2.10 (4.4)	2.90 (6.1)	3.35 (7.0)	3.35 (7.0)	3.45 (7.2)	3.45 (7.2)	3.45 (7.2)
Cassette Grille	Model name		UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W
	Dimensions (H x W x D)	mm	50x950x950	50x950x950	50x950x950	50x950x950	50x950x950	50x950x950	50x950x950	50x950x950
	Weight	kg(lbs)	5.5 (12)	5.5 (12)	5.5 (12)	5.5 (12)	5.5 (12)	5.5 (12)	5.5 (12)	5.5 (12)

High efficiency turbo fan with 3-dimensional blade

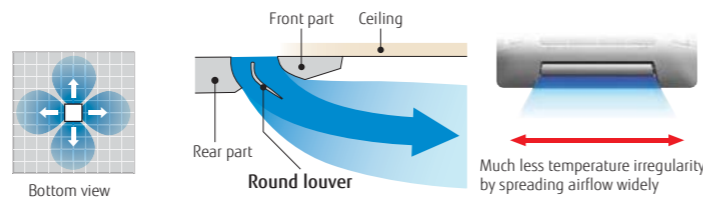
Previous turbo fan: Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.

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



Improvement of the airflow distribution

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

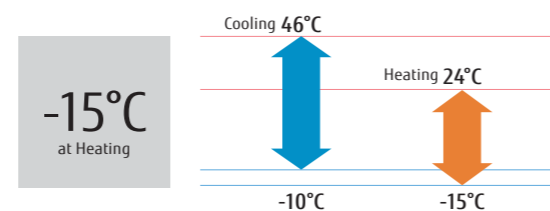


Adjustment of hanger position is possible after installation

Hanging bracket can be checked directly by removing the corner cover. Hanging position can be arranged easily.

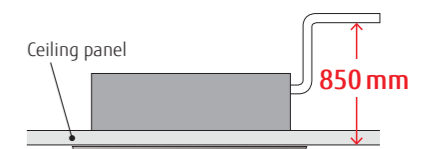


Low ambient operation



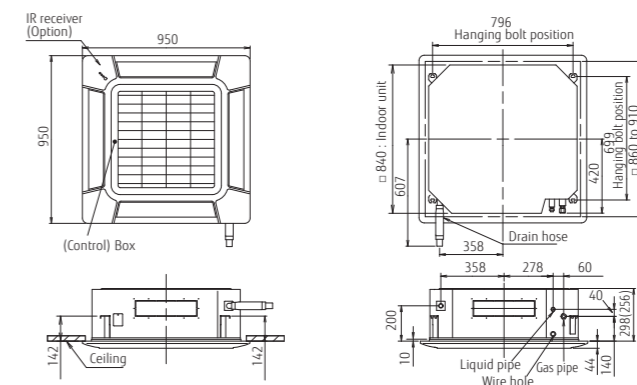
Optional parts

- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- IR Receiver Kit: UTY-LRHYA2
- Wide Panel: UTG-AKXA-W
- Panel Spacer: UTG-BKXA-W
- Air Outlet Shutter Plate: UTR-YDZK
- Insulation Kit For High Humidity: UTZ-KXRA
- Fresh Air Intake Kit: UTZ-VXRA
- Wireless LAN Interface: UTY-TFNXZ1
- External Connect Kit: UTY-XWZX
- Cassette Grille: UTG-UGYA-W



Dimensions

(Unit : mm)



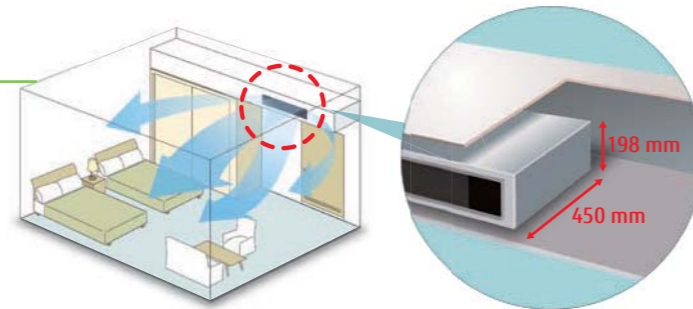
Mini Duct

Built-in Drain Pump



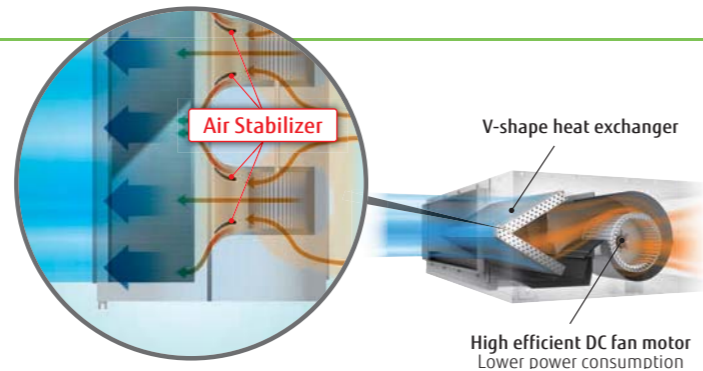
Large living space available

- Installation space can be reduced down to minimum depth 450 mm height 198 mm and compact design
- Minimum size: Depth 450 mm, Height 198 mm Volume 27% down compared with current model
- Lightweight: 15.5 kg 18% down (12/14 models)



Optimum airflow path and low noise operation

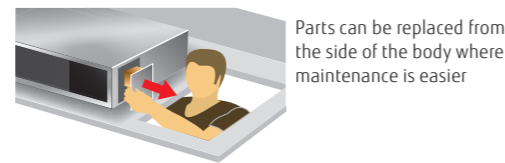
Low noise is realized drastically by stabilized airflow design



Easy design and maintenance for drain

By using the DC fan motor, it is possible to change the static pressure range from 0 to 50 Pa*. The change of static pressure range is possible by remote controller. *12 model: 0 to 30 Pa.

Built-in drain pump as standard: Maintenance is easy

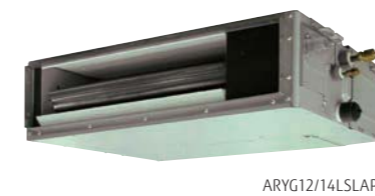


Auto Louver Grille Kit (Option)

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



Model : ARYG12LSLAP / ARYG14LSLAP / ARYG18LSLAP

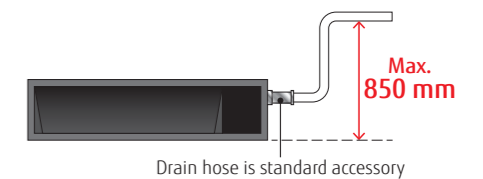


Specifications

Model No.	Indoor unit		ARYG12LSLAP	ARYG14LSLAP	ARYG18LSLAP	
	Outdoor unit		AOYG12LALL	AOYG14LALL	AOYG18LBCB	
Power Source			Single-phase, ~230V, 50Hz			
Capacity	Cooling	kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)	
	Heating		4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)	
Input Power	Cooling/Heating		1.03/1.15	1.34/1.49	1.62/1.77	
	Cooling	W/W	3.40	3.21	3.21	
EER	Heating		3.56	3.35	3.38	
COP	Cooling/Heating(-10°C)		3.5/4.2	4.3/4.5	5.2/5.2	
	Cooling	W/W	5.70	5.60	5.80	
SEER	Heating		3.90	3.80	3.80	
SCOP	Cooling		A+	A+	A+	
	Heating		A	A	A	
Energy Efficiency Class	Cooling/Heating		7.5/10.0	9.0/12.5	11.5/13.5	
	Cooling	A	215	269	314	
Max. Operating Current	Cooling/Heating		1.505	1.656	1.913	
	Annual Energy Consumption	Heating	1.2	1.4	1.8	
Moisture Removal	Indoor (Cooling)	l/h	31/27/25/23	35/30/27/23	33/29/26/23	
	Indoor (Heating)		31/27/25/23	35/30/27/23	33/29/26/23	
Sound Pressure Level	Outdoor (Cooling/Heating)	dB(A)	47/48	49/49	50/50	
	Indoor (Cooling/Heating)		High	55/57	60/62	58/59
	Outdoor (Cooling/Heating)		High	61/63	62/64	62/65
Sound Power Level	Indoor / Outdoor (Cooling)	m³/h	650/1,780	800/1,910	940/2,000	
	Indoor / Outdoor (Heating)		High	650/1,630	800/1,740	940/1,910
	Static pressure range (Standard)		Pa	0 to 30 (10)	0 to 50 (15)	0 to 50 (15)
Net Dimensions	Indoor	mm	198×700×450	198×700×450	198×900×450	
	Outdoor		578×790×300	578×790×300	632×799×290	
H x W x D	Indoor	kg (lbs)	15.5 (34)	15.5 (34)	18.5 (41)	
	Outdoor		40 (88)	40 (88)	36 (79)	
Weight	Indoor	kg (lbs)	6.35/9.52	6.35/12.70	6.35/12.70	
	Outdoor		40 (88)	40 (88)	36 (79)	
Connection Pipe Diameter (Liquid / Gas)			6.35/9.52	6.35/12.70	6.35/12.70	
	Drain hose Diameter (I.D./O.D.)	mm	25/32	25/32	25/32	
Max Pipe Length (Pre-Charge)			25 (15)	25 (15)	25 (15)	
	Max Height Difference	m	15	15	15	
Operation 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)	R410A (2,088)				
	Charge	kg(CO2eq-T)	1.15 (2.4)	1.25 (2.6)	1.20 (2.5)	

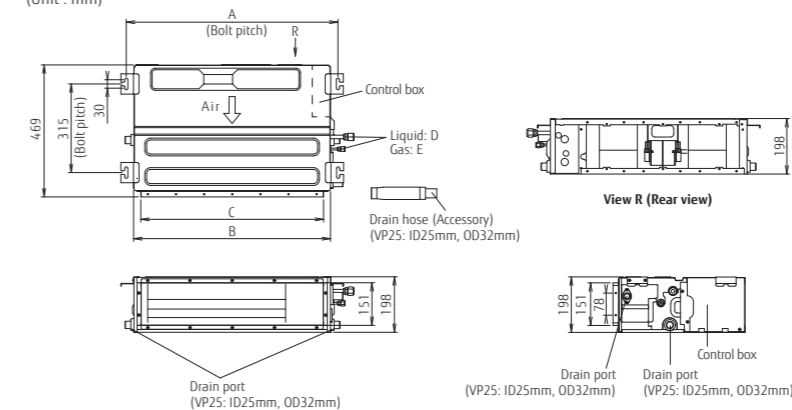
Optional parts

- Wired Remote Controller: UTY-RLRY, UTY-RNRYZ3, UTY-RVNYM, UTY-RNNYM, UTY-RNNYM
 Auto Louver Grille Kit: UTD-GXTA-W (ARYG12/14LSLAP), UTD-GXTB-W (ARYG18LSLAP)
 Simple Remote Controller: UTY-RSNYM, UTY-RSRY, UTY-RHRY
 External connect kit: UTY-XWZXZG
 IR Receiver Kit: UTY-LBTYM
 Wireless LAN Interface: UTY-TFNXZ1
 Remote Sensor Unit: UTY-XSZX



Dimensions

(Unit : mm)



	ARYG12/14LSLAP	ARYG18LSLAP
A	752	952
B	700	900
C	650	850
D	6.35	9.52
E	12.70	15.88

Slim Duct

Slim & Comfort



Slim design

The slim design allows installations where ceilings are narrow. Drain hose as standard accessory



Compact and lightweight outdoor unit

Compact and lightweight outdoor unit expands a wider range of choice for installation location. This makes it easier to use this outdoor unit.



Selectable with a wide range of static pressure

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



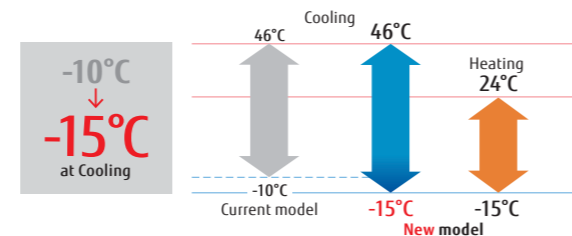
Static pressure range
0 to 90 Pa

Auto Louver Grille Kit (Option)

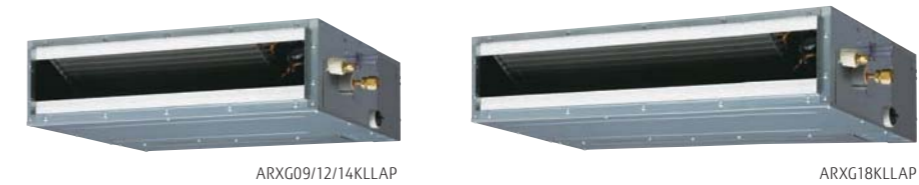
Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.



Low ambient operation



Model : ARXG09KLLAP / ARXG12KLLAP / ARXG14KLLAP / ARXG18KLLAP

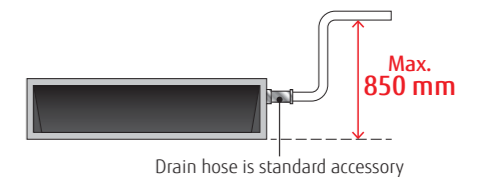


Specifications

Model No.	Indoor unit		ARXG09KLLAP	ARXG12KLLAP	ARXG14KLLAP	ARXG18KLLAP
	Outdoor unit		AOYG09KBTB	AOYG12KBTB	AOYG14KBTB	AOYG18KBTB
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW	2.5 (0.9-3.2)	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)
	Heating		3.2 (0.9-4.7)	4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)
Input Power	Cooling/Heating	kW	0.60/0.79	0.93/1.08	1.28/1.32	1.55/1.62
	EER		W/W	4.17	3.76	3.36
COP	Cooling	W/W		4.05	3.80	3.79
	Heating		4.30	4.00	3.90	4.10
Pdesign	Cooling/Heating(-10°C)	kW	2.5/2.6	3.5/3.4	4.3/3.8	5.2/4.4
	SEER		W/W	6.20	6.10	5.80
SCOP	Cooling	W/W		4.30	4.00	3.90
	Heating		A++	A++	A+	A++
Energy Efficiency Class	Cooling	A	A+	A+	A	A+
	Heating		7.9	9.7	10.2	12.1
Max. Operating Current	Cooling/Heating	A	141	201	259	293
	Annual Energy Consumption		kWh/a	845	1,189	1,362
Moisture Removal	Cooling	l/h	0.7	1.3	1.5	2.0
	Heating		28/27/26/25	29/28/26/25	32/30/28/26	32/30/29/27
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	28/26/25/24	29/28/26/24	32/30/28/25	32/30/29/27
	Indoor (Heating)		46/46	47/47	49/49	50/50
Sound Power Level	Outdoor (Cooling/Heating)	High	57/57	58/58	60/60	58/58
	Indoor (Cooling/Heating)		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)		600/1,410	650/1,520	800/1,580	940/1,830
Static pressure range (Standard)	Indoor	Pa	0 to 90 (25)	0 to 90 (25)	0 to 90 (25)	0 to 90 (25)
	Outdoor		198x700x620	198x700x620	198x900x620	198x900x620
Net Dimensions H x W x D	Indoor	mm	542x799x290	542x799x290	542x799x290	632x799x290
	Outdoor		17 (37)	17 (37)	17 (37)	20 (44)
Weight	Indoor	kg (lbs)	32 (71)	33 (73)	33 (73)	36 (79)
	Outdoor		6.35/9.53	6.35/9.53	6.35/9.53	6.35/12.70
Connection Pipe Diameter (Liquid / Gas)	Indoor	mm	25/32	25/32	25/32	25/32
	Outdoor		20 (15)	25 (15)	25 (15)	30 (20)
Max Pipe Length (Pre-Charge)	Indoor	m	15	20	20	20
	Outdoor		-15 to 46	-15 to 46	-15 to 46	-15 to 46
Operation Range	Cooling	°CDB	-15 to 24	-15 to 24	-15 to 24	-15 to 24
	Heating		R32 (675)	R32 (675)	R32 (675)	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)
	Charge					

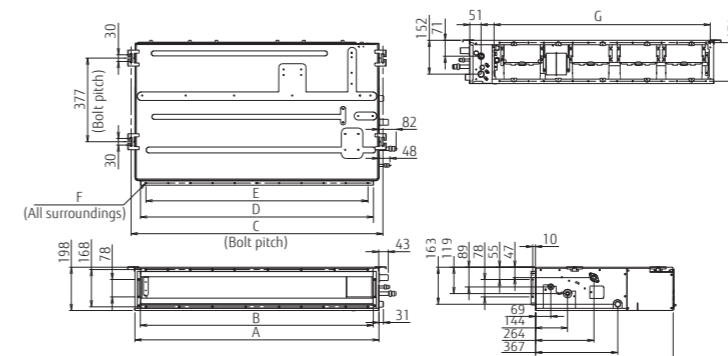
Optional parts

- Wired Remote Controller: UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM, UTY-RNNYM
- Simple Remote Controller: UTY-RSRY, UTY-RHRY, UTY-RSNYM
- IR Receiver Kit: UTY-LBTYM
- Wireless LAN Interface: UTY-TFSXZ1
- Remote Sensor Unit: UTY-XSZX
- Auto Louver Grille Kit: UTD-GXTA-W (ARXG12/14KLLAP), UTD-GXTB-W (ARXG18KLLAP)
- External Connect Kit: UTY-XWZGZG



Dimensions

(Unit : mm)



	ARXG09/12/14KLLAP	ARXG18KLLAP
A	700	900
B	650	850
C	734	934
D	650	850
E	P100x6=600	P100x8=800
F	18xØ5	22xØ5
G	574	774

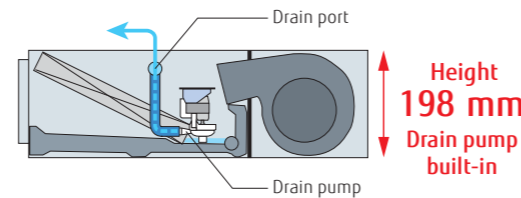
Slim Duct

Slim & Comfort



Slim design

The slim design allows installations where ceilings are narrow. Drain hose as standard accessory



Flexible installation

2-type installation methods of ceiling concealed and floor concealed can be selected.



Selectable with a wide range of static pressure

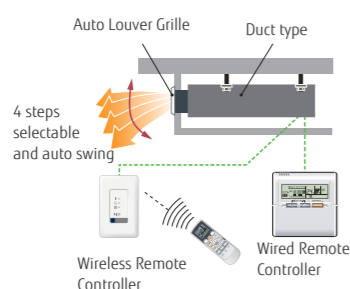
By using the DC fan motor, it is possible to change the static pressure range from 0 to 90 Pa. The change of static pressure range is possible by remote controller.



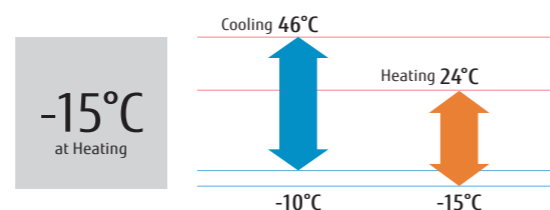
Static pressure range
0 to 90 Pa

Auto Louver Grille Kit (Option)

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



Low ambient operation



Model : ARYG12LLTB / ARYG14LLTB / ARYG18LLTB

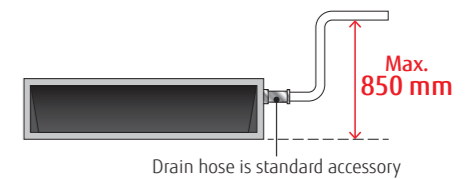


Specifications

Model No.	Indoor unit		ARYG12LLTB	ARYG14LLTB	ARYG18LLTB
	Outdoor unit		AOYG12LALL	AOYG14LALL	AOYG18LBCB
Power Source	Single-phase, ~230V, 50Hz				
Capacity	Cooling	kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)
	Heating		4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)
Input Power	Cooling/Heating	kW	1.05/1.11	1.33/1.34	1.62/1.66
EER	Cooling	W/W	3.33	3.21	3.21
	Heating		3.69	3.71	3.61
Pdesign	Cooling/Heating(-10°C)	kW	3.5/4.2	4.3/4.5	5.2/5.2
	SEER		Cooling	5.90	5.80
SCOP	Heating	W/W	4.00	3.90	4.10
	Energy Efficiency Class		Cooling	A+	A+
Max. Operating Current	Heating	A	A+	A	A+
	Cooling/Heating		7.5/10.0	9.0/12.5	11.5/13.5
Annual Energy Consumption	Cooling	kWh/a	207	259	294
	Heating		1,467	1,614	1,775
Moisture Removal	Cooling	l/h	1.3	1.5	2.0
	Indoor (Cooling)		H/M/L/Q	29/28/26/25	32/30/28/26
Sound Pressure Level	Indoor (Heating)	dB(A)	29/28/26/24	32/30/28/25	32/30/29/27
	Outdoor (Cooling/Heating)		High	47/48	49/49
Sound Power Level	Indoor (Cooling/Heating)	High	58/58	60/60	58/58
	Outdoor (Cooling/Heating)		High	61/63	62/64
Airflow Rate	Indoor / Outdoor (Cooling)	m³/h	650/1,780	800/1,910	940/2,380
	Indoor / Outdoor (Heating)		High	650/1,630	800/1,740
Static pressure range (Standard)		Pa	0 to 90 (25)	0 to 90 (25)	0 to 90 (25)
Net Dimensions H x W x D	Indoor	mm	198*700*620	198*700*620	198*900*620
	Outdoor		578*790*300	578*790*300	632*799*290
Weight	Indoor	kg(lbs)	19 (42)	19 (42)	23 (51)
	Outdoor		40 (88)	40 (88)	36 (79)
Connection Pipe Diameter (Liquid / Gas)			6.35/9.52	6.35/12.70	6.35/12.70
Drain hose Diameter (I.D./O.D.)		mm	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)		m	25 (15)	25 (15)	25 (15)
Max Height Difference			15	15	15
Operation 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)		R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	1.15 (2.4)	1.25 (2.6)	1.20 (2.5)

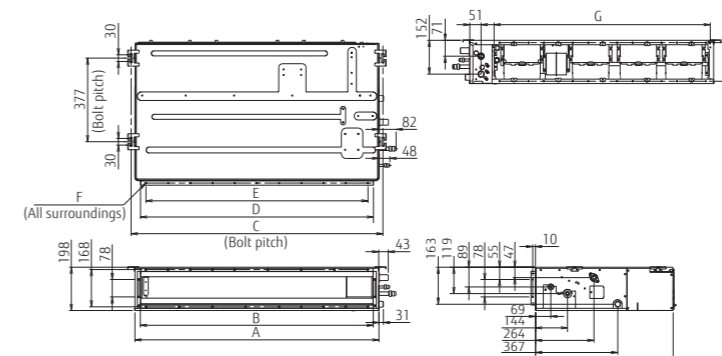
Optional parts

- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- IR Receiver Kit: UTY-LRHYM
- Remote Sensor Unit: UTY-XSZX
- Auto Louver Grille Kit: UTD-GXTA-W (ARYG12 / 14LLTB), UTD-GXTB-W (ARYG18LLTB)
- External connect kit: UTD-EC55A
- Wireless LAN Interface: UTY-TFNX21



Dimensions

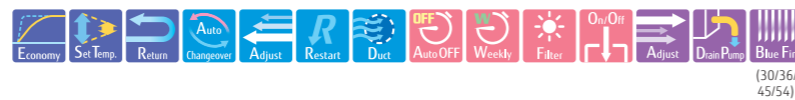
(Unit : mm)



	ARYG12 / 14LLTB	ARYG18LLTB
A	700	900
B	650	850
C	734	934
D	650	850
E	P100x6=600	P100x8=800
F	18xØ5	22xØ5
G	574	774

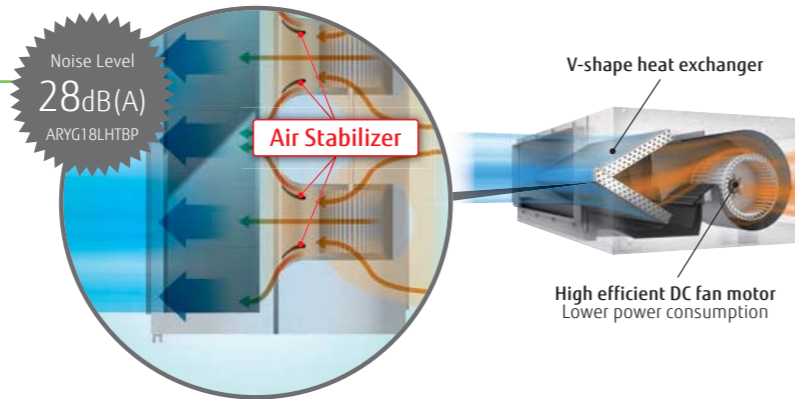
Medium Static Pressure Duct

Compact & Comfort



High Efficiency & Quiet operation

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



Small and light weight outdoor unit

This model is much more compact than conventional outdoor unit. It can be installed in a narrow place.

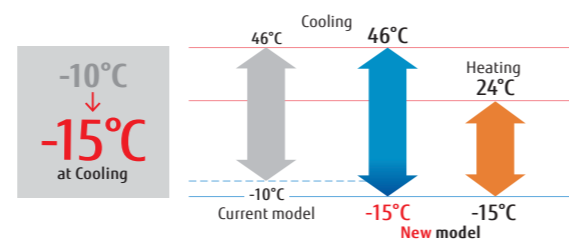


Automatic Airflow adjustment function

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



Low ambient operation



Model: ARXG12KHTAP / ARXG14KHTAP / ARXG18KHTAP / ARXG22KHTAP / ARXG24KHTAP / ARXG30KHTAP / ARXG36KHTAP / ARXG45KHTAP / ARXG54KHTAP

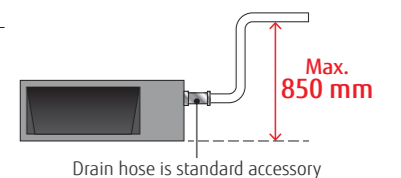


Specifications

Model No.	Indoor unit		ARXG12KHTAP	ARXG14KHTAP	ARXG18KHTAP	ARXG22KHTAP	ARXG24KHTAP	ARXG30KHTAP	ARXG36KHTAP	ARXG45KHTAP	ARXG54KHTAP
	Outdoor unit		AOYG12KBTB	AOYG14KBTB	AOYG18KBTB	AOYG22KBTB	AOYG24KBTB	AOYG30KBTB	AOYG36KBTB	AOYG45KBTB	AOYG54KBTB
Power Source			Single-phase, ~230V, 50Hz								
Capacity	Cooling	kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)	6.0 (0.9-6.7)	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.5 (2.8-11.2)	12.1 (4.0-14.0)	13.4 (4.5-14.5)
	Heating		4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)	7.0 (0.9-8.0)	7.5 (0.9-9.1)	10.0 (2.7-11.2)	10.8 (2.7-12.7)	13.5 (4.2-16.2)	15.5 (4.7-16.5)
Input Power	Cooling/Heating	kW	0.87/1.00	1.17/1.25	1.36/1.56	1.71/1.81	1.89/1.85	2.65/2.63	2.86/2.48	3.53/3.37	4.42/3.89
			4.02	3.68	3.82	3.51	3.60	3.21	3.32	3.43	3.03
EER	Cooling	W/W	4.02	4.00	3.85	3.87	4.06	3.80	4.35	4.01	3.98
	Heating		4.10	4.00	4.10	4.20	4.10	4.20	4.20	-	-
Pdesign	Cooling/Heating(-10°C)	kW	3.5/3.4	4.3/3.8	5.2/4.4	6.0/4.8	6.8/6.0	8.5/8.0	9.5/8.7	-	-
			6.30	6.20	6.50	6.50	6.50	6.23	6.10	-	-
SEER	Cooling	W/W	4.10	4.00	4.10	4.20	4.10	4.20	4.20	-	-
	Heating (Average)		A++	A++	A++	A++	A++	A++	A++	-	-
Energy Efficiency Class	Cooling	A	A+	A+	A+	A+	A+	A+	A+	-	-
	Heating (Average)		9.7	10.2	12.1	12.6	13.6	22.6	22.6	28.5	28.5
Max. Operating Current	Cooling/Heating	kWh/a	194	243	280	323	366	477	544	-	-
			1,159	1,328	1,501	1,597	2,048	2,796	2,898	-	-
Annual Energy Consumption	Cooling	l/h	0.7	0.9	1.2	1.5	1.8	2.3	2.0	2.6	3.7
	Heating		32/27/26/24	33/28/27/25	28/25/22/20	28/25/22/20	32/28/24/21	36/33/30/29	36/31/28/26	39/35/31/29	39/35/31/29
Moisture Removal	Indoor (Cooling)	H/M/L/Q	32/27/26/24	33/28/27/25	28/25/22/20	28/25/22/20	32/28/24/21	36/33/30/29	36/31/28/26	39/35/31/29	39/35/31/29
	Indoor (Heating)		47/47	49/49	50/50	51/51	53/54	53/55	55/55	57/57	57/59
Sound Pressure Level	Outdoor(Cooling/Heating)	dB(A)	57/58	59/60	54/54	57/57	57/57	63/65	64/63	67/69	67/69
	Indoor(Cooling/Heating)		61/61	62/62	62/62	63/63	65/66	68/69	70/70	71/71	73/73
Sound Power Level	Indoor(Cooling/Heating)	m³/h	850/1,580	950/1,670	1,050/2,160	1,050/2,240	1,360/2,700	1,700/3,750	2,050/4,450	2,550/4,450	2,550/4,450
	Outdoor(Cooling/Heating)		850/1,520	950/1,580	1,050/1,830	1,050/1,960	1,360/2,700	1,700/3,750	2,050/3,750	2,550/4,450	2,550/4,450
Airflow Rate	Indoor / Outdoor (Cooling)	Pa	30 to 200 (35)	30 to 200 (35)	30 to 200 (35)	30 to 200 (35)	30 to 200 (35)	30 to 200 (47)	30 to 200 (47)	30 to 200 (60)	30 to 200 (60)
	Indoor / Outdoor (Heating)		300x700x700	300x700x700	300x1,000x700	300x1,000x700	300x1,000x700	300x1,000x700	300x1,400x700	300x1,400x700	300x1,400x700
Static pressure range (Standard)	Indoor	mm	542x799x290	542x799x290	632x799x290	632x799x290	716x820x315	788x940x320	788x940x320	998x940x320	998x940x320
	Outdoor		27 (60)	27 (60)	35 (77)	35 (77)	36 (79)	36 (79)	46 (101)	46 (101)	46 (101)
Net Dimensions H x W x D	Indoor	kg(lbs)	33 (73)	33 (73)	36 (79)	38 (84)	42 (93)	52 (115)	52 (115)	67 (148)	67 (148)
	Outdoor		6.35/9.53	6.35/9.53	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
Weight	Indoor	mm	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32
	Outdoor		25 (15)	25 (15)	30 (20)	30 (20)	30 (20)	50 (30)	50 (30)	50 (30)	50 (30)
Connection Pipe Diameter (Liquid / Gas)	Indoor	m	20	20	20	25	25	30	30	30	30
	Outdoor		20	20	20	25	25	30	30	30	30
Drain hose Diameter (I.D./O.D.)	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
	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
Max Pipe Length (Pre-Charge)	Type (Global Warming Potential)	kg(CO2eq-T)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge		0.85 (0.574)	0.85 (0.574)	1.02 (0.689)	1.25 (0.844)	1.25(0.844)	1.90(1.283)	1.90(1.283)	2.70(1.823)	2.70(1.823)

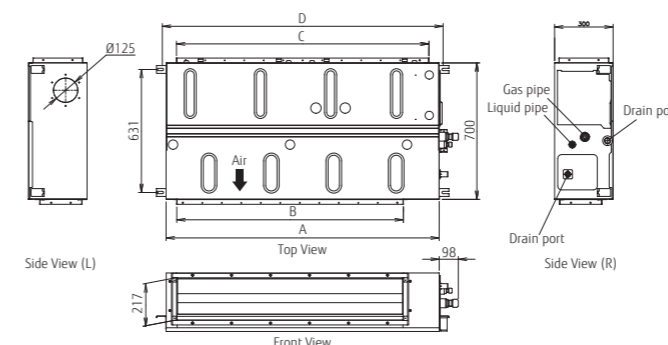
Optional parts

- Wired Remote Controller: UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM, UTY-RNNYM
- Simple Remote Controller: UTY-RRSRY, UTY-RHRY, UTY-RSNYM
- IR Receiver Kit: UTY-LBTYM
- Wireless LAN Interface: UTY-TFSXZ1
- Remote Sensor Unit: UTY-XSZX
- Long Life Filter: UTD-LFNA (ARXG36/45/54KHTAP), UTD-LFNB (ARXG18/24/30KHTAP), UTD-LFNC (ARXG12/14KHTAP)
- External Input and Output PCB (with bracket): UTY-XCSX + UTZ-GXNA
- External Connect Kit: UTY-XWZXZG
- External Input and Output PCB BOX: UTZ-GXRA



Dimensions

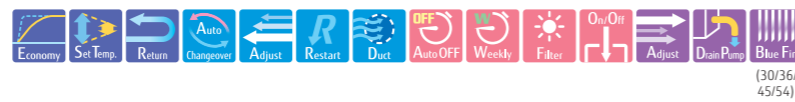
(Unit : mm)



	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

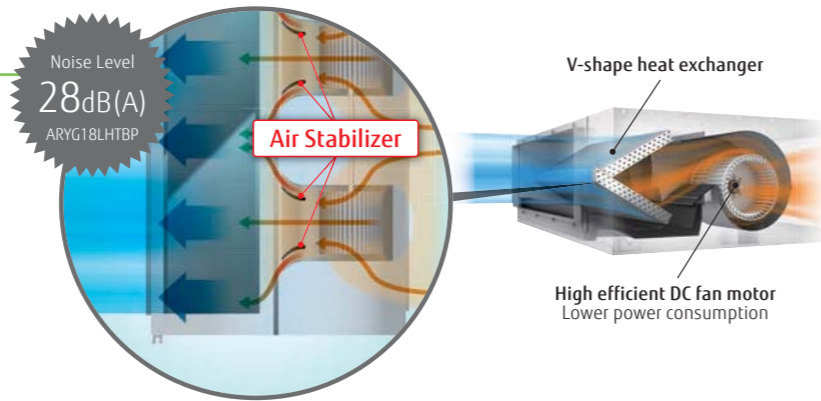
Medium Static Pressure Duct

Compact & Comfort



High Efficiency & Quiet operation

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



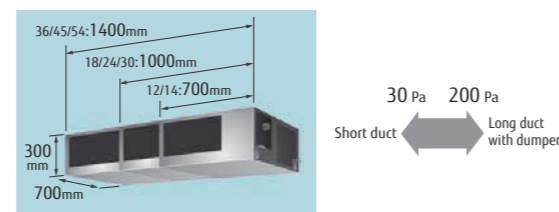
Automatic Airflow adjustment function

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



Improved installation flexibility

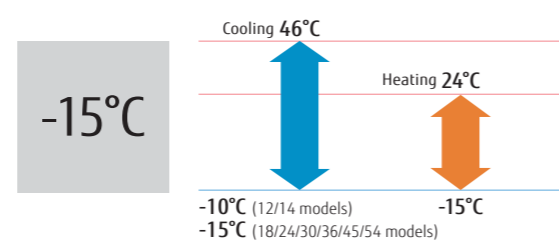
- Capable to be installed in various applications that requires static pressure of 30 Pa to 200 Pa*
 - Built-in drain pump, rises drain up to 850 mm
 - Unified depth throughout the range enables the selection of the capacity regardless of the additional space.
- (*: 12/14/18/24/30/36 models)



Improved service and maintenance

- Drain pump is easily detachable from the side
- Easy access to electrical box
- Error code can be checked more in detail from error history

Low ambient operation



Model: ARYG12LHTBP / ARYG14LHTBP / ARYG18LHTBP / ARYG24LHTBP
ARYG30LHTBP / ARYG36LHTBP / ARYG45LHTBP / ARYG54LHTBP

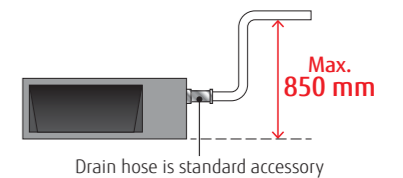


Specifications

Model No.	Indoor unit		ARYG12LHTBP	ARYG14LHTBP	ARYG18LHTBP	ARYG24LHTBP	ARYG30LHTBP	ARYG36LHTBP	ARYG45LHTBP	ARYG54LHTBP
	Outdoor unit		AOYG12LBLA	AOYG14LBLA	AOYG18LBCA	AOYG24LBCA	AOYG30LBTB	AOYG36LBTB	AOYG45LBTB	AOYG54LBTB
Power Source			Single-phase, ~230V, 50Hz							
Capacity	Cooling	kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-6.5)	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.4 (2.8-11.2)	12.1 (4.0-14.0)	13.4 (4.5-14.5)
	Heating	kW	4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-8.0)	8.0 (0.9-9.1)	10.0 (2.7-11.2)	11.2 (2.7-12.7)	13.3 (4.2-16.2)	16.0 (4.7-16.5)
Input Power	Cooling/Heating	kW	0.90/1.00	1.18/1.25	1.37/1.48	1.95/2.21	2.65/2.70	2.83/3.07	3.59/3.44	4.42/4.62
	Cooling	W/W	3.89	3.64	3.80	3.49	3.21	3.32	3.37	3.03
EER	Heating	W/W	4.10	4.00	4.05	3.62	3.70	3.65	3.87	3.46
	Cooling/Heating (-10°C)	kW	3.5/4.2	4.3/4.5	5.2/4.3	6.8/6.0	8.5/8.0	9.4/8.7	-	-
SEER	Cooling	W/W	6.20	6.10	7.15	6.50	5.95	5.81	-	-
	Heating (Average)	W/W	4.10	4.00	4.11	4.01	3.95	3.81	-	-
SCOP	Cooling		A++	A++	A++	A++	A+	A+	-	-
	Heating (Average)		A+	A+	A+	A+	A	A	-	-
Max. Operating Current	Cooling/Heating	A	8.0/10.5	9.5/13.0	10.0/13.5	13.5/18.5	17.0/17.0	20.0/20.0	22.5/22.5	23.5/23.5
	Cooling	kWh/a	198	247	255	366	500	566	-	-
Annual Energy Consumption	Heating	kWh/a	1,434	1,573	1,462	2,092	2,833	3,194	-	-
	Moisture Removal	l/h	0.7	0.9	1.2	1.8	2.3	2.0	2.6	2.6
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	32/27/26/24	33/28/27/25	28/25/22/20	32/28/24/21	36/31/30/29	36/31/28/26	39/35/31/29	39/35/31/29
	Indoor (Heating)	H/M/L/Q	32/27/26/24	33/28/27/25	28/25/22/20	32/28/24/21	36/31/30/29	36/31/28/26	39/35/31/29	39/35/31/29
Sound Power Level	Outdoor (Cooling/Heating)	High	47/48	49/49	50/51	55/56	53/55	54/55	55/55	55/57
	Indoor (Cooling/Heating)	High	57/58	59/60	54/54	57/57	63/65	64/63	67/69	67/69
Airflow Rate	Indoor / Outdoor (Cooling)	High	850/1,780	950/1,910	1,050/1,900	1,360/2,460	1,700/3,600	2,050/2,800	2,550/6,750	2,550/6,750
	Indoor / Outdoor (Heating)	High	850/1,630	950/1,740	1,050/1,700	1,360/2,340	1,700/3,600	1,850/2,800	2,550/6,200	2,550/6,850
Static pressure range (Standard)	Indoor	Pa	30 to 200 (35)	30 to 200 (35)	30 to 200 (35)	30 to 200 (35)	30 to 200 (47)	30 to 200 (47)	30 to 160 (60)	30 to 160 (60)
	Outdoor	Pa	300×700×700	300×700×700	300×1,000×700	300×1,000×700	300×1,400×700	300×1,400×700	300×1,400×700	300×1,400×700
Net Dimensions H x W x D	Indoor	mm	578×790×300	578×790×300	620×790×290	620×790×290	830×900×330	830×900×330	1,290×900×330	1,290×900×330
	Outdoor	mm	27 (59)	27 (59)	36 (79)	36 (79)	36 (79)	46 (101)	46 (101)	46 (101)
Weight	Indoor	kg (lbs)	40 (88)	40 (88)	41 (90)	41 (90)	61 (134)	61 (134)	86 (189)	86 (189)
	Outdoor	kg (lbs)	27 (59)	27 (59)	36 (79)	36 (79)	36 (79)	46 (101)	46 (101)	46 (101)
Connection Pipe Diameter (Liquid / Gas)	Indoor	mm	6.35/9.52	6.35/12.70	6.35/12.70	6.35/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
	Outdoor	mm	25/32	25/32	25/32	25/32	25/32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)	Cooling	m	25 (15)	25 (15)	30 (15)	30 (15)	50 (20)	50 (20)	50 (20)	50 (20)
	Heating	m	15	15	20	20	30	30	30	30
Operation Range	Cooling	°CDB	-10 to 46	-10 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating	°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
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)
	Charge	kg(CO2eq-1)	1.15 (2.4)	1.25 (2.6)	1.80 (3.8)	1.80 (3.8)	2.10 (4.4)	2.10 (4.4)	3.35 (7.0)	3.35 (7.0)

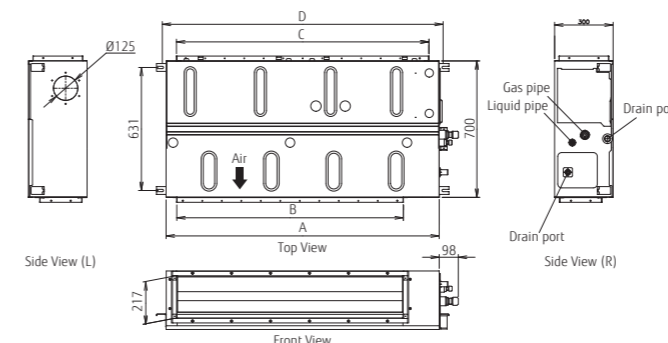
Optional parts

- Wired Remote Controller: UTY-RNRYZ3, UTY-RVNYM, UTY-RNNYM, UTY-RLRY
- Simple Remote Controller: UTY-RSNYM, UTY-RSRY, UTY-RHRY
- IR Receiver Unit: UTY-LBTYM
- Wireless LAN Interface: UTY-TFNXZ1
- External connect kit: UTY-XWZXZG
- Long life filter: UTD-LFNA (ARYG36/45/54LHTBP), UTD-LFNB (ARYG18/24/30LHTBP), UTD-LFNC (ARYG12/14LHTBP), UTY-XSZX
- Remote Sensor Unit: UTY-XCSX + UTZ-GXNA
- External input and output PCB (with bracket): UTY-XCSX + UTZ-GXNA
- External Input and Output PCB BOX: UTZ-GXRA



Dimensions

(Unit : mm)



	ARYG12/14LHTBP	ARYG18/24/30LHTBP	ARYG36/45/54LHTBP
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



Model : ARXG22KMLA / ARXG24KMLA / ARXG30KMLA / ARXG36KMLA / ARXG45KMLA



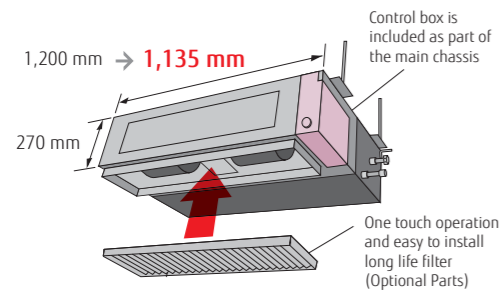
Specifications

Model No.	Indoor unit		ARXG22KMLA	ARXG24KMLA	ARXG30KMLA	ARXG36KMLA	ARXG45KMLA	
	Outdoor unit		AOYG22KBTB	AOYG24KBTB	AOYG30KBTB	AOYG36KBTB	AOYG45KBTB	
Power Source	Single-phase, ~230V, 50Hz							
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)	
	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)	
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
	Cooling	W/W		3.37	3.18	3.21	3.20	2.87
EER	Cooling		W/W	3.37	3.18	3.21	3.20	2.87
	Heating			3.74	3.80	3.80	3.75	3.52
COP	Cooling/Heating(-10°C)		kW	6.0/4.8	6.8/6.0	8.5/8.0	9.5/8.7	-
	Cooling			6.10	6.20	6.23	6.10	-
SEER	Cooling		W/W	6.10	6.20	6.23	6.10	-
	Heating			4.10	4.10	4.00	4.00	-
SCOP	Cooling		W/W	4.10	4.10	4.00	4.00	-
	Heating			4.10	4.10	4.00	4.00	-
Energy Efficiency Class	Cooling		A	A++	A++	A++	A++	-
	Heating			A+	A+	A+	A+	-
Max. Operating Current	Cooling/Heating		A	12.6	13.6	22.6	22.6	28.5
	Cooling			344	384	477	545	-
Annual Energy Consumption	Cooling		kWh/a	344	384	477	545	-
	Heating			1,637	2,045	2,797	3,044	-
Moisture Removal	Cooling		l/h	2.1	2.5	2.5	3.0	4.0
	Heating			31/29/27/25	31/29/27/25	39/35/30/26	39/35/30/26	42/38/32/28
Sound Pressure Level	Indoor (Cooling)		H/M/L/Q	dB(A)	31/29/27/25	31/29/27/25	42/35/30/26	42/38/32/28
	Indoor (Heating)				31/29/27/25	31/29/27/25	42/35/30/26	42/38/32/28
Sound Power Level	Outdoor (Cooling/Heating)		High	dB(A)	51/51	53/54	53/55	55/55
	Indoor (Cooling/Heating)				60/62	60/62	65/69	65/70
Airflow Rate	Indoor / Outdoor (Cooling)		High	m³/h	1,100/2,240	1,100/2,700	1,900/3,750	1,900/3,750
	Indoor / Outdoor (Heating)				1,100/1,960	1,100/2,700	2,100/3,750	2,100/3,750
Static pressure range (Standard)	Indoor		Pa	30 to 150 (35)	30 to 150 (35)	30 to 150 (47)	30 to 150 (47)	30 to 150 (60)
	Outdoor			270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700	270x1,135x700
Net Dimensions H x W x D	Indoor		mm	632x799x290	716x820x315	788x940x320	788x940x320	998x940x320
	Outdoor			35 (77)	35 (77)	38 (84)	38 (84)	39 (86)
Weight	Indoor		kg(lbs)	38 (84)	42 (93)	52 (115)	52 (115)	67 (148)
	Outdoor			6.35/12.70	6.35/12.70	9.52/15.88	9.52/15.88	9.52/15.88
Connection Pipe Diameter (Liquid / Gas)	Indoor		mm	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1
	Outdoor			30 (20)	30 (20)	50 (30)	50 (30)	50 (30)
Max Pipe Length (Pre-Charge)	Indoor		m	25	25	30	30	30
	Outdoor			-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
Max Height Difference	Cooling		°CDB	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Operation Range	Type (Global Warming Potential)		kg(CO2eq-T)	R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
	Charge			1.25 (0.844)	1.25 (0.844)	1.90 (1.283)	1.90 (1.283)	2.70 (1.823)

Slim & Compact design

Indoor Unit

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



New Outdoor Unit

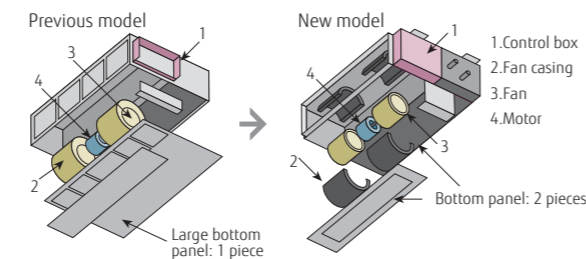
45 model outdoor unit was changed completely. Easier installation was realized by compact and lightweight outdoor unit.



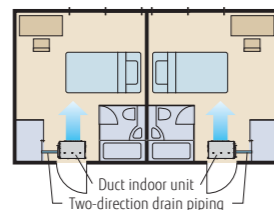
Easy maintenance

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

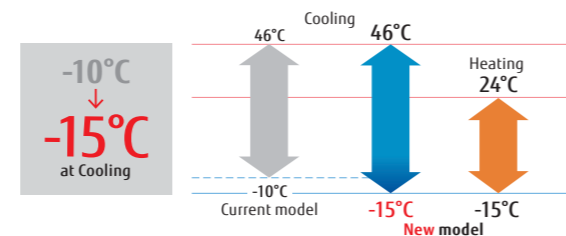
See below for the case of rear suction type



Two-direction drain piping

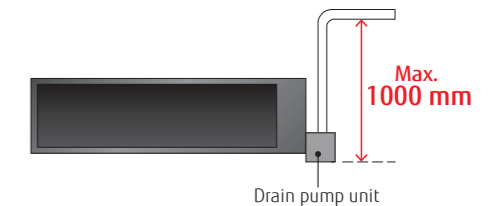


All class low ambient operation



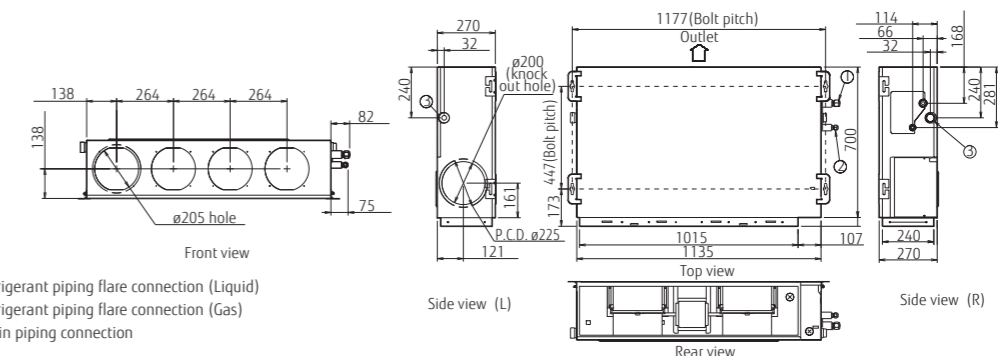
Optional parts

- Wired Remote Controller: UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM, UTY-RNNYM
- Simple Remote Controller: UTY-RSRY, UTY-RHRY, UTY-RSNYM
- IR Receiver Kit: UTY-LBTYM
- Flange (Round): UTD-RF204
- Flange (Square): UTD-SF045T
- Drain Pump Unit: UTZ-PX1NBA
- Wireless LAN Interface: UTY-TFSXZ1
- Remote Sensor Unit: UTY-XSZX
- Long Life Filter: UTD-LF25NA
- External Connect Kit: UTY-XWZXZG



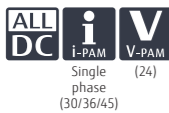
Dimensions

(Unit : mm)



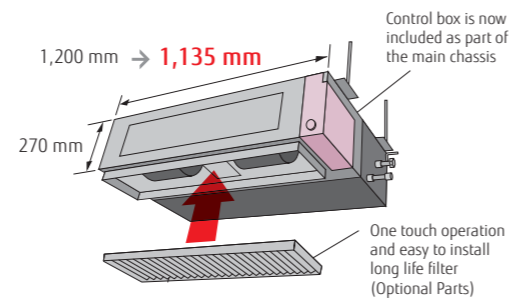
- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection

Medium Static Pressure Duct Standard



Slim & Compact design

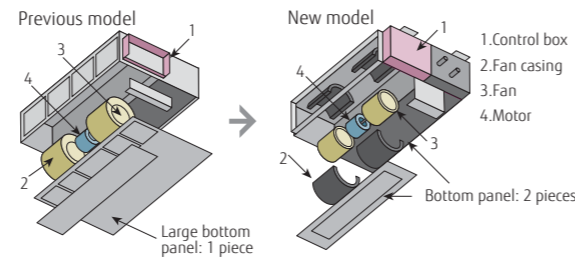
In the case of bottom return air connection, not only does the indoor unit design allow for installation in a narrow ceiling space of up to 270 mm, further space savings have been achieved by mounting the control box internally inside the chassis.



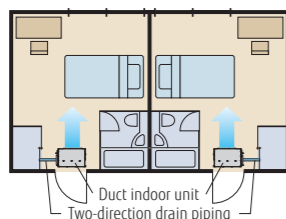
Easy maintenance

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

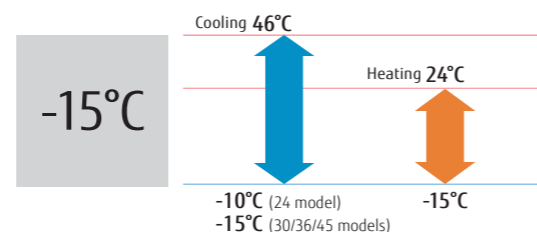
See below for the case of rear suction type



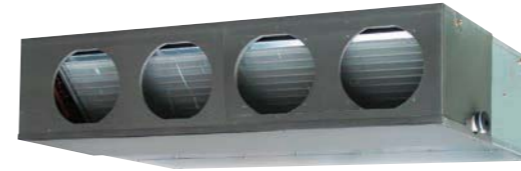
Two-direction drain piping



Low ambient operation



Model : ARYG24LMLA / ARYG30LMLE / ARYG36LMLE / ARYG45LMLA / ARYG36LMLA [3 phase] / ARYG45LMLA [3 phase]



Wired R.C.



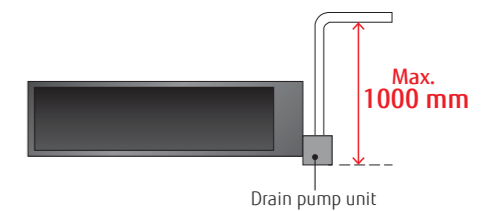
For ARYG24LMLA For ARYG30/36LMLE For ARYG45LMLA (Single-phase) For ARYG36/45LMLA

Specifications

Model No.	Indoor unit		ARYG24LMLA	ARYG30LMLE	ARYG36LMLE	ARYG45LMLA	ARYG45LMLA	ARYG36LMLA	ARYG45LMLA
	Outdoor unit		AOYG24LBCB	AOYG30LETL	AOYG36LETL	AOYG45LBTC	AOYG45LETL	AOYG36LATT	AOYG45LATT
Power Source	Single-phase, ~230V, 50Hz							3-phase, ~400V, 50Hz	
Capacity	Cooling	kW	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.4 (2.8-11.2)	12.1 (4.0-13.0)	12.1 (4.0-13.3)	10.0 (4.7-11.4)	12.5 (5.0-14.0)
	Heating		8.0 (0.9-9.1)	10.0 (2.7-11.2)	11.2 (2.7-12.7)	13.3 (4.2-15.2)	13.1 (4.2-15.5)	11.2 (5.0-14.0)	14.0 (5.4-16.2)
Input Power	Cooling/Heating	kW	2.21/2.26	2.65/2.68	2.96/3.10	4.29/3.84	3.77/3.68	2.84/2.87	3.89/3.88
EER	Cooling		W/W	3.08	3.21	3.18	2.82	3.21	3.52
COP	Heating	W/W		3.54	3.73	3.61	3.46	3.61	3.90
Pdesign	Cooling/Heating(-10°C)		kW	6.8/6.0	8.5/8.0	9.4/8.7	-	-	10.0/10.0
SEER	Cooling	W/W		6.20	5.90	5.70	-	-	5.80
SCOP	Heating		W/W	4.00	3.90	3.80	-	-	4.00
Energy Efficiency Class	Cooling	Class		A++	A+	A+	-	-	A+
	Heating		Class	A+	A	A	-	-	A+
Max. Operating Current	Cooling/Heating	A		14.7/15.7	17.0/17.0	18.5/20.0	23.5/23.5	21.0/21.0	8.5/8.5
Annual Energy Consumption	Cooling		kWh/a	384	504	576	-	-	603
	Heating	kWh/a		2,099	2,868	3,202	-	-	3,497
Moisture Removal			l/h	2.5	2.5	3.0	4.0	4.0	3.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q		31/29/27/25	39/35/30/26	39/35/30/26	42/38/32/28	42/38/32/28	38/36/31/26
	Indoor (Heating)		H/M/L/Q	31/29/27/25	42/35/30/26	42/35/30/26	42/38/32/28	42/38/32/28	40/36/31/26
Sound Power Level	Outdoor (Cooling/Heating)	High		53/54	53/55	54/55	58/58	55/55	51/53
	Indoor (Cooling/Heating)		High	60/62	65/69	65/70	-	-	65/67
Airflow Rate	Indoor / Outdoor (Cooling)	High		1,100/2,850	1,900/3,600	1,900/3,800	2,100/4,650	2,100/6,750	1,800/6,200
	Indoor / Outdoor (Heating)		High	1,100/2,700	2,100/3,600	2,100/3,800	2,100/4,650	2,100/6,850	1,850/6,200
Static pressure range (Standard)		Pa		30 to 150 (35)	30 to 150 (47)	30 to 150 (47)	30 to 150 (60)	30 to 150 (60)	30 to 150 (47)
Net Dimensions	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	716×820×315	830×900×330	830×900×330	914×970×370	1,290×900×330	1,290×900×330
Weight	Indoor	kg(lbs)		38 (84)	40 (88)	40 (88)	40 (88)	40 (88)	40 (88)
	Outdoor		kg(lbs)	42 (93)	61 (134)	61 (134)	75 (165)	86 (190)	104 (229)
Connection Pipe Diameter (Liquid / Gas)		mm		6.35/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)		mm	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1
Max Pipe Length (Pre-Charge)		m	30 (15)	50 (20)	50 (20)	50 (20)	50 (20)	75 (30)	75 (30)
Max Height Difference		m	20	30	30	30	30	30	30
Operation Range	Cooling	°CDB	-10 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating		°CDB	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	1.50 (3.1)	2.10 (4.4)	2.10 (4.4)	2.90 (6.1)	3.35 (7.0)	3.45 (7.2)	3.45 (7.2)

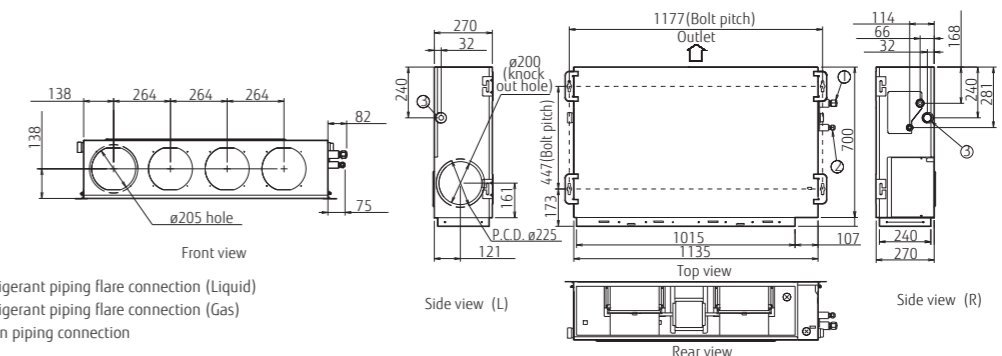
Optional parts

- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- Flange (Round): UTD-RF204
- Flange (Square): UTD-SF045T
- Long Life Filter: UTD-LF25NA
- Remote Sensor Unit: UTY-XSZX
- Drain Pump Unit: UTZ-PX1NBA
- IR Receiver Kit: UTY-LRHYM
- External connect kit: UTD-ECSSA
- Wireless LAN Interface: UTY-TFNX21



Dimensions

(Unit : mm)



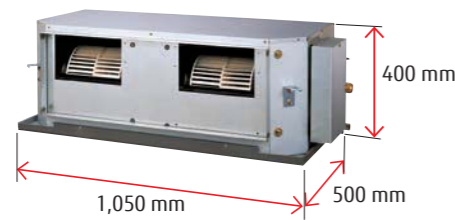
- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection

High Static Pressure Duct



Easy installation (Compact size & Lightweight)

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

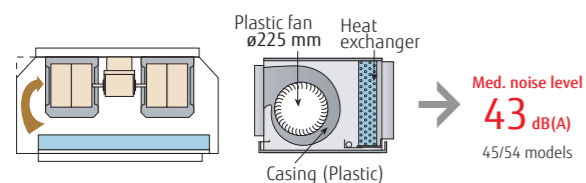


Design also corresponding to high static pressure

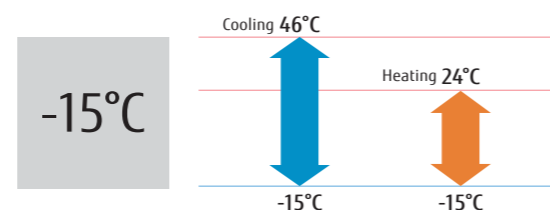


Low noise

Cutting off the corners has enabled less turbulent airflow. Low noise is realized by adopting a plastic case and a plastic fan.



Low ambient operation



Model : ARXG45KHTA / ARXG54KHTA



Specifications

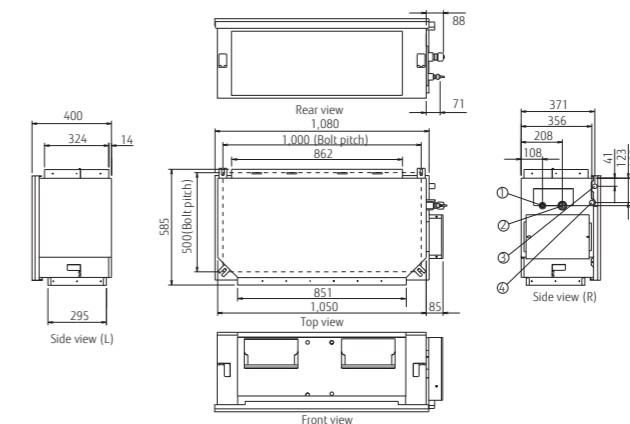
Model No.	Indoor unit		ARXG45KHTA		ARXG54KHTA	
	Outdoor unit		AOYG45KBTB		AOYG54KBTB	
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW	12.1 (4.0-14.0)		13.4 (5.0-14.5)	
	Heating	kW	13.5 (5.0-16.2)		15.5 (5.5-18.0)	
Input Power	Cooling/Heating		4.16/3.61		4.77/4.18	
EER	Cooling		2.91		2.81	
COP	Heating		3.74		3.71	
Pdesign	Cooling/Heating(-10°C)		-		-	
SEER	Cooling		-		-	
SCOP	Heating		-		-	
Energy Efficiency Class	Cooling		-		-	
	Heating		-		-	
Max. Operating Current	Cooling/Heating		28.5		28.5	
Annual Energy Consumption	Cooling		-		-	
	Heating		-		-	
Moisture Removal			1.5		2.0	
	Indoor (Cooling)	H/M/L	47/43/40		47/43/40	
Sound Pressure Level	Indoor (Heating)	H/M/L	47/43/40		47/43/40	
	Outdoor (Cooling/Heating)	High	57/57		57/59	
Sound Power Level	Indoor (Cooling/Heating)	High	75/74		75/74	
	Outdoor (Cooling/Heating)	High	71/71		73/73	
Airflow Rate	Indoor / Outdoor (Cooling)	High	3,350/4,450		3,350/4,450	
	Indoor / Outdoor (Heating)	High	3,350/4,450		3,350/4,450	
Static pressure range (Standard)			100 to 250 (100)		100 to 250 (100)	
Net Dimensions	Indoor	mm	400x1,050x500		400x1,050x500	
	Outdoor	mm	46 (101)		46 (101)	
Weight	Indoor	kg(lbs)	998x940x320		998x940x320	
	Outdoor	kg(lbs)	67 (148)		67 (148)	
Connection Pipe Diameter (Liquid / Gas)			9.52/15.88		9.52/15.88	
Drain hose Diameter (I.D./O.D.)			23.4/25.4		23.4/25.4	
Max Pipe Length (Pre-Charge)			50 (30)		50 (30)	
Max Height Difference			30		30	
Operation Range	Cooling		-15 to 46		-15 to 46	
	Heating		-15 to 24		-15 to 24	
Refrigerant	Type (Global Warming Potential)		R32 (675)		R32 (675)	
	Charge		kg(CO2eq-T)		2.70(1.823)	

Optional parts

- Wired Remote Controller: UTY-RVNYM, UTY-RNNYM
- Simple Remote Controller: UTY-RSNYM
- Wireless LAN Interface: UTY-TFNXZ1
- Remote Sensor Unit: UTY-XSZX
- Long Life Filter: UTD-LF60KA
- External Connect Kit: UTD-ECSSA

Dimensions

(Unit : mm)



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

High Static Pressure Duct



Model : ARYG45LHTA / ARYG54LHTA / ARYG45LHTA [3 phase] / ARYG54LHTA [3 phase] / ARYG60LHTA [3 phase]



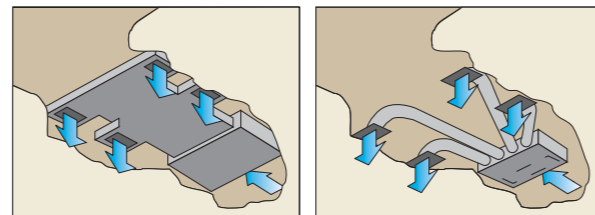
Specifications

Model No.	Indoor unit		ARYG45LHTA	ARYG54LHTA	ARYG45LHTA	ARYG54LHTA	ARYG60LHTA
	Outdoor unit		AOYG45LETL	AOYG54LETL	AOYG45LATT	AOYG54LATT	AOYG60LATT
Power Source			Single-phase, ~230V, 50Hz		3-phase, ~400V, 50Hz		
Capacity	Cooling	kW	12.5 (4.5-14.0)	13.4 (5.0-14.5)	12.5 (5.0-14.0)	14.0 (5.4-16.0)	15.0 (6.2-17.5)
	Heating	kW	14.0 (5.0-16.2)	16.0 (5.5-18.0)	14.0 (5.4-16.2)	16.0 (5.8-18.0)	18.0 (6.2-20.0)
Input Power	Cooling/Heating	kW	4.30/3.80	4.77/4.69	4.06/3.67	4.65/4.37	4.70/5.15
EER	Cooling	W/W	2.91	2.81	3.08	3.01	3.19
COP	Heating	W/W	3.68	3.41	3.81	3.66	3.50
Max. Operating Current	Cooling/Heating	A	22.5/22.5	23.5/23.5	11.0/11.0	12.0/12.0	12.5 /12.5
Moisture Removal		l/h	1.5	2.0	1.5	2.5	2.0
Sound Pressure	Indoor (Cooling)	H/M/L/Q	47/43/40/-	47/43/40/-	47/43/40/-	47/43/40/-	45/40/36/-
	Indoor (Heating)	H/M/L/Q	47/43/40/-	47/43/40/-	47/43/40/-	47/43/40/-	45/40/36/-
	Outdoor (Cooling/Heating)	High	55/55	55/57	54/54	55/56	56/58
Airflow Rate	Indoor / Outdoor (Cooling)	High	3,350/6,750	3,350/6,750	3,350/6,750	3,350/6,900	3,550/6,900
	Indoor / Outdoor (Heating)	High	3,350/6,200	3,350/6,850	3,350/6,200	3,350/6,900	3,550/7,300
Static pressure range (Standard)		Pa	100 to 250 (100)	100 to 250 (100)	100 to 250 (100)	100 to 250 (100)	60 to 260 (60)
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	425×1,250×490
	Outdoor	mm	1,290×900×330	1,290×900×330	1,290×900×330	1,290×900×330	1,290×900×330
Weight	Indoor	kg(lbs)	46 (101)	46 (101)	46 (101)	46 (101)	54 (119)
	Outdoor	kg(lbs)	86 (189)	86 (189)	104 (229)	104 (229)	104 (229)
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
Drain hose Diameter (I.D./O.D.)		mm	23.4/25.4	23.4/25.4	23.4/25.4	23.4/25.4	23.4/25.4
Max Pipe Length (Pre-Charge)		m	50 (20)	50 (20)	75 (30)	75 (30)	75 (30)
Max Height Difference			30	30	30	30	30
Operation Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	3.35 (7.0)	3.35 (7.0)	3.45 (7.2)	3.45 (7.2)	3.45 (7.2)

High energy efficiency

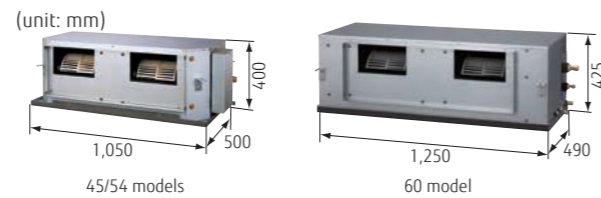
Significantly greater efficiency is realized by using all DC inverter technology. (60 model)

Design also corresponding to high static pressure



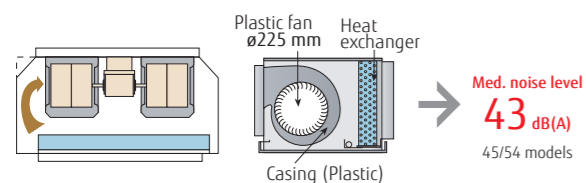
Easy installation (Compact size & Lightweight)

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

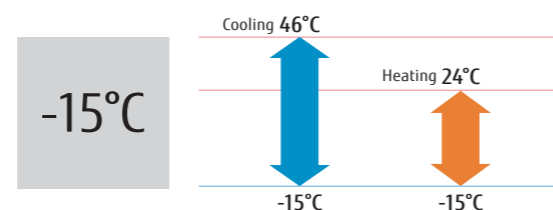


Low noise

Cutting off the corners has enabled less turbulent airflow. Low noise is realized by adopting a plastic case and a plastic fan.



Low ambient operation

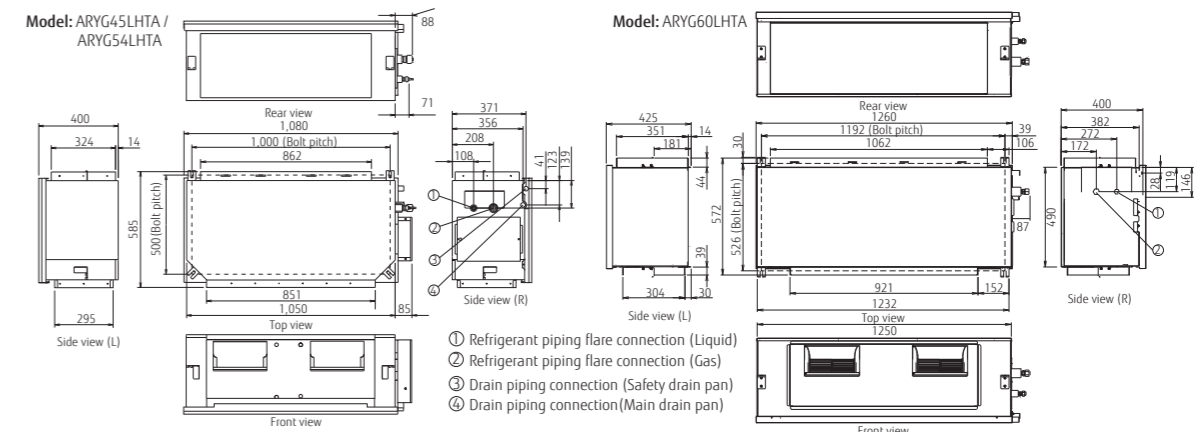


Optional parts

- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- Long-Life Filter: UTD-LF60KA (ARYG45/54LHTA)
- Remote Sensor Unit: UTY-XSZX
- IR Receiver Kit: UTY-LRHYM(ARYG60LHTA)
- External connect kit: UTD-ECSSA
- Wireless LAN Interface: UTY-TFSXZ1

Dimensions

(Unit : mm)



Big Duct



Model : ARYG72LHTA / ARYG90LHTA



Wired R.C.

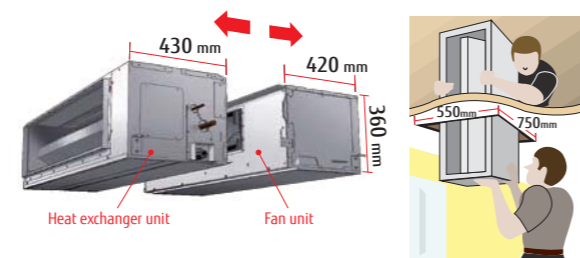


Specifications

Model No.	Indoor unit		ARYG72LHTA	ARYG90LHTA
	Outdoor unit		AOYG72LRLA	AOYG90LRLA
Power Source	Indoor		Single-phase, ~230V, 50Hz	
	Outdoor		3-phase, ~400V, 50Hz	
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)		4.6/4.6	6.0/6.0
	Outdoor(Cooling/Heating)		13.3/13.3	14.6/14.6
Max. Operating Current	Indoor(Cooling/Heating)		13.3/13.3	14.6/14.6
	Outdoor(Cooling/Heating)		13.3/13.3	14.6/14.6
Moisture Removal			4.5	6.0
	Indoor (Cooling)	H/M/L/Q	46/43/41/39	47/44/42/40
Sound Pressure	Indoor (Heating)	H/M/L/Q	46/43/41/39	47/44/42/40
	Outdoor(Cooling/Heating)	High	55/55	55/57
Airflow Rate	Indoor / Outdoor (Cooling)	High	4,300/8,400	4,300/8,400
	Indoor / Outdoor (Heating)		High	4,300/8,400
Static pressure range (Standard)		Pa	50 to 150 (72)	50 to 200 (72)
Net Dimensions		mm	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 (363)	174 (383)
	Outdoor		12.7/25.4	12.7/25.4
Connection Pipe Diameter (Liquid / Gas)		mm	24.4/32.0	24.4/32.0
Drain Hose Diameter (I.D./O.D.)		mm	100 (30)	100 (30)
Max Pipe Length (Pre-Charge)		m	30	30
Height Difference	Cooling		-15 to 46	-15 to 46
	Heating		-20 to 24	-20 to 24
Operation Range	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)
	Charge		5.6 (11.7)	7.1 (14.8)

Separation is possible by lightweight compact design

The indoor unit can be separated into fan unit and heat-exchanger unit to assist the installation works.



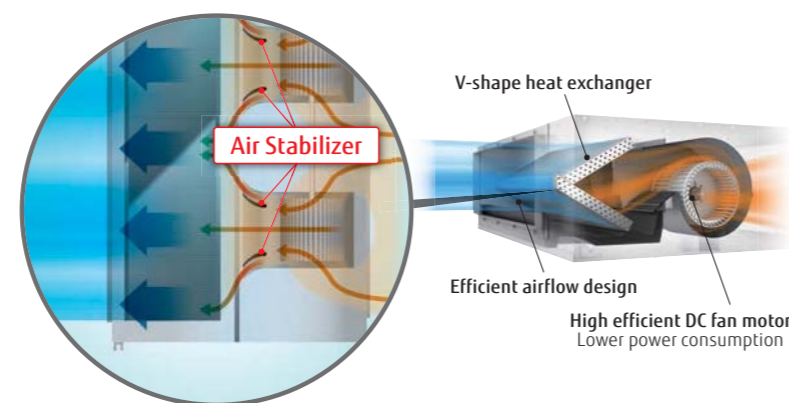
Automatic Airflow adjustment function

This function can set the optimum airflow automatically, so installation time is shortened drastically.



Quiet operation

The combination of the V-shaped heat exchanger, air stabilizer, and the high efficient DC fan motor allowed quiet operation despite of the small structural design.

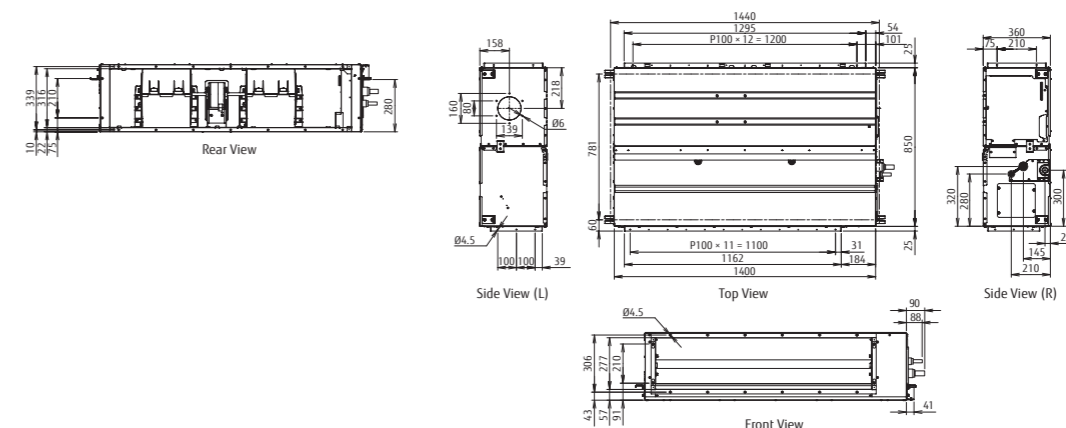


Optional parts

- Wired Remote Controller: UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM, UTY-RNNYM
- Simple Remote Controller: UTY-RSRY, UTY-RHRY, UTY-RSNYN
- IR Receiver Unit: UTY-LBTYM, UTY-LRHYM
- Remote Sensor Unit: UTY-XSZX
- External Connect Kit: UTY-XWZXZG
- External Input and Output PCB: UTY-XCSX
- Drain Pump Unit: UTZ-PX1NAB
- Long Life filter: UTD-LFKA
- Wireless LAN Interface: UTY-TFSXZ1

Dimensions

(Unit : mm)



Floor

Compact & Comfort



Model: AGYG09LVCA / AGYG12LVCA / AGYG14LVCA

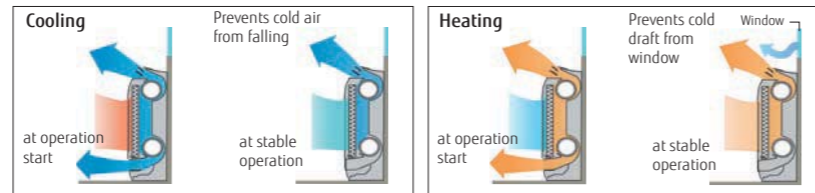


Specifications

Model No.	Indoor unit		AGYG09LVCA	AGYG12LVCA	AGYG14LVCA
	Outdoor unit		AOYG09LVCA	AOYG12LVCA	AOYG14LVCA
Power Source	Single-phase, ~230V, 50Hz				
Capacity	Cooling	kW	2.6 (0.9-3.5)	3.5 (0.9-4.0)	4.2 (0.9-5.0)
	Heating	kW	3.5 (0.9-4.9)	4.5 (0.9-5.3)	5.2 (0.9-6.3)
Input Power	Cooling/Heating		0.53/0.79	0.94/1.19	1.14/1.44
	Cooling	W/W	4.91	3.72	3.68
EER	Cooling		4.43	3.78	3.61
	Heating		2.6/2.9	3.5/3.8	4.2/4.7
Pdesign	Cooling/Heating(-10°C)		7.00	6.50	6.40
	Cooling	W/W	4.20	4.00	4.00
SEER	Cooling		A++	A++	A++
	Heating (Average)		A+	A+	A+
SCOP	Cooling		7.0/10.0	7.0/10.0	9.0/13.5
	Heating		130	188	230
Energy Efficiency Class	Cooling		967	1,330	1,645
	Heating		1.3	1.8	2.1
Max. Operating Current	Cooling/Heating		40/35/29/22	40/35/29/22	44/38/31/22
	Cooling	H/M/L/Q	40/35/29/22	40/35/29/22	43/37/29/22
Annual Energy Consumption	Cooling	kWh/a	47/48	48/49	50/50
	Heating	kWh/a	55/56	55/56	58/58
Moisture Removal	Cooling		64/65	64/65	65/66
	Heating		570/1,680	570/1,680	650/1,910
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	600/1,490	600/1,680	650/1,750
	Indoor (Heating)	H/M/L/Q	600/1,490	600/1,680	650/1,750
Sound Power Level	Outdoor (Cooling/Heating)	High	14 (31)	14 (31)	14 (31)
	Indoor (Cooling/Heating)	High	36 (79)	36 (79)	40 (88)
Airflow Rate	Indoor / Outdoor (Cooling)	High	6.35/9.52	6.35/9.52	6.35/12.70
	Indoor / Outdoor (Heating)	High	13.8/15.8 to 16.7	13.8/15.8 to 16.7	13.8/15.8 to 16.7
Net Dimensions H x W x D	Indoor	mm	20 (15)	20 (15)	20 (15)
	Outdoor	mm	15	15	15
Weight	Indoor	kg(lbs)	-10 to 43	-10 to 43	-10 to 43
	Outdoor	kg(lbs)	-15 to 24	-15 to 24	-15 to 24
Connection Pipe Diameter (Liquid / Gas)	Cooling		R410A (2,088)	R410A (2,088)	R410A (2,088)
	Heating		1.05 (2.2)	1.05 (2.2)	1.15 (2.4)
Drain hose Diameter (I.D./O.D.)	Cooling		1.05 (2.2)	1.05 (2.2)	1.15 (2.4)
	Heating		1.05 (2.2)	1.05 (2.2)	1.15 (2.4)
Max Pipe Length (Pre-Charge)	Cooling		1.05 (2.2)	1.05 (2.2)	1.15 (2.4)
	Heating		1.05 (2.2)	1.05 (2.2)	1.15 (2.4)
Max Height Difference	Cooling		1.05 (2.2)	1.05 (2.2)	1.15 (2.4)
	Heating		1.05 (2.2)	1.05 (2.2)	1.15 (2.4)
Operation Range	Cooling		1.05 (2.2)	1.05 (2.2)	1.15 (2.4)
	Heating		1.05 (2.2)	1.05 (2.2)	1.15 (2.4)
Refrigerant	Type (Global Warming Potential)		1.05 (2.2)	1.05 (2.2)	1.15 (2.4)
	Charge		1.05 (2.2)	1.05 (2.2)	1.15 (2.4)

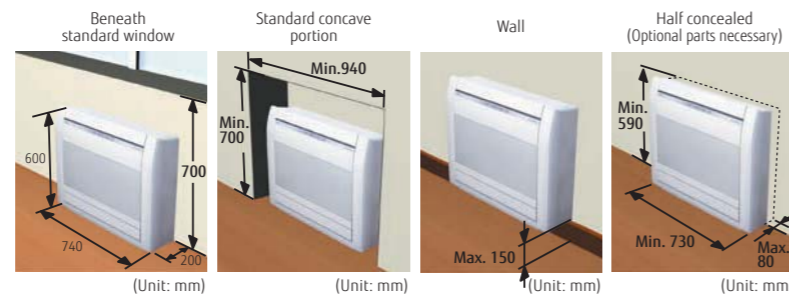
2-Fan & Wide airflow

Individual vertical airflow by 2-fan can control the whole room comfortably.



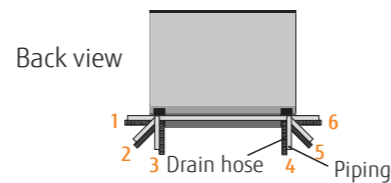
Flexible & easy installation

Due to compact and whole surface suction method model, floor, concealed, half concealed, or wall mounted installation can be available to match the room layout.



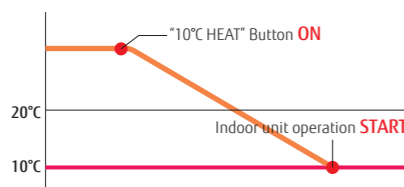
Flexible piping connection 6 direction of drain & piping

Drain hose and piping can be drawn flexibly in the right, left, side, and down directions

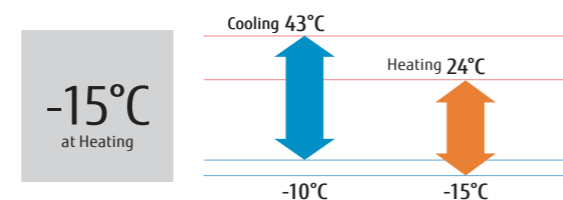


10°C HEAT Operation

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



Low ambient operation

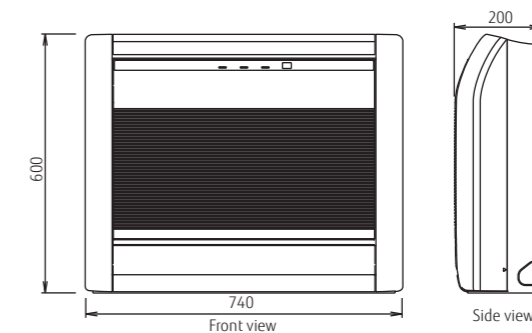


Optional parts

- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- Half Concealed Kit: UTR-STA
- Wireless LAN Interface: UTY-TFNXZ1
- External Connect Kit: UTY-XWZX

Dimensions

(Unit : mm)



Floor/Ceiling

Comfort & Dual Design



Model : ABYG18LVTB / ABYG24LVTA



Wireless R.C.



For ABYG18LVTB



For ABYG24LVTA

Specifications

Model No.	Indoor unit		Outdoor unit		ABYG18LVTB	ABYG24LVTA
	AOYG18LBCB		AOYG24LBCB			
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW			5.2 (0.9-5.9)	6.8 (0.9-8.0)
	Heating	kW			6.0 (0.9-7.5)	8.0 (0.9-9.1)
Input Power	Cooling/Heating		kW	1.62/1.66		
	Cooling	W/W	3.21			
COP	Cooling		3.61			
	Heating		3.54			
Pdesign	Cooling/Heating(-10°C)		kW	5.2/5.2		
SEER	Cooling		6.10			
	Heating (Average)		4.00			
SCOP	Cooling		A++			
	Heating (Average)		A+			
Max. Operating Current	Cooling/Heating		A	11.5/13.5		
	Cooling	kWh/a	298			
Annual Energy Consumption	Cooling		1,818			
	Heating		2,153			
Moisture Removal	Cooling		l/h	2.0		
	Heating		2.7			
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	43/40/34/31			
	Indoor (Heating)	H/M/L/Q	43/40/34/31			
	Outdoor (Cooling/Heating)	High	50/50			
Sound Power Level	Indoor (Cooling/Heating)	High	57/57			
	Outdoor (Cooling/Heating)	High	62/65			
	Outdoor (Cooling/Heating)	High	61/61			
Airflow Rate	Indoor / Outdoor (Cooling)	High	780/2,380			980/2,850
	Indoor / Outdoor (Heating)	High	780/2,080			980/2,700
	Indoor / Outdoor (Heating)	High	m³/h			
Net Dimensions H x W x D	Indoor		mm	199×990×655		
	Outdoor		mm	632×799×290		
Weight	Indoor		kg (lbs)	27 (59)		
	Outdoor		kg (lbs)	36 (79)		
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/12.70		
Drain hose Diameter (I.D./O.D.)			mm	25/32		
Max Pipe Length (Pre-Charge)			m	25 (15)		
Max Height Difference				15		
Operation Range	Cooling		°CDB	-10 to 46		
	Heating		°CDB	-15 to 24		
Refrigerant	Type (Global Warming Potential)			R410A (2,088)		
	Charge		kg (CO2eq-T)	1.20 (2.5)		

Flexible installation

Example for floor installation
Floor console

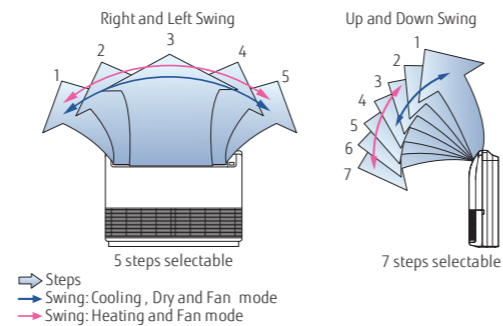


Example for ceiling installation
Under ceiling



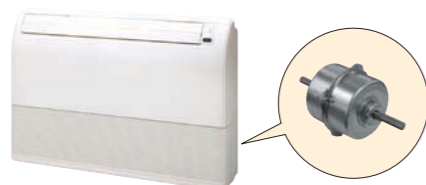
Double auto swing

A combination of right/left and up/down directional swing allows 3-dimensional air direction control

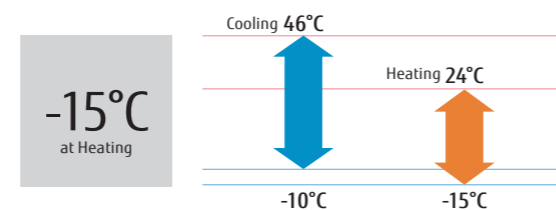


High power DC fan motor

- High power
- Wide rotation range
- High efficiency



Low ambient operation

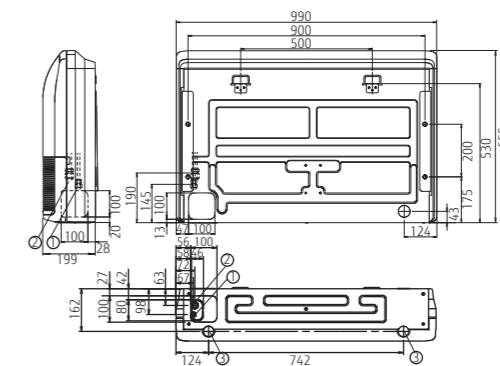


Optional parts

- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- Wireless LAN Interface: UTY-TFNXZ1
- External Connect Kit: UTY-XWZX

Dimensions

(Unit : mm)



Ceiling

Comfort for Large Room



Model : ABYG30LRTE / ABYG36LRTE / ABYG45LRTA /
ABYG36LRTA [3 phase] / ABYG45LRTA [3 phase] / ABYG54LRTA [3 phase]



Wireless R.C.



For ABYG30/36LRTE



For ABYG45LRTA (Single-phase)



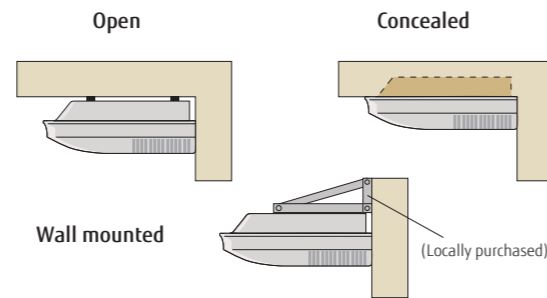
For ABYG36/45/54LRTA

Specifications

Model No.	Indoor unit		ABYG30LRTE	ABYG36LRTE	ABYG45LRTA	ABYG45LRTA	ABYG36LRTA	ABYG45LRTA	ABYG54LRTA
	Outdoor unit		AOYG30LETL	AOYG36LETL	AOYG45LBT	AOYG45LETL	AOYG36LATT	AOYG45LATT	AOYG54LATT
Power Source	Single-phase, ~230V, 50Hz				3-phase, ~400V, 50Hz				
Capacity	Cooling	kW	8.5 (2.8-10.0)	9.4 (2.8-11.2)	12.1 (4.0-13.0)	12.1 (4.0-13.3)	10.0 (4.7-11.4)	12.5 (5.0-14.0)	14.0 (5.4-16.0)
	Heating		10.0 (2.7-11.2)	11.2 (2.7-12.7)	13.3 (4.2-15.2)	13.3 (4.2-15.5)	11.2 (5.0-14.0)	14.0 (5.4-16.2)	16.0 (5.8-18.0)
Input Power	Cooling/Heating	kW	2.65/2.77	2.93/3.02	4.29/3.84	3.77/3.68	2.84/2.87	3.89/3.88	4.65/4.67
	Cooling		3.21	3.21	2.82	3.21	3.52	3.21	3.01
EER	Cooling	W/W	3.61	3.71	3.46	3.61	3.90	3.61	3.43
	Heating		-	-	-	-	-	-	-
COP	Cooling/Heating(-10°C)	kW	8.5/8.0	9.4/8.7	-	-	10.0/10.0	-	-
	Cooling		6.10	6.00	-	-	6.10	-	-
SEER	Cooling	W/W	4.20	4.10	-	-	4.10	-	-
	Heating		-	-	-	-	-	-	-
SCOP	Cooling	A	A++	A+	-	-	A++	-	-
	Heating		A+	A+	-	-	A+	-	-
Max. Operating Current	Cooling/Heating	A	17.0/17.0	18.5/20.0	23.5/23.5	20.5/20.5	7.9/7.9	8.9/8.9	9.9/9.9
	Cooling		487	548	-	-	573	-	-
Annual Energy Consumption	Cooling	kWh/a	2,662	2,965	-	-	3,414	-	-
	Heating		2.5	3.0	4.0	4.0	3.0	4.5	5.0
Moisture Removal	Indoor (Cooling)	l/h	45/43/37/32	47/43/37/32	49/45/39/34	49/45/39/34	47/43/37/32	49/45/39/34	51/48/42/38
	Indoor (Heating)		45/43/37/32	47/43/37/32	49/45/39/34	49/45/39/34	47/43/37/32	49/45/39/34	51/48/42/38
Sound Pressure Level	Outdoor(Cooling/Heating)	dB(A)	53/55	54/55	58/58	55/55	51/53	54/54	55/56
	Indoor(Cooling/Heating)		57/60	60/61	-	-	61/61	-	-
Sound Power Level	Outdoor(Cooling/Heating)	High	68/69	69/70	-	-	67/69	-	-
	Indoor / Outdoor (Cooling)		m³/h	1,660/3,600	1,900/3,800	2,100/4,650	2,100/6,750	1,900/6,200	2,100/6,750
Airflow Rate	Indoor / Outdoor (Heating)	High		1,660/3,600	1,900/3,800	2,100/4,650	2,100/6,200	1,900/6,200	2,100/6,200
	Indoor		mm	240×1,660×700	240×1,660×700	240×1,660×700	240×1,660×700	240×1,660×700	240×1,660×700
Net Dimensions H x W x D	Indoor	mm	830×900×330	830×900×330	914×970×370	1,290×900×330	1,290×900×330	1,290×900×330	1,290×900×330
	Outdoor		mm	46 (101)	46 (101)	46 (101)	46 (101)	46 (101)	48 (106)
Weight	Indoor	kg(lbs)	61 (134)	61 (134)	75 (165)	86 (189)	104 (229)	104 (229)	104 (229)
	Outdoor		kg(lbs)	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)	mm		22.0/25.6	22.0/25.6	21.5/26.0	21.5/26.0	21.5/26.0	21.5/26.0	
Drain port Diameter (I.D./O.D.)	m		50 (20)	50 (20)	50 (20)	50 (20)	75 (30)	75 (30)	75 (30)
Max Pipe Length (Pre-Charge)	°CDB		30	30	30	30	30	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
	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)	R410A (2,088)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)		2.10 (4.4)	2.10 (4.4)	2.90 (6.1)	3.35 (7.0)	3.45 (7.2)	3.45 (7.2)

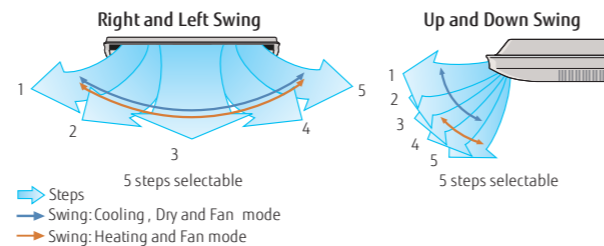
Flexible installation

Various installations are possible to match the room layout.

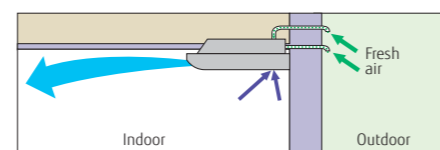


Multi auto swing

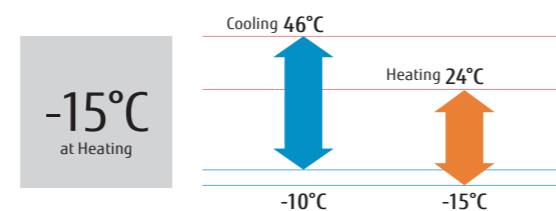
A combination of right/left and up/down directional swing allows 3-dimensional air direction control.



Fresh air intake

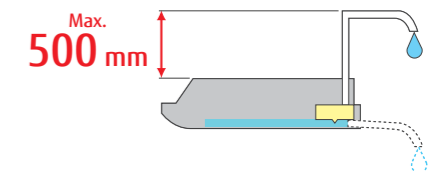


Low ambient operation



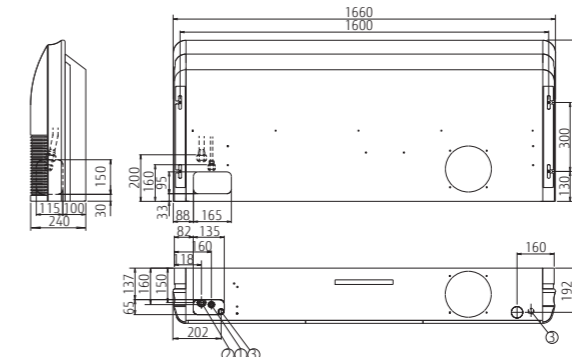
Optional parts

- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- Drain Pump Unit: UTR-DPB24T
- Flange (Round): UTD-RF204
- Wireless LAN Interface: UTY-TFNX21
- External Connect Kit: UTD-ECSSA, UTY-XWZX



Dimensions

(Unit : mm)



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

Feature Summary

Type	Wall Mounted												Cassette					Duct						Floor	Floor/Ceiling	Ceiling						
	Series	Flagship Range	Designer Range	Standard Range		ECO Range		Designer Range		Standard Range		ECO Range	Compact 4-way Flow		Circular Flow		4-way Flow	Mini (With drain pump)	Slim (With drain pump)		Medium Static Pressure (Compact & Comfort)		Medium Static Pressure (Standard)				High Static Pressure		Big			
Model No.	ASYG 12KXCA	ASYG 07/09/12/14 KGTB	ASYG 07/09/12/14 KMTB	ASYG 18/24KMTA	ASYG 07/09/12 KPCA	ASYG 18/24KLCA	ASYG 09/12LCA	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG 18/30LFCA, ASYG 24LFCC	ASYG 30/36LMTA	ASYG 07/09/12 LLCE	AUXG 09/12/14/18/22/24 KVL A	AUYG 12/14/18 LVLB, AUYG 24LVL A	AUXG 18/22/24/30/36/45/54 KRLB	AUXG 18/24/30/36/45/54 LRLB	AUYG 30/36LRLE, AUYG 36/45/54 LRLA	ARYG 12/14/18 LSLAP	ARXG 09/12/14/18 KLLAP	ARYG 12/14/18 LLTB	ARXG 12/14/18/22/24/30/36/45/54 KHTAP	ARYG 12/14/18/24/30/36/45/54 LHTBP	ARXG 22/24/30/36/45 KMLA	ARYG 24/36/45 LMLA, ARYG 30/36LML E	ARXG 45/54KHTA	ARYG 45/54/60 LHTA	ARYG 72/90LHTA	AGYG 09/12/14 LVCA	ABYG 18LVTB, ABYG 24LVT A	ABYG 30/36LRTE, ABYG 36/45/54 LRTA		
Energy Saving Function	Dual side fans	●																														
	Save human sensor	●	●					●			●																					
	Save & Stop human sensor														○	○																
	Economy mode	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Room temperature set point limitation		○	○	○			○	○	○	○	○		○	○	●	●	○	●	○	○	●	●	○	○	○	○	○	○	○	○	○
	Set temperature auto return		○	○	○			○	○	○	○	○		●	○	●	●	○	●	○	○	●	●	○	○	○	○	○	○	○	○	○
Comfortable Function	Powerful heating						●																									
	Power diffuser	●											●	●																		
	Server room operation											●																				
	Powerful mode	●	●	●	●	●	●	●	●	●	●	●	●																			
	10°C HEAT operation	●	●	●	●			●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Low noise mode	●	●	●	●			●	●	●	●	●	●		○	○	(45/54)	(45/54)				○	○	○	○	○	○	○	○	○	○	○
	Auto-changeover	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Up/down swing flaps		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○												
	Double swing automatic	●			●							●	●																			
	Automatic fan speed	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Auto restart	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Connectable fresh air duct														○	●	●	●				●	●	●	●						●	
	Fresh air intake														○	○	○	○		○	○	○	○	○	○	○	○	○	○	○	○	○
	Connectable distributing duct															●	●	●				●	●									
Individual airflow direction control															●	●																
Convenient Function	Auto off timer		○	○	○			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Sleep timer	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Program timer	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Weekly timer		●	○	●			●	●		●				●	●						●	●									
	Weekly + setback timer		○	○	○			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Filter sign		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	External error output		○	○	○			○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Clean Function	Plasma air clean	●																														
	Filter auto clean	●																														
	Ion deodorization filter		○	○	●			●	●	●	●	●																				
	Apple-catechin filter		○	○	●			●	●	●	●	●																				
	Long life filter																					○	○	○	○		○	○	○	○	○	
Installation	Washable panel			●	●	●				●	●	●																				
	Automatic airflow adjustment																				●	●					●					
	Drain pump as standard													●	●	●	●	●	●	●	●	●	○	○			○				○	
Blue fin												(30)	●								●	●	●	●	●	●	●	●	●	●	(45)	

Light Commercial & Residential MULTI SPLIT

- 120 Multi Split Overview
- 122 Outdoor Units Lineup
- 124 2 – 8 Rooms Connectable Indoor Units
- 126 Simultaneous Multi Connectable Indoor Units
- 168 Feature Explanation & Summary



Refrigerant type R32 models

2 Rooms Multi

128 **New** 2 Rooms Multi

Simultaneous Multi

136 **New** Simultaneous Multi Twin/Triple

2 Rooms Multi Split Indoor Units

142 **New** 2 Rooms Multi Indoor Units Specifications

146 **New** 2 Rooms Multi Combination Table



Refrigerant type R410A models

2 – 8 Rooms Multi

130 2 & 3-4 Rooms Multi

132 5-6 Rooms Multi

134 8 Rooms Multi

Simultaneous Multi

138 Simultaneous Multi Twin/Triple

140 Simultaneous Multi Twin/Triple/Double Twin

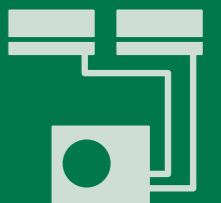
2 – 8 Rooms Multi Split Indoor Units

144 2-8 Rooms Indoor Units Specifications

147 2-8 Rooms Multi Combination Table

Control several indoor units with one outdoor unit.
Build the system you desire.

If you want to keep a large floor as well as many rooms comfortable, we recommend to use our Multi Splits to build a compact system using just one outdoor unit. Choose from a large lineup of indoor units, which match up well to your rooms. You can mix and match them as you like. Build the system that is just right for you.

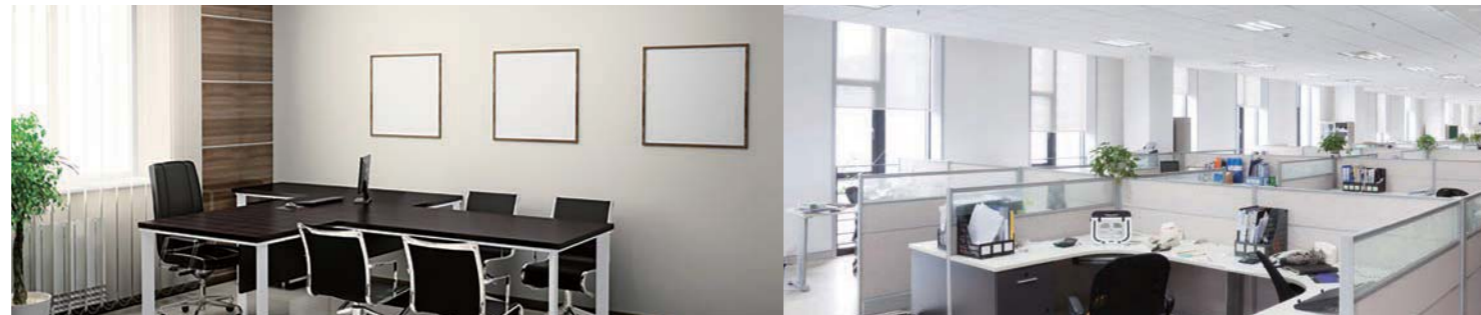


Multi Split Overview

Space-saving multi outdoor units can connect up to 8 indoor units in multiple rooms. New refrigerant R32 models are additionally added. Multi split type can be introduced in various situations like in homes, in offices and stores to provide environment-friendly comfort.



NEW
2 Rooms Multi



NEW
Twin/Triple



2-8 Rooms Multi













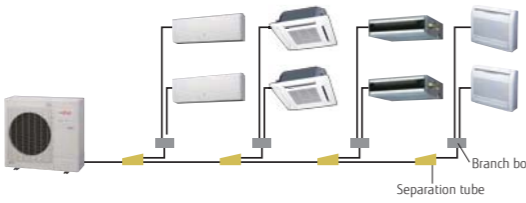



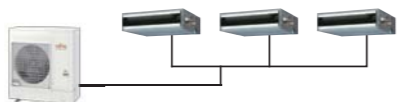



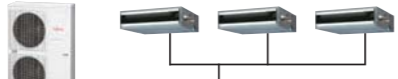


2-8 Rooms Multi type units are recommended for situations that require air conditioning in multiple rooms such as in family house or offices. Between 2 to 8 indoor units can be connected and individually operated. A variation of individual and central remote controller are available for operation control, time scheduling of each room and energy savings. Due to space - saving outdoor unit enables installation on balcony or under a waist-high window.

<p>2 & 3-4 Rooms Multi</p> <p>2 Rooms 14/18 class</p>	<p>5-6 Rooms Multi</p> <p>36/45 class</p>	<p>Twin/Triple</p> <p>36/45/54 class (Single phase/3 phase)</p>	<p>Twin/Triple/Double Twin</p> <p>72/90 class (3 phase)</p>
<p>3 Rooms 18/24 class</p>	<p>8 Rooms Multi</p> <p>45 class</p>		

Simultaneous Multi

Simultaneous Multi type is recommended for situations where multiple indoor units need to be operated simultaneously such as for a small building, for small office building entrance, meeting room, educational facility hall, and other large spaces. Up to 4 indoor units can be operated simultaneously. This type is suitable for office spaces with large areas and properties with unusual floor layout.

Outdoor Units Lineup

		Class	14	18	18	24	30	36	45	54	72	90	
		Cooling rated capacity(kW)	4	5	5.4	6.8	8	10	12.5	14	14	19	22
2 & 3-4 Rooms Multi	2 Rooms Multi Up to 2 units	 	AOYG14KBT2 	AOYG18KBT2									
		 	AOYG14LAC2	AOYG18LAC2									
	3 Rooms Multi Up to 3 units	 			AOYG18LAT3*	AOYG24LAT3*							
	4 Rooms Multi Up to 4 units						AOYG30LAT4*						
5-6 Rooms Multi	5 Rooms Multi Up to 5 units	 						AOYG36LBA5*					
	6 Rooms Multi Up to 6 units								AOYG45LBA6*				
8 Rooms Multi Up to 8 units		 									AOYG45LBT8*		
Simultaneous Multi	Twin Single phase	 						AOYG36KBTB	AOYG45KBTB				
	Twin/Triple Single phase	 									AOYG54KBTB		
	Twin/Triple Single phase	 						AOYG36LBTB	AOYG45LBTB*1		AOYG54LBTB*2		
	Twin/Triple 3 phase	 						AOYG36LATT	AOYG45LATT		AOYG54LATT		
	Twin/Triple/Double Twin 3 phase	 										AOYG72LRLA	AOYG90LRLA

Note: **1. 2 Rooms Multi:** Connectable indoor units are 2 units.
 AOYG14KBT2: Total capacity of indoor units connected must be between 4.0 kW and 6.0 kW.
 AOYG18KBT2: Total capacity of indoor units connected must be between 4.0 kW and 7.5 kW.
 AOYG14LAC2: Total capacity of indoor units connected must be between 4.0 kW and 6.0 kW.
 AOYG18LAC2: Total capacity of indoor units connected must be between 4.0 kW and 7.0 kW.

2. 3 Rooms Multi: Connectable indoor units are 2 to 3 units.
 AOYG18LAT3: Total capacity of indoor units connected must be between 4.0 kW and 8.5 kW.
 AOYG24LAT3: Total capacity of indoor units connected must be between 4.0 kW and 10.5 kW.
3. 4 Rooms Multi: Connectable indoor units are 3 to 4 units.
 AOYG30LAT4: Total capacity of indoor units connected must be between 7.5 kW and 14.0 kW.

4. 5 Rooms Multi: Connectable indoor units are 2 to 5 units.
 AOYG36LBA5: Total capacity of indoor units connected must be between 7.5 kW and 15.5 kW.
5. 6 Rooms Multi: Connectable indoor units are 2 to 6 units.
 AOYG45LBA6: Total capacity of indoor units connected must be between 9.5 kW and 18.0 kW.
6. 8 Rooms Multi: 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.



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

2 – 8 Rooms Connectable Indoor Units



Type	2 Rooms		
Model name	AOYG14KBTA2	AOYG18KBTA2	
Multi Split Outdoor Unit			
Capacity (kW)	Cooling	4.0	5.0
	Heating	4.4	5.6

Indoor Unit	BTU	kW Class	2 Rooms	3 Rooms
 ASYG07/09/12/14KGTB ASYG07/09/12/14KMTB	7,000	2.0	●	●
	9,000	2.5	●	●
	12,000	3.5	●	●
	14,000	4.0	–	●
 AUXG07/09/12/14KVL	7,000	2.0	●	●
	9,000	2.5	●	●
	12,000	3.5	●	●
	14,000	4.0	–	●
 ARXG07/09/12/14KSLAP	7,000	2.0	●	●
	9,000	2.5	●	●
	12,000	3.5	●	●
	14,000	4.0	–	●
 ARXG07/09/12/14KLLAP	7,000	2.0	●	●
	9,000	2.5	●	●
	12,000	3.5	●	●
	14,000	4.0	–	●



Type	2 Rooms		3 Rooms		4 Rooms	5 Rooms	6 Rooms	8 Rooms	
Model name	AOYG 14LAC2	AOYG 18LAC2	AOYG 18LAT3	AOY G24LAT3	AOYG30LAT4	AOYG36LBA5	AOYG45LBA6	AOYG45LBT8	
Multi Split Outdoor Unit									
Capacity (kW)	Cooling	4.0	5.0	5.4	6.8	8.0	10.0	12.5	14.0
	Heating	4.4	5.6	6.8	8.0	9.6	12.0	13.5	16.0

Indoor Unit	BTU	kW Class	2 Rooms	3 Rooms	4 Rooms	5 Rooms	6 Rooms	8 Rooms
 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	–	–	●	●	●	●
 ABYG14/18LV	18,000	5.0	–	–	–	●	●	●
	14,000	4.0	–	–	●	●	●	●
 ARYG07/09/12/14/18LSLAP	7,000	2.0	–	●	●	●	●	–
	9,000	2.5	–	●	●	●	●	–
	12,000	3.5	–	●	●	●	●	–
	14,000	4.0	–	–	●	●	●	–
 ARYG07/09/12/14/18LL	18,000	5.0	–	–	–	●	●	●
	7,000	2.0	–	●	●	●	●	●
	9,000	2.5	–	●	●	●	●	●
	12,000	3.5	–	●	●	●	●	●
	14,000	4.0	–	–	●	●	●	●
18,000	5.0	–	–	–	●	●	●	

Simultaneous Multi Connectable Indoor Units



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

Indoor Unit	BTU	kW Class	Twin			Triple
 AUXG18/22/24KVLA	18,000	5.0	● ×2	–	–	● ×3
	22,000	6.5	–	● ×2	–	–
	24,000	7.0	–	–	● ×2	–
 ARXG18KLLAP	18,000	5.0	● ×2	–	–	● ×3
	22,000	6.5	–	● ×2	–	–
	24,000	7.0	–	–	● ×2	–
 ARXG22/24KMLA	22,000	6.5	–	● ×2	–	–
	24,000	7.0	–	–	● ×2	–
	Separation tube			UTP-SX236A (18/22/24)		



Type	4HP		5HP		6HP		8HP	10HP
Model name	AOYG36LBTB	AOYG36LATT	AOYG45LBTB	AOYG45LATT	AOYG54LBTB	AOYG54LATT	AOYG72LRLA	AOYG90LRLA
Simultaneous Multi Outdoor Unit								
	Capacity (kW)							
	Cooling	10.0	12.1	12.5	13.3	14.0	19.0	22.0
	Heating	11.2	14.0	14.0	15.0	16.0	22.4	27.0

Indoor Unit	BTU	kW Class	Twin			Triple	Twin	Triple	Double Twin	Twin	Triple	Double Twin
 AUYG18/22/24LV	18,000	5.0	● ×2	–	–	● ×3	–	–	● ×4	–	–	–
	22,000	6.5	–	● ×2	–	–	–	–	–	–	● ×4	
	24,000	7.0	–	–	● ×2	–	● ×3	–	–	–	–	
 AUYG30/36/45LR	30,000	8.8	–	–	–	–	–	–	–	–	● ×3	–
	36,000	10.6	–	–	–	–	● ×2	–	–	–	–	
	45,000	12.5	–	–	–	–	–	–	● ×2	–	–	
 ARYG18LL	18,000	5.0	● ×2	–	–	● ×3	–	–	● ×4	–	–	–
	22,000	6.5	–	● ×2	–	–	–	–	–	–	● ×4	
	24,000	7.0	–	–	● ×2	–	● ×3	–	–	–	–	
 ARYG22/24/30/36/45LM	30,000	8.8	–	–	–	–	–	–	–	–	● ×3	–
	36,000	10.6	–	–	–	–	● ×2	–	–	–	–	
	45,000	12.5	–	–	–	–	–	–	–	● ×2	–	–
	Separation tube			UTP-SX236A ×1			UTP-SX254A ×1			UTP-SX254 ×1, UTP-SX354A ×1, UTP-SX272A ×1, UTP-SX236A ×2		
 ABYG18/22/24LV	18,000	5.0	● ×2	–	–	● ×3	–	–	● ×4	–	–	–
	22,000	6.5	–	● ×2	–	–	–	–	–	–	● ×4	
	24,000	7.0	–	–	● ×2	–	● ×3	–	–	–	–	
 ABYG30/36/45LR	30,000	8.8	–	–	–	–	–	–	–	–	● ×3	–
	36,000	10.6	–	–	–	–	● ×2	–	–	–	–	
	45,000	12.5	–	–	–	–	–	–	–	● ×2	–	–



NEW

2 Rooms Multi



ALL DC



2 Rooms: AOYG14KBTA2 / AOYG18KBTA2



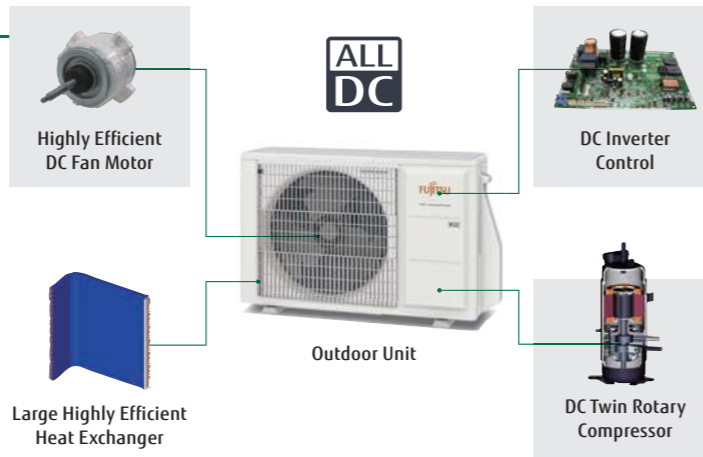
Specifications

Model No.		AOYG14KBTA2		AOYG18KBTA2	
Power Source		Single-phase, ~230V, 50Hz			
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 (1.8-7.0)	
EER	Cooling	4.12		4.03	
COP	Heating	4.63		4.59	
	Cooling	47		47	
Sound Pressure Level (High)	Heating	49		50	
	Cooling	60		60	
Sound Power Level (High)	Heating	62		62	
	Cooling/Heating	1,670/1,670		1,960/2,020	
Net Dimensions H × W × D		mm		mm	
Weight		kg (lbs)		kg (lbs)	
Connection Pipe Diameter	Liquid	6.35×2		6.35×2	
	Gas	9.53 × 2		9.53 × 2	
Max. Pipe Length	Total / Each	30 / 20		30 / 20	
	Between Outdoor Unit and Each Indoor Units.	15		15	
Max. Height Difference	Between Indoor Units.	10		10	
	Cooling	-10 to 46		-10 to 46	
Operation Range	Heating	-15 to 24		-15 to 24	
	Type (Global Warming Potential)	R32 (675)		R32 (675)	
Refrigerant	Charge	kg(CO2eq-T)		kg(CO2eq-T)	
		0.9 (0.574)		1.02 (0.689)	

High energy saving

DC technology is used for compressor, indoor / outdoor fan motor and inverter controlling.

Rank Cooling A+++ Heating A++
 SEER 8.7*1 SCOP 4.7
 *1: 14 model



Wide range of indoor units with various models

4 types / 16 models are lined up in the capacity range from 2.0 kW to 4.0 kW class. Wide range of requirements can be realized from in private homes, large shops and hotels.



Models equipped with the New R32 Refrigerant

Wall mounted type with sophisticated design



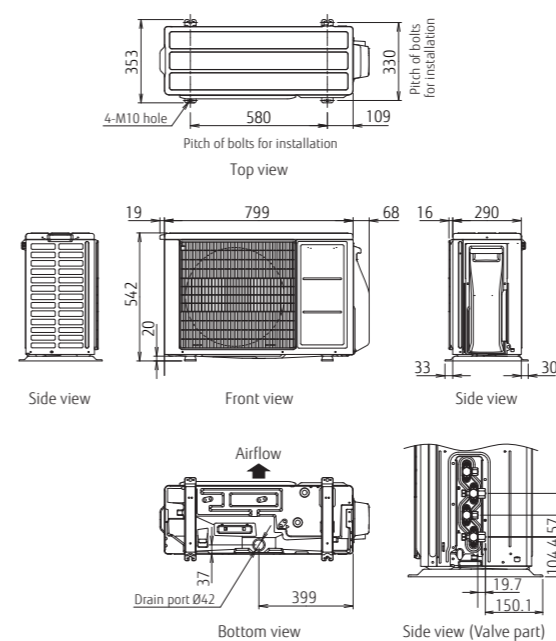
Middle and small capacity models are available. This makes it easier to install at small spaces.



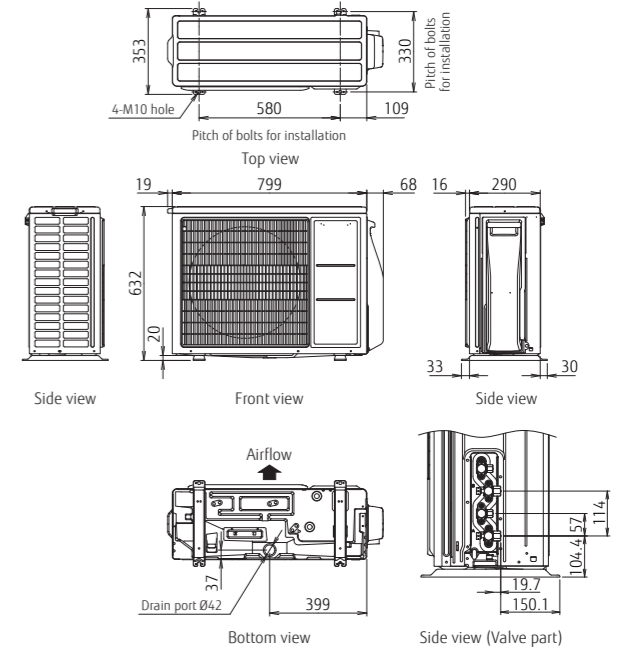
Dimensions

(Unit : mm)

AOYG14KBTA2



AOYG18KBTA2

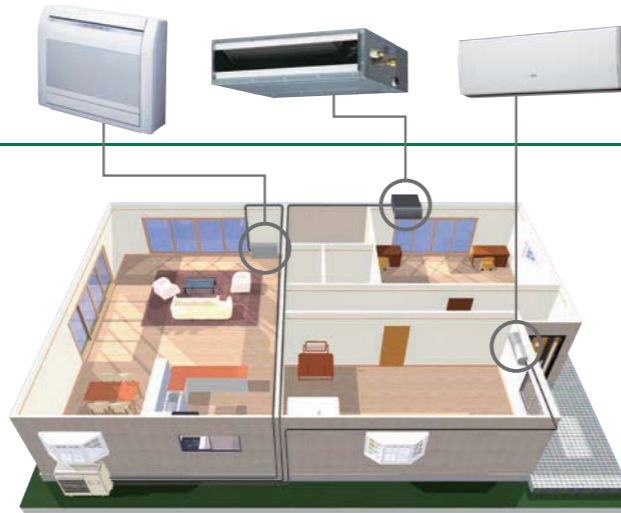


2 & 3-4 Rooms Multi



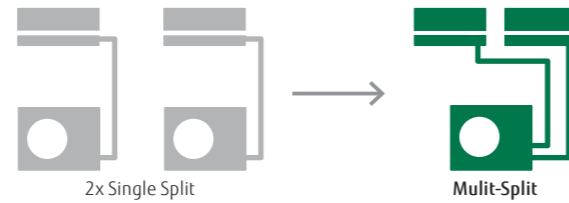
Wide range of indoor units with various models

4 types / 16 models are lined up in the capacity range from 2.0 kW to 4.0 kW class. Wide range of requirements can be realized from in private homes, large shops and hotels.



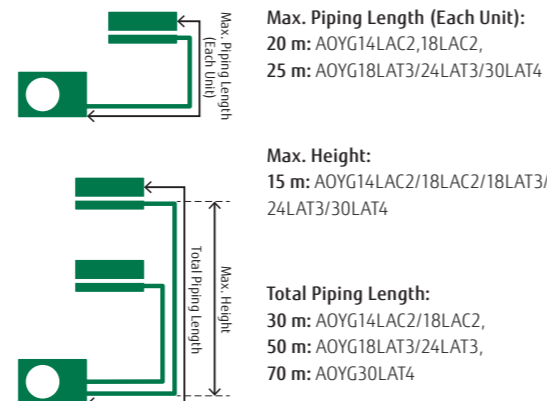
Space-saving installation

Multiple indoor units can be connected to 1 outdoor unit, and long piping connection is also possible. Compared with single type, the outdoor unit can be installed in various places to realize the space-saving installation.



Flexible installation

Up to max. piping length of 70 m (AOYG30LAT4), max. height difference of 15 m can be supported. Multi type can be installed in large-size residence or buildings with multiple floors.



2 Rooms: AOYG14LAC2 / AOYG18LAC2
 3 Rooms: AOYG18LAT3 / AOYG24LAT3
 4 Rooms: AOYG30LAT4



Specifications (2 Rooms, 3 Rooms, 4 Rooms)

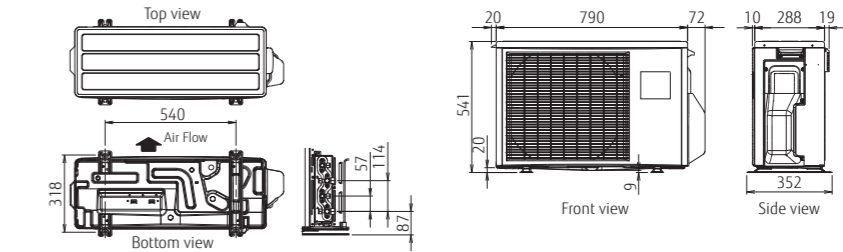
Model No.			AOYG14LAC2	AOYG18LAC2	AOYG18LAT3	AOYG24LAT3	AOYG30LAT4
Power Source			Single-phase, ~230V, 50Hz				
Rated Capacity (min-max)	Cooling	kW	4.0 (1.4-4.4)	5.0 (1.7-5.6)	5.4 (1.8-6.8)	6.8 (1.8-8.5)	8.0 (3.5-10.1)
	Heating		4.4 (1.1-5.4)	5.6 (1.8-6.1)	6.8 (2.0-8.0)	8.0 (2.0-9.2)	9.6 (3.7-12.0)
EER	Cooling	W/W	3.67	3.21	4.00	3.51	3.60
COP	Heating		4.27	3.97	4.20	4.00	4.00
Sound Pressure Level (High)	Cooling	dB(A)	47	50	46	48	50
	Heating		49	51	47	49	51
Sound Power Level (High)	Cooling	dB(A)	61	63	65	68	68
	Heating		63	64	67	70	70
Airflow Rate	Cooling/Heating	m ³ /h	1,850/1,850	2,050/2,050	3,050/2,750	3,300/3,300	3,500/3,300
Net Dimensions H × W × D			540×790×290	540×790×290	700×900×330	700×900×330	830×900×330
Weight			37 (82)	38 (84)	55 (121)	55 (121)	68 (150)
Connection Pipe Diameter	Liquid	mm	6.35×2	6.35×2	6.35×3	6.35×3	6.35×4 (*6.35×3, 9.52)
	Gas		9.52 × 2	9.52 × 2 *(9.52, 12.70)	9.52 × 2, 12.70 *(9.52 × 3)	9.52 × 2, 12.70 *(9.52 × 3)	9.52 × 2, 12.70 × 2 *(9.52 × 3, 12.70) *(9.52 × 2, 12.70, 15.88)
Max. Pipe Length	Total / Each	m	30 / 20	30 / 20	50 / 25	50 / 25	70 / 25
Max. Height Difference	Between Outdoor Unit and Each Indoor Units.		15	15	15	15	15
	Between Indoor Units.		10	10	10	10	10
Operation Range	Cooling	°CDB	10 to 46	10 to 46	-10 to 46	-10 to 46	0 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-10 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO ₂ eq-T)	1.25 (2.6)	1.30 (2.7)	2.20 (4.6)	2.20 (4.6)	3.30 (6.9)

* Connect to connection valve by the adapter.

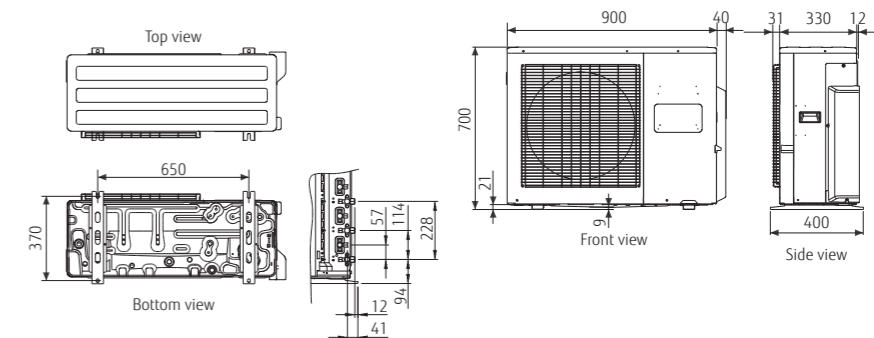
Dimensions

(Unit : mm)

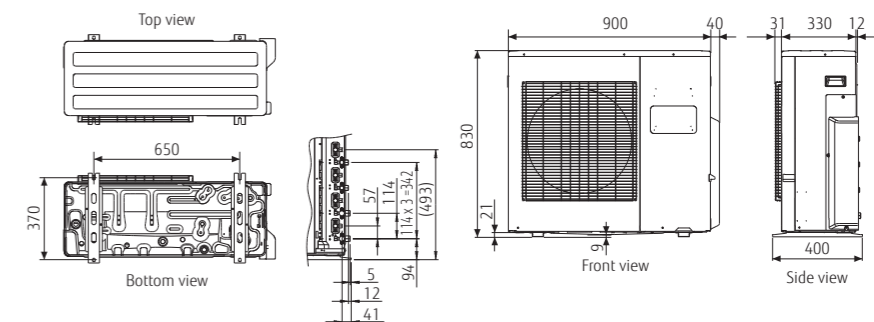
2 Rooms:
AOYG14LAC2/AOYG18LAC2



3 Rooms:
AOYG18LAT3/AOYG24LAT3



4 Rooms:
AOYG30LAT4



5 - 6 Rooms Multi



5 Rooms: AOYG36LBLA5
6 Rooms: AOYG45LBLA6

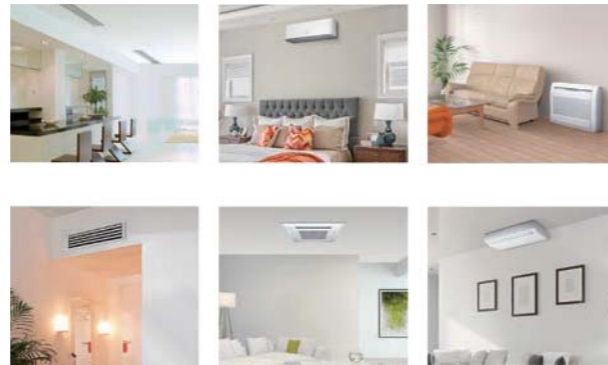


Specifications (5 Rooms, 6 Rooms)

Model No.		AOYG36LBLA5		AOYG45LBLA6	
Power Source		Single-phase, ~230V, 50Hz			
Rated Capacity (min-max)	Cooling	10.0 (3.5-12.5)		12.5 (3.5-14.0)	
	Heating	12.0 (3.5-14.0)		13.5 (3.5-16.0)	
EER	Cooling	4.10		3.50	
	Heating	4.30		4.00	
Sound Pressure Level (High)	Cooling	53		53	
	Heating	55		55	
Sound Power Level (High)	Cooling	67		67	
	Heating	68		68	
Airflow Rate	Cooling/Heating	m ³ /h 4,200/4,200		4,200/4,200	
Net Dimensions H × W × D		mm 998×970×370		998×970×370	
Weight		kg(lbs) 94 (207)		94 (207)	
Connection Pipe Diameter	Liquid	mm 6.35×5		6.35×6	
	Gas	9.52 × 3, 12.70 × 2		9.52 × 4, 12.70 × 2	
Max. Pipe Length	Total / Each	80 / 25		80 / 25	
	Max. Height Difference	Between Outdoor Unit and Each Indoor Units.	m 15		15
Operation Range	Between Indoor Units.	10		10	
	Cooling	°CDB -10 to 46		-10 to 46	
Refrigerant	Heating	-15 to 24		-15 to 24	
	Type (Global Warming Potential)	R410A (2,088)		R410A (2,088)	
Charge		kg(CO ₂ eq-T) 4.00 (8.4)		4.00 (8.4)	

Wide range of indoor units with various models

4 types / 16 models are lined up in the capacity range from 2.0 kW to 4.0 kW class. Wide range of requirements can be realized from in private homes, large shops and hotels.



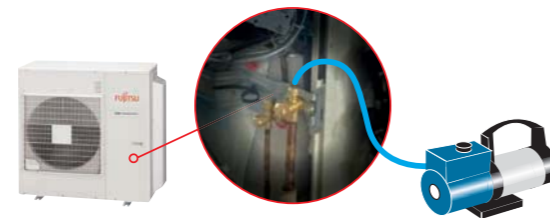
Compact design

Multiple indoor units can be connected to 1 outdoor unit, and long piping connection is also possible. Compared with single type, the outdoor unit can be installed in various places to realize the space-saving installation.



Easy installation

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



Central & Individual Control

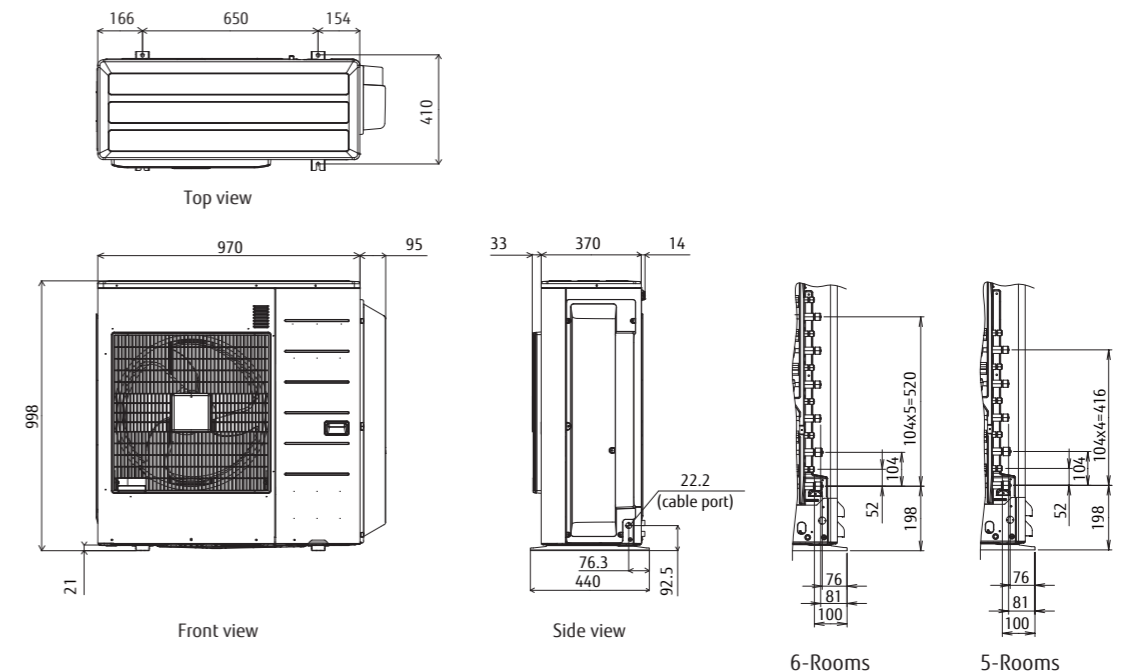
- Batched control of up to 8 indoor units. The temperature, airflow volume, and remote control prohibition settings of all indoor units can be batched.
- Corresponds to 9 different languages (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)
- Large backlight LED screen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

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



Dimensions

(Unit : mm)



8 Rooms Multi

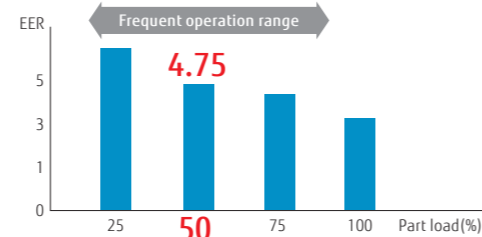


Compact outdoor unit

The compact design outdoor unit allows to be installed below a window and in a narrow space.

High seasonal efficiency

The actual performance is conducted under various outside temperatures depending on weather and seasons, furthermore, especially for multi system, not all the rooms are operated all the time. So over 90% of actual operation time, air conditioners are operated at partial capacity instead of rated capacity. Considering these, we focused on energy-saving performance which is based on actual use. Efficiency of part load performance was drastically improved by developing ALL DC and our own inverter system.



Innovated technology

High efficiency large fan:
High efficiency fan is mounted.

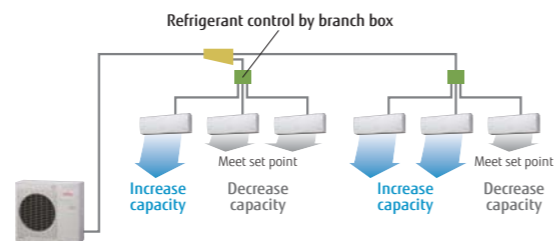
DC fan motor:
High performance and high efficiency has been realized by using a small DC fan motor.

Heat exchanger:
Reduced compact size and energy saving has been realized by utilizing high density piping design and 3-Row heat exchanger.

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

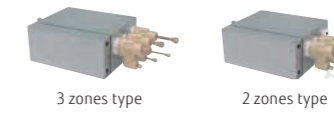
Quick comfort by optimized refrigerant control

Every room meets the set point most quickly and comfortably by optimized refrigerant control.



8 Rooms: AOYG45LBT8

Branch Box: UTP-PY03A / UTP-PY02A



Specifications (Outdoor unit/Branch box)

Outdoor Unit Model Name		AOYG45LBT8	
Maximum Connectable Indoor Unit		8	
Indoor Unit Connectable Capacity		Cooling	11.0 - 17.5 kW
Power source		Single-phase, ~230V, 50Hz	
Rated Capacity	Cooling	kW	14.0
	Heating	kW	16.0
Input Power	Cooling	kW	5.20
	Heating	kW	5.07
Airflow rate	Cooling	m ³ /h	4,650
	Heating	m ³ /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 (217)
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(CO ₂ eq-T)	3.45 (7.2)

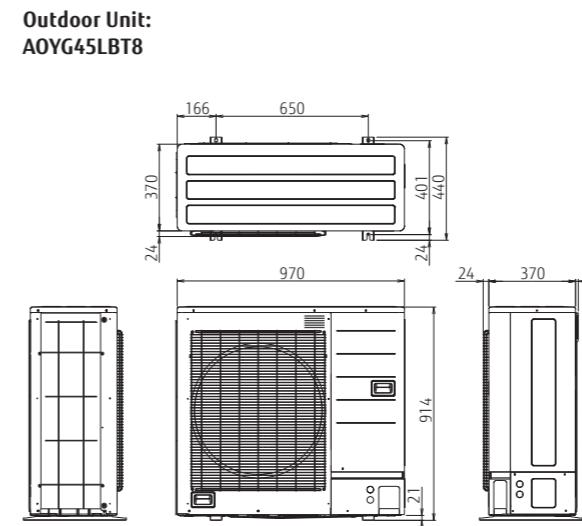
Branch Box Model Name		UTP-PY03A	UTP-PY02A
Connectable Indoor Unit		1 to 3 Units	1 to 2 Units
Power source		Single-phase, ~230V, 50Hz	Single-phase, ~230V, 50Hz
Available Voltage Range		198-264V	198-264V
Power Consumption		W	10
Running Current		A	0.05
Net Dimensions H × W × D		mm	195×433×370
Weight		kg(lbs)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

Note: Specifications are based on the following conditions.

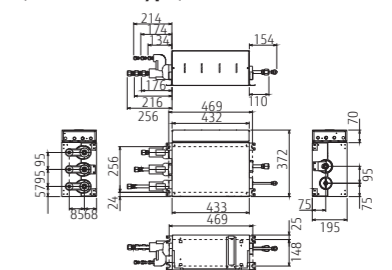
- In case of connecting two indoor units(7 kW class).
- These are the measured values in the manufacturer's anechoic chamber.
- Cooling: Indoor temp. of 27°CDB/19°CWB, outdoor temp. of 35°CDB/24°CWB Heating: Indoor temp. of 20°CDB/15°CWB, outdoor temp. of 7°CDB/6°CWB Pipe length: 5 m (Outdoor unit -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

Dimensions

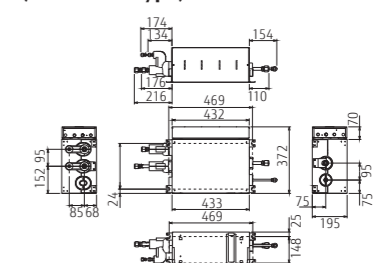
(Unit : mm)



Branch Box : UTP-PY03A (3 branches type)



Branch Box : UTP-PY02A (2 branches type)



Simultaneous Multi Twin/Triple



Model: AOYG36KBTB / AOYG45KBTB / AOYG54KBTB



Specifications (Indoor units/Outdoor units)

Indoor Units Model No.				Compact Cassette		
				AUXG18KVLA	AUXG22KVLA	AUXG24KVLA
Power Source				Single-phase, ~230V, 50Hz		
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	680/580/490/410	830/740/600/450	930/830/600/450
	Heating	H/M/L/Q		800/680/580/450	860/760/700/530	930/850/700/530
Net Dimension H × W × D				mm		
Weight				kg (lbs)		
Cassette Grille				UTG-UFYF-W		

Indoor Units Model No.				Duct		
				ARXG18KLLAP	ARXG22KMLA	ARXG24KMLA
Power Source				Single-phase, ~230V, 50Hz		
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	940/880/820/750	1,100/910/750/580	1,100/910/750/580
	Heating	H/M/L/Q		940/880/820/750	1,100/910/750/580	1,100/910/750/580
Net Dimension H × W × D				mm		
Weight				kg (lbs)		

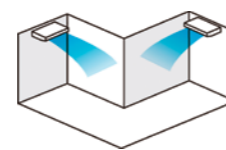
Outdoor Units Model No.				AOYG36KBTB	AOYG45KBTB	AOYG54KBTB
Capacity	Cooling			9.5	12.1	13.4
	Heating			10.8	13.5	15.5
Power Source				Single-phase, ~230V, 50Hz		
Pdesign	Cooling			-	-	-
	Heating (-10°C)			8.7	9.2	9.5
SEER	Cooling			6.10	-	-
	Heating			4.00	-	-
Annual Energy Consumption	Cooling			545	-	-
	Heating			3,043	-	-
Energy Efficiency Class	Cooling			A++	-	-
	Heating			A+	-	-
Sound Pressure Level (High)	Cooling			55	57	57
	Heating			55	57	59
Sound Power Level (High)	Cooling			70	71	73
	Heating			70	71	73
Airflow Rate	Cooling / Heating			3,750/3,750	4,450/4,450	4,450/4,450
Net Dimension H × W × D				mm		
Weight				kg (lbs)		
Connection Pipe Diameter (Liquid / Gas)				mm		
Max Pipe Length (Pre-Charge)				m		
Height Difference				m		
Operation Range	Cooling			-15 to 46	-15 to 46	-15 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R32 (675)	R32 (675)	R32 (675)
	Charge			1.90(1.283)	2.70(1.823)	2.70(1.823)
Separation tube				UTP-SX236A (Twin) / UTP-SX236A (Twin) / UTP-SX354A (Triple)		

• Different type and capacity indoor units cannot be connected.
• The above table is the value for connecting with cassette type.

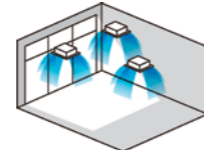
Supports various installation scenes from office to commercial space, inside the same room and multi connection of up to 3 indoor units.

Selection of indoor units according to the room shape and heat load, like number of people and lighting conditions. Most comfortable air flow distribution can be realized.

Installation according to floor layout



Installation according to lighting conditions



Design flexibility

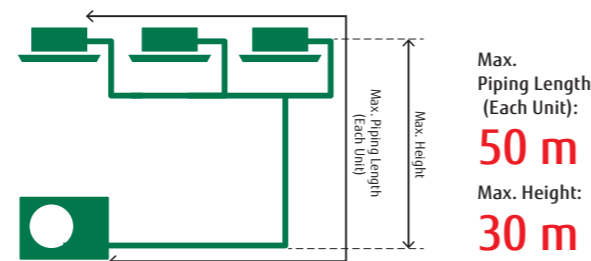
Slim & Compact design

This model is much more compact than a conventional outdoor unit. Significant reduced height of the product supports installations in narrow spaces.



Flexible installation

Up to max. piping length of 50 m, max. height difference of 30 m can be supported. Multi type can be installed in large-size residence or buildings with multiple floors.



New Indoor unit lineup

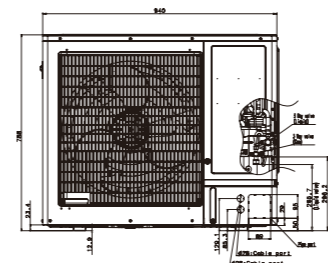
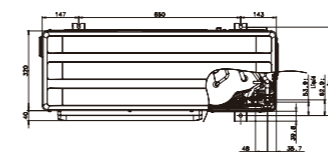
3 types 6 models indoor units are provided, so you can select them depending on your room size and conditions.



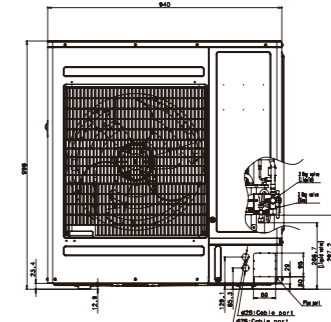
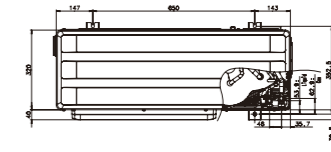
Dimensions

(Unit : mm)

AOYG36KBTB



AOYG45KBTB / AOYG54KBTB



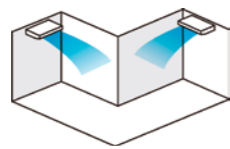
Simultaneous Multi Twin/Triple



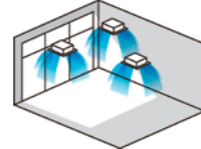
Supports various installation scenes from office to commercial space, inside the same room and multi connection of up to 3 indoor units.

Selection of indoor units according to the room shape and heat load, like number of people and lighting conditions. Most comfortable air flow distribution can be realized.

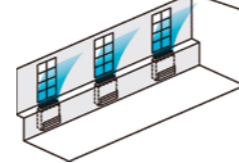
Installation according to floor layout



Installation according to lighting conditions

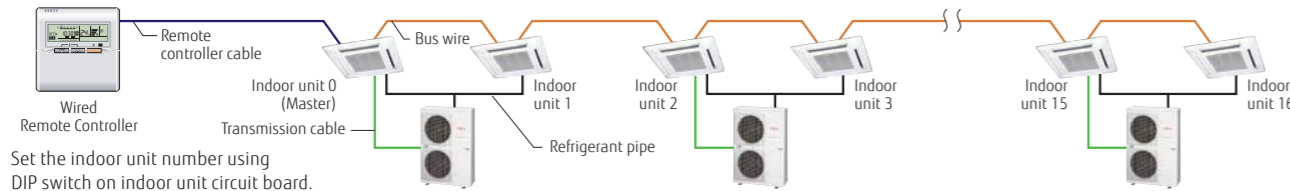


Installation according to layout and lighting conditions



Simultaneous control

Max 16 indoor units are simultaneously controlled with a wired remote controller.



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

Indoor unit lineup

4 types 9 models indoor units are provided, so you can select them depending on your room size and conditions.



Model : AOYG36LBTB / AOYG45LBTB / AOYG54LBTB
AOYG36LATT [3phase] / AOYG45LATT [3phase] / AOYG54LATT [3phase]



Specifications (Indoor units/Outdoor units)

Indoor Units Model No.		Compact Cassette		
		AUYG18LVLB	AUYG22LVLA	AUYG24LVLA
Power Source		Single-phase, ~230V, 50Hz		
Airflow Rate	Cooling	750/610/520/410	930/830/600/450	930/830/600/450
	Heating	800/710/600/450	930/860/700/530	930/830/600/450
Net Dimension H × W × D		245×570×570		
Weight		15 (33)	16 (35)	16 (35)
Cassette Grille		UTG-UFYD-W		

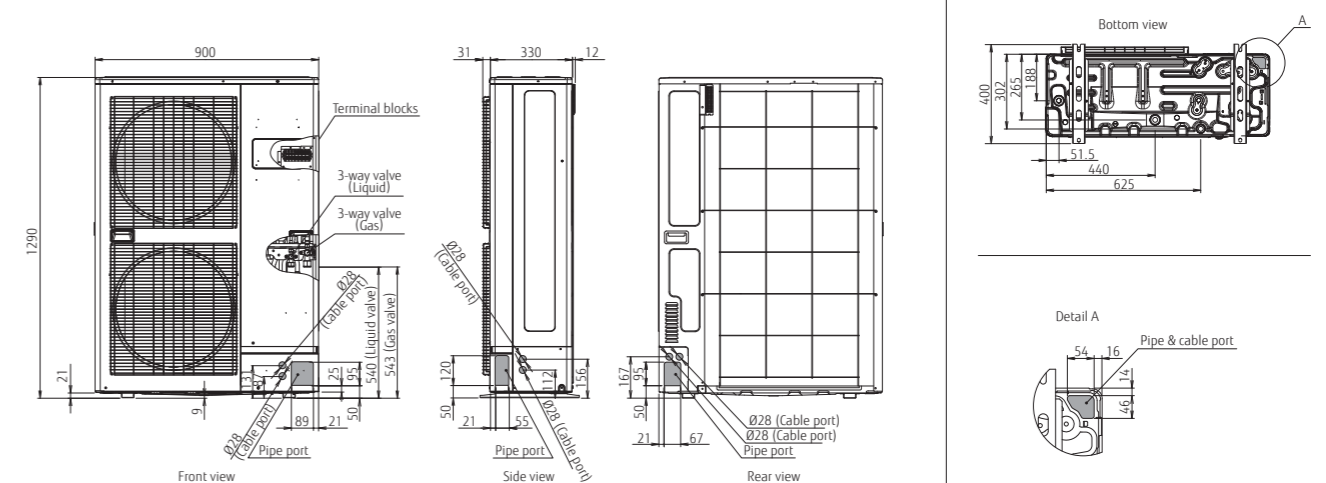
Indoor Units Model No.		Duct		Floor/Ceiling Universal			
		ARYG18LLTB	ARYG22LMLA	ARYG24LMLA	ABYG18LVTB	ABYG22LVTA	ABYG24LVTA
Power Source		Single-phase, ~230V, 50Hz					
Airflow Rate	Cooling	940/880/820/750	1,100/910/750/580	780/700/560/500	980/820/680/540		
	Heating	940/880/820/750	1,100/910/750/580	780/700/560/500	980/820/680/540		
Net Dimension H × W × D		198 × 900 × 620		270 × 1,135 × 700		199 × 990 × 655	
Weight		23 (51)	38 (84)	27 (60)	27 (60)		

Outdoor Units Model No.		AOYG36LBTB			AOYG45LBTB			AOYG54LBTB			AOYG36LATT			AOYG45LATT			AOYG54LATT		
		Capacity	Cooling	10.0			12.1			13.3			10.0			12.5			14.0
	Heating	11.2			14.0			15.0			11.2			14.0			16.0		
Power Source		Single-phase, ~230V, 50Hz									3-phase, ~400V, 50Hz								
Pdesign	Cooling	10.0			-			-			10.0			-			-		
	Heating (-10°C)	10.0			-			-			10.0			-			-		
SEER	Cooling	5.56			-			-			6.00			-			-		
SCOP	Heating	3.90			-			-			4.00			-			-		
	Cooling	629			-			-			583			-			-		
Annual Energy Consumption	Heating	3,588			-			-			3,499			-			-		
	Cooling	-			-			-			-			-			-		
Energy Efficiency Class	Cooling	A			-			-			A+			-			-		
	Heating	A			-			-			A+			-			-		
Sound Pressure Level (High)	Cooling	52			54			55			51			54			55		
Sound Power Level (High)	Heating	69			70			72			69			69			71		
Airflow Rate	Cooling / Heating	6,200/6,200			6,750/6,200			6,850/6,750			6,200/6,200			6,750/6,200			6,900/6,900		
	Net Dimension H × W × D	1,290×900×330			1,290×900×330			1,290×900×330			1,290×900×330			1,290×900×330			1,290×900×330		
Weight		93(205)			93(205)			93(205)			104 (229)			104 (229)			104 (229)		
Connection Pipe Diameter (Liquid / Gas)		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)		75(30)			75(30)			75(30)			75(30)			75(30)			75(30)		
	Height Difference	30			30			30			30			30			30		
Operation Range	Cooling	-15 to 46			-15 to 46			-15 to 46			-15 to 46			-15 to 46			-15 to 46		
	Heating	-15 to 24			-15 to 24			-15 to 24			-15 to 24			-15 to 24			-15 to 24		
Refrigerant	Type (Global Warming Potential)	R410A (2,088)			R410A (2,088)			R410A (2,088)			R410A (2,088)			R410A (2,088)			R410A (2,088)		
	Charge	3.45 (7.2)			3.45 (7.2)			3.45 (7.2)			3.45 (7.2)			3.45 (7.2)			3.45 (7.2)		
Separation tube		UTP-SX236A(Twin)			UTP-SX254A(Twin)			UTP-SX254A(Twin)/UTP-SX354A(Triple)			UTP-SX236A (Twin)			UTP-SX254A (Twin)			UTP-SX254A (Twin) / UTP-SX354A (Triple)		

*Different type and capacity indoor units cannot be connected.
*The above table is the value for connecting with cassette type.

Dimensions

(Unit : mm)



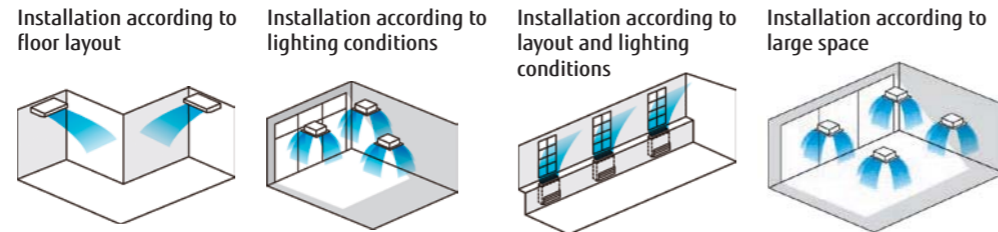
Simultaneous Multi

Twin/Triple/Double Twin



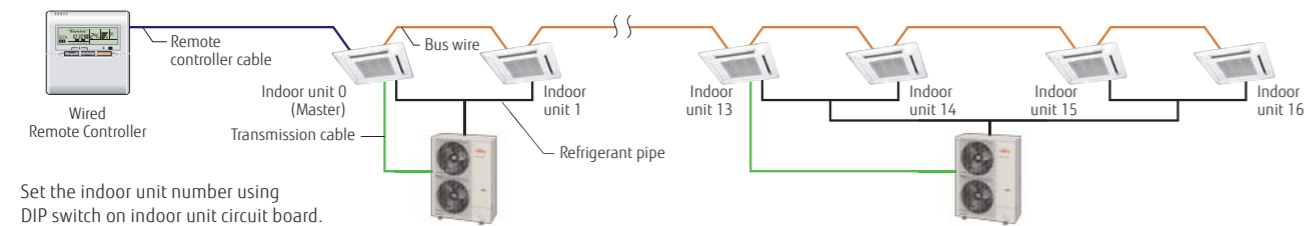
Support various applications from open plan offices to retail stores, with up to 4 indoor units.

Selection of indoor units according to the room shape and heat load, like number of people and lighting conditions. Most comfortable air flow distribution can be realized.



Simultaneous control

Max 16 indoor units are simultaneously controlled with a wired remote controller.

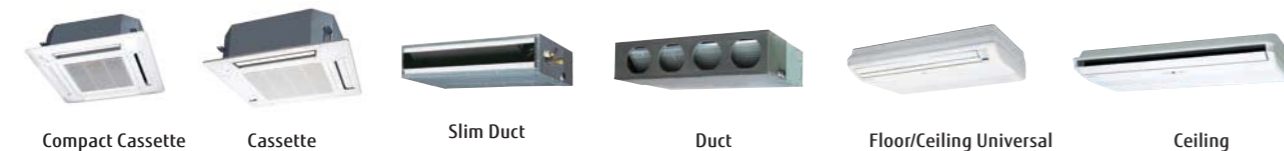


Set the indoor unit number using DIP switch on indoor unit circuit board.

*When using a wireless remote controller, the following functions cannot be used: Timer operation, Sleep Timer operation, 10°C Heat operation

Indoor unit lineup

6 types 18 models indoor units are provided, so you can select them depending on your room size and conditions.



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



Specifications (Indoor units/Outdoor units)

Indoor Units Model No.		Compact Cassette, Cassette							
		AUYG18LVLB	AUYG22LVLA	AUYG24LVLA	AUYG30LRLE	AUYG36LRLE	AUYG45LRLA		
Power Source		Single-phase, ~230V, 50Hz							
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	750/610/520/410	930/830/600/450	930/830/600/450	1,600/1,400/1,270/1,150	1,800/1,400/1,270/1,150	1,900/1,640/1,460/1,250
	Heating	H/M/L/Q	m ³ /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 Dimension 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 No.		Duct							
		ARYG18LLTB	ARYG22LMLA	ARYG24LMLA	ARYG30LMLE	ARYG36LMLE	ARYG45LMLA		
Power Source		Single-phase, ~230V, 50Hz							
Airflow Rate	Cooling	H/M/L/Q	m ³ /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 ³ /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 Dimension 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 No.		Floor/Ceiling, Ceiling							
		ABYG18LVTB	ABYG22LVTA	ABYG24LVTA	ABYG30LRTE	ABYG36LRTE	ABYG45LRTA		
Power Source		Single-phase, ~230V, 50Hz							
Airflow Rate	Cooling	H/M/L/Q	m ³ /h	780/700/560/500	980/820/680/540	980/820/680/540	1,660/1,500/1,200/1,000	1,900/1,500/1,200/1,000	2,100/1,700/1,400/1,100
	Heating	H/M/L/Q	m ³ /h	780/700/560/500	980/820/680/540	980/820/680/540	1,660/1,500/1,200/1,000	1,900/1,500/1,200/1,000	2,100/1,700/1,400/1,100
Net Dimension 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)

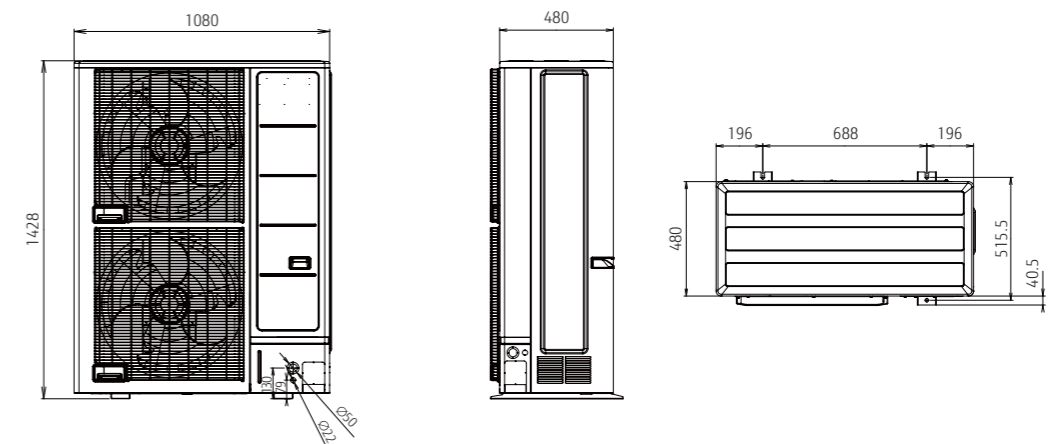
Outdoor Units Model No.				AOYG72LRLA	AOYG90LRLA
		Capacity	Cooling	kW	19.0
		Heating	kW	22.4	27.0
Power Source		3-phase, ~400V, 50Hz			
Sound Pressure Level (High)		Cooling	dB(A)	55	55
Airflow Rate		Cooling / Heating	m ³ /h	8,400/8,400	8,400/9,000
Net Dimension H × W × D		mm		1,428×1,080×480	1,428×1,080×480
Weight		kg(lbs)		163 (359)	172 (378)
Connection Pipe Diameter (Liquid / Gas)		mm		12.7/25.4	12.7/25.4
Max Pipe Length (Pre-Charge)		m		100 (30)	100 (30)
Height Difference		m		30	30
Operation Range		Cooling	°CDB	-15 to 46	-15 to 46
		Heating	°CDB	-20 to 24	-20 to 24
Refrigerant		Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)
		Charge	kg(CO ₂ eq-T)	5.6 (11.7)	7.1 (14.8)

* Different type and capacity indoor units cannot be connected.
 * The above table is the value for connecting with cassette type.

*: That specification is not fixed yet.

Dimensions

(Unit : mm)



New 2 Rooms Multi Indoor Units Specifications



Wall mounted



Model No.	Indoor unit			ASYG07KGTB	ASYG09KGTB	ASYG12KGTB	ASYG14KGTB
kW Class	kW			2.0	2.5	3.5	4.0
Power Source	Single-phase, ~230V, 50Hz						
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	38/33/29/21	40/34/29/21	40/35/30/21	43/36/30/21
	Heating			41/35/31/22	42/36/31/22	42/38/33/22	44/39/33/24
Sound Power Level	Cooling	H	dB(A)	54	55	55	57
	Heating			56	57	58	59
Airflow Rate	Cooling	H/M/L/Q	m³/h	650/540/430/270	700/560/430/270	700/560/430/250	770/600/450/280
	Heating			720/580/460/330	750/610/470/330	770/640/520/330	800/660/520/340
Net Dimensions	mm			270x834x215	270x834x215	270x834x215	270x834x215
Weight	kg(lbs)			10 (22)	10 (22)	10 (22)	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



Model No.	Indoor unit			ASYG07KMTB	ASYG09KMTB	ASYG12KMTB	ASYG14KMTB
kW Class	kW			2.0	2.5	3.5	4.0
Power Source	Single-phase, ~230V, 50Hz						
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	38/33/29/21	40/34/29/21	40/35/30/21	43/36/30/21
	Heating			41/35/31/22	42/36/31/22	42/38/33/22	44/39/33/24
Sound Power Level	Cooling	H	dB(A)	54	55	55	57
	Heating			56	57	58	59
Airflow Rate	Cooling	H/M/L/Q	m³/h	650/540/430/270	700/560/430/270	700/560/430/270	770/600/450/280
	Heating			720/580/460/330	750/610/470/330	770/640/520/330	800/660/520/340
Net Dimensions	mm			270x834x222	270x834x222	270x834x222	270x834x222
Weight	kg(lbs)			10 (22)	10 (22)	10 (22)	10 (22)
Connection Pipe Diameter	Liquid/Gas	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52

Compact cassette Grid type



Model No.	Indoor unit			AUXG07KVLA	AUXG09KVLA	AUXG12KVLA	AUXG14KVLA
kW Class	kW			2.0	2.5	3.5	4.0
Power Source	Single-phase, ~230V, 50Hz						
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	33/31/29/27	33/31/29/27	37/34/31/28	38/35/32/29
	Heating			34/32/29/27	34/32/29/27	37/34/31/29	43/38/34/30
Sound Power Level	Cooling	H	dB(A)	46	46	49	50
	Heating			47	47	49	55
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
	Heating			540/490/440/390	540/490/440/390	610/530/470/410	790/680/580/450
Net Dimensions	mm			245x570x570	245x570x570	245x570x570	245x570x570
Weight	kg(lbs)			15 (33)	15 (33)	15 (33)	15 (33)
Panel				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

Mini duct



Model No.	Indoor unit			ARXG07KSLAP	ARXG09KSLAP	ARXG12KSLAP	ARXG14KSLAP
kW Class	kW			2.0	2.5	3.5	4.0
Power Source	Single-phase, ~230V, 50Hz						
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
	Heating			29/26/24/23	29/26/24/23	31/27/25/23	35/30/27/23
Sound Power Level	Cooling	H	dB(A)	52	54	55	60
	Heating			53	56	57	62
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
	Heating			550/440/390/360	600/450/400/360	650/490/430/360	800/640/530/360
Net Dimensions	mm			198x700x450	198x700x450	198x700x450	198x700x450
Weight	kg(lbs)			15.5 (34)	15.5 (34)	15.5 (34)	15.5 (34)
Connection Pipe Diameter	Liquid/Gas	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52
External static pressure	Pa			0 to 30	0 to 30	0 to 30	0 to 50
Drain pump	Standard						

Slim duct



Model No.	Indoor unit			ARXG07KLLAP	ARXG09KLLAP	ARXG12KLLAP	ARXG14KLLAP
kW Class	kW			2.0	2.5	3.5	4.0
Power Source	Single-phase, ~230V, 50Hz						
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
	Heating			28/26/25/24	28/26/25/24	29/28/27/26	32/30/28/25
Sound Power Level	Cooling	H	dB(A)	57	57	58	60
	Heating			57	57	58	60
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
	Heating			550/490/470/440	600/550/500/450	650/600/550/480	800/700/600/480
Net Dimensions	mm			198x700x620	198x700x620	198x700x620	198x700x620
Weight	kg(lbs)			16 (35)	17 (37)	17 (37)	17 (37)
Connection Pipe Diameter	Liquid/Gas	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/9.52
External static pressure	Pa			0 to 90	0 to 90	0 to 90	0 to 90
Drain pump	Standard						

2 - 8 Rooms Multi Indoor Units Specifications

Compact wall mounted



Model No.	Indoor unit		ASYG07LUCA	ASYG09LUCA	ASYG12LUCA	ASYG14LUCA	
kW Class	kW		2.0	2.5	3.5	4.0	
Power Source	Single-phase, ~230V, 50Hz						
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				

Wall mounted



Model No.	Indoor unit		ASYG18LFCA	ASYG24LFCC	
kW Class	kW		5.0	7.0	
Power Source	Single-phase, ~230V, 50Hz				
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	
Weight			kg(lbs)	14 (30.8)	
Connection Pipe Diameter	Liquid/Gas	mm	6.35/12.70		

Compact wall mounted



Model No.	Indoor unit		ASYG07LMCE	ASYG09LMCE	ASYG12LMCE	ASYG14LMCE	
kW Class	kW		2.0	2.5	3.5	4.0	
Power Source	Single-phase, ~230V, 50Hz						
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 (18.7)	8.5 (18.7)	8.5 (18.7)	8.5 (18.7)
Connection Pipe Diameter	Liquid/Gas	mm	6.35/9.52				

Floor



Model No.	Indoor unit		AGYG09LVCA	AGYG12LVCA	AGYG14LVCA	
kW Class	kW		2.5	3.5	4.0	
Power Source	Single-phase, ~230V, 50Hz					
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 (30.7)	14 (30.7)	14 (30.7)
Connection Pipe Diameter	Liquid/Gas	mm	6.35/9.52			

Floor ceiling



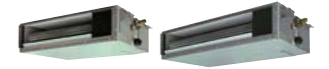
Model No.	Indoor unit		ABYG14LVTA	ABYG18LVTB	
kW Class	kW		4.0	5.0	
Power Source	Single-phase, ~230V, 50Hz				
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	36/34/33/29 (Under ceiling) 39/37/36/32 (Floor console)	41/38/34/32 (Under ceiling) 44/41/37/35 (Floor console)
	Heating			36/34/33/29 (Under ceiling) 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	
Weight			kg(lbs)	27 (60)	
Connection Pipe Diameter	Liquid/Gas	mm	6.35/12.70		

Compact cassette



Model No.	Indoor unit		AUYG07LVLA	AUYG09LVLA	AUYG12LVLB	AUYG14LVLB	AUYG18LVLB	
kW Class	kW		2.0	2.5	3.5	4.0	5.0	
Power Source	Single-phase, ~230V, 50Hz							
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(33.1)	15(33.1)	15(33.1)	15(33.1)	15(33.1)
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 No.	Indoor unit		ARYG07LSLAP	ARYG09LSLAP	ARYG12LSLAP	ARYG14LSLAP	ARYG18LSLAP	
kW Class	kW		2.0	2.5	3.5	4.0	5.0	
Power Source	Single-phase, ~230V, 50Hz							
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 (34.1)			18.5 (40.7)	
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 No.	Indoor unit		ARYG07LLTA	ARYG09LLTA	ARYG12LLTB	ARYG14LLTB	ARYG18LLTB	
kW Class	kW		2.0	2.5	3.5	4.0	5.0	
Power Source	Single-phase, ~230V, 50Hz							
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	198×900×620	198×900×620
Weight			kg(lbs)	17 (37.5)	19 (41.8)	19 (41.8)	19 (41.8)	23 (50.6)
Connection Pipe Diameter	Liquid/Gas	mm	6.35/9.52		6.35/12.7			
External static pressure			Pa	0 to 90				
Drain pump	Standard							

MULTI SPLIT

2 Rooms Multi Combination Table-Cooling/Heating



2 Rooms Multi cooling

Table for AOYG14KBT2 with columns: Combination of Indoor Unit, Cooling Capacity (Room 1, Room 2, Total Capacity), Input Power, EER, Seasonal Data (Pdesign, SEER, Energy efficiency class).

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h models
•The above is the value for connecting with Wall Mounted [KG] type.
•2 or more indoor units should be connected.
•Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).

Table for AOYG18KBT2 with columns: Combination of Indoor Unit, Cooling Capacity (Room 1, Room 2, Total Capacity), Input Power, EER, Seasonal Data (Pdesign, SEER, Energy efficiency class).

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h models
•The above is the value for connecting with Wall Mounted [KG] type.
•2 or more indoor units should be connected.
•Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).

2 Rooms Multi heating

Table for AOYG14KBT2 with columns: Combination of Indoor Unit, Heating Capacity (Room 1, Room 2, Total Capacity), Input Power, COP, Seasonal Data (Pdesign, SCOP, Energy efficiency class).

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h models
•The above is the value for connecting with Wall Mounted [KG] type.
•2 or more indoor units should be connected.
•Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).

Table for AOYG18KBT2 with columns: Combination of Indoor Unit, Heating Capacity (Room 1, Room 2, Total Capacity), Input Power, COP, Seasonal Data (Pdesign, SCOP, Energy efficiency class).

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h models
•The above is the value for connecting with Wall Mounted [KG] type.
•2 or more indoor units should be connected.
•Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).



2 Rooms Multi cooling

Table for AOYG14LAC2 with columns: Combination of Indoor Unit, Cooling Capacity (Room 1, Room 2, Total Capacity), Input Power, EER, Seasonal Data (Pdesign, SEER, Energy efficiency class).

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).

Table for AOYG18LAC2 with columns: Combination of Indoor Unit, Cooling Capacity (Room 1, Room 2, Total Capacity), Input Power, EER, Seasonal Data (Pdesign, SEER, Energy efficiency class).

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).

2 Rooms Multi heating

Table for AOYG14LAC2 with columns: Combination of Indoor Unit, Heating Capacity (Room 1, Room 2, Total Capacity), Input Power, COP, Seasonal Data (Pdesign, SCOP, Energy efficiency class).

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).

Table for AOYG18LAC2 with columns: Combination of Indoor Unit, Heating Capacity (Room 1, Room 2, Total Capacity), Input Power, COP, Seasonal Data (Pdesign, SCOP, Energy efficiency class).

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).

3 Rooms Multi Combination Table-Cooling/Heating

3 Rooms Multi cooling

AOYG18LAT3	Combination of Indoor Unit	COOLING OPERATION									
		Cooling Capacity				Input Power (min-max) kW	EER	Seasonal Data			
		Room 1 kW	Room 2 kW	Room 3 kW	Total Capacity (min-max) kW			Pdesign kW	SEER	Energy efficiency	
2 Room	7 7 -	2.30	2.30	-	4.60 (1.8-5.0)	1.22 (0.50-1.43)	3.77	4.6	6.3	A++	
	7 9 -	2.30	2.70	-	5.00 (1.8-5.7)	1.35 (0.50-1.81)	3.70	5.0	6.2	A++	
	7 12 -	1.98	3.02	-	5.00 (1.8-6.1)	1.34 (0.50-2.06)	3.73	5.0	6.2	A++	
	7 14 -	1.88	3.42	-	5.30 (1.8-6.6)	1.34 (0.50-2.06)	3.96	5.3	6.1	A++	
	9 9 -	2.50	2.50	-	5.00 (1.8-6.2)	1.35 (0.50-2.06)	3.70	5.0	6.2	A++	
	9 12 -	2.18	2.82	-	5.00 (1.8-6.3)	1.35 (0.50-2.06)	3.70	5.0	6.2	A++	
	9 14 -	2.07	3.23	-	5.30 (1.8-6.7)	1.35 (0.50-2.06)	3.93	5.3	6.1	A++	
	12 12 -	2.55	2.55	-	5.10 (1.8-6.3)	1.35 (0.50-2.06)	3.78	5.1	6.1	A++	
12 14 -	2.41	2.89	-	5.30 (1.8-6.7)	1.35 (0.50-2.06)	3.93	5.3	6.1	A++		
3 Room	7 7 7	1.80	1.80	1.80	5.40 (1.8-6.8)	1.35 (0.50-2.06)	4.00	5.4	6.9	A++	
	7 7 9	1.70	1.70	2.00	5.40 (1.8-6.8)	1.35 (0.50-2.06)	4.00	5.4	6.9	A++	
	7 7 12	1.53	1.53	2.33	5.40 (1.8-6.8)	1.35 (0.50-2.06)	4.00	5.4	6.7	A++	
	7 7 14	1.41	1.41	2.58	5.40 (2.0-6.8)	1.35 (0.60-2.06)	4.00	5.4	6.7	A++	
	7 9 9	1.61	1.89	1.89	5.40 (1.8-6.8)	1.35 (0.50-2.06)	4.00	5.4	6.8	A++	
	7 9 12	1.46	1.72	2.22	5.40 (1.8-6.8)	1.35 (0.50-2.06)	4.00	5.4	6.7	A++	
	7 9 14	1.35	1.58	2.47	5.40 (2.0-6.8)	1.35 (0.60-2.06)	4.00	5.4	6.7	A++	
	9 9 9	1.80	1.80	1.80	5.40 (1.8-6.8)	1.35 (0.50-2.06)	4.00	5.4	6.8	A++	
	9 9 12	1.64	1.64	2.12	5.40 (1.8-6.8)	1.35 (0.50-2.06)	4.00	5.4	6.7	A++	
	9 9 14	1.64	1.64	2.12	5.40 (1.8-6.8)	1.35 (0.50-2.06)	4.00	5.4	6.7	A++	

ADYG24LAT3	Combination of Indoor Unit	COOLING OPERATION									
		Cooling Capacity				Input Power (min-max) kW	EER	Seasonal Data			
		Room 1 kW	Room 2 kW	Room 3 kW	Total Capacity (min-max) kW			Pdesign kW	SEER	Energy efficiency	
2 Room	7 7 -	2.30	2.30	-	4.60 (1.8-5.0)	1.20 (0.50-1.40)	3.83	4.6	6.3	A++	
	7 9 -	2.30	2.70	-	5.00 (1.8-5.7)	1.36 (0.50-1.78)	3.68	5.0	6.2	A++	
	7 12 -	2.38	3.42	-	5.80 (1.8-6.1)	1.70 (0.50-1.97)	3.41	5.8	6.1	A++	
	7 14 -	2.37	4.13	-	6.50 (1.8-7.2)	1.91 (0.50-2.46)	3.40	6.5	6.0	A+	
	9 9 -	2.75	2.75	-	5.50 (1.8-6.2)	1.55 (0.50-2.02)	3.55	5.5	6.1	A++	
	9 12 -	2.79	3.41	-	6.20 (1.8-6.8)	1.90 (0.50-2.45)	3.26	6.2	5.9	A+	
	9 14 -	2.66	3.94	-	6.60 (1.8-7.7)	1.91 (0.50-2.77)	3.46	6.6	5.9	A+	
	9 18 -	2.35	4.35	-	6.70 (1.8-7.9)	1.91 (0.50-2.87)	3.51	6.7	5.9	A+	
	12 12 -	3.15	3.15	-	6.30 (1.8-7.2)	1.90 (0.50-2.74)	3.32	6.3	5.9	A+	
	12 14 -	3.03	3.67	-	6.70 (1.8-7.8)	1.91 (0.50-2.87)	3.51	6.7	5.9	A+	
	12 18 -	2.66	4.04	-	6.70 (1.8-7.9)	1.92 (0.50-2.87)	3.49	6.7	5.8	A+	
	3 Room	7 7 7	2.23	2.23	2.23	6.70 (1.8-7.4)	1.89 (0.50-2.37)	3.54	6.7	6.4	A++
7 7 9		2.14	2.14	2.52	6.80 (1.8-7.8)	1.94 (0.60-2.87)	3.51	6.8	6.4	A++	
7 7 12		1.98	1.98	2.84	6.80 (1.8-8.1)	1.93 (0.50-2.87)	3.52	6.8	6.3	A++	
7 7 14		1.82	1.82	3.16	6.80 (2.0-8.4)	1.94 (0.60-2.87)	3.51	6.8	6.2	A++	
7 7 18		1.63	1.63	3.54	6.80 (2.0-8.5)	1.94 (0.60-2.87)	3.51	6.8	6.1	A++	
7 9 9		2.03	2.38	2.38	6.80 (1.8-8.2)	1.93 (0.50-2.87)	3.52	6.8	6.4	A++	
7 9 12		1.88	2.21	2.70	6.80 (1.8-8.2)	1.93 (0.50-2.87)	3.52	6.8	6.2	A++	
7 9 14		1.74	2.04	3.02	6.80 (2.0-8.4)	1.94 (0.60-2.87)	3.51	6.8	6.2	A++	
7 9 18		1.56	1.84	3.40	6.80 (2.0-8.5)	1.94 (0.60-2.87)	3.51	6.8	6.1	A++	
7 12 12		1.76	2.52	2.52	6.80 (1.8-8.2)	1.94 (0.50-2.87)	3.51	6.8	6.2	A++	
7 12 14		1.63	2.34	2.83	6.80 (2.0-8.5)	1.94 (0.60-2.87)	3.51	6.8	6.2	A++	
9 9 9		2.27	2.27	2.27	6.80 (1.8-8.2)	1.94 (0.50-2.87)	3.51	6.8	6.4	A++	
9 9 12		2.11	2.11	2.58	6.80 (1.8-8.3)	1.94 (0.50-2.87)	3.51	6.8	6.2	A++	
9 9 14		1.95	1.95	2.89	6.80 (2.0-8.5)	1.94 (0.60-2.87)	3.51	6.8	6.2	A++	
9 9 18*		1.77	1.77	3.27	6.80 (2.0-8.5)	1.94 (0.60-2.87)	3.51	6.8	6.1	A++	
9 12 12		1.97	2.41	2.41	6.80 (1.8-8.3)	1.94 (0.50-2.87)	3.51	6.8	6.2	A++	
9 12 14		1.84	2.24	2.72	6.80 (2.0-8.5)	1.94 (0.60-2.87)	3.51	6.8	6.2	A++	
12 12 12		2.27	2.27	2.27	6.80 (1.8-8.3)	1.94 (0.50-2.87)	3.51	6.8	6.1	A++	

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h models
 •The above is the value for connecting with Wall Mounted type.
 •2 or more indoor units should be connected.
 •Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
 •Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
 •The total ability of connectable indoor units is up to 36000Btu from 14000Btu.
 *1: When ASYG18L is connected, connect at least 1 wall mounted type of 9000Btu.

3 Rooms Multi heating

AOYG18LAT3	Combination of Indoor Unit	HEATING OPERATION									
		Heating Capacity				Input Power (min-max) kW	COP	Seasonal Data			
		Room 1 kW	Room 2 kW	Room 3 kW	Total Capacity (min-max) kW			Pdesign kW	SCOP	Energy efficiency	
2 Room	7 7 -	2.70	2.70	-	5.40 (2.0-6.1)	1.59 (0.52-1.93)	3.40	4.0	4.1	A+	
	7 9 -	2.75	3.25	-	6.00 (2.0-6.4)	1.87 (0.52-2.06)	3.21	4.0	4.1	A+	
	7 12 -	2.59	3.71	-	6.30 (2.0-6.5)	1.98 (0.52-2.06)	3.18	4.0	4.1	A+	
	7 14 -	2.51	4.29	-	6.80 (2.0-7.1)	1.92 (0.50-2.06)	3.54	4.0	4.1	A+	
	9 9 -	3.15	3.15	-	6.30 (2.0-6.5)	1.98 (0.52-2.06)	3.18	4.0	4.1	A+	
	9 12 -	2.89	3.51	-	6.40 (2.0-6.6)	1.99 (0.52-2.06)	3.22	4.0	4.1	A+	
	9 14 -	2.77	4.03	-	6.80 (2.0-7.2)	1.91 (0.50-2.06)	3.56	4.0	4.1	A+	
	12 12 -	3.20	3.20	-	6.40 (2.0-6.6)	1.98 (0.52-2.06)	3.23	4.0	4.1	A+	
	12 14 -	3.09	3.71	-	6.80 (2.0-7.3)	1.90 (0.50-2.06)	3.58	4.0	4.1	A+	
	3 Room	7 7 7	2.27	2.27	2.27	6.80 (2.0-7.7)	1.62 (0.50-2.06)	4.20	5.0	4.3	A+
		7 7 9	2.14	2.14	2.52	6.80 (2.0-7.8)	1.62 (0.50-2.06)	4.20	5.0	4.3	A+
		7 7 12	1.98	1.98	2.83	6.80 (2.0-7.8)	1.59 (0.50-2.06)	4.28	5.0	4.3	A+
7 7 14		1.83	1.83	3.14	6.80 (2.0-8.0)	1.61 (0.50-2.06)	4.22	5.0	4.3	A+	
7 9 9		2.03	2.39	2.39	6.80 (2.0-7.8)	1.60 (0.50-2.06)	4.25	5.0	4.3	A+	
7 9 12		1.89	2.22	2.69	6.80 (2.0-7.9)	1.59 (0.50-2.06)	4.28	5.0	4.3	A+	
7 9 14		1.75	2.06	2.99	6.80 (2.0-8.0)	1.60 (0.50-2.06)	4.25	5.0	4.3	A+	
9 9 9		2.27	2.27	2.27	6.80 (2.0-7.9)	1.59 (0.50-2.06)	4.28	5.0	4.3	A+	
9 9 12		2.12	2.12	2.57	6.80 (2.0-7.9)	1.59 (0.50-2.06)	4.28	5.0	4.3	A+	
9 9 14		2.12	2.12	2.57	6.80 (2.0-7.9)	1.59 (0.50-2.06)	4.28	5.0	4.3	A+	

ADYG24LAT3	Combination of Indoor Unit	HEATING OPERATION									
		Heating Capacity				Input Power (min-max) kW	COP	Seasonal Data			
		Room 1 kW	Room 2 kW	Room 3 kW	Total Capacity (min-max) kW			Pdesign kW	SCOP	Energy efficiency	
2 Room	7 7 -	2.75	2.75	-	5.50 (2.0-6.1)	1.55 (0.52-1.93)	3.55	4.0	4.1	A+	
	7 9 -	2.80	3.30	-	6.10 (2.0-7.0)	1.82 (0.52-2.52)	3.35	4.0	4.1	A+	
	7 12 -	2.88	4.12	-	7.00 (2.0-7.3)	2.31 (0.52-2.66)	3.03	4.0	4.1	A+	
	7 14 -	2.80	4.80	-	7.60 (2.0-8.3)	2.28 (0.50-2.87)	3.33	4.0	4.1	A+	
	9 9 -	3.30	3.30	-	6.60 (2.0-7.4)	2.04 (0.52-2.68)	3.24	4.0	4.1	A+	
	9 12 -	3.30	4.00	-	7.30 (2.0-7.7)	2.43 (0.52-2.87)	3.00	4.0	4.1	A+	
	9 14 -	3.22	4.68	-	7.90 (2.0-8.3)	2.38 (0.50-2.87)	3.32	4.0	4.1	A+	
	9 18 -	2.84	5.16	-	8.00 (2.0-8.5)	2.32 (0.50-2.87)	3.45	4.0	4.1	A+	
	12 12 -	3.80	3.80	-	7.60 (2.0-7.8)	2.54 (0.52-2.87)	2.99	4.0	4.1	A+	
	12 14 -	3.59	4.31	-	7.90 (2.0-8.4)	2.37 (0.50-2.87)	3.33	4.0	4.1	A+	
	12 18 -	3.20	4.80	-	8.00 (2.0-8.6)	2.31 (0.50-2.87)	3.46	4.0	4.1	A+	
	3 Room	7 7 7	2.60	2.60	2.60	7.80 (2.0-8.6)	1.94 (0.50-2.68)	4.02	5.0	4.3	A+
7 7 9		2.52	2.52	2.96	8.00 (2.0-8.8)	2.00 (0.50-2.87)	4.00	5.2	4.2	A+	
7 7 12		2.34	2.34	3.32	8.00 (2.0-8.9)	1.99 (0.50-2.80)	4.02	5.2	4.2	A+	
7 7 14		2.16	2.16	3.68	8.00 (2.0-9.2)	1.91 (0.50-2.72)	4.19	5.2	4.2	A+	
7 7 18		1.94	1.94	4.12	8.00 (2.0-9.2)	1.89 (0.50-2.70)	4.23	5.2	4.2	A+	
7 9 9		2.38	2.81	2.81	8.00 (2.0-9.0)	1.99 (0.50-2.87)	4.02	5.2	4.2	A+	
7 9 12		2.23	2.62	3.15	8.00 (2.0-9.1)	1.98 (0.50-2.87)	4.04	5.2	4.2	A+	
7 9 14		2.06	2.42	3.52	8.00 (2.0-9.2)	1.91 (0.50-2.72)	4.19	5.2	4.2	A+	
7 9 18		1.85	2.18	3.97	8.00 (2.0-9.2)	1.89 (0.50-2.69)	4.23	5.2	4.2	A+	
7 12 12		2.08	2.96	2.96	8.00 (2.0-9.1)	1.97 (0.50-2.87)	4.06	5.2	4.2	A+	
7 12 14		1.93	2.76	3.31	8.00 (2.0-9.2)	1.90 (0.50-2.70)	4.21	5.2	4.2	A+	
9 9 9		2.67	2.67	2.67	8.00 (2.0-9.1)	1.98 (0.50-2.87)	4.04	5.2	4.2	A+	
9 9 12		2.49	2.49	3.02	8.00 (2.0-9.2)	1.97 (0.50-2.87)	4.06	5.2	4.2	A+	
9 9 14		2.32	2.32	3.37	8.00 (2.0-9.2)	1.89 (0.50-2.70)	4.23	5.2	4.2	A+	
9 9 18*		2.10	2.10	3.81	8.00 (2.0-9.2)	1.87 (0.50-2.68)	4.28	5.2	4.2	A+	
9 12 12		2.34	2.83	2.83	8.00 (2.0-9.2)	1.96 (0.50-2.80)	4.08	5.2	4.2	A+	
9 12 14		2.18	2.64	3.17	8.00 (2.0-9.2)	1.89 (0.50-2.69)	4.23	5.2	4.2	A+	
12 12 12		2.67	2.67	2.67	8.00 (2.0-9.2)	1.95 (0.50-2.78)	4.10	5.2	4.2	A+	

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h models
 •The above is the value for connecting with Wall Mounted type.
 •2 or more indoor units should be connected.
 •Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
 •Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
 •The Total ability of connected indoor unit is up to 36000Btu from 14000Btu.
 *1: When ASYG18L is connected, connect at least 1 wall mounted type for 9000Btu.



4 Rooms Multi Combination Table—Cooling/Heating

4 Rooms Multi cooling

AOYG30LAT4	Combination of Indoor Unit	COOLING OPERATION											
		Cooling Capacity					Input Power (min-max)	EER	Seasonal Data				
		Room 1 kW	Room 2 kW	Room 3 kW	Room 4 kW	Total Capacity (min-max) kW			Pdesign kW	SEER	Energy efficiency		
7	7	14	-	1.96	1.96	3.27	-	7.20 (1.6-8.9)	2.22 (0.68-3.43)	3.24	7.2	5.9	A+
7	7	18	-	1.81	1.81	4.08	-	7.70 (2.8-10.0)	2.22 (0.98-3.55)	3.47	7.7	5.8	A+
7	7	24	-	1.61	1.61	4.57	-	7.80 (2.8-10.1)	2.19 (0.98-3.53)	3.56	7.8	5.8	A+
7	9	12	-	2.08	2.34	2.78	-	7.20 (1.6-8.9)	2.22 (0.68-3.41)	3.24	7.2	5.9	A+
7	9	14	-	1.90	2.14	3.16	-	7.20 (2.8-9.1)	2.22 (0.98-3.56)	3.24	7.2	5.9	A+
7	9	18	-	1.76	1.98	3.96	-	7.70 (2.8-9.9)	2.22 (0.98-3.56)	3.47	7.7	5.8	A+
7	9	24	-	1.57	1.77	4.46	-	7.80 (2.8-10.1)	2.19 (0.98-3.53)	3.56	7.8	5.8	A+
7	12	12	-	1.96	2.62	2.62	-	7.20 (1.6-9.1)	2.22 (0.68-3.54)	3.24	7.2	5.9	A+
7	12	14	-	1.83	2.43	3.04	-	7.30 (2.8-9.2)	2.22 (0.98-3.56)	3.29	7.3	5.9	A+
7	12	18	-	1.68	2.24	3.78	-	7.70 (2.8-9.9)	2.22 (0.98-3.56)	3.47	7.7	5.8	A+
7	12	24	-	1.51	2.01	4.28	-	7.80 (2.8-10.1)	2.19 (0.98-3.56)	3.56	7.8	5.8	A+
7	14	14	-	1.68	2.81	2.81	-	7.30 (2.8-9.3)	2.22 (0.98-3.58)	3.29	7.3	5.9	A+
7	14	18	-	1.57	2.61	3.52	-	7.70 (3.5-10.0)	2.22 (1.17-3.58)	3.47	7.7	5.8	A+
7	14	24	-	1.44	2.39	4.07	-	7.90 (3.5-10.1)	2.20 (1.17-3.58)	3.59	7.9	5.8	A+
7	18	18	-	1.42	3.19	3.19	-	7.80 (3.5-10.1)	2.22 (1.17-3.58)	3.51	7.8	5.7	A+
7	18	24	-	1.30	2.92	3.68	-	7.90 (4.7-10.1)	2.22 (1.27-3.58)	3.56	7.9	5.7	A+
9	9	9	-	2.40	2.40	2.40	-	7.20 (2.8-8.9)	2.22 (0.98-3.42)	3.24	7.2	5.9	A+
9	9	12	-	2.26	2.26	2.68	-	7.20 (2.8-9.1)	2.22 (0.98-3.54)	3.24	7.2	5.9	A+
9	9	14	-	2.10	2.10	3.11	-	7.30 (2.8-9.2)	2.22 (0.98-3.57)	3.29	7.3	5.9	A+
9	9	18	-	1.93	1.93	3.85	-	7.70 (2.8-9.9)	2.22 (0.98-3.56)	3.47	7.7	5.8	A+
9	9	24	-	1.73	1.73	4.35	-	7.80 (2.8-10.1)	2.20 (1.17-3.54)	3.55	7.8	5.8	A+
9	12	12	-	2.14	2.53	2.53	-	7.20 (2.8-9.1)	2.22 (0.98-3.54)	3.24	7.2	5.9	A+
9	12	14	-	1.99	2.36	2.95	-	7.30 (2.8-9.2)	2.22 (0.98-3.57)	3.29	7.3	5.9	A+
9	12	18	-	1.84	2.18	3.68	-	7.70 (2.8-9.9)	2.22 (0.98-3.56)	3.47	7.7	5.8	A+
9	12	24	-	1.66	1.97	4.18	-	7.80 (2.8-10.1)	2.19 (0.98-3.56)	3.56	7.8	5.8	A+
9	14	14	-	1.84	2.73	2.73	-	7.30 (3.5-9.3)	2.22 (1.17-3.58)	3.29	7.3	5.9	A+
9	14	18	-	1.74	2.58	3.48	-	7.80 (3.5-10.0)	2.22 (1.17-3.58)	3.51	7.8	5.8	A+
9	14	24	-	1.58	2.34	3.98	-	7.90 (3.5-10.1)	2.22 (1.27-3.56)	3.56	7.9	5.8	A+
9	18	18	-	1.56	3.12	3.12	-	7.80 (4.7-10.1)	2.22 (1.27-3.58)	3.51	7.8	5.7	A+
12	12	12	-	2.43	2.43	2.43	-	7.30 (2.8-9.2)	2.22 (0.98-3.55)	3.29	7.3	5.9	A+
12	12	14	-	2.28	2.28	2.85	-	7.40 (2.8-9.3)	2.22 (0.98-3.58)	3.33	7.4	5.9	A+
12	12	18	-	2.12	2.12	3.57	-	7.80 (3.5-10.0)	2.22 (1.17-3.57)	3.51	7.8	5.8	A+
12	12	24	-	1.92	1.92	4.07	-	7.90 (3.5-10.1)	2.20 (1.17-3.54)	3.59	7.9	5.8	A+
12	14	14	-	2.11	2.64	2.64	-	7.40 (3.5-9.4)	2.22 (1.17-3.58)	3.33	7.4	5.9	A+
12	14	18	-	1.98	2.48	3.34	-	7.80 (3.5-10.1)	2.22 (1.17-3.58)	3.51	7.8	5.8	A+
12	18	18	-	1.81	3.05	3.05	-	7.90 (4.7-10.1)	2.22 (1.27-3.58)	3.56	7.9	5.7	A+
7	7	7	7	1.93	1.93	1.93	1.93	7.70 (1.6-9.6)	2.20 (0.68-3.41)	3.50	7.7	6.2	A++
7	7	7	9	1.89	1.89	1.89	2.13	7.80 (1.6-9.8)	2.22 (0.68-3.54)	3.51	7.8	6.2	A++
7	7	7	12	1.83	1.83	1.83	2.41	7.90 (1.6-9.9)	2.22 (0.68-3.54)	3.56	7.9	6.1	A++
7	7	7	14	1.70	1.70	1.70	2.80	7.90 (2.8-9.9)	2.22 (0.98-3.56)	3.56	7.9	6.1	A++
7	7	7	18	1.52	1.52	1.52	3.43	8.00 (2.8-10.1)	2.20 (0.98-3.55)	3.64	8.0	6.0	A++
7	7	9	9	1.86	1.86	2.09	2.09	7.90 (2.8-9.7)	2.22 (0.98-3.42)	3.56	7.9	6.2	A++
7	7	9	12	1.78	1.78	1.99	2.35	7.90 (2.8-9.9)	2.22 (0.98-3.55)	3.56	7.9	6.1	A++
7	7	9	14	1.68	1.68	1.88	2.76	8.00 (2.8-10.0)	2.22 (0.98-3.57)	3.60	8.0	6.1	A++
7	7	9	18	1.49	1.49	1.67	3.35	8.00 (3.5-10.1)	2.20 (1.17-3.55)	3.64	8.0	6.0	A+
7	7	12	12	1.72	1.72	2.28	2.28	8.00 (2.8-10.0)	2.22 (0.98-3.55)	3.60	8.0	6.1	A++
7	7	12	14	1.61	1.61	2.13	2.65	8.00 (2.8-10.0)	2.22 (0.98-3.57)	3.60	8.0	6.0	A+
7	7	12	18	1.43	1.43	1.91	3.22	8.00 (3.5-10.1)	2.20 (1.17-3.56)	3.64	8.0	6.0	A+
7	7	14	14	1.50	1.50	2.50	2.50	8.00 (3.5-10.1)	2.22 (1.17-3.58)	3.60	8.0	6.0	A+
7	7	14	18	1.35	1.35	2.25	3.04	8.00 (3.5-10.1)	2.22 (1.17-3.58)	3.60	8.0	6.0	A+
7	9	9	9	1.81	2.03	2.03	2.03	7.90 (2.8-9.9)	2.22 (0.98-3.56)	3.56	7.9	6.2	A++
7	9	9	12	1.76	1.96	1.96	2.32	8.00 (2.8-10.0)	2.22 (0.98-3.56)	3.60	8.0	6.1	A++
7	9	9	14	1.64	1.83	1.83	2.70	8.00 (3.5-10.1)	2.22 (1.17-3.58)	3.60	8.0	6.1	A++
7	9	9	18	1.45	1.64	1.64	3.27	8.00 (3.5-10.1)	2.22 (1.17-3.56)	3.60	8.0	6.0	A+
7	9	12	12	1.68	1.88	2.22	2.22	8.00 (2.8-10.0)	2.22 (0.98-3.56)	3.60	8.0	6.1	A++
7	9	12	14	1.57	1.76	2.08	2.59	8.00 (3.5-10.1)	2.22 (1.17-3.58)	3.60	8.0	6.0	A+
7	9	12	18	1.40	1.58	1.87	3.15	8.00 (3.5-10.1)	2.22 (1.17-3.56)	3.60	8.0	6.0	A+
7	9	14	14	1.48	1.66	2.43	2.43	8.00 (3.5-10.1)	2.22 (1.17-3.58)	3.60	8.0	6.0	A+
7	9	14	18	1.32	1.49	2.21	2.98	8.00 (4.7-10.1)	2.22 (1.27-3.57)	3.60	8.0	6.0	A+
7	12	12	12	1.61	2.13	2.13	2.13	8.00 (2.8-10.1)	2.22 (0.98-3.56)	3.60	8.0	6.0	A+
7	12	12	14	1.51	2.00	2.00	2.49	8.00 (3.5-10.1)	2.22 (1.17-3.58)	3.60	8.0	6.0	A+
7	12	12	18	1.35	1.80	1.80	3.04	8.00 (3.5-10.1)	2.22 (1.17-3.56)	3.60	8.0	6.0	A+
7	12	14	14	1.41	1.89	2.35	2.35	8.00 (3.5-10.1)	2.22 (1.17-3.58)	3.60	8.0	6.0	A+
9	9	9	9	2.00	2.00	2.00	2.00	8.00 (3.5-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.2	A++
9	9	9	12	1.91	1.91	1.91	2.27	8.00 (3.5-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.1	A++
9	9	9	14	1.79	1.79	1.79	2.63	8.00 (3.5-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A+
9	9	9	18*	1.60	1.60	1.60	3.20	8.00 (4.7-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A+
9	9	12	12	1.83	1.83	2.17	2.17	8.00 (3.5-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A+
9	9	12	14	1.72	1.72	2.03	2.53	8.00 (3.5-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A+
9	9	12	18**	1.54	1.54	1.83	3.09	8.00 (4.7-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A+
9	9	14	14	1.62	1.62	2.38	2.38	8.00 (4.7-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A+
9	12	12	12	1.76	2.08	2.08	2.08	8.00 (3.5-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A+
9	12	12	14	1.66	1.95	1.95	2.44	8.00 (3.5-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A+
9	12	14	14	1.55	1.85	2.30	2.30	8.00 (4.7-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A+
12	12	12	12	2.00	2.00	2.00	2.00	8.00 (3.5-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A+

Note: *7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models

- The above is the value for connecting with Wall Mounted type.
- *3 or more indoor units should be connected.
- *Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
- *Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- *The total ability of connected indoor unit is up to 49000Btu from 27000Btu.
- *1: Connection of ASYG18L + ARYG09L + ARYG09L + ARYG09L is not available. All types other than this combination can be connected.
- *2: Connection of ASYG18L + ARYG12L + ARYG09L + ARYG09L is not available. All types other than this combination can be connected.

4 Rooms Multi heating

AOYG30LAT4	Combination of Indoor Unit	HEATING OPERATION											
		Heating Capacity					Input Power (min-max)	COP	Seasonal Data				
		Room 1 kW	Room 2 kW	Room 3 kW	Room 4 kW	Total Capacity (min-max) kW			Pdesign kW	SCOP	Energy efficiency		
7	7	14	-	2.42	2.42	4.15	-	9.00 (1.8-10.1)	2.66 (0.58-3.53)	3.38	5.8	3.8	A
7	7	18	-	2.27	2.27	4.86	-	9.40 (3.3-11.2)	2.46 (0.87-3.52)	3.82	5.8	3.8	A
7	7	24	-	2.03	2.03	5.44	-	9.50 (3.3-11.5)	2.47 (0.87-3.52)	3.85	5.8	3.8	A
7	9	12	-	2.49	2.94	3.56	-	9.00 (1.8-10.0)	2.69 (0.58-3.51)	3.35	5.8	3.8	A
7	9	14	-	2.33	2.75	4.00	-	9.10 (3.3-10.2)	2.64 (0.87-3.50)	3.45	5.8	3.8	A
7	9	18	-	2.17	2.56	4.66	-	9.40 (3.3-11.3)	2.45 (0.87-3.50)	3.84	5.8	3.8	A
7	9	24	-	1.98	2.33	5.29	-	9.60 (3.3-11.5)	2.46 (0.87-3.51)	3.90	5.8	3.8	A
7	12	12	-	2.33	3.33	3.33	-	9.00 (1.8-10.1)	2.66 (0.58-3.48)	3.38	5.8	3.8	A
7	12	14	-	2.22	3.17	3.80	-	9.20 (3.3-10.3)	2.62 (0.87-3.48)	3.51	5.8	3.8	A
7	12	18	-	2.08	2.97	4.45	-	9.50 (3.3-11.4)	2.44 (0.87-3.47)	3.89	5.8	3.8	A
7	12	24	-	1.88	2.69	5.03	-	9.60 (3.3-11.7)	2.45 (0.87-3.56)	3.92	5.8	3.8	A

5 Rooms Multi Combination Table-Cooling

5 Rooms Multi cooling

AOYG36L8LA5	Combination of Indoor Unit		COOLING OPERATION									Seasonal Data					
			Cooling Capacity						Input Power (min-max) kW	EER	Pdesign kW	SEER	Energy efficiency				
			Room 1	Room 2	Room 3	Room 4	Room 5	Total Capacity (min-max) kW									
			kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW			
2 Room	7	24	-	-	-	2.00	7.00	-	-	-	9.0 (3.5-11.1)	2.31 (0.8-3.29)	3.89	9.0	6.5	A++	
	9	24	-	-	-	2.50	7.00	-	-	-	9.5 (3.5-11.8)	2.53 (0.8-3.59)	3.75	9.5	6.5	A++	
	12	24	-	-	-	3.33	6.67	-	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.5	A++	
	14	24	-	-	-	3.68	6.32	-	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.5	A++	
	18	18	-	-	-	5.00	5.00	-	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.5	A++	
	18	24	-	-	-	4.29	5.71	-	-	-	10.0 (3.5-12.5)	2.79 (0.8-3.88)	3.58	10.0	6.4	A++	
	24	24	-	-	-	5.00	5.00	-	-	-	10.0 (3.5-12.5)	2.78 (0.8-3.88)	3.60	10.0	6.4	A++	
	7	7	14	-	-	2.00	2.00	4.00	-	-	8.0 (3.5-10.0)	1.90 (0.8-2.85)	4.21	8.0	6.7	A++	
	7	7	18	-	-	2.00	2.00	5.00	-	-	9.0 (3.5-11.4)	2.32 (0.8-3.44)	3.88	9.0	6.7	A++	
	7	7	24	-	-	1.84	1.84	6.32	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.6	A++	
	7	9	12	-	-	2.00	2.50	3.50	-	-	8.0 (3.5-10.0)	1.90 (0.8-2.85)	4.21	8.0	6.7	A++	
	7	9	14	-	-	2.00	2.50	4.00	-	-	8.5 (3.5-10.7)	2.10 (0.8-3.15)	4.05	8.5	6.7	A++	
	7	9	18	-	-	2.00	2.50	5.00	-	-	9.0 (3.5-11.4)	2.55 (0.8-3.74)	3.72	9.0	6.6	A++	
	7	9	24	-	-	1.75	2.25	6.00	-	-	10.0 (3.5-12.5)	2.80 (0.8-3.88)	3.57	10.0	6.6	A++	
	7	12	12	-	-	2.00	3.50	3.50	-	-	9.0 (3.5-11.1)	2.27 (0.8-3.29)	3.97	9.0	6.7	A++	
	7	12	14	-	-	2.00	3.50	4.00	-	-	9.5 (3.5-11.8)	2.50 (0.8-3.59)	3.80	9.5	6.7	A++	
	7	12	18	-	-	1.89	3.24	4.87	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.6	A++	
	7	12	24	-	-	1.63	2.79	5.58	-	-	10.0 (3.5-12.5)	2.79 (0.8-3.88)	3.59	10.0	6.6	A++	
	7	14	14	-	-	2.00	4.00	4.00	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.6	A++	
	7	14	18	-	-	1.79	3.59	4.62	-	-	10.0 (3.5-12.5)	2.80 (0.8-3.88)	3.57	10.0	6.6	A++	
	7	14	24	-	-	1.62	3.16	4.68	-	-	10.0 (3.5-12.5)	2.78 (0.8-3.88)	3.60	10.0	6.6	A++	
	7	18	18	-	-	1.62	4.19	4.19	-	-	10.0 (3.5-12.5)	2.79 (0.8-3.88)	3.59	10.0	6.6	A++	
	7	18	24	-	-	1.43	3.67	4.90	-	-	10.0 (3.5-12.5)	2.77 (0.8-3.88)	3.61	10.0	6.5	A++	
	9	9	9	-	-	2.50	2.50	2.50	-	-	7.5 (3.5-9.6)	1.74 (0.8-2.70)	4.30	7.5	6.7	A++	
	9	9	12	-	-	2.50	2.50	3.50	-	-	8.5 (3.5-10.7)	2.10 (0.8-3.15)	4.05	8.5	6.7	A++	
	9	9	14	-	-	2.50	2.50	4.00	-	-	9.0 (3.5-11.4)	2.32 (0.8-3.44)	3.88	9.0	6.7	A++	
	9	9	18	-	-	2.50	2.50	5.00	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.6	A++	
	9	9	24	-	-	2.14	2.14	5.72	-	-	10.0 (3.5-12.5)	2.79 (0.8-3.88)	3.58	10.0	6.6	A++	
	3 Room	9	12	12	-	-	2.50	3.50	3.50	-	-	9.5 (3.5-11.8)	2.50 (0.8-3.59)	3.80	9.5	6.7	A++
		9	12	14	-	-	2.50	3.50	4.00	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.6	A++
9		12	18	-	-	2.31	3.08	4.61	-	-	10.0 (3.5-12.5)	2.80 (0.8-3.88)	3.57	10.0	6.6	A++	
9		12	24	-	-	2.00	2.67	5.33	-	-	10.0 (3.5-12.5)	2.78 (0.8-3.88)	3.60	10.0	6.5	A++	
9		14	14	-	-	2.44	3.78	3.78	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.6	A++	
9		14	18	-	-	2.20	3.41	4.39	-	-	10.0 (3.5-12.5)	2.79 (0.8-3.88)	3.58	10.0	6.6	A++	
9		14	24	-	-	1.91	2.98	5.11	-	-	10.0 (3.5-12.5)	2.78 (0.8-3.88)	3.60	10.0	6.5	A++	
9		18	18	-	-	2.00	4.00	4.00	-	-	10.0 (3.5-12.5)	2.78 (0.8-3.88)	3.60	10.0	6.5	A++	
9		18	24	-	-	1.76	3.53	4.71	-	-	10.0 (3.5-12.5)	2.76 (0.8-3.88)	3.62	10.0	6.5	A++	
12		12	12	-	-	3.33	3.33	3.33	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.6	A++	
12		12	14	-	-	3.16	3.16	3.16	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.6	A++	
12		12	18	-	-	2.86	2.86	4.28	-	-	10.0 (3.5-12.5)	2.79 (0.8-3.88)	3.58	10.0	6.6	A++	
12		12	24	-	-	2.50	2.50	5.00	-	-	10.0 (3.5-12.5)	2.77 (0.8-3.88)	3.61	10.0	6.5	A++	
12		14	14	-	-	3.00	3.50	3.50	-	-	10.0 (3.5-12.5)	2.80 (0.8-3.88)	3.57	10.0	6.6	A++	
12		14	18	-	-	2.73	3.18	4.09	-	-	10.0 (3.5-12.5)	2.79 (0.8-3.88)	3.59	10.0	6.6	A++	
12		14	24	-	-	2.40	2.80	4.80	-	-	10.0 (3.5-12.5)	2.76 (0.8-3.88)	3.62	10.0	6.5	A++	
12		18	18	-	-	2.50	3.75	3.75	-	-	10.0 (3.5-12.5)	2.77 (0.8-3.88)	3.61	10.0	6.5	A++	
12		18	24	-	-	2.22	3.33	4.45	-	-	10.0 (3.5-12.5)	2.75 (0.8-3.88)	3.64	10.0	6.5	A++	
14		14	14	-	-	3.33	3.33	3.33	-	-	10.0 (3.5-12.5)	2.79 (0.8-3.88)	3.58	10.0	6.6	A++	
14		14	18	-	-	3.04	3.04	3.92	-	-	10.0 (3.5-12.5)	2.78 (0.8-3.88)	3.60	10.0	6.5	A++	
14		14	24	-	-	2.69	2.69	4.62	-	-	10.0 (3.5-12.5)	2.75 (0.8-3.88)	3.63	10.0	6.5	A++	
14		18	18	-	-	2.80	3.60	3.60	-	-	10.0 (3.5-12.5)	2.76 (0.8-3.88)	3.62	10.0	6.5	A++	
14		18	24	-	-	3.33	3.33	3.33	-	-	10.0 (3.5-12.5)	2.75 (0.8-3.88)	3.64	10.0	6.5	A++	
4 Room		7	7	7	7	-	2.00	2.00	2.00	2.00	-	8.0 (3.5-10.0)	1.84 (0.8-2.85)	4.34	8.0	6.8	A++
		7	7	7	9	-	2.00	2.00	2.00	2.50	-	8.5 (3.5-10.7)	2.00 (0.8-3.15)	4.25	8.5	6.8	A++
		7	7	7	12	-	2.00	2.00	2.00	3.50	-	9.5 (3.5-11.8)	2.32 (0.8-3.59)	4.10	9.5	6.8	A++
		7	7	7	14	-	2.00	2.00	2.00	4.00	-	10.0 (3.5-12.5)	2.50 (0.8-3.88)	4.00	10.0	6.8	A++
		7	7	7	18	-	1.79	1.79	1.79	4.63	-	10.0 (3.5-12.5)	2.49 (0.8-3.88)	4.01	10.0	6.8	A++
		7	7	7	24	-	1.56	1.56	1.56	5.32	-	10.0 (3.5-12.5)	2.47 (0.8-3.88)	4.05	10.0	6.8	A++
		7	7	9	9	-	2.00	2.00	2.50	2.50	-	9.0 (3.5-11.4)	2.17 (0.8-3.44)	4.15	9.0	6.8	A++
	7	7	9	12	-	2.00	2.00	2.50	3.50	-	10.0 (3.5-12.5)	2.50 (0.8-3.88)	4.00	10.0	6.8	A++	
	7	7	9	14	-	1.89	1.89	2.43	3.79	-	10.0 (3.5-12.5)	2.50 (0.8-3.88)	4.00	10.0	6.8	A++	
	7	7	9	18	-	1.71	1.71	2.20	4.38	-	10.0 (3.5-12.5)	2.49 (0.8-3.88)	4.02	10.0	6.8	A++	
	7	7	9	24	-	1.49	1.49	1.91	5.11	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.06	10.0	6.7	A++	
	7	7	12	12	-	1.84	1.84	3.16	3.16	-	10.0 (3.5-12.5)	2.49 (0.8-3.88)	4.01	10.0	6.8	A++	
	7	7	12	14	-	1.75	1.75	3.00	3.50	-	10.0 (3.5-12.5)	2.49 (0.8-3.88)	4.02	10.0	6.8	A++	
	7	7	12	18	-	1.59	1.59	2.73	4.09	-	10.0 (3.5-12.5)	2.48 (0.8-3.88)	4.04	10.0	6.8	A++	
	7	7	12	24	-	1.40	1.40	2.40	4.80	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.07	10.0	6.7	A++	
	7	7	14	14	-	1.67	1.67	3.33	3.33	-	10.0 (3.5-12.5)	2.48 (0.8-3.88)	4.03	10.0	6.8	A++	
	7	7	14	18	-	1.52	1.52	3.04	3.92	-	10.0 (3.5-12.5)	2.47 (0.8-3.88)	4.05	10.0	6.7	A++	
	7	7	14	24	-	1.35	1.35	2.69	4.61	-	10.0 (3.5-12.5)	2.45 (0.8-3.88)	4.08	10.0	6.7	A++	
	7	7	18	18	-	1.40	1.40	3.60	3.60	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.07	10.0	6.7	A++	
	7	9	9	9	-	2.00	2.50	2.50	2.50	-	9.5 (3.5-12.1)	2.35 (0.8-3.74)	4.05	9.5	6.8	A++	
	7	9	9	12	-	1.89	2.43	2.43	3.25	-	10.0 (3.5-12.5)	2.50 (0.8-3.88)	4.00	10.0	6.8	A++	
	7	9	9	14	-	1.79	2.31	2.31	3.59	-	10.0 (3.5-12.5)	2.49 (0.8-3.88)	4.01	10.0	6.8	A++	
	7	9	9	18	-	1.63	2.09	2.09	4.19	-	10.0 (3.5-12.5)	2.48 (0.8-3.88)	4.03	10.0	6.8	A++	
	7	9	9	24	-	1.43	1.84	1.84	4.89	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.07	10.0	6.7	A++	
	7	9	12	12	-	1.75	2.25	3.00	3.00	-	10.0 (3.5-12.5)	2.49 (0.8-3.88)	4.02	10.0	6.8	A++	
	7	9	12	14	-	1.67	2.14	2.86	3.33	-	10.0 (3.5-12.5)	2.48 (0.8-3.88)	4.03	10.0	6.8	A++	
	7	9	12	18	-	1.52	1.96	2.61	3.91	-	10.0 (3.5-12.5)	2.47 (0.8-3.88)	4.05	10.0	6.7	A++	
	7	9	12	24	-	1.35	1.73	2.31	4.61	-	10.0 (3.5-12.5)	2.45 (0.8-3.88)	4.08	10.0	6.7	A++	
	7	9	14	14	-	1.59	2.05	3.18	3.18	-	10.0 (3.5-12.5)	2.48 (0.8-3.88)	4.04	10.0	6.8	A++	
	7	9	14	18	-	1.46	1.88	2.92	3.74	-	10.0 (3.5-12.5)	2.46 (0.8-3.88)	4.06	10.0	6.7	A++	
	7	9	14	24	-	1.30	1.67	2.59	4.44	-	10.0 (3.5-12.5)	2.44 (0.8-3.88)	4.10	10.0	6.7	A++	
	7	9	18	18	-	1.35	1.73	3.46	3.46	-	10.0 (3.5-12.5)	2.45 (0.8-3.88)	4.08	10.0	6.7	A++	
	7	12	12	12	-	1.63	2.29	2.79	2.79	-	10.0 (3.5-12.5)	2					

5 Rooms Multi Combination Table-Heating

5 Rooms Multi heating

AOYG36LBLA5	Combination of Indoor Unit		HEATING OPERATION															
			Heating Capacity					Input Power (min-max) kW	COP	Seasonal Data								
			Room 1 kW	Room 2 kW	Room 3 kW	Room 4 kW	Room 5 kW			Total Capacity (min-max) kW	Pdesign kW	SCOP	Energy efficiency					
2 Room	7	24	-	-	-	2.40	8.40	-	-	-	10.8 (3.5-12.4)	2.97 (0.7-3.34)	3.64	8.9	3.9	A		
	3 Room	9	12	-	-	-	3.00	4.20	-	-	-	11.4 (3.5-13.2)	3.15 (0.7-3.58)	3.62	9.0	3.9	A	
		4 Room	7	12	12	-	-	2.40	2.40	-	-	-	10.2 (3.5-14.0)	2.93 (0.7-3.82)	3.82	9.0	4.0	A+

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
 •The above is the value for connecting with Wall Mounted type.
 •2 or more indoor units should be connected.
 •Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
 •Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
 •The Total ability of connected indoor unit is up to 54000Btu from 27000Btu.

5 Rooms Multi heating

AOYG36LBLA5	Combination of Indoor Unit		HEATING OPERATION														
			Heating Capacity					Input Power (min-max) kW	COP	Seasonal Data							
			Room 1 kW	Room 2 kW	Room 3 kW	Room 4 kW	Room 5 kW			Total Capacity (min-max) kW	Pdesign kW	SCOP	Energy efficiency				
5 Room	7	7	7	7	7	2.40	2.40	2.40	2.40	2.40	12.0 (3.5-14.0)	2.79 (0.7-3.82)	4.30	9.0	4.4	A+	
	5 Room	7	7	9	9	9	2.27	2.27	2.27	2.27	2.27	12.0 (3.5-14.0)	2.79 (0.7-3.82)	4.30	9.0	4.4	A+

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
 •The above is the value for connecting with Wall Mounted type.
 •2 or more indoor units should be connected.
 •Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
 •Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
 •The Total ability of connected indoor unit is up to 54000Btu from 27000Btu.

6 Rooms Multi Combination Table-Cooling

6 Rooms Multi cooling

AOYG45L6A6	Combination of Indoor Unit		COOLING OPERATION										EER	
			Cooling Capacity							Total Capacity (min-max)	Input Power (min-max)			
			Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	kW					
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
2 Room	12	24	-	-	-	-	-	-	-	-	-	10.5 (3.5-11.5)	3.06 (0.8-3.32)	3.43

6 Rooms Multi cooling

AOYG45L6A6	Combination of Indoor Unit		COOLING OPERATION										EER	
			Cooling Capacity							Total Capacity (min-max)	Input Power (min-max)			
			Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	kW					
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
4 Room	12	12	12	12	-	-	-	-	-	-	-	12.5 (3.5-14.0)	3.75 (0.8-4.84)	3.33

Note: *7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
 *The above is the value for connecting with Wall Mounted type.
 *2 or more indoor units should be connected.
 *Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
 *Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
 *The Total ability of connected indoor unit is up to 62000Btu from 34000Btu.

6 Rooms Multi Combination Table-Cooling/Heating

6 Rooms Multi cooling

AOYG45LBLA6	Combination of Indoor Unit		COOLING OPERATION								Input Power (min-max)	EER						
			Cooling Capacity															
			Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Total Capacity (min-max)									
			kW	kW	kW	kW	kW	kW	kW	kW	kW							
7	7	7	7	7	7	7	7	7	7	2.00	2.00	2.00	2.00	2.00	2.00	12.0 (3.5-13.4)	3.32 (0.8-4.46)	3.61
7	7	7	7	7	7	9	9	9	9	2.00	2.00	2.00	2.00	2.50	2.00	12.5 (3.5-14.0)	3.57 (0.8-4.84)	3.50
7	7	7	7	7	12	12	12	12	12	1.86	1.86	1.86	1.86	1.86	1.86	12.5 (3.5-14.0)	3.55 (0.8-4.84)	3.52
7	7	7	7	7	14	14	14	14	14	1.79	1.79	1.79	1.79	1.79	1.79	12.5 (3.5-14.0)	3.54 (0.8-4.84)	3.53
7	7	7	7	7	18	18	18	18	18	1.65	1.65	1.65	1.65	1.65	1.65	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
7	7	7	7	7	24	24	24	24	24	1.48	1.48	1.48	1.48	1.48	1.48	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
7	7	7	7	9	9	9	9	9	9	1.90	1.90	1.90	2.45	2.45	2.45	12.5 (3.5-14.0)	3.56 (0.8-4.84)	3.51
7	7	7	7	9	9	12	12	12	12	1.79	1.79	1.79	2.29	3.05	3.05	12.5 (3.5-14.0)	3.54 (0.8-4.84)	3.53
7	7	7	7	9	9	14	14	14	14	1.72	1.72	1.72	2.20	3.42	3.42	12.5 (3.5-14.0)	3.53 (0.8-4.84)	3.54
7	7	7	7	9	9	18	18	18	18	1.59	1.59	1.59	1.59	4.09	4.09	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
7	7	7	7	9	9	24	24	24	24	1.43	1.43	1.43	1.85	4.93	4.93	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
7	7	7	7	12	12	12	12	12	12	1.68	1.68	1.68	1.68	2.89	2.89	12.5 (3.5-14.0)	3.52 (0.8-4.84)	3.55
7	7	7	7	12	12	14	14	14	14	1.62	1.62	1.62	2.78	3.24	3.24	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
7	7	7	7	12	12	18	18	18	18	1.51	1.51	1.51	2.59	3.87	3.87	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
7	7	7	7	14	14	14	14	14	14	1.56	1.56	1.56	3.13	3.13	3.13	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
7	7	7	7	14	14	18	18	18	18	1.46	1.46	1.46	2.92	3.74	3.74	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
7	7	7	7	9	9	9	9	9	9	1.82	1.82	2.34	2.34	2.34	2.34	12.5 (3.5-14.0)	3.55 (0.8-4.84)	3.52
7	7	7	9	9	12	12	12	12	12	1.72	1.72	2.21	2.21	2.92	2.92	12.5 (3.5-14.0)	3.53 (0.8-4.84)	3.54
7	7	7	9	9	14	14	14	14	14	1.65	1.65	2.12	2.12	3.31	3.31	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
7	7	7	9	9	18	18	18	18	18	1.54	1.54	1.97	1.97	3.94	3.94	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
7	7	7	9	12	12	12	12	12	12	1.62	1.62	2.08	2.08	2.78	2.78	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
7	7	7	9	12	14	14	14	14	14	1.56	1.56	2.01	2.01	3.13	3.13	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
7	7	7	9	12	18	18	18	18	18	1.46	1.46	1.88	2.50	3.74	3.74	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
7	7	7	9	14	14	14	14	14	14	1.51	1.51	1.93	3.02	3.02	3.02	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
7	7	7	12	12	12	12	12	12	12	1.54	1.54	2.63	2.63	2.63	2.63	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
7	7	7	12	12	14	14	14	14	14	1.48	1.48	2.54	2.54	2.54	2.54	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
7	7	7	12	14	14	14	14	14	14	1.43	1.43	2.47	2.87	2.87	2.87	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
7	7	9	9	9	9	9	9	9	9	1.75	1.75	2.25	2.25	2.25	2.25	12.5 (3.5-14.0)	3.53 (0.8-4.84)	3.54
7	7	9	9	9	12	12	12	12	12	1.65	1.65	2.12	2.12	2.84	2.84	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
7	7	9	9	9	14	14	14	14	14	1.59	1.59	2.05	2.05	3.17	3.17	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
7	7	9	9	18	18	18	18	18	18	1.48	1.48	1.91	1.91	3.81	3.81	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
7	7	9	9	12	12	12	12	12	12	1.56	1.56	2.01	2.01	2.68	2.68	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
7	7	9	9	12	14	14	14	14	14	1.51	1.51	1.94	2.59	2.59	2.59	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
7	7	9	9	12	18	18	18	18	18	1.41	1.41	1.81	2.42	3.64	3.64	12.5 (3.5-14.0)	3.46 (0.8-4.84)	3.61
7	7	9	9	14	14	14	14	14	14	1.46	1.46	1.88	2.91	2.91	2.91	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
7	7	9	12	12	12	12	12	12	12	1.48	1.48	1.92	2.54	2.54	2.54	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
7	7	9	12	12	14	14	14	14	14	1.43	1.43	1.85	2.46	2.87	2.87	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
7	7	12	12	12	12	12	12	12	12	1.41	1.41	2.42	2.42	2.42	2.42	12.5 (3.5-14.0)	3.46 (0.8-4.84)	3.61
7	9	9	9	9	9	9	9	9	9	1.70	1.70	2.16	2.16	2.16	2.16	12.5 (3.5-14.0)	3.52 (0.8-4.84)	3.55
7	9	9	9	9	12	12	12	12	12	1.59	1.59	2.05	2.05	2.71	2.71	12.5 (3.5-14.0)	3.50 (0.8-4.84)	3.57
7	9	9	9	9	14	14	14	14	14	1.54	1.54	1.97	1.97	3.08	3.08	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
7	9	9	9	12	12	15.0	15.0	15.0	15.0	1.94	1.94	2.59	2.59	2.59	2.59	12.5 (3.5-14.0)	3.48 (0.8-4.84)	3.59
7	9	9	9	12	14	14	14	14	14	1.66	1.66	1.88	2.50	2.90	2.90	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
7	9	9	12	12	14	14	14	14	14	1.44	1.44	1.84	2.46	2.46	2.46	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60
9	9	9	9	9	9	9	9	9	9	2.08	2.08	2.08	2.08	2.08	2.08	12.5 (3.5-14.0)	3.51 (0.8-4.84)	3.56
9	9	9	9	9	12	12	12	12	12	1.97	1.97	1.97	1.97	2.65	2.65	12.5 (3.5-14.0)	3.49 (0.8-4.84)	3.58
9	9	9	9	12	12	12	12	12	12	1.88	1.88	1.88	1.88	2.49	2.49	12.5 (3.5-14.0)	3.47 (0.8-4.84)	3.60

Note: *7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models

- The above is the value for connecting with Wall Mounted type.
- 2 or more indoor units should be connected.
- Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected indoor unit is up to 62000Btu from 34000Btu.

6 Rooms Multi heating

AOYG45LBLA6	Combination of Indoor Unit		HEATING OPERATION								Input Power (min-max)	COP						
			Heating Capacity															
			Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Total Capacity (min-max)									
			kW	kW	kW	kW	kW	kW	kW	kW	kW							
12	24	-	-	-	-	-	-	-	-	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	24	-	-	-	-	-	-	-	2.30	2.30	7.90	-	-	-	12.5 (3.5-14.0)	3.43 (0.7-3.76)	3.64
7	9	18	-	-	-	-	-	-	-	2.35	3.02	6.03	-	-	-	11.4 (3.5-12.4)	2.98 (0.7-3.33)	3.83
7	9	24	-	-	-	-	-	-	-	2.24	2.88	7.68	-	-	-	12.8 (3.5-14.5)	3.54 (0.7-3.98)	3.62
7	12	18	-	-	-	-	-	-	-	2.33	3.99	5.98	-	-	-	12.3 (3.5-13.5)	3.35 (0.7-3.65)	3.67
7	12	24	-	-	-	-	-	-	-	2.17	3.71	7.42	-	-	-	13.3 (3.5-15.6)	3.69 (0.7-4.30)	3.60
7	14	14	-	-	-	-	-	-	-	2.40	4.80	4.80	-	-	-	12.0 (3.5-12.7)	3.15 (0.7-3.44)	3.81
7	14	18	-	-	-	-	-	-	-	2.28	4.56	5.86	-	-	-	12.7 (3.5-14.2)	3.49 (0.7-3.87)	3.64
7	14	24	-	-	-	-	-	-	-	2.10	4.20	7.20	-	-	-	13.5 (3.5-16.0)	3.75 (0.7-4.41)	3.60
7	18	18	-	-	-	-	-	-	-	2.16	5.57	5.57	-	-	-	13.3 (3.5-15.6)	3.60 (0.7-4.30)	3.60
7	18	24	-	-	-	-	-	-	-	1.93	4.96	6.61	-	-	-	13.5 (3.5-16.0)	3.74 (0.7-4.41)	3.61
7	24	24	-	-	-	-	-	-	-	1.72	5.89	5.89	-	-	-	13.5 (3.5-16.0)	3.72 (0.7-4.41)	3.63
9	9	18	-	-	-	-	-	-	-	3.05	3.05	6.10	-	-	-	12.2 (3.5-13.1)	3.28 (0.7-3.54)	3.72
9	9	24	-	-	-	-	-	-	-	2.83	2.83	7.54	-	-	-	13.2 (3.5-15.3)	3.64 (0.7-4.20)	3.63
9	12	14	-	-	-	-	-	-	-	3.09	4.11	4.80	-	-	-	12.0 (3.5-12.7)	3.15 (0.7-3.44)	3.81
9	12	18	-	-	-	-	-	-	-	2.93	3.91	5.86	-	-	-	12.7 (3.5-14.2)	3.49 (0.7-3.87)	3.64
9	12	24	-	-	-	-	-	-	-	2.70	3.60	7.20	-	-	-	13.5 (3.5-16.0)	3.75 (0.7-4.41)	3.60
9	14	14	-	-	-	-	-	-	-	3.00	4.65	4.65	-	-	-	12.3 (3.5-13.5)	3.35 (0.7-3.65)	3.67
9	14	18	-	-	-	-	-	-	-	2.85	4.44	5.71	-	-				



6 Rooms Multi Combination Table-Heating

6 Rooms Multi heating

AOYG45LBLA6	Combination of Indoor Unit		HEATING OPERATION							Input Power (min-max)	COP
			Heating Capacity								
			Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Total Capacity (min-max)		
4 Room	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	
		-	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	
		-	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	
		-	2.89	2.89	3.38	3.38	-	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	
		-	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	
		-	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	
		-	2.40	2.40	2.40	2.40	2.40	12.0 (3.5-12.7)	2.82 (0.7-3.44)	4.26	
	7 7 7 9	-	2.33	2.33	2.33	2.98	-	12.3 (3.5-13.5)	3.03 (0.7-3.65)	4.06	
		-	2.24	2.24	2.24	2.24	3.84	12.8 (3.5-14.5)	3.29 (0.7-3.98)	3.89	
	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	
		-	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 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	
		-	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	
		-	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	
		-	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 14	-	2.01	2.01	2.01	3.60	4.02	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.88	
		-	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	
		-	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 14	-	1.78	1.78	1.78	3.57	4.59	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89		
	-	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		
	-	2.22	2.22	2.85	2.85	2.85	13.0 (3.5-14.9)	3.34 (0.7-4.09)	3.89		
7 7 9 9 12	-	2.15	2.15	2.76	3.68	-	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.87		
	-	2.05	2.05	2.64	4.12	-	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.87		
7 7 9 9 18	-	1.89	1.89	2.43	4.86	-	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88		
	-	1.69	1.69	2.17	5.78	-	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90		
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		
	-	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 9 12 14	-	1.78	1.78	2.29	3.06	4.59	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89		
	-	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 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		
	-	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 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		
	-	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 9 18 18	-	1.89	1.89	3.24	3.24	3.24	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88		
	-	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 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		
	-	1.52	1.52	2.61	5.24	-	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92		
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		
	-	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 12 14 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		
	-	1.68	1.68	3.38	3.38	3.38	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.90		
7 7 14 14 18	-	1.58	1.58	3.15	4.04	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91		
	-	2.18	2.78	2.78	2.78	2.78	13.3 (3.5-15.6)	3.44 (0.7-4.30)	3.87		
7 9 9 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		
	-	1.97	2.53	2.53	3.94	-	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88		
7 9 9 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		
	-	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 9 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		
	-	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 9 9 12 18	-	1.72	2.21	2.21	2.95	4.41	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90		
	-	1.55	1.99	2.66	5.31	-	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92		
7 9 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		
	-	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 9 9 18 18	-	1.56	1.99	3.98	3.98	-	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92		
	-	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 9 12 12 14	-	1.75	2.25	3.00	3.50	-	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90		
	-	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 9 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		
	-	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 9 14 14 14	-	1.63	2.09	3.26	3.26	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91		
	-	1.52	1.96	3.05	3.92	-	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92		
7 12 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		
	-	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 12 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		
	-	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 12 14 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		
	-	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		
	-	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		
	-	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		
	-	2.29	2.29	2.29	3.06	3.57	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89		
9 9 9 12 18	-	2.13	2.13	2.13	2.84	4.27	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91		
	-	2.21	2.21	2.21	3.44	3.44	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90		
9 9 9 14 18	-	2.06	2.06	2.06	3.20	4.12	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91		
	-	2.25	2.25	3.00	3.00	-	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90		
9 9 12 12 14	-	2.17	2.17	2.89	3.38	-	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90		
	-	2.03	2.70	2.70	4.04	-	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91		
9 9 12 14 14	-	2.09	2.09	2.80	3.26	3.26	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91		
	-	1.96	1.96	2.61	3.05	3.92	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92		
9 9 14 14 14	-	2.03	2.03	3.15	3.15	3.15	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91		
	-	2.14	2.84	2.84	2.84	2.84	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91		
9 12 12 14 14	-	2.06	2.75	2.75	2.75	3.19	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91		
	-	1.98	2.66	2.66	3.10	3.10	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92		
12 12 12 12 12	-	2.70	2.70	2.70	2.70	2.70	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91		
	-	2.61	2.61	2.61	3.06	-	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92		

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
 •The above is the value for connecting with Wall Mounted type.
 •2 or more indoor units should be connected.
 •Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
 •Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
 •The Total ability of connected indoor unit is up to 54000Btu from 27000Btu.

6 Rooms Multi heating

AOYG45LBLA6	Combination of Indoor Unit		HEATING OPERATION							Input Power (min-max)	COP
			Heating Capacity								
			Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Total Capacity (min-max)		
6 Room	7 7 7 7 7 7	-	2.20	2.20	2.20	2.20	2.20	13.2 (3.5-15.3)	3.28 (0.7-4.20)	4.02	
		-	2.15	2.15	2.15	2.15	2.15	13.5 (3.5-16.0)	3.37 (0.7-4.4)	4.00	
		-	2.01	2.01	2.01	2.01	2.01	13.5 (3.5-16.0)	3.37 (0.7-4.4)	4.00	
	7 7 7 7 7 12	-	1.93	1.93	1.93	1.93	1.93	13.5 (3.5-16.0)	3.37 (0.7-4.4)	4.00	
		-	1.78	1.78	1.78	1.78	1.78	13.5 (3.5-16.0)	3.37 (0.7-4.4)	4.00	
		-	1.60	1.60	1.60	1.60	1.60	13.5 (3.5-16.0)	3.37 (0.7-4.4)	4.00	
	7 7 7 7 9 9	-	2.05	2.05	2.05	2.05	2.05	13.5 (3.5-16.0)	3.37 (0.7-4.4)	4.00	
		-	1.93								

8 Rooms Multi Combination Table-Cooling

8 Rooms Multi cooling

AOYG45LBT8	Combination of Indoor Unit		COOLING OPERATION										Input power											
			Cooling Capacity																					
			Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8	Total													
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW												
2 Room	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	4.63	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	4.94	5.90	-	-	-	-	-	-	15.37	5.90
	14	18	18	-	-	-	-	-	-	-	-	-	-	4.10	5.27	5.27	-	-	-	-	-	-	14.64	5.50
	14	14	24	-	-	-	-	-	-	-	-	-	-	4.10	4.10	7.03	-	-	-	-	-	-	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
	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	3.52	7.03	-	-	-	-	-	-	12.60	4.41
	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	14	-	-	-	-	-	-	-	-	-	3.30	3.84	3.84	3.84	-	-	-	-	-	15.38	5.90	
12	12	14	14	-	-	-	-	-	-	-	-	-	3.52	4.10	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	-	-	-	-	-	15.54	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	-	-	-	-	-	-	-	-	-	2.34	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	18	-	-	-	-	-	-	-	-	-	2.05	2.64	2.64	2.64	-	-	-	-	-	14.66	5.50	
9	9	14	18	-	-	-	-	-	-	-	-	-	1.91	2.30	2.30	4.59	-	-	-	-	-	15.57	5.88	
9	9	9	14	18	-	-	-	-	-	-	-	-	1.91	2.46	2.46	3.82	-	-	-	-	-	15.54	5.90	
9	9	9	14	14	-	-	-	-	-	-	-	-	1.96	2.53	2.53	3.93	-	-	-	-	-	14.87	5.90	
9	9	9	12	24	-	-	-	-	-	-	-	-	1.79	2.30	2.30	3.07	-	-	-	-	-	15.57	5.88	
9	9	9	12	18	-	-	-	-	-	-	-	-	1.93	2.49	2.49	3.32	-	-	-	-	-	15.21	5.90	
7	9	9	12	14	-	-	-	-	-	-	-	-	2.05	2.64	2.64	3.52	-	-	-	-	-	14.95	5.65	
7	9	9	12	12	-	-	-	-	-	-	-	-	2.05	2.64	2.64	3.52	-	-	-	-	-	14.37	5.35	
7	9	9	12	14	-	-	-	-	-	-	-	-	1.83	2.36	2.36	3.26	-	-	-	-	-	15.21	5.90	
7	9	9	9	18	-	-	-	-	-	-	-	-	2.05	2.64	2.64	2.64	-	-	-	-	-	15.05	5.90	
7	9	9	9	14	-	-	-	-	-	-	-	-	2.05	2.64	2.64	2.64	-	-	-	-	-	15.24	5.79	
7	9	9	9	14	-	-	-	-	-	-	-	-	2.05	2.64	2.64	2.64	-	-	-	-	-	14.07	5.20	
7	9	9	9	12	-	-	-	-	-	-	-	-	2.05	2.64	2.64	2.64	-	-	-	-	-	13.49	4.89	
7	9	9	9	9	14	-	-	-	-	-	-	-	2.05	2.64	2.64	2.64	-	-	-	-	-	15.45	5.90	
7	7	14	14	18	-	-	-	-	-	-	-	-	1.80	1.80	3.60	3.60	-	-	-	-	-	12.61	4.41	
7	7	14	14	14	-	-	-	-	-	-	-	-	1.80	1.80	3.60	3.60	-	-	-	-	-	15.45	5.89	
7	7	14	14	14	-	-	-	-	-	-	-	-	1.92	1.92	3.84	3.84	-	-	-	-	-	15.37	5.90	
7	7	12	18	18	-	-	-	-	-	-	-	-	1.77	1.77	3.04	4.55	-	-	-	-	-	15.68	5.87	
7	7	12	14	18	-	-	-	-	-	-	-	-	1.84	1.84	3.15	3.67	-	-	-	-	-	15.21	5.90	
7	7	12	14	14	-	-	-	-	-	-	-	-	1.95	1.95	3.35	3.90	-	-	-	-	-	15.04	5.90	
7	7	12	12	24	-	-	-	-	-	-	-	-	1.77	1.77	3.04	6.07	-	-	-	-	-	15.69	5.87	
7	7	12	12	14	-	-	-	-	-	-	-	-	2.05	2.05	3.52	3.52								



8 Rooms Multi Combination Table-Heating

8 Rooms Multi heating

ADYG45LBT8	Combination of Indoor Unit	HEATING OPERATION											Total	Input power
		Heating Capacity												
		Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8	Total				
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW		
4 Room	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 9 14	2.37	2.37	2.99	4.80	-	-	-	-	15.02	4.60			
	7 7 7 18	2.37	2.37	3.96	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 12 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	4.35	-	-	-	17.95	5.87				
7 7 14 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 12 14 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 12 12 14	2.86	2.86	3.78	4.58	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 14 18	2.71	2.71	4.36	5.32	5.32	-	-	-	17.82	5.98				
7 7 9 14 14	2.86	2.86	2.86	4.59	4.59	-	-	-	17.77	5.56				
7 7 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	2.97	3.93	3.93	-	-	-	16.78	5.16				
7 7 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 12 14 14 14	2.10	3.51	4.25	4.25	4.25	-	-	-	18.37	5.98				
7 12 12 14 14	2.14	3.57	3.57	4.33	4.33	-	-	-	17.95	5.98				
7 12 12 12 18	2.13	3.56	3.56	3.56	5.26	-	-	-	18.06	5.98				
7 12 12 12 14	2.25	3.76	3.76	3.76	4.56	-	-	-	18.10	5.87				
7 12 12 12 12	3.81	3.81	3.81	3.81	4.52	-	-	-	17.52	5.56				
7 9 14 14 18	2.09	2.64	4.24	4.24	5.18	-	-	-	18.40	5.98				
7 9 14 14 14	2.14	4.34	4.34	4.34	4.34	-	-	-	17.88	5.98				
7 9 12 14 18	2.13	2.69	3.57	4.32	5.28	-	-	-	17.99	5.98				
7 9 12 14 14	2.26	2.85	3.77	4.57	4.57	-	-	-	18.01	5.70				
7 9 12 12 18	2.25	2.84	3.76	3.76	5.56	-	-	-	18.16	5.98				
7 9 12 12 14	2.28	3.82	3.82	4.63	4.63	-	-	-	17.43	5.43				
7 9 12 12 12	2.35	2.96	3.92	3.92	3.92	-	-	-	17.09	5.23				
7 9 9 18 18	2.13	2.69	2.69	5.27	5.27	-	-	-	18.04	5.98				
7 9 9 14 18	2.25	2.84	3.66	3.66	5.87	-	-	-	18.07	5.87				
7 9 9 14 14	2.29	2.89	2.89	4.64	4.64	-	-	-	17.34	5.32				
7 9 9 12 24	2.12	2.68	2.68	3.55	7.08	-	-	-	18.11	5.98				
7 9 9 12 18	2.28	2.88	2.88	3.81	5.64	-	-	-	17.49	5.56				
7 9 9 12 14	2.35	2.97	2.97	3.93	4.76	-	-	-	16.97	5.16				
7 9 9 12 12	2.37	2.98	2.98	3.95	3.95	-	-	-	16.24	5.08				
7 9 9 9 24	2.17	2.74	2.74	2.74	7.24	-	-	-	17.63	5.98				
7 9 9 9 18	2.35	2.96	2.96	2.96	5.81	-	-	-	17.05	5.23				
7 9 9 9 14	2.37	2.99	2.99	2.99	4.79	-	-	-	16.12	5.07				
7 9 9 9 12	2.37	2.99	2.99	2.99	2.99	-	-	-	15.30	4.75				
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	3.53	5.23	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	3.80	4.61	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	4.75	-	-	-	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	4.91	-	-	-	15.85	4.91				
7 7 9 9 24	2.27	2.27	2.86	3.86	3.86	-	-	-	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 24	2.35	2.35	2.35	7.83	7.83	-	-	-	17.22	5.23				
7 7 7 7 18	2.37	2.37	2.37	2.37	5.86	-	-	-	15.34	4.75				
7 7 7 7 14	2.37	2.37	2.37	2.37	4.80	-	-	-	14.28	4.21				
7 7 7 7 12	2.37	2.37	2.37	2.37	3.96	-	-	-	13.44	4.00				
9 9 9 9 12 14	2.65	2.65	2.65	2.65	3.51	4.25	-	-	18.36	5.98				
9 9 9 9 12 12	2.70	2.70	2.70	2.70	3.57	3.57	-	-	17.94	5.98				
9 9 9 9 9 14	2.71	2.71	2.71	2.71	2.71	4.34	-	-	17.88	5.98				
9 9 9 9 9 12	2.85	2.85	2.85	2.85	2.85	3.77	-	-	18.00	5.87				
9 9 9 9 9 9	2.89	2.89	2.89	2.89	2.89	2.89	-	-	17.33	5.43				
7 9 9 12 12	2.68	2.68	2.68	3.55	3.55	3.55	-	-	18.12	5.98				
7 9 9 9 12 14	2.13	2.69	2.69	2.69	3.56	4.31	-	-	18.05	5.98				
7 9 9 9 12 12	2.17	2.74	2.74	2.74	3.62	3.62	-	-	17.63	5.98				

Note: • Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature)
 • Pipe Length: 5 m (Outdoor unit to Branch box), 3 m (Branch box to Indoor unit)
 • Height difference: 0 m (Outdoor unit to Indoor unit)
 • The values in this table should be used only as a guide. These values are calculated at standard conditions.
 To fix your selection of models, select them according to "Model Selection" in the D&T manual.

8 Rooms Multi heating

ADYG45LBT8	Combination of Indoor Unit	HEATING OPERATION											Total	Input power
		Heating Capacity												
		Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8	Total				
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	kW		
4 Room	7 9 9 9 9 18	2.12	2.68	2.68	2.68	2.68	2.68	2.68	2.68	5.25	-	-	18.10	5.98
	7 9 9 9 9 12	2.28	2.87	2.87	2.87	2.87	2.87	2.87	2.87	3.81	-	-	17.57	5.56
	7 9 9 9 9 9	2.35	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96	-	-	17.16	5.23
	7 7 12 12 12 12	2.11	2.11	3.52	3.52	3.52	3.52	3.52	3.52	-	-	-	18.29	5.98

Feature Explanation & Summary

Type	Series	Wall Mounted			Cassette			Duct						Floor	Floor/ Ceiling	Ceiling		
		Designer Range	Standard Range	Designer Range	Standard Range	Compact 4-way Flow Grid type	Compact 4-way Flow	4-way Flow	Mini (With drain pump)		Slim (With drain pump)		Medium Static Pressure					
Model No.		ASYG 07/09/12/14 KGTB	ASYG 07/09/12/14 KMTB	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCE	ASYG 18LFCA, ASYG 24LFCC	AUXG 07/09/12/14/18/22/24 KVLA	AUYG 07/09/12/14/18 LVLB, AUYG 22/24LVLA	AUYG 30/36LRLE, AUYG 36/45LRLA	ARXG 07/09/12/14 KSLAP	ARYG 07/09/12/14/18 LSLAP	ARXG 07/09/12/14/18 KLLAP	ARYG 07/09/12/14/18 LLTB	ARXG 22/24KMLA	ARYG 22/24/36/45 LMLA, ARYG 30/36LMLE	AGYG 09/12/14 LVCA	ABYG 14/18LVTB, ABYG 22/24LVTA	ABYG 30/36LRTE, ABYG 36/45LRTA
Refrigerant																		
Energy Saving Function	Save human sensor	Human sensor detects the movement of people in the room and judges whether the energy saving operation.	●															
	Economy mode	Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Room temperature set point limitation	The minimum and maximum temperature range can be set giving further energy saving while considering the comfort of the occupants.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Set temperature auto return	The setting temperature automatically returns to the previously set temperature.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Comfortable Function	Power diffuser	An additional louver that opens based on monitoring sensors to quickly enhance immediate comfort needs	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○
	Powerful mode	Operation at maximum air flow and compressor speed, and quickly makes the room comfortable.	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○
	10°C HEAT operation	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.	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○
	Low noise mode	Sound noise level of outdoor unit can be selected.	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○
	Auto-changeover	The unit automatically switches between heating and cooling modes based on your temperature setting and the room temperature.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Up/down swing flaps	The up/down flaps automatically swing up and down.	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○
	Double swing automatic	Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.					●										●	●
	Automatic fan speed	The micro-computer automatically adjusts the airflow effectively to follow the changes of room temperature.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Auto restart	In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once power supply is restored.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Connectable fresh air duct	Outside air can be introduced by attaching Locally purchased duct to fresh air knockout and optional part.							○	●				●	●			●
	Fresh air intake	Fresh air can be taken in by a fan which can be connected using external control unit.							○	○			○	○	○	○		
	Connectable distributing duct	Systems are capable of attaching Locally purchased branch ducts distributing the airflow.												●	●			
Convenient Function	Auto off timer	Automatically stops operation when a fixed time has elapsed from the start of operation.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Sleep timer	The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○
	Program timer	This digital timer allows selection of one of four options: ON, OFF, ON > OFF or OFF > ON.	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○
	Weekly timer	Different ON-OFF times can be set for each day.	●	○	●					●	●							
	Weekly + setback timer	Weekly + Setback timer can set temperature for two times spans and for each day of the week.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Filter sign	Indicates the filter cleaning period by lamp.	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	External error output		○	○	○	○	○				○	○						
Clean Function	External ON/OFF input		○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Wireless LAN control	The exclusive Wireless LAN adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
	Ion deodorization filter	The filter deodorizes by powerfully decomposing absorbed odors using the oxidizing and reducing effects of ions generated by the ultra-fine-particle ceramic.	○	○	●	●	●									●		
	Apple-catechin filter	The Apple-catechin filter uses static electricity to clean fine particles and dust in the air.	○	○	●	●	●									●		
Installation	Long life filter												○	○	●			
	Washable panel	Since the front panel is easy to remove, maintenance is also easy.				●	●											
	Drain pump as standard						●	●	●	●	●	●	○	○			○	
	Blue fin					● (30)			● (45/54)					● (45)			● (45)	

○ : Optional function

Light Commercial & Commercial, Residential

VRF

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VRF Outdoor Units



AIRSTAGE™ J-Series Heat Pump for Small Capacity Type

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AIRSTAGE™ V-Series Heat Recovery Modular Type

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Heat Pump Modular Type

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VRF Indoor Units

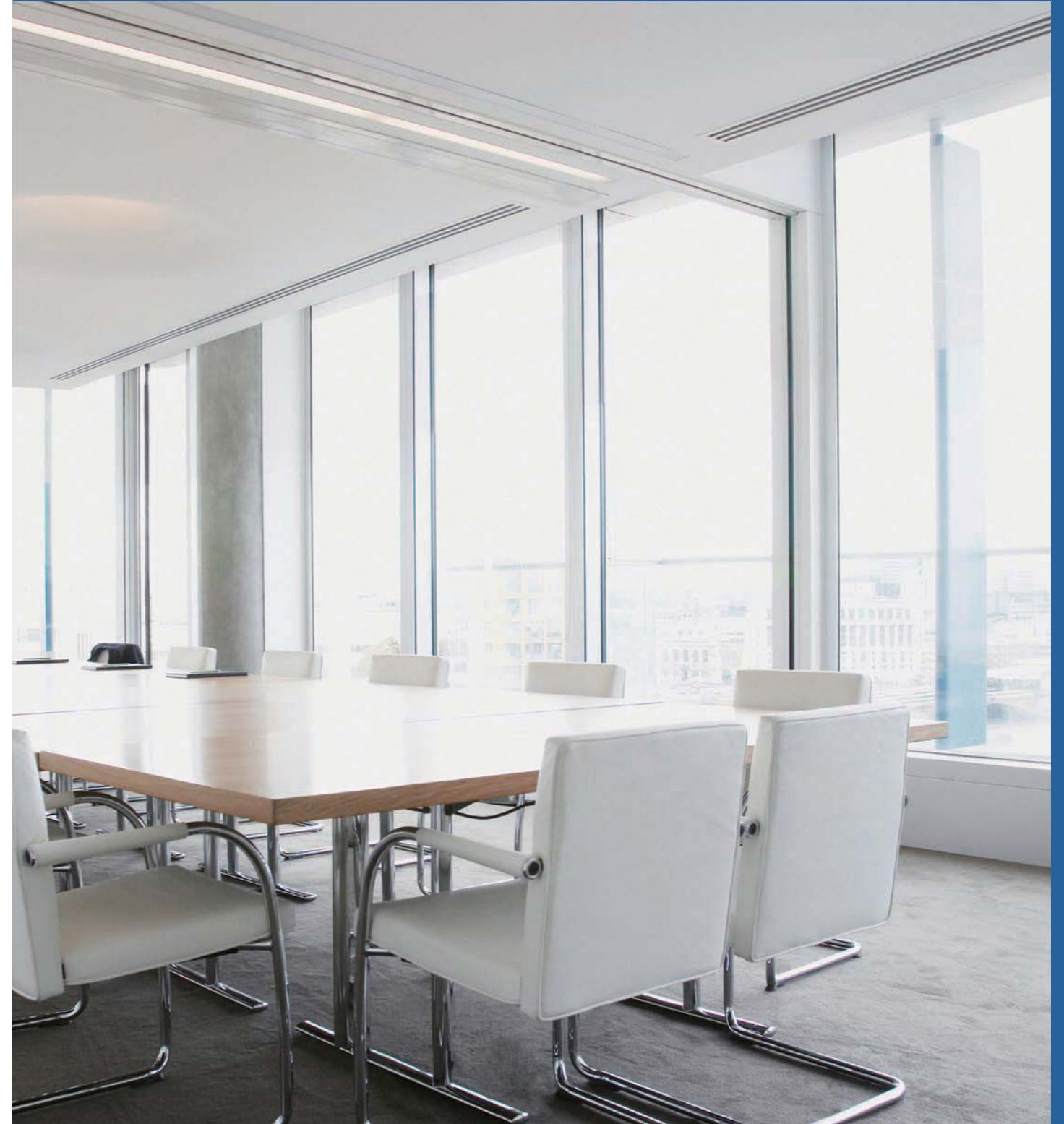
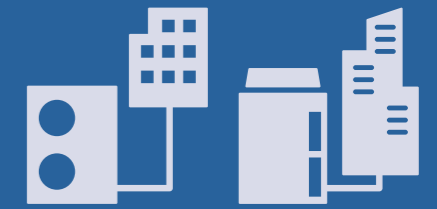
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FUJITSU GENERAL (Euro) GmbH participates in the ECP programme for AIR CONDITIONERS. Check ongoing validity of certificate: www.eurovent-certification.com
* Models so marked are not ECC certified.

AIRSTAGE™ VRF Systems can be designed to create an air conditioning solution to suit most buildings requirements.

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



AIRSTAGE™ J-Series Overview

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



Max. 18 HP Heat Pump *AIRSTAGE™ J-III L*

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

*: 18 HP model

Slim Outdoor Unit

Although this is a 14/16/18 HP model that can handle slightly larger properties, it has a slim depth of 480 mm. This model can be introduced and installed even in limited spaces.

Small room application

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

Top Class Low Operating Sound

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



8-12 HP models

New 18 HP model & 14/16 models

Max. 6 HP Heat Pump *AIRSTAGE™ J-III*

J-III improves the system with up to 13 indoor units. This model is suitable for small buildings that bring together small stores.

High Energy Efficiency

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

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

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



Max. 6 HP Heat Pump, Compact Design *AIRSTAGE™ J-IIS*

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

Space saving and low sound level design

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

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

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



AIRSTAGE™ V-Series Overview

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



outdoor temperature
Up to 52°C
at Cooling

Max. 48 HP Heat Recovery AIRSTAGE™ VR-II

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

Simultaneous cooling and heating operation using 1 refrigerant system

Cooling and heating can be freely selected for each indoor unit to provide simultaneous cooling and heating in rooms with large temperature differences.

Annual cooling operation

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

Handles changes in the temperature difference

The operation mode can be freely changed when there are large temperature differences during the day, such as between seasons.

Max. 54 HP Heat Pump AIRSTAGE™ V-III

Smart and cutting-edge design.
Extensive lineup from 8 HP to 54 HP in 2 HP increment.
Connectable indoor unit capacity ratio up to 150%

Excellent energy saving

Heat pump inverter type realizes the highly energy saving air conditioning for individual cooling and heating operation by all inverter technology for seasonal efficiency.

High design flexibility for various building air conditioning

High design flexibly meets the various needs of high-rise building air conditioning such as outdoor unit roof top concentrated installation and each floor installation by large capacity combination, sufficient connection capacity, and high static pressure design.

Easy installation and maintenance

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

Max. 54 HP Heat Pump AIRSTAGE™ V-III

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

High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature

Powerful cooling capacity design

Keeping high cooling power at even high ambient temperature

Anti-corrosion treatment design

All metallic and PCB components are protected against corrosion



Energy saving technology that boosted operation efficiency



1 Powerful large propeller fan

By using CFD^{*1} technology, a newly designed fan achieves high performance and low noise operation.

*1. CFD = Computational Fluid Dynamics



2 3 phase DC fan motor

Efficiency is substantially improved by high efficient motor with sophisticated driver control. In addition, low noise is realized by DC fan motor.



3 Sine-wave DC inverter control

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



4 4-face heat exchanger

Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.



5 Subcool heat exchanger

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



6 High efficient and large capacity DC inverter compressor

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



7 Front intake port (Corner cut air inlet structure)

In multiple outdoor unit installations, the unique front intake design improves airflow into the Heat Exchanger.



VRF Outdoor Units Lineup

Capacity (kW) HP	12.1 4	14.0 5	15.1-15.5 6	22.4 8	28.0 10	33.5 12	40.0 14	45.0 16	50.4 18	55.9 20	61.5 22	67.0 24	73.5 26	78.5 28	85.0 30	90.0 32	95.0 34	100.5 36	107.0 38	112.0 40	118.5 42	123.5 44	130.0 46	135.0 48	140.0 50	145.0 52	150.0 54	
J-III Series																												
				AJY072 LELAH	AJY090 LELAH	AJY108 LELAH	AJY126 LELAH	AJY144 LELAH	AJY162 LELAH																			
J-III Series																												
	AJY040 LBLAH, AJY040 LELAH	AJY040 LBLAH, AJY040 LELAH	AJY054 LBLAH, AJY054 LELAH																									
J-IIS Series																												
	AJY040 LCLAH	AJY045 LCLAH	AJY054 LCLAH																									
VR-II Series Heat Recovery	Space Saving																											
	Set Model			AJYA72 GALH	AJYA90 GALH	AJY108 GALH	AJY126 GALH	AJY144 GALH	AJY162 GALH	AJY180 GALH	AJY198 GALH	AJY216 GALH	AJY234 GALH	AJY252 GALH	AJY270 GALH	AJY288 GALH	AJY306 GALH	AJY324 GALH	AJY342 GALH	AJY360 GALH	AJY378 GALH	AJY396 GALH	AJY414 GALH	AJY432 GALH				
VR-III Series Heat Pump	Space Saving																											
	Set Model			AJY072 LALBH	AJY090 LALBH	AJY108 LALBH	AJY126 LALBH	AJY144 LALBH	AJY162 LALBH	AJY180 LALBH	AJY198 LALBH	AJY216 LALBH	AJY234 LALBH	AJY252 LALBH	AJY270 LALBH	AJY288 LALBH	AJY306 LALBH	AJY324 LALBH	AJY342 LALBH	AJY360 LALBH	AJY378 LALBH	AJY396 LALBH	AJY414 LALBH	AJY432 LALBH	AJY450 LALBH	AJY468 LALBH	AJY486 LALBH	
V-III Tropical Series Heat Pump	Space Saving																											
	Set Model			AJY072 LNLBH	AJY090 LNLBH	AJY108 LNLBH	AJY126 LNLBH	AJY144 LNLBH	AJY162 LNLBH	AJY180 LNLBH	AJY198 LNLBH	AJY216 LNLBH	AJY234 LNLBH	AJY252 LNLBH	AJY270 LNLBH	AJY288 LNLBH	AJY306 LNLBH	AJY324 LNLBH	AJY342 LNLBH	AJY360 LNLBH	AJY378 LNLBH	AJY396 LNLBH	AJY414 LNLBH	AJY432 LNLBH	AJY450 LNLBH	AJY468 LNLBH	AJY486 LNLBH	

VRF

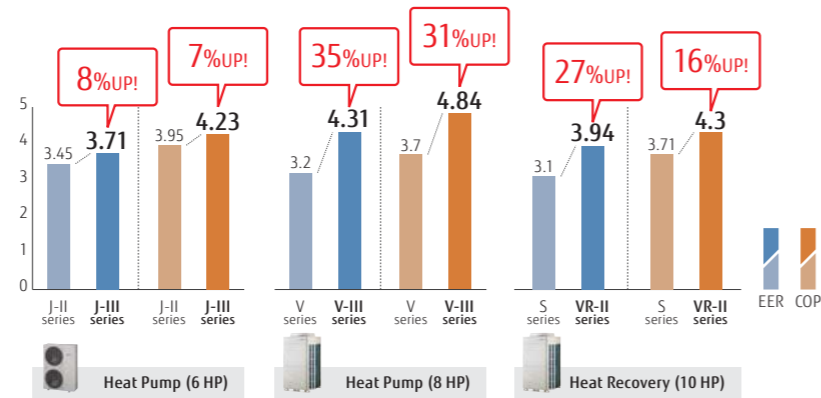
Feature

High Efficiency

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

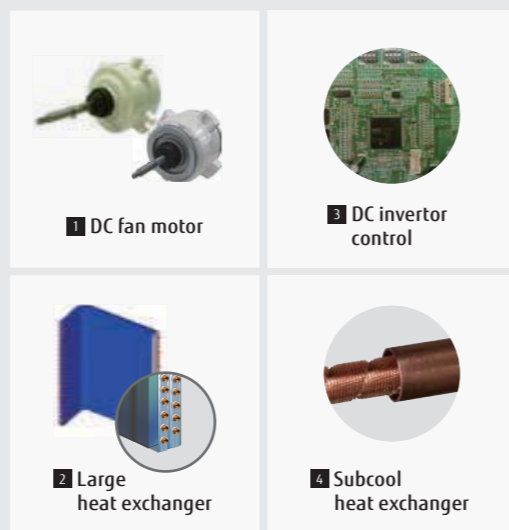
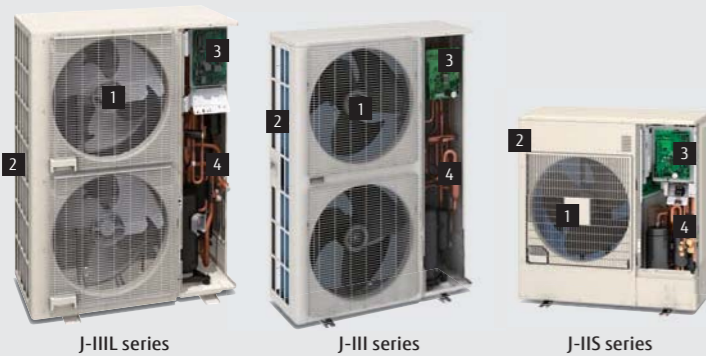


DC twin rotary compressor



ALL DC High efficiency design with top class SEER/SCOP

All VRF series including J-III series have DC technology to realize the high efficiency operation. This enhances the durability and reliability of VRF series.



Energy Saving Function

Economy operation

Economy operation can be set by remote controller. The temperature setting is offset automatically over a certain period of time.

Room temperature set point limitation

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

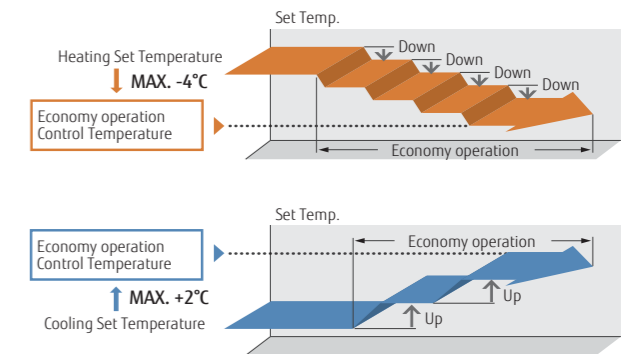
Auto-off timer

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

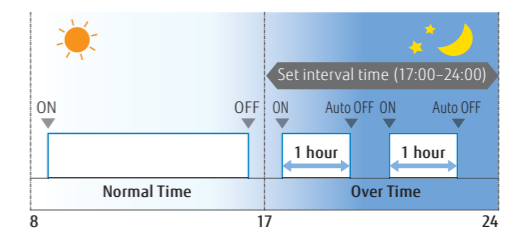
Capacity save operation

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

Room temperature set point limitation



Auto-off timer



More Comfort

Precision refrigerant flow control

Precise and smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows high precision comfortable temperature control of $\pm 0.5^{\circ}\text{C}$.

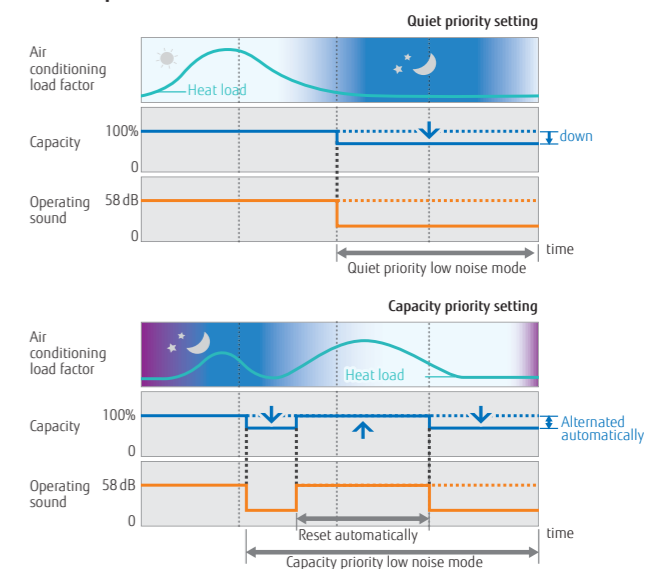
Auto changeover function

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

Quiet operation

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

Quiet operation



Design Flexibility

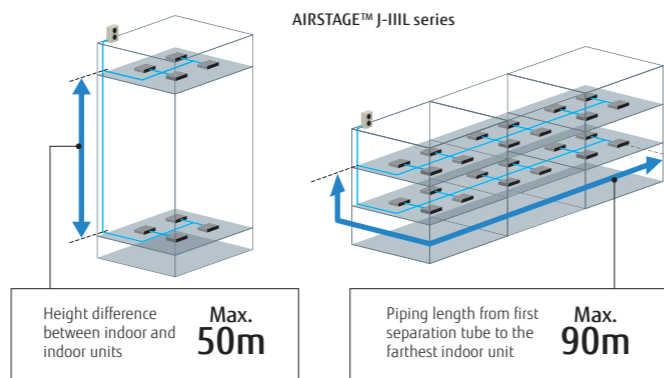
Top class Compact design

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



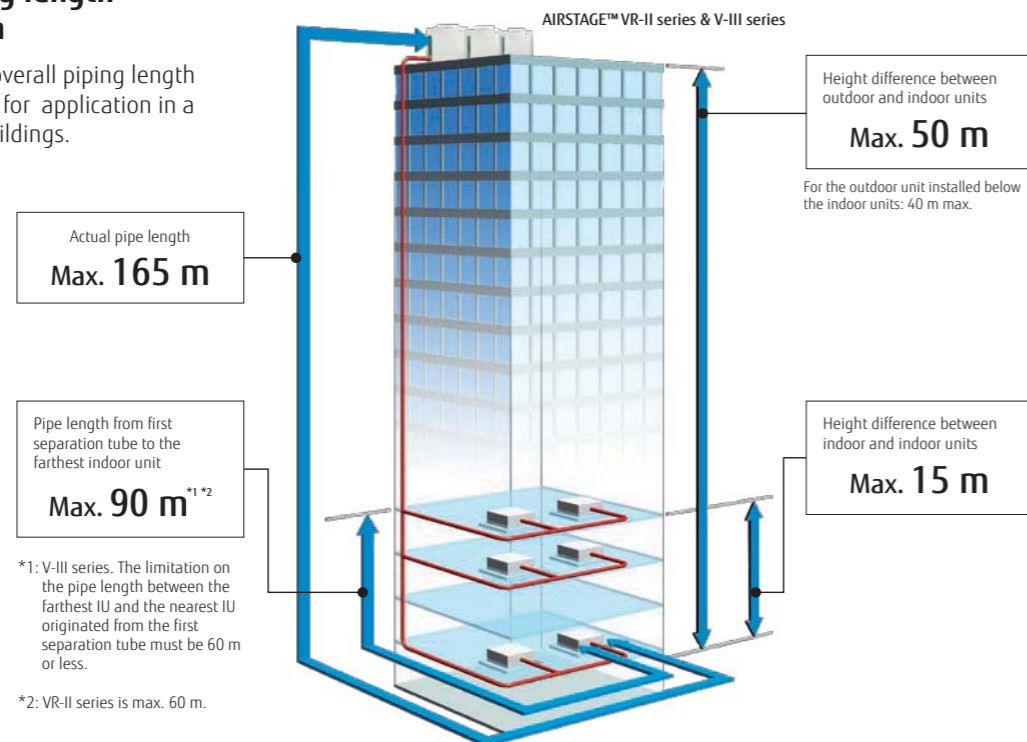
Long piping design

Piping design suitable for long, narrow office buildings with a difference in height and low-rise shops with depth (AIRSTAGE™ J-III L series)



Overall piping length Max. 1,000 m

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



*1: V-III series. The limitation on the pipe length between the farthest IU and the nearest IU originated from the first separation tube must be 60 m or less.

*2: VR-II series is max. 60 m.

High capacity connection

Series	Connectable indoor unit capacity range	Connectable indoor unit number
AIRSTAGE™ J-III L series 14/16/18 HP Heat Pump type	50% to 150% ^{*3}	up to 42 ^{*5}
AIRSTAGE™ J-III L series 8/10/12 HP Heat Pump type	50% to 150% ^{*3}	up to 30 ^{*6}
AIRSTAGE™ J-III series Heat Pump type	50% to 150% ^{*3}	up to 13 ^{*7}
AIRSTAGE™ J-III series Heat Pump type	50% to 130% ^{*3}	up to 8
AIRSTAGE™ VR-II series Heat Recovery Modular type	50% to 150% ^{*3}	up to 64
AIRSTAGE™ V-III series Heat Pump Modular type	50% to 150% ^{*4}	up to 64

*3: Conditions of maximum connectable indoor unit capacity ratio is as the chart.

*4: Max. capacities in the combinations including the 18 HP outdoor unit fall below 150%.

*5: J-III L series 18 HP model only.

*6: J-III L series 12 HP model only.

*7: J-III series 6 HP model only.

Designed for low refrigerant charge

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



Various optional parts

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



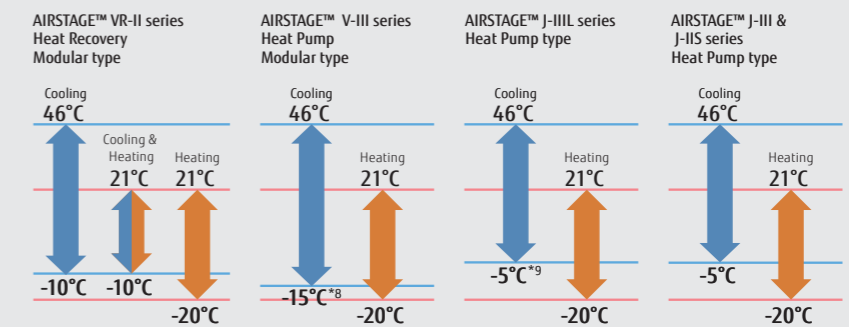
Low ambient operation

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



Wide operating range

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



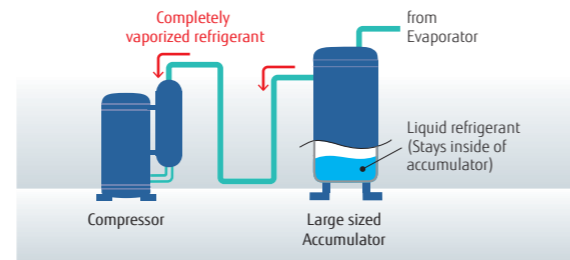
*8: Note: When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.

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

High Reliability

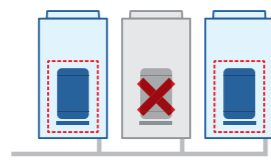
Liquid flow back protection

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



Backup operation

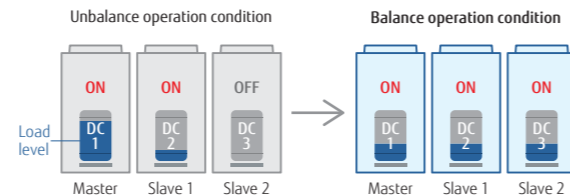
If one compressor fails, backup operation will be performed by the remaining compressors.*1



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

Advanced refrigerant control

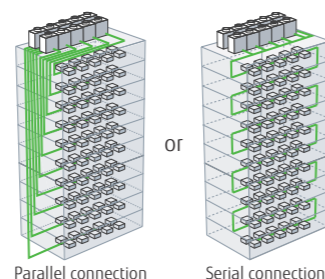
Innovative compressor control logic has been introduced in order to balance the refrigerant mass flow rate of each outdoor unit by controlling the inverter speed.



Easy Installation

Simple wiring work

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

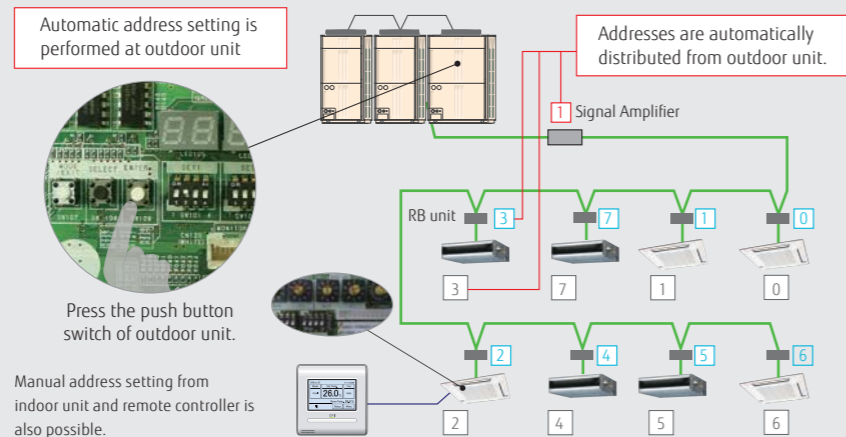


Up to maximum length
3,600 m

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

Automatic address setting

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



Easy Service & Maintenance

Design for easy maintenance

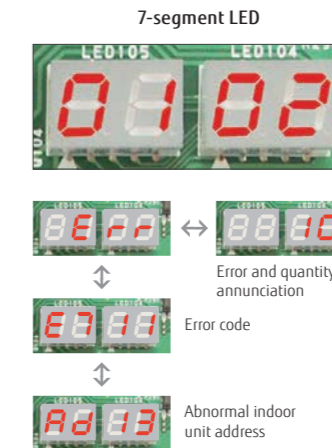
Easy to read 7-segment LED

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

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

Movable PCB panel

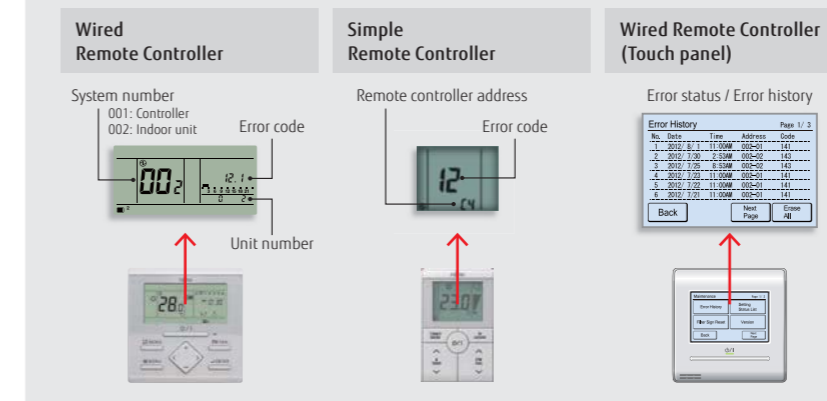
Easier for maintenance work behind the PCB



- Error status can be checked easily by outdoor unit display

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

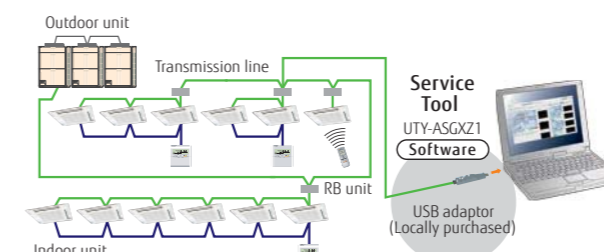
An error code is displayed on a liquid crystal screen.



Error diagnosis by Service Tool

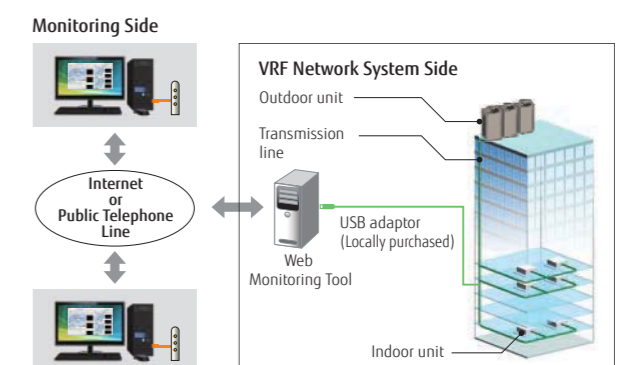
Connection to Service Tool

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



Remote monitoring

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





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

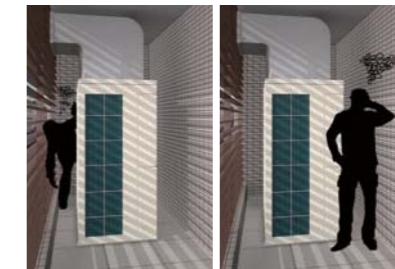
AIRSTAGE™ J-III L

Image: 8/10/12 HP models

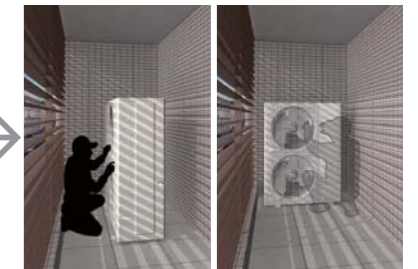
Slim & Compact Design



Various Installation



AIRSTAGE™ V-Series outdoor unit

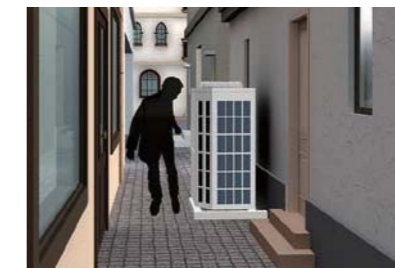


AIRSTAGE™ J-Series outdoor unit

In house installation

Low noise in consideration for the nearby residents

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



AIRSTAGE™ V-Series outdoor unit

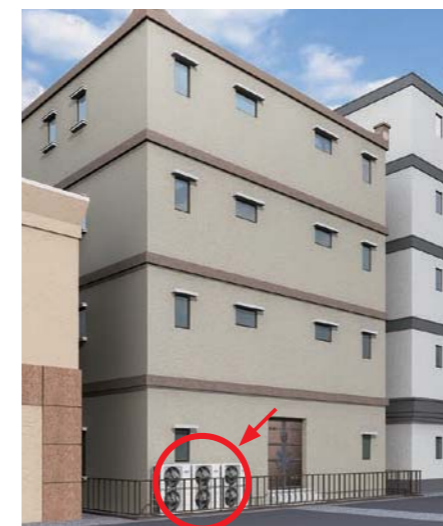


AIRSTAGE™ J-Series outdoor unit

Narrow space behind building

Space saving

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



AIRSTAGE™ V-Series outdoor unit



AIRSTAGE™ J-Series outdoor unit

Installation at back street of building

Flexible installation

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

Heat Pump

for Small Capacity Type

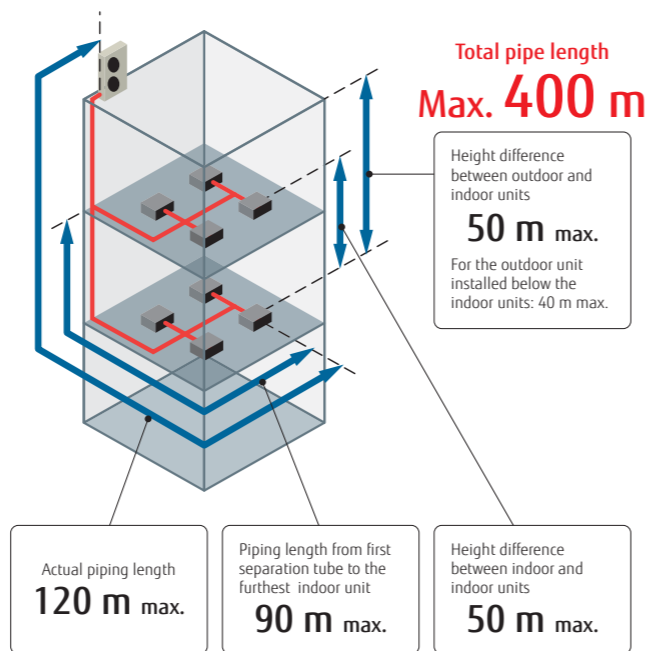
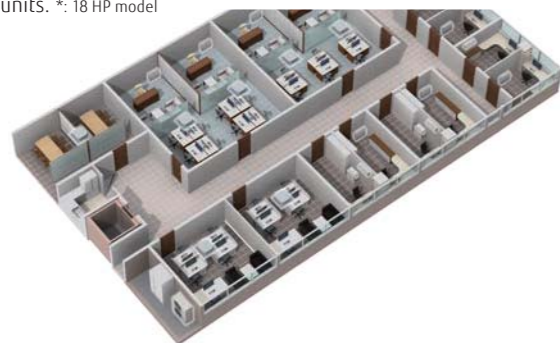


Long piping length

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

Up to 42 units* can be connected

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



High Static Pressure

External static pressure is available up to 60Pa for 14/16/18HP. (20Pa for 8HP, 30Pa for 10/12HP)



Top Class Low Operating Sound

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

Sound Power Level



8,10,12 HP: AJY072LELAH / AJY090LELAH / AJY108LELAH
14,16,18 HP: AJY126LELAH / AJY144LELAH / AJY162LELAH



NEW
18 HP model

Specifications

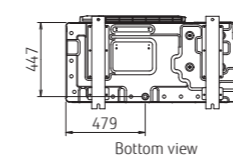
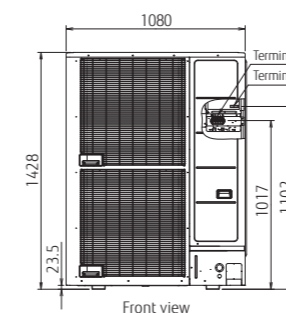
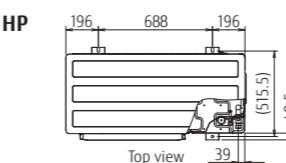
Rating Capacity range		HP	8	10	12	14	16	18
Model name			AJY072LELAH	AJY090LELAH	AJY108LELAH	AJY126LELAH	AJY144LELAH	AJY162LELAH
Maximum Connectable Indoor Unit			1-20	1-25	1-30	1-36	1-40	1-42
Power source			3 phase, ~400V, 50Hz					
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0
	Nominal Heating		22.4	28.0	33.5	40.0	45.0	50.0
	Max Heating		25.0	31.5	37.5	45.0	50.0	55.0
Input power	Cooling	kW	6.30	8.59	10.42	12.12	14.96	18.52
	Nominal Heating		4.65	6.61	8.18	9.71	11.81	13.66
	Max Heating		5.45	8.29	10.25	11.80	14.29	16.66
EER	Cooling		3.56	3.26	3.22	3.30	3.01	2.70
COP	Nominal Heating	W/W	4.82	4.24	4.10	4.12	3.81	3.66
	Max Heating		4.56	3.80	3.66	3.81	3.50	3.30
Airflow rate		m ³ /h	8,400	9,000	11,000	13,000	14,000	14,800/15,300
Sound pressure level / Power level	Cooling	dB(A)	52/66	54/69	59/73	62/75	64/77	65/79
	Heating		54/-	57/-	61/-	63/-	65/-	68/-
Net Dimensions	Height	mm	1,428	1,428	1,428	1,638	1,638	1,638
	Width		1,080	1,080	1,080	1,080	1,080	1,080
	Depth		480	480	480	480	480	480
Weight		kg	170	177	178	213	213	217
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO ₂ eq-T)	7.0 (14.6)	7.5 (15.7)	7.5 (15.7)	11.0 (22.9)	11.0 (22.9)	11.8 (24.6)
Connection pipe diameter	Liquid	mm	9.52	9.52	12.70	12.70	12.70	12.70
	Gas		19.05	22.20	28.58	28.58	28.58	28.58
Total pipe length		m	400	400	400	400	400	
Max. height difference			50/40 (Outdoor unit: Upper/Lower)					
Operation range	Cooling	°C	-15 to 46	-15 to 46	-15 to 46	-5 to 46*	-5 to 46*	-5 to 46*
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.
* The cooling operation range of -15 to 46°C is allowed only when all of the indoor units connected to the system are higher than capacity of 5.6kW.

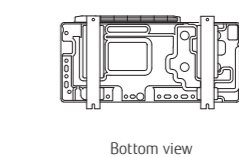
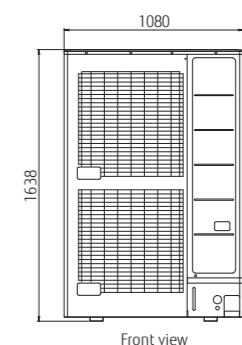
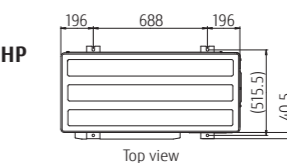
Dimensions

(Unit : mm)

8, 10, 12 HP



14, 16, 18 HP

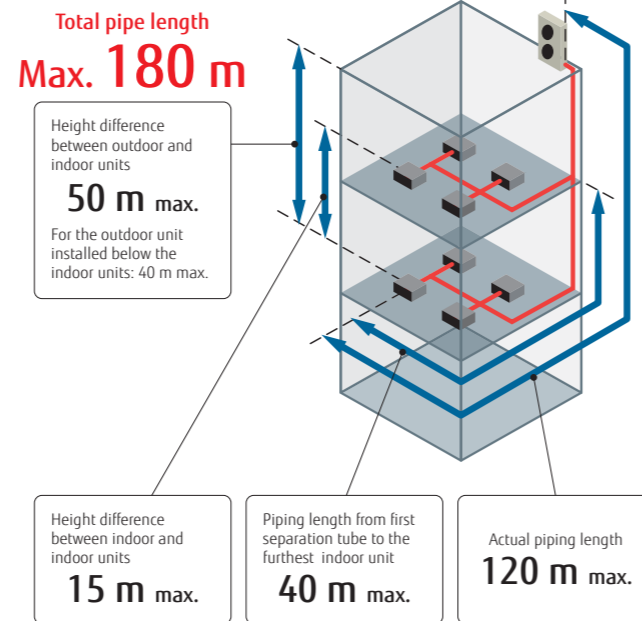


Heat Pump for Small Capacity Type



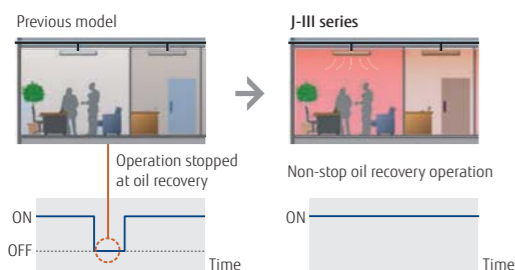
Long piping length

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



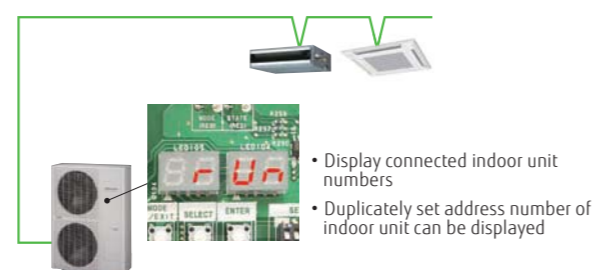
Non-stop oil recovery operation

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



Easier Installation

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



4,5,6HP : AJY040LBLAH / AJY045LBLAH / AJY054LBLAH
AJY040LELAH [3phase] / AJY045LELAH [3phase] / AJY054LELAH [3phase]



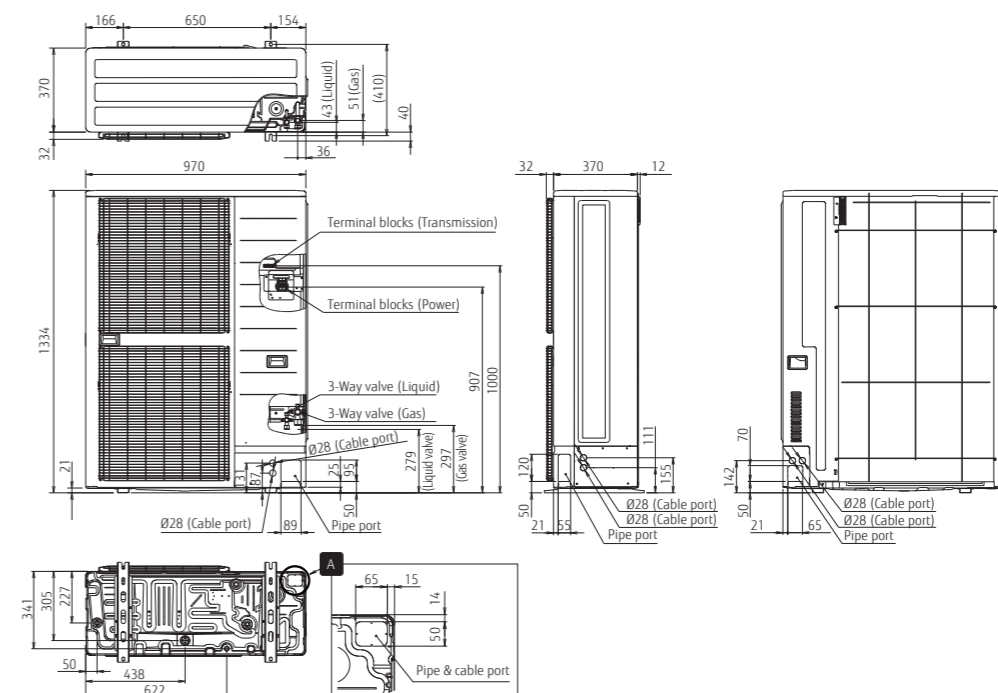
Specifications

Rating Capacity range	HP	4	5	6	4	5	6
Model name		AJY040LBLAH	AJY045LBLAH	AJY054LBLAH	AJY040LELAH	AJY045LELAH	AJY054LELAH
Maximum Connectable Indoor Unit		1-9	1-10	1-13	1-9	1-10	1-13
Power source		Single-phase, ~230V, 50Hz			3-phase, ~400V, 50Hz		
Capacity	Cooling	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	2.90	3.57	4.18	2.79	3.46	3.99
	Nominal Heating	2.30	2.83	3.28	2.23	2.71	3.14
	Max Heating	2.80	3.55	4.26	2.71	3.40	4.08
EER	Cooling	4.17	3.92	3.71	4.33	4.05	3.88
COP	Nominal Heating	5.27	4.96	4.74	5.44	5.17	4.94
	Max Heating	4.86	4.51	4.23	5.01	4.70	4.41
Airflow rate		6,200	6,400	6,900	6,200	6,400	6,900
Sound pressure level / Power level	Cooling	50 / 66	51 / 67	53 / 69	50 / 66	51 / 67	53 / 69
	Heating	52 / 68	53 / 69	55 / 71	52 / 68	53 / 69	55 / 71
Heat exchanger fin		Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	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		117	117	119	119	119	119
	Type (Global Warming Potential)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
Refrigerant	Charge	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	9.52	9.52	9.52	9.52	9.52	9.52
Connection pipe diameter	Gas	15.88	15.88	19.05	15.88	15.88	19.05
	Total pipe length	180	180	180	180	180	180
Max. height difference		50/40 (Outdoor unit: Upper/Lower)			50/40 (Outdoor unit: Upper/Lower)		
Operation range	Cooling	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

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

Dimensions

(Unit : mm)



Heat Pump for Small Capacity Type



4,5,6HP : AJY040LCLAH / AJY045LCLAH / AJY054LCLAH



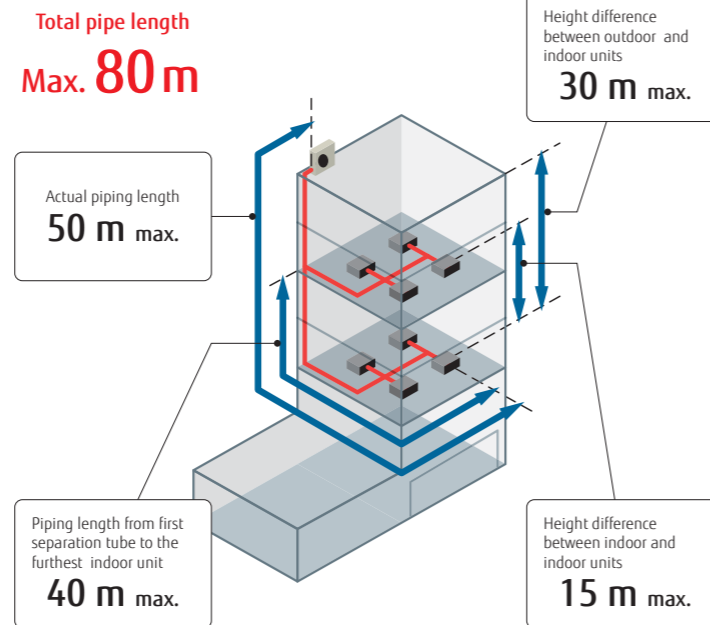
Specifications

Rating Capacity range	HP	4	5	6
Model name		AJY040LCLAH	AJY045LCLAH	AJY054LCLAH
Maximum Connectable Indoor Unit		7	8	8
Power source		Single-phase, ~230V, 50Hz		
Capacity	Cooling	12.1	14.0	15.1
	Nominal Heating	12.1	14.0	15.1
	Max Heating	13.6	16.0	16.5
Input power	Cooling	3.44	4.43	5.03
	Nominal Heating	2.51	3.11	3.52
	Max Heating	3.09	3.93	4.11
EER	Cooling	3.52	3.16	3.00
COP	Nominal Heating	4.83	4.51	4.30
	Max Heating	4.40	4.07	4.01
Airflow rate		4,040	4,200	4,200
Sound pressure level / Power level	Cooling	51 / 67	53 / 69	54 / 70
	Heating	54 / 68	55 / 69	56 / 70
Heat exchanger fin		Blue fin	Blue fin	Blue fin
Net Dimensions	Height	998	998	998
	Width	970	970	970
	Depth	370	370	370
Weight		86	86	87
Refrigerant	Type (Global Warming Potential)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO ₂ eq-T)	4.0 (8.4)	4.0 (8.4)
Connection pipe diameter	Liquid	9.52	9.52	9.52
	Gas	15.88	15.88	15.88
Total pipe length		80	80	80
Max. height difference		30	30	30
Operation range	Cooling	-5 to 46	-5 to 46	-5 to 46
	Heating	-20 to 21	-20 to 21	-20 to 21

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

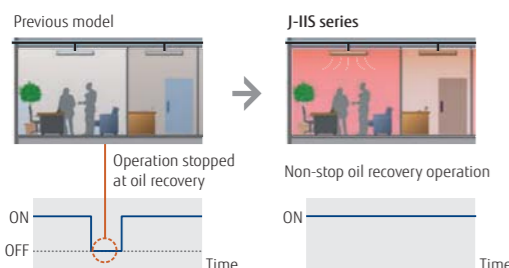
Long piping length

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



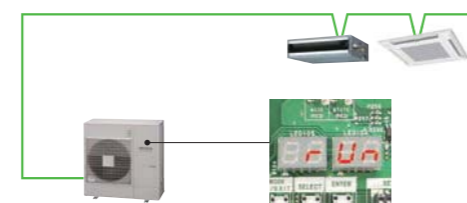
Non-stop oil recovery operation

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



Easier Installation

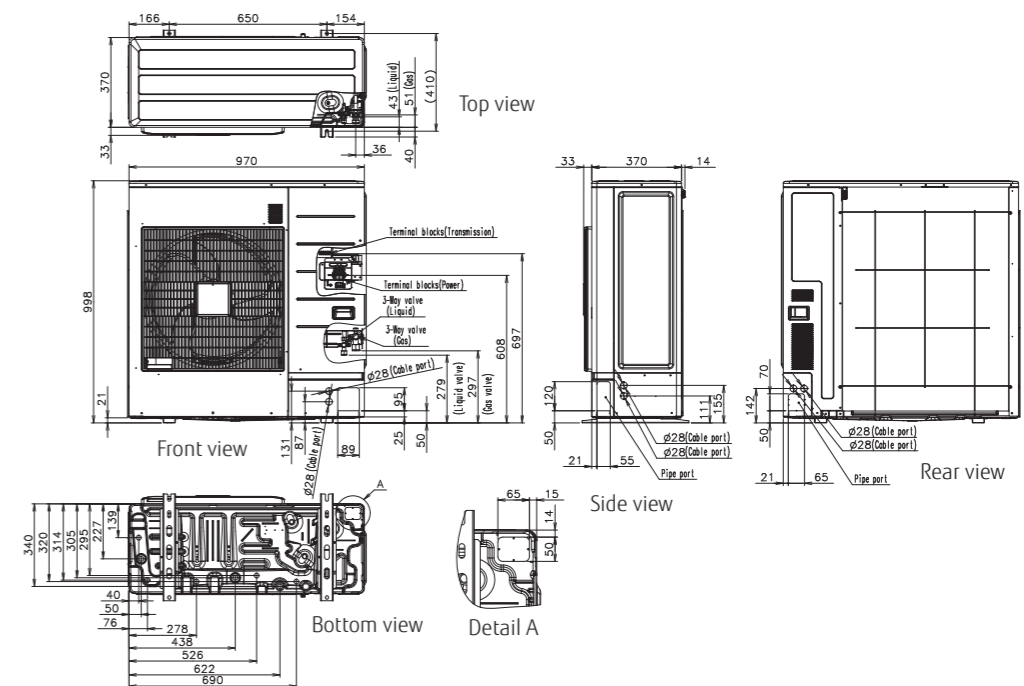
Connection check function : Possible to confirm whether wiring connection and address setting are correct by a quick check run function.



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

Dimensions

(Unit : mm)



Heat Recovery

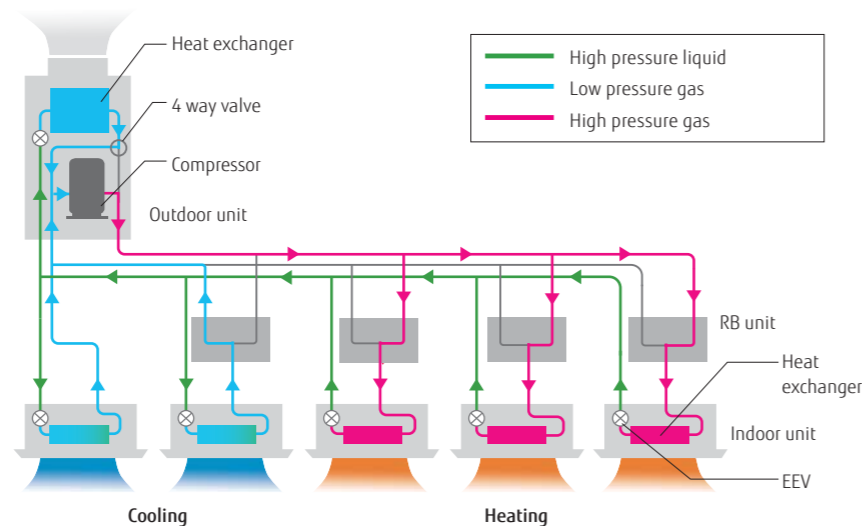
Modular Type



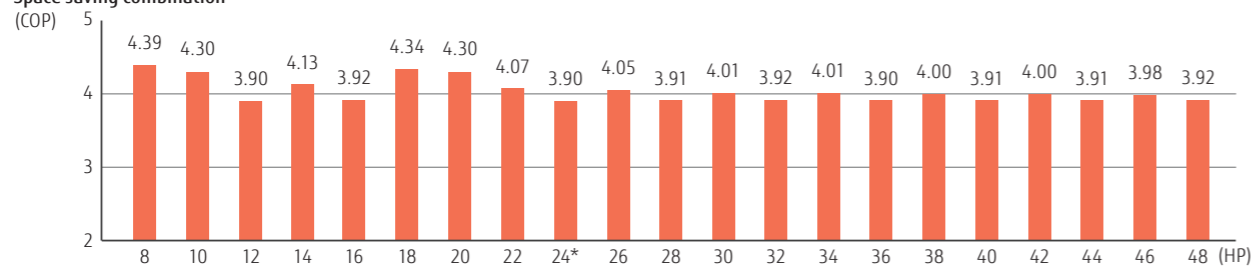
AIRSTAGE VR-II

High Operating Energy Efficiency

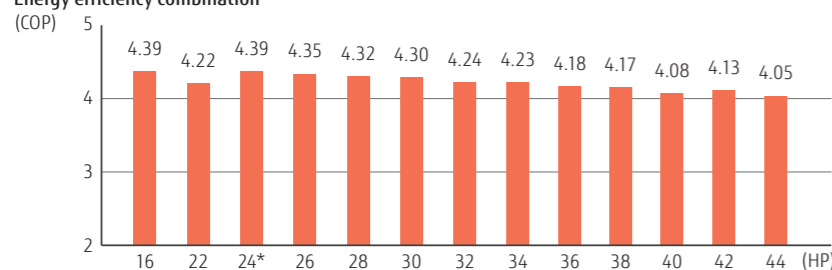
Our Heat recovery systems achieve high operating energy efficiency by drawing heat from the room to be cooled and transferring it as energy for rooms that are to be heated.



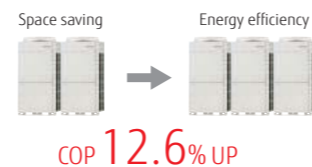
Space saving combination (COP)



Energy efficiency combination (COP)



For 24HP Combination



8,10,12HP : AJYA72GALH / AJYA90GALH / AJY108GALH
 14,16HP : AJY126GALH / AJY144GALH



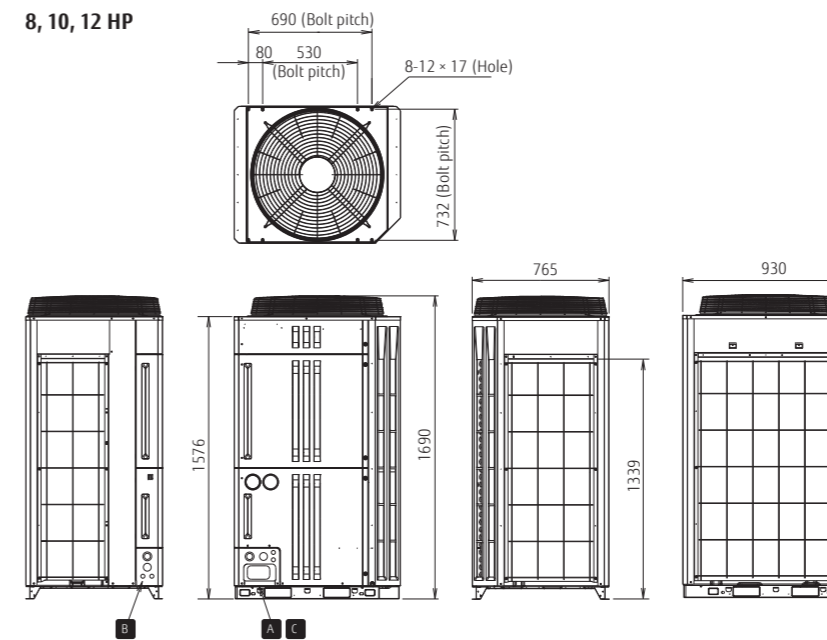
8, 10, 12 HP

14, 16 HP

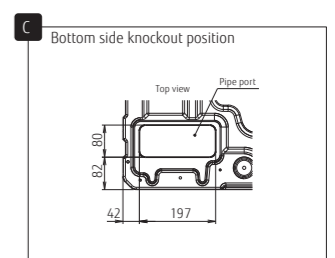
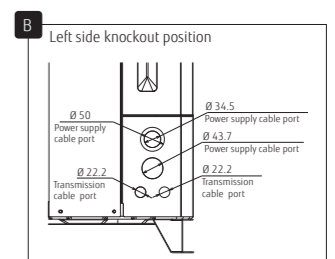
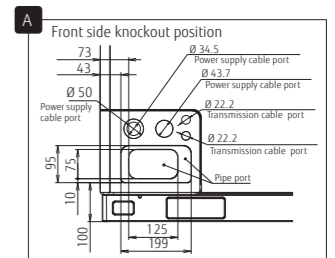
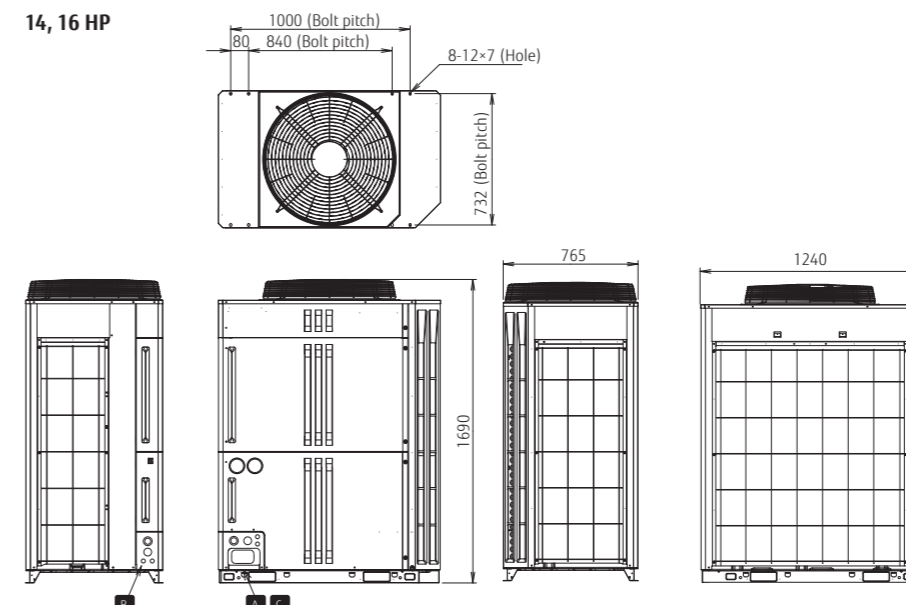
Dimensions

(Unit : mm)

8, 10, 12 HP



14, 16 HP



Outdoor units specifications

Space Saving Combination

Rating Capacity range		HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48																																												
Set Model name		AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJY162GALH	AJY180GALH	AJY198GALH	AJY216GALH		AJY234GALH	AJY252GALH	AJY270GALH	AJY288GALH	AJY306GALH	AJY324GALH	AJY342GALH	AJY360GALH	AJY378GALH	AJY396GALH	AJY414GALH	AJY432GALH																																												
Unit 1 Unit 2 Unit 3		AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJYA90GALH AJYA72GALH	AJYA90GALH AJYA90GALH	AJY108GALH AJYA90GALH	AJY108GALH		AJY144GALH AJYA90GALH	AJY144GALH AJY108GALH	AJY144GALH AJY126GALH	AJY144GALH AJY144GALH	AJY108GALH AJY108GALH	AJY108GALH AJY108GALH	AJY144GALH AJY108GALH	AJY144GALH AJY108GALH	AJY144GALH AJY108GALH	AJY144GALH AJY108GALH	AJY144GALH AJY108GALH	AJY144GALH AJY108GALH	AJY144GALH AJY108GALH																																											
Maximum Connectable Indoor Unit*		15			16			17			21			24			27			30			32			35			39			42			45			48			50			53			57			60			63			64			64			64					
Indoor unit connectable capacity		kW			11.2-33.6			14.0-42.0			16.8-50.2			20.0-60.0			22.5-67.5			25.2-75.6			28.0-84.0			30.8-92.2			33.5-100.5			36.5-109.5			39.3-117.7			42.5-127.5			45.0-135.0			47.5-142.5			50.3-150.7			53.3-159.7			56.0-168.0			59.0-177.0			61.8-185.2			65.0-195.0			67.5-202.5		
Power source		3-phase 4 wire, 400V, 50Hz												3-phase 4 wire, 400V, 50Hz																																																					
Capacity	Cooling	kW																																																																	
	Nominal Heating Max Heating	-																																																																	
Input power	Cooling	kW																																																																	
	Nominal Heating Max Heating	-																																																																	
EER	Cooling	W/W																																																																	
COP	Nominal Heating Max Heating	-																																																																	
	Airflow rate	m ³ /h																																																																	
Sound pressure level*/ Power level	Cooling	dB(A)																																																																	
	Heating	-																																																																	
Maximum external static pressure		Pa																																																																	
Compressor motor output		kW																																																																	
Heat exchanger fin		Blue fin																																																																	
Net Dimensions	Height	mm																																																																	
	Width	-																																																																	
	Depth	-																																																																	
Weight		kg																																																																	
Refrigerant	Type (Global Warming Potential)	R410A (2.088)																																																																	
	Charge	kg(CO2eq-T)																																																																	
Connection pipe diameter	Liquid	mm																																																																	
	Discharge Gas	-																																																																	
	Suction Gas	-																																																																	
Operation range	Cooling	°CDB																																																																	
	Heating	-																																																																	
	Cooling/Heating	-																																																																	

Energy Efficiency Combination

Rating Capacity range		HP	16	22	24	26	28	30	32	34	36	38	40	42	44																												
Set Model name		AJY144GALHH	AJY198GALHH	AJY216GALHH	AJY234GALHH	AJY252GALHH	AJY270GALHH		AJY288GALHH	AJY306GALHH	AJY324GALHH	AJY342GALHH	AJY360GALHH	AJY378GALHH	AJY396GALHH																												
Unit 1 Unit 2 Unit 3		AJYA72GALH AJYA72GALH	AJY126GALH AJYA72GALH	AJYA72GALH AJYA72GALH AJYA72GALH	AJYA90GALH AJYA72GALH AJYA72GALH	AJYA90GALH AJYA90GALH AJYA72GALH	AJYA90GALH AJYA90GALH AJYA72GALH	AJYA90GALH AJYA90GALH AJYA72GALH	AJY126GALH AJYA90GALH AJYA90GALH	AJY126GALH AJYA90GALH AJYA90GALH	AJY126GALH AJY126GALH AJYA72GALH	AJY126GALH AJY126GALH AJYA90GALH	AJY144GALH AJY126GALH AJYA90GALH	AJY126GALH AJY126GALH AJY126GALH	AJY144GALH AJY126GALH AJY126GALH																												
Maximum Connectable Indoor Unit*		24			33			36			39			42			45			48			51			54			57			60			64			64					
Indoor unit connectable capacity		kW			22.4-67.2			31.2-93.6			33.6-100.8			36.4-109.2			39.2-117.6			42.0-126.0			45.2-135.6			48.0-144.0			51.2-153.6			54.0-162.0			56.5-169.5			60.0-180.0			62.5-187.5		
Power source		3-phase 4 wire, 400V, 50Hz												3-phase 4 wire, 400V, 50Hz																													
Capacity	Cooling	kW																																									
	Nominal Heating Max Heating	-																																									
Input power	Cooling	kW																																									
	Nominal Heating Max Heating	-																																									
EER	Cooling	W/W																																									
COP	Nominal Heating Max Heating	-																																									
	Airflow rate	m ³ /h																																									
Sound pressure level*/ Power level	Cooling	dB(A)																																									
	Heating	-																																									
Maximum external static pressure		Pa																																									
Compressor motor output		kW																																									
Heat exchanger fin		Blue fin																																									
Net Dimensions	Height	mm																																									
	Width	-																																									
	Depth	-																																									
Weight		kg																																									
Refrigerant	Type (Global Warming Potential)	R410A (2.088)																																									
	Charge	kg(CO2eq-T)																																									
Connection pipe diameter	Liquid	mm																																									
	Discharge Gas	-																																									
	Suction Gas	-																																									
Operation range	Cooling	°CDB																																									
	Heating	-																																									
	Cooling/Heating	-																																									

Note: Specifications are based on the following conditions.

Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

When cooling operation will be conducted at outdoor air temperature below -5°C, the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

*1: Minimum connectable indoor unit number is 2.

*2: The noise value is the value when measured in an anechoic room. When measured in the actual installed state, surrounding noise and reflections are received and the measured value is usually larger than the indicated value.

Heat Pump

Modular Type



8,10HP: AJY072LALBH / AJY090LALBH
 12,14,16,18HP: AJY108LALBH / AJY126LALBH / AJY144LALBH / AJY162LALBH

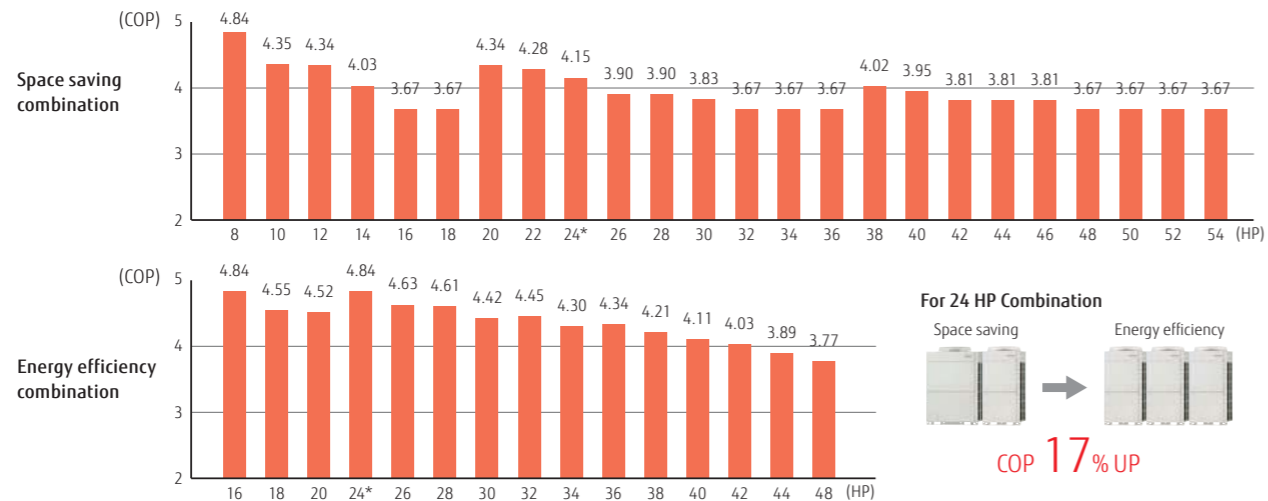


8, 10 HP

12, 14, 16, 18 HP

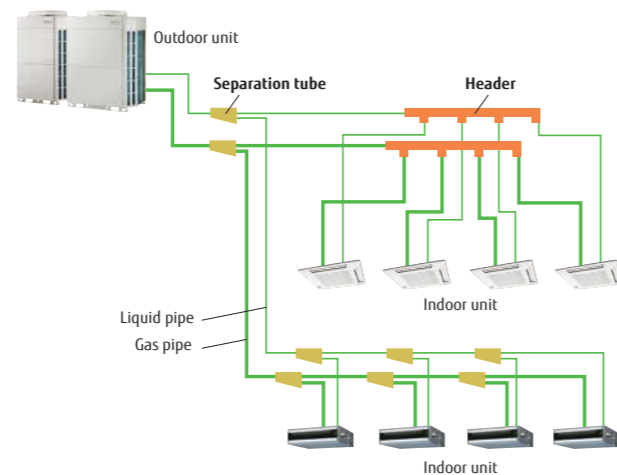
Efficiency in actual operation

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



System configuration example

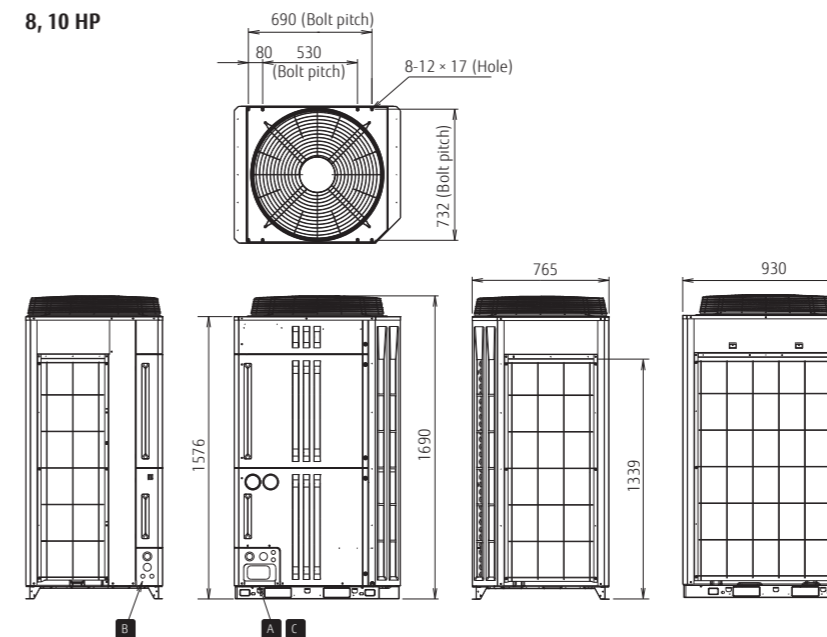
- This system is used for medium-sized and large buildings. Connecting each outdoor unit makes it possible to create a high capacity system.
- Connection of multiple indoor units using separation tubes and headers.



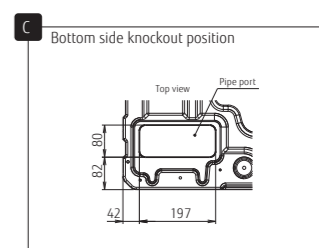
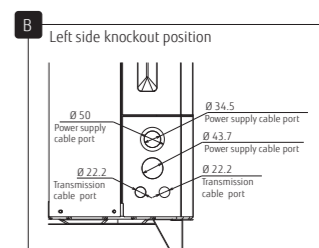
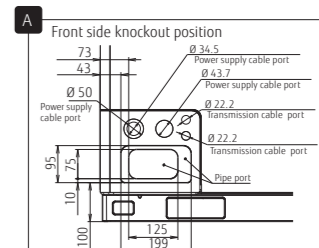
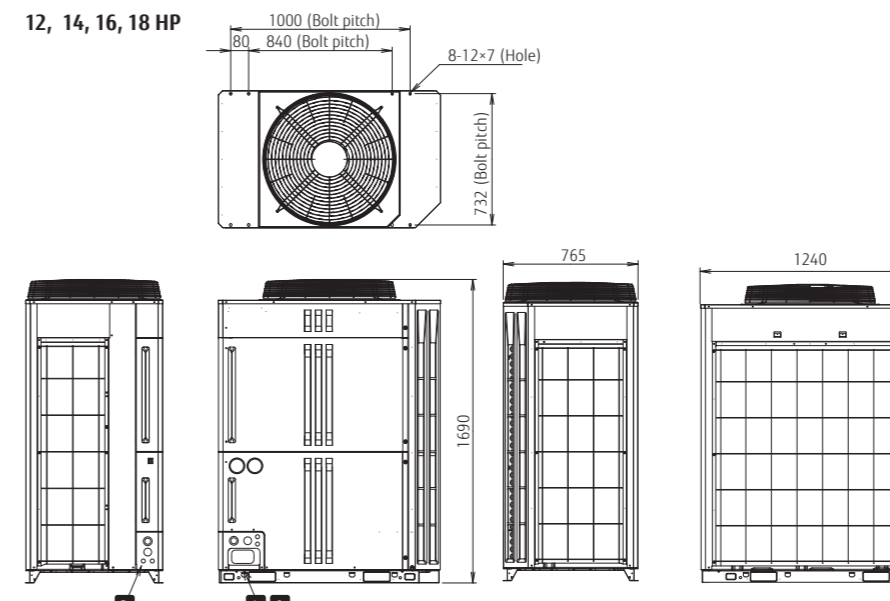
Dimensions

(Unit : mm)

8, 10 HP



























12, 14, 16, 18 HP


















Outdoor units specifications

Space Saving Combination

Rating Capacity range	HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
																									
Set Model name		AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY180LALBH	AJY198LALBH	AJY216LALBH	AJY234LALBH	AJY252LALBH	AJY270LALBH	AJY288LALBH	AJY306LALBH	AJY324LALBH	AJY342LALBH	AJY360LALBH	AJY378LALBH	AJY396LALBH	AJY414LALBH	AJY432LALBH	AJY450LALBH	AJY468LALBH	AJY486LALBH
Unit 1 Unit 2 Unit 3		AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY180LALBH	AJY198LALBH	AJY216LALBH	AJY234LALBH	AJY252LALBH	AJY270LALBH	AJY288LALBH	AJY306LALBH	AJY324LALBH	AJY342LALBH	AJY360LALBH	AJY378LALBH	AJY396LALBH	AJY414LALBH	AJY432LALBH	AJY450LALBH	AJY468LALBH	AJY486LALBH
Maximum Connectable Indoor Unit ^{*1}		17	21	26	30	34	39	43	47	52	56	60	64	64	64	64	64	64	64	64	64	64	64	64	64
Indoor unit connectable capacity	kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.0-67.5	28.0-84.0	31.2-93.6	34.0-102.0	36.5-109.5	39.0-109.5	42.5-127.5	45.0-135.0	47.5-135.0	50.0-135.0	53.0-151.5	56.5-169.5	59.0-177.0	61.5-177.0	64.0-177.0	67.5-202.5	70.0-202.5	72.5-202.5	75.0-202.5
Power source		3-phase 4 wire, 400 V, 50Hz												3-phase 4 wire, 400 V, 50Hz											
Capacity	Cooling Nominal Heating Max Heating	kW																							
Input power	Cooling Nominal Heating Max Heating	kW																							
EER	Cooling	W/W																							
COP	Nominal Heating Max Heating	W/W																							
Airflow rate	High	m³/h																							
Sound pressure level ^{*2/} Power level	Cooling Heating	dB(A)																							
Maximum external static pressure		Pa																							
Compressor motor output		kW																							
Heat exchanger fin		Blue fin																							
Net Dimensions	Height Width Depth	mm																							
Weight		kg																							
Refrigerant	Type (Global Warming Potential) Charge	kg(CO2eq-T)																							
Connection pipe diameter	Liquid Gas	mm																							
Operation range	Cooling Heating	°CDB																							

Energy Efficiency Combination

Rating Capacity range	HP	16	18	20	24	26	28	30	32	34	36	38	40	42	44	46	
																	
Set Model name		AJY144LALBHH	AJY162LALBHH	AJY180LALBHH	AJY216LALBHH	AJY234LALBHH	AJY252LALBHH	AJY270LALBHH	AJY288LALBHH	AJY306LALBHH	AJY324LALBHH	AJY342LALBHH	AJY360LALBHH	AJY378LALBHH	AJY396LALBHH	AJY414LALBHH	
Unit 1 Unit 2 Unit 3		AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY180LALBH	AJY198LALBH	AJY216LALBH	AJY234LALBH	AJY252LALBH	AJY270LALBH	AJY288LALBH	AJY306LALBH	AJY324LALBH	
Maximum Connectable Indoor Unit ^{*1}		34	39	43	52	56	60	64	64	64	64	64	64	64	64	64	
Indoor unit connectable capacity	kW	22.4-67.2	25.2-75.6	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	65.0-195.0	
Power source		3-phase 4 wire, 400 V, 50Hz															3-phase 4 wire, 400 V, 50Hz
Capacity	Cooling Nominal Heating Max Heating	kW															
Input power	Cooling Nominal Heating Max Heating	kW															
EER	Cooling	W/W															
COP	Nominal Heating Max Heating	W/W															
Airflow rate	High	m³/h															
Sound pressure level ^{*2/} Power level	Cooling Heating	dB(A)															
Maximum external static pressure		Pa															
Compressor motor output		kW															
Heat exchanger fin		Blue fin															
Net Dimensions	Height Width Depth	mm															
Weight		kg															
Refrigerant	Type (Global Warming Potential) Charge	kg(CO2eq-T)															
Connection pipe diameter	Liquid Gas	mm															
Operation range	Cooling Heating	°CDB															

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

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
When cooling operation will be conducted at outdoor air temperature below -5°C, the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

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

When measured in the actual installed state, surrounding noise and reflections are received and the measured value is usually larger than the indicated value.

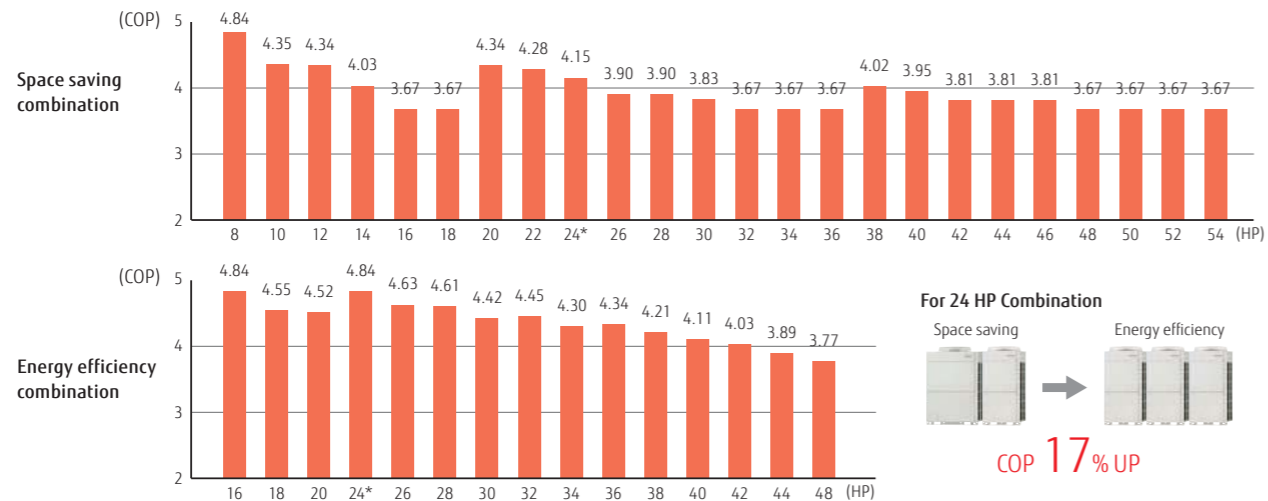
Heat Pump

Modular Type

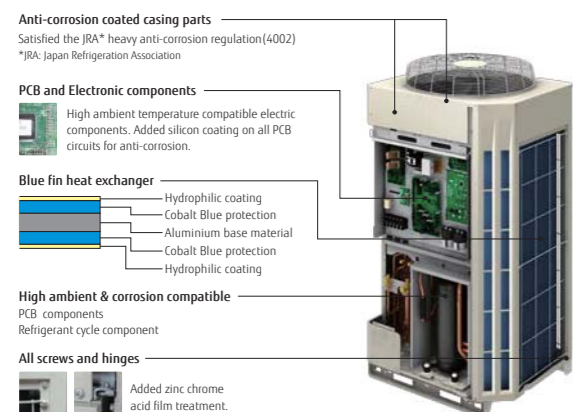


Efficiency in actual operation

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

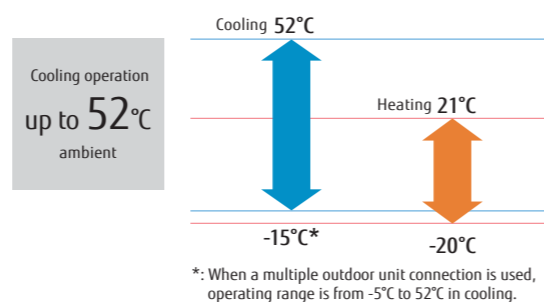


Heavy anti-corrosion treatment design



High ambient operation design

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



8,10HP : AJY072LNLBH / AJY090LNLBH
12,14,16,18HP : AJY108LNLBH / AJY126LNLBH / AJY144LNLBH / AJY162LNLBH



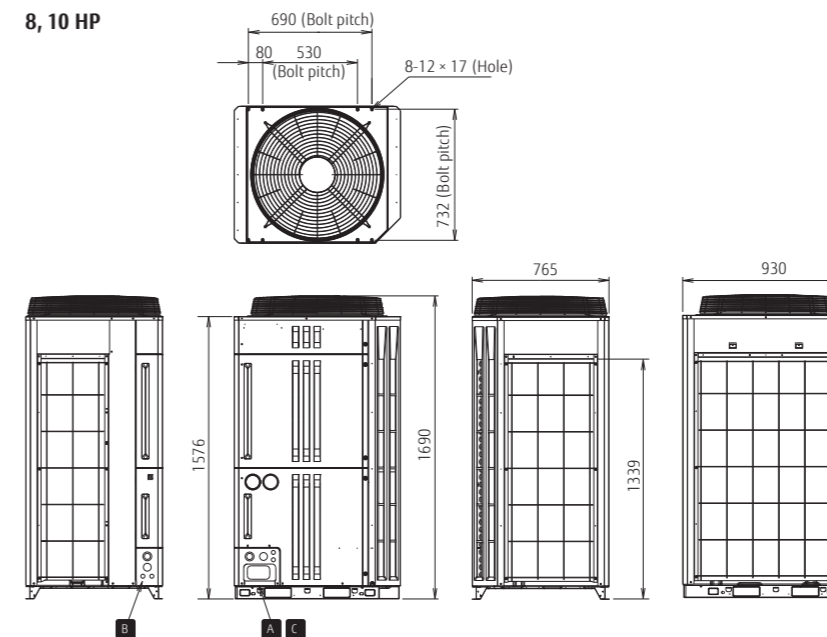
8, 10 HP

12, 14, 16, 18 HP

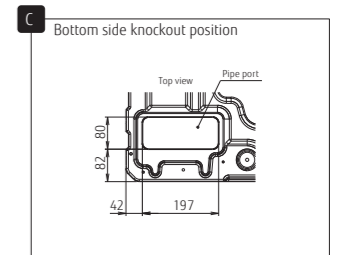
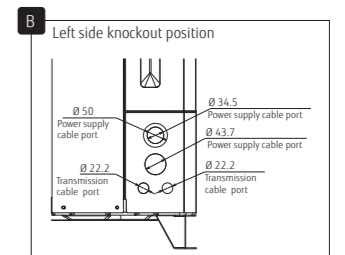
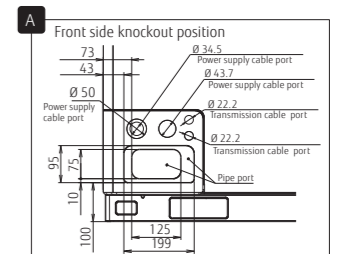
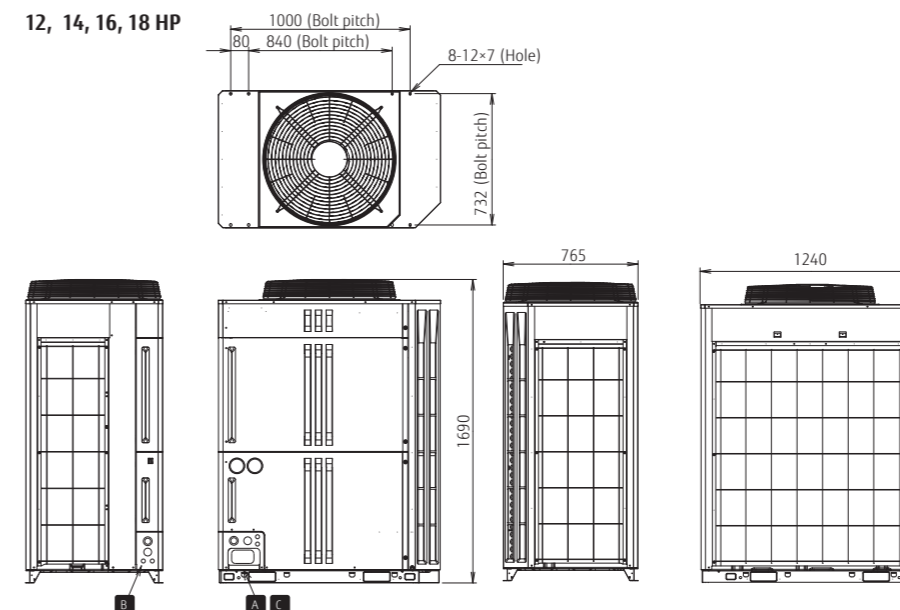
Dimensions

(Unit : mm)

8, 10 HP



12, 14, 16, 18 HP



For more information, please contact Fujitsu General Limited. (www.fujitsu-general.com)

Outdoor units specifications

Space Saving Combination

Table with columns for Rating Capacity range (8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54), HP, and various performance metrics like Capacity, Input power, Current, COP, EER, Airflow rate, etc.

Energy Efficiency Combination

Table with columns for Rating Capacity range (16, 18, 20, 24, 26, 28, 32, 34, 36, 38, 40, 42, 44, 46), HP, and various performance metrics like Capacity, Input power, Current, COP, EER, Airflow rate, etc.

Note: Specifications are based on the following conditions. Cooling(T1): Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

VRF Indoor Unit Lineup

Capacity range (kW)			1.1	2.2	2.8	3.6	4.5	5.6	7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0	28.0		
Class			4	7	9	12	14	18	24	30	34	36	45	54	60	72	90	96		
Cassette	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											
	Circular Flow Slim type				AUXN 009 GLAH*4	AUXN 012 GLAH*4	AUXN 014 GLAH*4	AUXM 018 GLEH	AUXM 024 GLEH	AUXM 030 GLEH										
	Circular Flow Large type							AUXK 018 GLEH	AUXK 024 GLEH	AUXK 030 GLEH	AUXK 034 GLEH	AUXK 036 GLEH	AUXK 045 GLEH	AUXK 054 GLEH						
	3D Flow							AUXS 018 GLEH	AUXS 024 GLEH											
Duct	Mini Duct (With drain pump)		ARXK 004 GLEH	ARXK 007 GLEH	ARXK 009 GLEH	ARXK 012 GLEH	ARXK 014 GLEH	ARXK 018 GLEH	ARXK 024 GLEH											
	Slim Duct (With drain pump)		ARXD 04 GALH*3	ARXD 007 GLEH	ARXD 009 GLEH	ARXD 012 GLEH	ARXD 014 GLEH	ARXD 018 GLEH	ARXD 024 GLEH											
	Medium Static Pressure Duct								ARXA 024 GLEH	ARXA 030 GLEH		ARXA 036 GLEH	ARXA 045 GLEH							
	High Static Pressure Duct											ARXC 036 GTEH	ARXC 45 GATH		ARXC 60 GATH*1	ARXC 072 GTEH*1	ARXC 090 GTEH*1	ARXC 096 GTEH*1		
	Large Airflow Duct (Compact type)				ARXN 009 GLBH*4	ARXN 012 GLBH*4	ARXN 014 GLBH*4	ARXN 018 GLBH	ARXN 024 GTBH	ARXN 030 GTBH										
	Large Airflow Duct (Large type)							ARXN 18 GATH*2	ARXN 24 GATH*2	ARXN 30 GATH*2	ARXN 34 GATH*2	ARXN 36 GATH*2	ARXN 45 GATH*2							
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)		ARXD 04 GALH*3	ARXD 007 GLEH	ARXD 009 GLEH	ARXD 012 GLEH	ARXD 014 GLEH	ARXD 018 GLEH	ARXD 024 GLEH											
	Compact Floor		AGYA 004 GCEH	AGYA 007 GCEH	AGYA 009 GCEH	AGYA 012 GCEH	AGYA 014 GCEH													
	Compact Floor (EEV external)		AGYE 004 GCEH	AGYE 007 GCEH	AGYE 009 GCEH	AGYE 012 GCEH	AGYE 014 GCEH													
Ceiling		With this model, connection of EV kit is necessary.					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	Wall Mounted		ASYA 004 GTEH	ASYA 007 GTEH	ASYA 009 GTEH	ASYA 012 GCEH	ASYA 014 GCEH	ASYA 18 GBCH	ASYA 24 GBCH	ASYA 030 GTEH	ASYA 034 GTEH									
	Wall Mounted (EEV external)		ASYE 004 GTEH	ASYE 007 GTEH	ASYE 009 GTEH	ASYE 012 GCEH	ASYE 014 GCEH													

*1: ARXC60/072/090/096G cannot be connected to J-IIS series and J-III series.
 *2: Large airflow duct (Large type ARXN**GATH) type can be connected to VR-II / V-III series only.
 *3: ARXD04GALH cannot be connected to J-III series.
 *4: AUXN009/012/014GLAH and ARXN009/012/014GLBH can be connected to J-IIS series and J-III series only.
 Specifications and design are subject to change without notice.

NEW

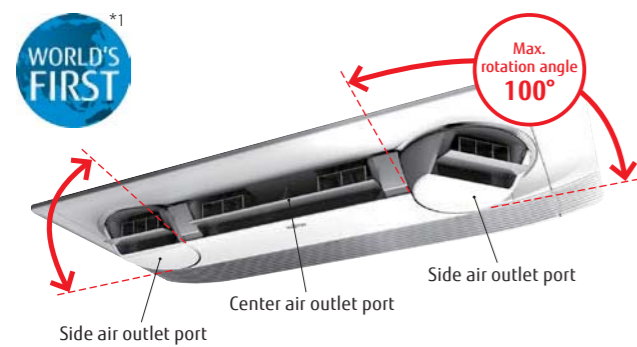
3D Flow Cassette



Model:
AUXS018GLEH / AUXS024GLEH

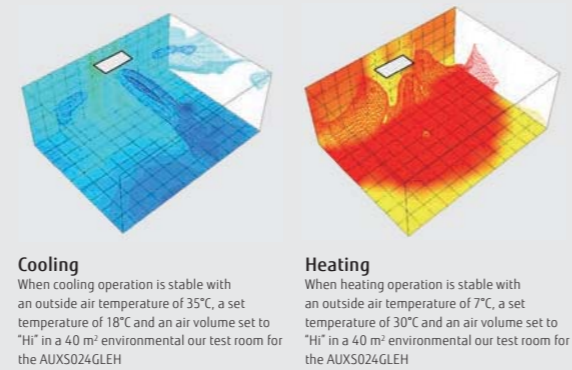
3 Air Outlet Ports can be controlled individually

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

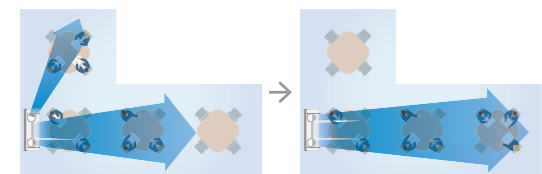


*1: Announced 2018. In room air conditioner for the home (our company's investigation)

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



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



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



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

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

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

High energy saving

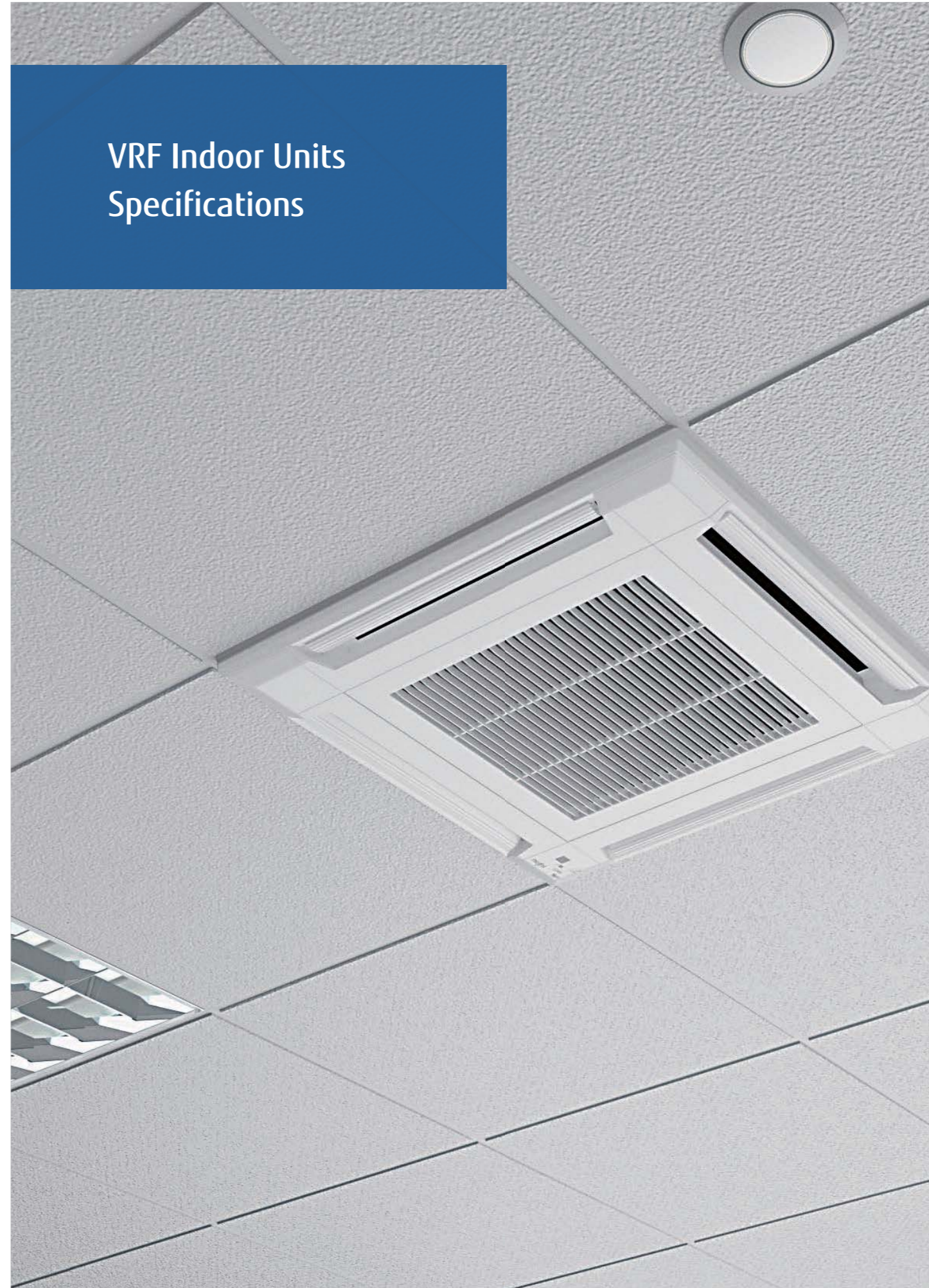
The "New structural design" featuring large intake and smooth output reduces air blowing loss to achieve top class energy saving.

Efficient air outlet port

Expansion of air return port area

Low power consumption
20 W*

*: 5.6 kW class



VRF Indoor Units Specifications

VRF Indoor Units Specifications

Compact Cassette

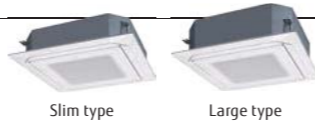


Model name		AUXB004GLEH	AUXB007GLEH	AUXB009GLEH	AUXB012GLEH	AUXB014GLEH	AUXB018GLEH	AUXB024GLEH	
Power source		Single-phase, ~230V, 50Hz							
Capacity	Cooling	1.1	2.2	2.8	3.6	4.5	5.6	7.1	
	Heating	1.3	2.8	3.2	4.1	5.0	6.3	8.0	
Input power	W	23	25	25	29	35	36	84	
	High	530/530	540	550	600	680	710	1,030	
Airflow rate	m³/h	Med-H	490/480	500	520	560	620	660	910
		Med	450/430	460	480	520	560	590	790
		Med-L	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
		High	34/34	34	35	37	38	41	50
Sound pressure level	dB(A)	Med-H	32/31	32	33	34	37	39	46
		Med	30/29	30	31	33	34	36	43
		Med-L	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					
Weight	kg(lbs)	15 (33)			17 (37)				
Connection pipe diameter	Liquid (Flare)	6.35		12.70			9.52		
	Gas (Flare)	9.52		12.70			15.88		
Drain hose diameter (I.D./O.D.)		25/32							
Cassette Grille		UTG-UFYE-W / UTG-UFYC-W							
Net Dimensions (H×W×D)		49 × 620 × 620 / 49 × 700 × 700							
Weight		2.3(5.1) / 2.6(6)							

Note : Specifications are based on the following conditions.
 *1: This value is under cooling operation.

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].

Circular Flow Cassette



Slim type

Model name		AUXN009GLAH	AUXN012GLAH	AUXN014GLAH	AUXM018GLEH	AUXM024GLEH	AUXM030GLEH	
Power source		Single-phase, ~230V, 50Hz						
Capacity	Cooling	2.8	3.6	4.5	5.6	7.1	9.0	
	Heating	3.2	4.0	5.0	6.3	8.0	10.0	
Input power	W	20	20	20	20	25	49	
	High	1,050	1,050	1,050	1,050	1,120	1,470	
Airflow rate	m³/h	Med-H	930	930	930	930	1,050	1,160
		Med	900	900	900	900	930	1,070
		Med-L	870	870	870	870	900	930
		Low	810	810	810	810	870	900
		Quiet	780	780	780	780	780	780
		High	33	33	33	33	35	40
Sound pressure level	dB(A)	Med-H	32	32	32	32	33	36
		Med	31	31	31	31	32	34
		Med-L	30	30	30	30	31	32
		Low	29	29	29	29	30	31
		Quiet	28	28	28	28	28	28
		Net Dimensions (H × W × D)	mm	246 × 840 × 840				
Weight	kg(lbs)	24.5 (54)		24.0 (53)		24.5 (54)		
Connection pipe diameter	Liquid (Flare)	6.35		12.70			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						
Net Dimensions (H×W×D)		53 × 950 × 950						
Weight		6.0 (13)						

Large type

Model name		AUXK018GLEH	AUXK024GLEH	AUXK030GLEH	AUXK034GLEH	AUXK036GLEH	AUXK045GLEH	AUXK054GLEH	
Power source		Single-phase, ~230V, 50Hz							
Capacity	Cooling	5.6	7.1	9.0	10.0	11.2	12.5	14.0	
	Heating	6.3	8.0	10.0	11.2	12.5	14.0	16.0	
Input power	W	40	40	47	47	61	89	116	
	High	1,420	1,420	1,440	1,440	1,620	1,820	2,040	
Airflow rate	m³/h	Med-H	1,360	1,360	1,440	1,440	1,500	1,590	1,800
		Med	1,300	1,300	1,340	1,340	1,400	1,500	1,590
		Med-L	1,270	1,270	1,300	1,300	1,340	1,400	1,440
		Low	1,200	1,200	1,280	1,280	1,280	1,300	1,300
		Quiet	1,150	1,150	1,150	1,150	1,150	1,150	1,150
		High	38	38	39	39	41	44	47
Sound pressure level	dB(A)	Med-H	37	37	38	38	40	42	45
		Med	36	36	37	37	38	40	42
		Med-L	35	35	36	36	37	38	39
		Low	34	34	35	35	36	36	36
		Quiet	33	33	33	33	33	33	33
		Net Dimensions (H × W × D)	mm	288 × 840 × 840					
Weight	kg(lbs)	26.5 (58)		29.5 (65)		29.5 (65)		29.5 (65)	
Connection pipe diameter	Liquid (Flare)	6.35		9.52			15.88		
	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							
Net Dimensions (H×W×D)		53 × 950 × 950							
Weight		6.0 (13)							

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
 Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
 When AUX*018GLEH is connected to the outdoor unit other than J-III, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas)
 When AUXK036GLEH, AUXK045GLEH, and AUXK054GLEH are connected to the outdoor unit other than J-III, gas pipe diameter should be Ø19.05.

3D Flow Cassette



NEW

TENTATIVE

Model name		AUXS018GLEH	AUXS024GLEH
Power source		Single-phase, ~230V, 50Hz	
Capacity	Cooling	5.60	7.10
	Heating	6.30	8.00
Input power	W	20/28	34/43
	High	750/870	950/1,040
Airflow rate*	m³/h	Med-H	710/830
		Med	690/780
		Med-L	660/740
		Low	630/700
		Quiet	540/540
		High	38/41
Sound pressure level*	dB(A)	Med-H	36/40
		Med	35/39
		Med-L	35/37
		Low	33/36
		Quiet	29/29
		Net Dimensions (H × W × D)	mm
Weight	kg(lbs)	25 (55)	
Connection pipe diameter	Liquid (Flare)	6.35	
	Gas (Flare)	12.70	
Drain hose diameter (I.D./O.D.)		25/32	
Cassette Grille		UTG-USYA-W	
Net Dimensions (H×W×D)		85 × 1,350 × 580	
Weight		11.5 (25)	

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
 Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
 *: This value is "cooling operation / heating operation".



Mini Duct



Model name		ARXK004GLEH	ARXK007GLEH	ARXK009GLEH	ARXK012GLEH	ARXK014GLEH	ARXK018GLEH	ARXK024GLEH
Power source		Single-phase, ~230V, 50Hz						
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						
Airflow rate	High	26	28	28	35	66	73	80
	Med-H	460	460	460	550	760	930	1,160
	Med	440	440	440	520	660	840	1,060
	Med-L	420	420	420	480	560	740	960
	Low	400	400	400	450	490	640	860
	Quiet	370	370	370	410	410	540	750
Static pressure range		Pa						
Standard static pressure		0 to 30						
Sound pressure level	High	10	10	10	15	15	15	15
	Med-H	25	26	26	29	34	33	32
	Med	24	25	25	27	31	30	30
	Med-L	23	24	24	26	28	28	28
	Low	22	23	23	25	26	26	27
	Quiet	21	22	22	24	24	24	25
Net Dimensions (H × W × D)		mm						
Weight		kg(lbs)						
Connection pipe diameter		mm						
Drain hose diameter (I.D./O.D.)		mm						

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].

Slim Duct / Slim Concealed Floor



Model name		ARXD04GALH	ARXD007GLEH	ARXD009GLEH	ARXD012GLEH	ARXD014GLEH	ARXD018GLEH	ARXD024GLEH
Power source		Single-phase, ~230V, 50Hz						
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						
Airflow rate	High	40	44	50	54	92	83	122
	Med-High	510	550	600	600	800	940	1,330
	Med	-	480	510	530	680	820	1,140
	Med-Low	400/470*	440	460	490	600	730	1,020
	Low	-	410	420	450	520	630	900
	Quiet	320/440*	370	370	410	440	540	780
Static pressure range		Pa						
Standard static pressure		0 to 90						
Sound pressure level	High	25	25	25	25	25	25	25
	Med-High	26	28	29	30	34	34	35
	Med	-	26	27	28	32	31	31
	Med-Low	21/25*	25	25	27	30	29	29
	Low	-	24	24	26	28	27	27
	Quiet	20/22*	22	22	24	25	25	24
Net Dimensions (H × W × D)		mm						
Weight		kg(lbs)						
Connection pipe diameter		mm						
Drain hose diameter (I.D./O.D.)		mm						

Note : Specifications are based on the following conditions.

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

Medium Static Pressure Duct



Model name		ARXA024GLEH	ARXA030GLEH	ARXA036GLEH	ARXA045GLEH
Power source		Single-phase, ~230V, 50Hz			
Capacity	Cooling	7.1	9.0	11.2	12.5
	Heating	8.0	10.0	12.5	14.0
Input power		W			
Airflow rate	High	94	108	194	240
	Med-High	1,280	1,410	1,840	1,970
	Med	1,180	1,350	1,750	1,910
	Med-Low	1,090	1,280	1,660	1,860
	Low	1,000	1,240	1,600	1,780
	Quiet	920	1,190	1,530	1,710
Static pressure range		Pa			
Standard static pressure		0 to 150			
Sound pressure level	High	40	50	50	60
	Med-High	31	34	37	41
	Med	29	33	36	40
	Med-Low	27	32	35	38
	Low	26	31	35	38
	Quiet	24	30	34	37
Net Dimensions (H × W × D)		mm			
Weight		kg(lbs)			
Connection pipe diameter		mm			
Drain hose diameter (I.D./O.D.)		mm			

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].

High Static Pressure Duct



Model name		ARXC036GTEH	ARXC45GATH	ARXC60GATH	ARXC072GTEH	ARXC090GTEH	ARXC096GTEH
Power source		Single-phase, ~230V, 50Hz					
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		W					
Airflow rate	High	207	715	730	681	819	838
	Med-High	1,990	3,000	3,350	3,900	4,300	4,850
	Med	1,810	-	-	3,600	4,150	4,550
	Med-Low	1,680	2,700	2,850	3,300	4,000	4,250
	Low	1,500	-	-	3,150	3,750	3,920
	Quiet	1,330	2,300	2,550	3,000	3,500	3,600
Static pressure range		Pa					
Standard static pressure		0 to 200					
Sound pressure level	High	100	100	100	150	150	150
	Med-High	42	47	48	47	48	48
	Med	39	-	-	45	47	46
	Med-Low	36	43	44	43	46	45
	Low	34	-	-	41	45	43
	Quiet	32	40	41	40	44	42
Net Dimensions (H × W × D)		mm					
Weight		kg(lbs)					
Connection pipe diameter		mm					
Drain hose diameter (I.D./O.D.)		mm					

Note : Specifications are based on the following conditions.

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

Large Airflow Duct (Large type)



Model name		ARXN18GATH	ARXN24GATH	ARXN30GATH	ARXN34GATH	ARXN36GATH	ARXN45GATH
Power source		Single-phase, ~230V, 50Hz					
Capacity	Cooling	5.6	7.1	9.0	10.0	11.2	12.5
	Heating	6.3	8.0	10.0	11.2	12.5	14.0
Input power		W					
Airflow rate	High	154	205	306	432	572	572
	Med	2,280	2,640	3,200	3,720	4,120	4,120
	Low	-	-	-	-	-	-
Static pressure range		Pa					
Standard static pressure		50 to 100					
Sound pressure level	High	50	50	50	50	60	60
	Med	35	37	40	43	45	45
	Low	-	-	-	-	-	-
Net Dimensions (H × W × D)		mm					
Weight		kg(lbs)					
Connection pipe diameter		mm					
Drain hose diameter (I.D./O.D.)		mm					

Note : Specifications are based on the following conditions.

Large Airflow Duct can be connected to V-III series and VR-II series.

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

Large Airflow Duct (Compact type)



Model name		ARXN009GLBH	ARXN012GLBH	ARXN014GLBH	ARXN018GLBH	ARXN024GTBH	ARXN030GTBH
Power source		Single-phase, ~230V, 50Hz					
Capacity	Cooling	2.8	3.6	4.5	5.6	7.1	9.0
	Heating	3.2	4.0	5.0	6.3	8.0	10.0
Input power		W					
Airflow rate	High	88	122	122	173	180	273
	Me-Hi	1,100	1,330	1,330	1,720	2,100	2,700
	Med	-	-	-	-	2,050	2,390
	Me-Lo	1,010	1,240	1,240	1,470	1,860	2,080
	Low	-	-	-	-	1,660	1,770
	Quiet	880	1,100	1,100	1,360	1,470	1,470
Static pressure range		Pa					
Standard static pressure		0 to 50					
Sound pressure level	High	25	25	25	50	50	50
	Me-Hi	32	35	35	36	37	41
	Med	-	-	-	-	35	38
	Me-Lo	30	32	32	33	33	34
	Low	-	-	-	-	31	31
	Quiet	28	29	29	30	28	28
Net Dimensions (H × W × D)		mm					
Weight		kg(lbs)					
Connection pipe diameter		mm					
Drain hose diameter (I.D./O.D.)		mm					

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].

Compact Floor



Model name		AGYA004GCEH	AGYA007GCEH	AGYA009GCEH	AGYA012GCEH	AGYA014GCEH	AGYE004GCEH	AGYE007GCEH	AGYE009GCEH	AGYE012GCEH	AGYE014GCEH		
Power source		Single-phase, ~230V, 50Hz						Single-phase, ~230V, 50Hz					
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	12 / 14		16	17	22	29
Airflow rate	High	380 / 430	470	500	590	670	380 / 430	470	500	590	670		
	Med-H	350	420	450	520	590	350	420	450	520	590		
	Med	320	390	400	470	520	320	390	400	470	520		
	Med-L	310	360	360	420	450	310	360	360	420	450		
	Low	280	330	330	390	390	280	330	330	390	390		
	Quiet	210	270	270	340	340	210	270	270	340	340		
Sound pressure level	High	35 / 36	37	38	42	46	35 / 36	37	38	42	46		
	Med-H	33	35	36	39	42	33	35	36	39	42		
	Med	31	33	34	37	39	31	33	34	37	39		
	Med-L	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 (33)					14.5 (32)						
Connection pipe diameter	Liquid (Flare)	6.35					6.35						
	Gas (Flare)	9.52					9.52						
Drain hose diameter (I.D./O.D.)		13.8/15.8 to 16.7					13.8/15.8 to 16.7						
EV Kit (option)		-					UTR-EV09XB						

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
 Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
 When AGY*004GCEH, AGY*007GCEH, and AGY*009GCEH are connected to the outdoor unit other than J-III, gas pipe diameter should be Ø12.70.

Floor/Ceiling



Model name		ABYA012GTEH	ABYA014GTEH	ABYA018GTEH	ABYA024GTEH
Power source		Single-phase, ~230V, 50Hz			
Capacity	Cooling	3.6	4.5	5.6	7.1
	Heating	4.0	5.0	6.3	8.0
Input power		30		42	74
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)		199 × 990 × 655			
Weight		25 (55)			
Connection pipe diameter	Liquid (Flare)	6.35			
	Gas (Flare)	12.70			
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].

Ceiling



Model name		ABYA030GTEH	ABYA036GTEH	ABYA045GTEH	ABYA054GTEH
Power source		Single-phase, ~230V, 50Hz			
Capacity	Cooling	9.0	11.2	12.5	14.0
	Heating	10.0	12.5	14.0	16.0
Input power		66		85	131
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)		240 × 1,660 × 700			
Weight		46 (101)			
Connection pipe diameter	Liquid (Flare)	9.52			
	Gas (Flare)	15.88			
Drain hose diameter (I.D./O.D.)		25/32			

Note : Specifications are based on the following conditions.

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

Wall Mounted



Model name		ASYA004GTEH	ASYA007GTEH	ASYA009GTEH	ASYE004GTEH	ASYE007GTEH	ASYE009GTEH
Power source		Single-phase, ~230V, 50Hz					
Capacity	Cooling	1.1	2.2	2.8	1.1	2.2	2.8
	Heating	1.3	2.8	3.2	1.3	2.8	3.2
Input power		13		19	34	13	19
Airflow rate	High	430	550	720	430	550	720
	Med-H	420	460	570	420	460	570
	Med	390	420	500	390	420	500
	Med-L	380	390	410	380	390	410
	Low	360	360	360	360	360	360
	Quiet	330	330	330	330	330	330
Sound pressure level	High	31	35	43	31	35	43
	Med-H	30	32	38	30	32	38
	Med	28	30	34	28	30	34
	Med-L	26	27	29	26	27	29
	Low	24	24	24	24	24	24
	Quiet	22	22	22	22	22	22
Net Dimensions (H × W × D)		262 × 820 × 206			262 × 820 × 206		
Weight		7.5 (17)			7.0 (15)		
Connection pipe diameter	Liquid (Flare)	6.35			6.35		
	Gas (Flare)	9.52			9.52		
Drain hose diameter (I.D./O.D.)		13.8/15.8 to 16.7			13.8/15.8 to 16.7		
EV Kit (option)		-			UTR-EV09XB		

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
 Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
 When ASY*004GTEH, ASY*007GTEH, ASY*009GTEH are connected to the outdoor unit other than J-III, gas pipe diameter should be Ø12.70.

Wall Mounted



Model name		ASYA012GCEH	ASYA014GCEH	ASYE012GCEH	ASYE014GCEH
Power source		Single-phase, ~230V, 50Hz			
Capacity	Cooling	3.6	4.0	3.6	4.0
	Heating	4.0	4.5	4.0	4.5
Input power		25		36	25
Airflow rate	High	690	800	690	800
	Med-H	610	740	610	740
	Med	560	680	560	680
	Med-L	530	610	530	610
	Low	470	550	470	550
	Quiet	330	330	330	330
Sound pressure level	High	40	44	40	44
	Med-H	37	42	37	42
	Med	35	40	35	40
	Med-L	33	37	33	37
	Low	30	34	30	34
	Quiet	24	24	24	24
Net Dimensions (H × W × D)		268 × 840 × 203		268 × 840 × 203	
Weight		8.5 (19)		8.5 (19)	
Connection pipe diameter	Liquid (Flare)	6.35		6.35	
	Gas (Flare)	12.70		12.70	
Drain hose diameter (I.D./O.D.)		13.8/15.8 to 16.7		13.8/15.8 to 16.7	
EV Kit (option)		-		UTR-EV14XB	

Note : Specifications are based on the following conditions.

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

Wall Mounted



Model name		ASYA18GBCH	ASYA24GBCH	ASYA030GTEH	ASYA034GTEH
Power source		Single-phase, ~230V, 50Hz			
Capacity	Cooling	5.6	7.1	9.0	10.0
	Heating	6.3	8.0	10.0	11.2
Input power		32		74	103
Airflow rate	High	840	1,100	1,440	1,620 / 1,520
	Med-H	-	-	1,200	1,300
	Med	770	910	1,050	1,120
	Med-L	-	-	940	980
	Low	690	730	890	890
	Quiet	-	-	700	700
Sound pressure level	High	41	48	53	55 / 54
	Med-H	-	-	49	51
	Med	39	43	45	47
	Med-L	-	-	42	43
	Low	35	35	39	39
	Quiet	-	-	33	33
Net Dimensions (H × W × D)		320 × 998 × 238		340 × 1,150 × 280	
Weight		15 (33)		18 (40)	
Connection pipe diameter	Liquid (Flare)	6.35		9.52	
	Gas (Flare)	12.70		15.88	
Drain hose diameter (I.D./O.D.)		12/16		13.8/15.8 to 16.7	

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
 Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].
 When ASYA18GBCH is connected to the outdoor unit other than J-III, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas).

Residential, Commercial & Light Commercial VENTILATION

- 214 VENTILATION Lineup
- 216 Energy Recovery Ventilator
- 218 DX-Kit for Air Handling Application
 - for VRF Outdoor Unit
- 220 **New** DX-Kit for Air Handling Application
 - for Single Split Outdoor Unit

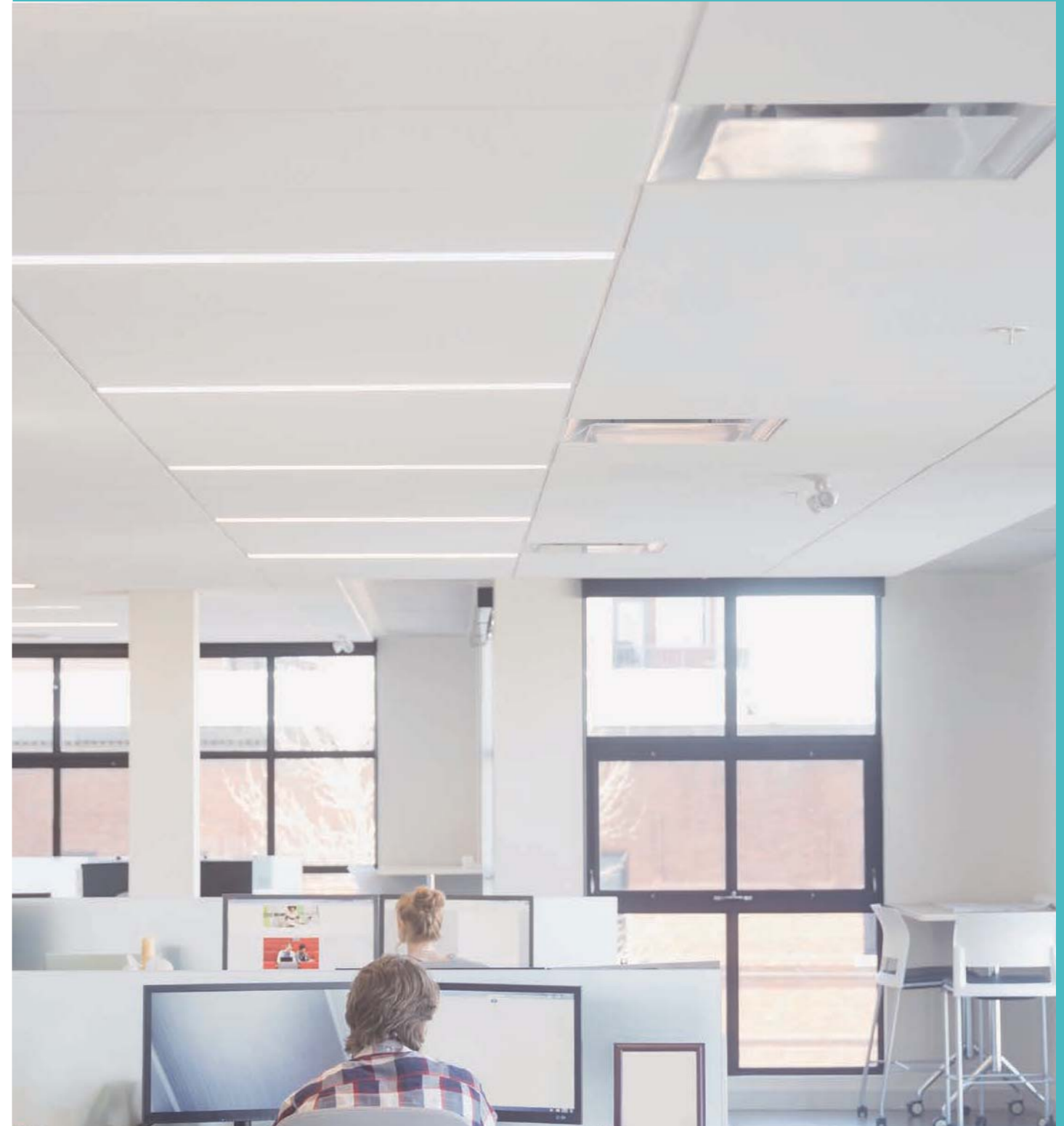


Lineup

Airflow rate (m³/h)	250		350		500		800		1000	
Energy Recovery Ventilator										
	UTZ-BD025C		UTZ-BD035C		UTZ-BD050C		UTZ-BD080C		UTZ-BD100C	
Connectable capacity class (kW)	5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0
DX-Kit for Air Handling Applications for VRF Outdoor Unit										
	EEV unit UTP-VX30A Control unit UTY-VDGX		EEV unit UTP-VX60A Control unit UTY-VDGX		EEV unit UTP-VX90A Control unit UTY-VDGX		EEV unit UTP-VX90A×2 Control unit UTY-VDGX			
Connectable capacity class (kW)	3.5 - 22.0									
DX-Kit for Air Handling Applications for Single Split Outdoor Unit										
	UTY-XDZX									

Effective heat exchange and simultaneous fresh air ventilation

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



Energy Recovery Ventilator



Energy recovery ventilator unit offers maximum comfort and greater energy savings.

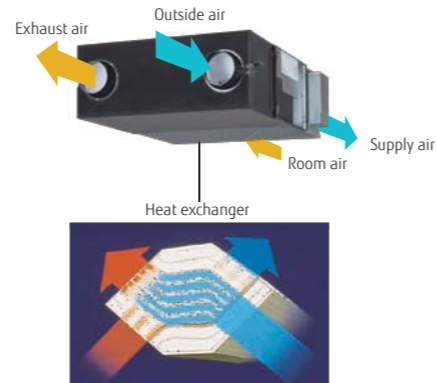
Heat exchange ventilation and normal ventilation

Heat exchange ventilation

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

Normal ventilation

The operation is used during periods when the room space requires no cooling or heating effect, i.e. when there is minimal temperature difference between the indoor and outdoor environments.



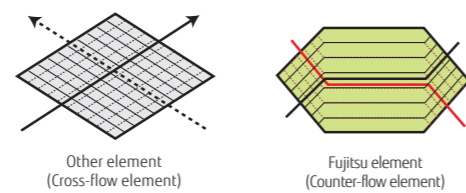
Adopts a highly efficient counter-flow heat exchange element

Energy efficiency and ecology

Energy consumption is dramatically reduced by using a counter-flow heat-exchange element. Air conditioning load is reduced by approximately 20%, resulting in significant energy savings. Recovers up to 77% of the heat in the outgoing air.

Features of heat exchange element

With the cross-flow element, air moves in a straight line across the element. With the counter-flow element, air flows through the element for a longer time (longer distance), so the heat-exchange effect improved.



Quiet operation

Significantly reducing low pressure loss and noise allows low-noise operation.

25.5dB
(UTZ-BD035C)

Extended range of an external static pressure

An external static pressure is improved by adopting a powerful fan motor. This allows for application in a wide variety building.

Slim shape and easier installation

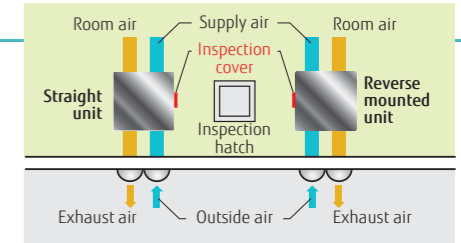
Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.



Reverse mountable direct air supply / exhaust system

Adoption of straight air supply / exhaust system: Duct design is simplified because the air supply / exhaust ducts are straight.

Since each unit can be mounted in reverse position, only one inspection hole is needed for two units: Two units can share one inspection hole so duct work is easier and more flexible.



Simple remote operation

Easy operation by connecting a liquid crystal switch

- POWER ON/OFF
- Air volume High/Low
- Heat exchange/Normal Ventilation
- ON/OFF Timer
- Clean filter display



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



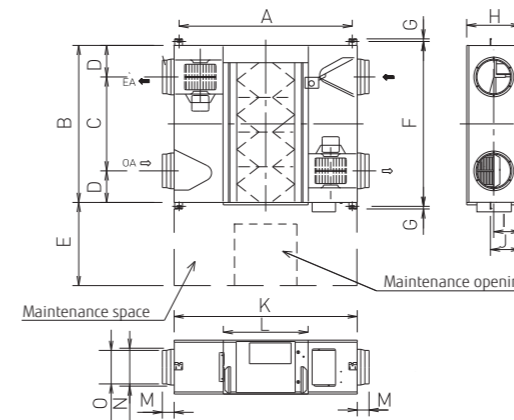
Specifications

Rated flow rate		250 m ³ /h		350 m ³ /h		500 m ³ /h		800 m ³ /h		1000 m ³ /h	
Model No.		UTZ-BD025C		UTZ-BD035C		UTZ-BD050C		UTZ-BD080C		UTZ-BD100C	
Power source		220 - 240 V, 50Hz									
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			
	Air flow rate	(Extra high)/High/Low	m ³ /h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1,000 / 1,000 / 700			
	External static pressure	(Extra high)/High/Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75			
	Temperature Exchange Efficiency	(Extra high)/High/Low	%	75 / 75 / 77	75 / 75 / 78	75 / 75 / 76	75 / 75 / 76	75 / 75 / 79			
	Energy Exchange Efficiency Cooling	(Extra high)/High/Low	%	63 / 63 / 65	66 / 66 / 71	62 / 62 / 64	65 / 65 / 68	65 / 65 / 70			
	Energy Exchange Efficiency Heat pump	(Extra high)/High/Low	%	70 / 70 / 72	69 / 69 / 73	67 / 67 / 69	71 / 71 / 74	71 / 71 / 76			
Normal Ventilation	Sound pressure level	(Extra high)/High/Low	dB*	31.5 / 30.5 / 26.5	33.0/31.0 / 25.5	37.5 / 35.5 / 32.5	37.5 / 37.0 / 34.5	38.5 / 37.5 / 34.5			
	Input power	(Extra high)/High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311			
	Air flow rate	(Extra high)/High/Low	m ³ /h	250 / 250 / 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				
Operation range		°C	-10 to 40	-10 to 40	-10 to 40	-10 to 40	-10 to 40				
Maximum humidity		%	85	85	85	85	85				

* The noise level must be measured 1.5 m below the center of the unit.

Dimensions

(Unit : mm)



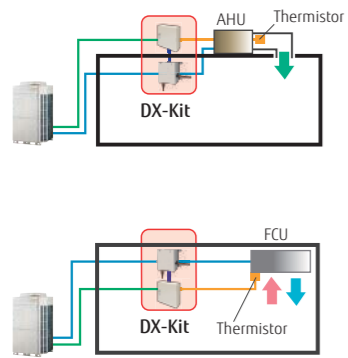
	UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100C
A	810	978	1,018	1,250	1,250
B	599	804	904	884	1,134
C	315	580	640	428	678
D	142	112	132	228	228
E	600	600	600	600	600
F	655	860	960	940	1,190
G	19	19	19	19	19
H	270	317	317	388	388
I	135	159	159	194	194
J	159	182	182	218	218
K	882	1,050	1,090	1,322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



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

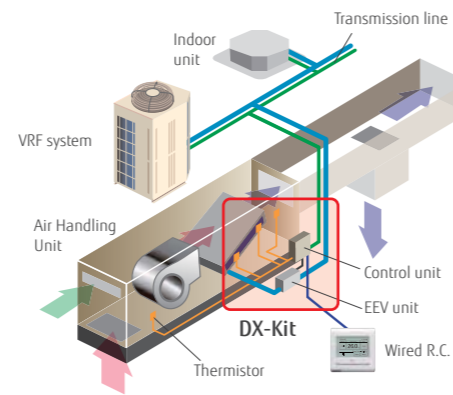
Multiple temperature sensors optimally control the air handling unit and fan coil unit.



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

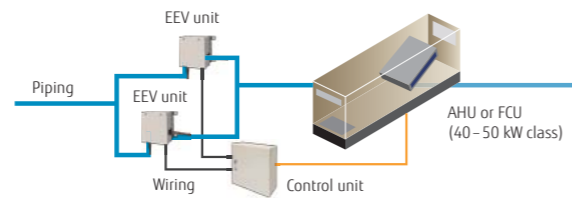
When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

Arrangement as part of a VRF system



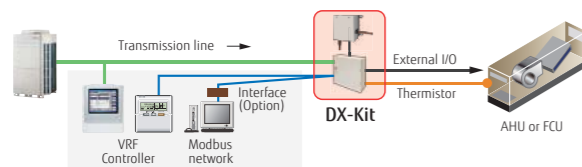
Supports a wide range of capacity classes

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

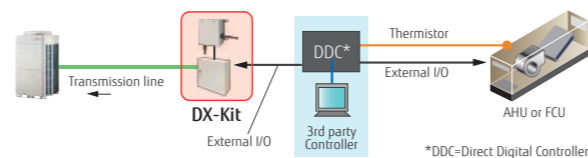


A variety of controls to match the application

Central control using our VRF controllers or central management controllers



Central control from external controllers



*DDC=Direct Digital Controller

Functions Summary

Inputs

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

Outputs

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

MODBUS® Control

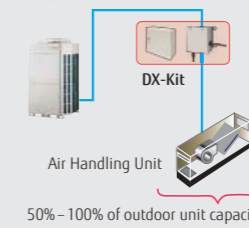
Possible to control via a MODBUS enabled BMS by using optional interface.

Installation Limitation

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

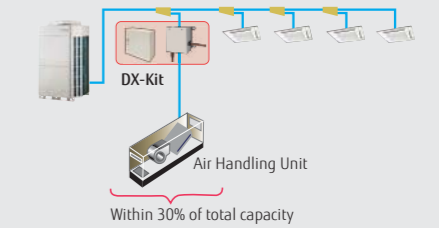
Connectable capacity

• Single connection



50% - 100% of outdoor unit capacity

• Mixed connection



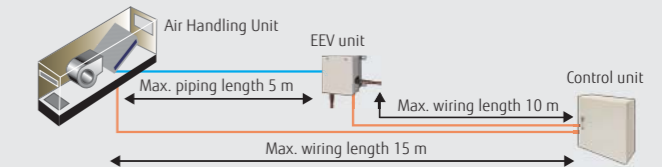
Within 30% of total capacity

50% - 100% of outdoor unit capacity

For 2 EEV units connection (option) Separation Tube: UTP-LX180A



Piping and wiring length



Control unit: UTY-VDGX EEV unit: UTP-VX30A / UTP-VX60A / UTP-VX90A



Specifications

Connectable Capacity class		5.0 kW	6.3 kW	8.0 kW	10.0 kW	12.5 kW	14.0 kW	20.0 kW	25.0 kW	40.0 kW	50.0 kW
Capacity	Cooling	5.6	6.3	8.0	10.0	12.5	14.0	22.4	25.0	40.0	50.4
	Heating	6.3	7.1	9.0	11.2	14.0	16.0	25.0	28.0	45.0	56.5

Control unit		UTY-VDGX	
Power source		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].

NEW

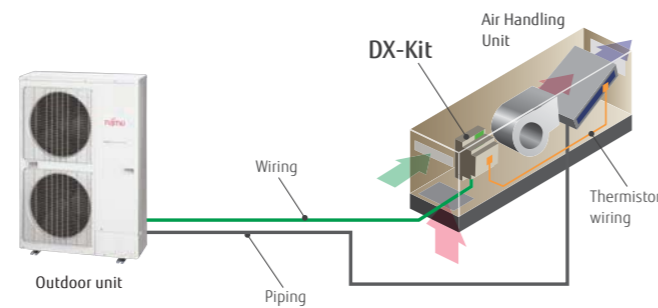
DX-Kit for Air Handling Application for Single Split Outdoor Unit



This kit enables other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu General Split outdoor unit.

Flexible connectivity

This kit is a control unit to allow connection to third party manufacturer equipment. Fujitsu General single split outdoor units can be used with this control unit, creating an ideal solution when a unique air handling unit is required.



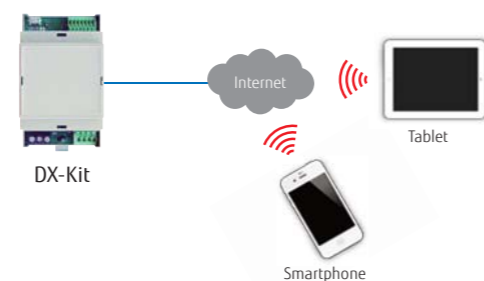
Supports a wide range of capacity class

Connectable large capacity range: 3.5 kW ~ 22.0 kW (Nominal)



Operation from anywhere on your mobile device

Available to use operation and management from remote control such as Smartphones and Tablets



Functions Summary

Inputs

- ON/OFF
- Heating/Cooling operation mode
- Capacity demand (analogue 0-10 V)
- Heat exchanger temperature

Outputs

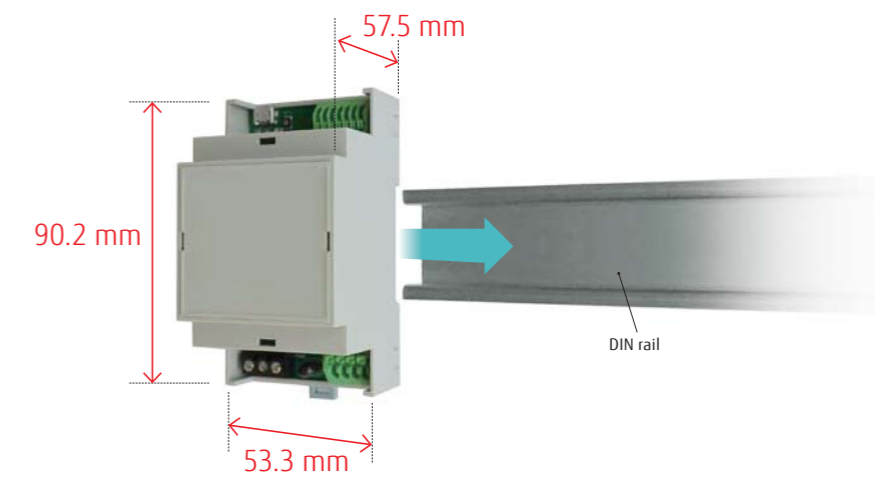
- Status of Compressor, Defrost, Error (Potential free relays)
- LED status indication

Wireless LAN Control

Wireless LAN control with cloud connectivity enables safe remote monitoring and control from anywhere.

Easy installation

- Simple installation through compact DIN rail mountable enclosure
- No need for expansion device
- No separate external power required



model: UTY-XDZX



Specifications

BTU	Capacity (Nominal)													
	Cooling	Heating	kW	12	14	18	24	30	36	45	54	60	72	90
				3.5	4.3	5.2	6.8	8.5	9.4	12.1	13.3	15.0	19.0	22.0
				4.1	5.0	6.0	7.8	10.0	10.8	13.3	15.8	18.0	22.4	27.0
Model No.		UTY-XDZX												
Power source		V/Ø/Hz		230/1/50										
Dimensions (H × W × D)		mm		90.2 × 53.3 × 57.5										
Weight		g		110										

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 5.0 m Voltage: 230 [V].

Light Commercial & Commercial, Residential CONTROL SYSTEM & OPTIONAL PARTS

- 224 Control System Overview
- 228 Best Control Solution for Each Property
- 230 Comparison Table of Controllers
- 264 Optional Parts Overview



CONTROL SYSTEM



INDIVIDUAL CONTROL

- 232 Wired Remote Controller (Touch Panel)
- 233 Wired Remote Controller
- 234 Simple Remote Controller

CONVERTOR/ADAPTOR

- 235 MODBUS® Convertor
KNX® Convertor
- 236 **New** Wireless LAN Interface
- 237 External Switch Controller
- 238 Network Convertor for Single Split



INDIVIDUAL CONTROL

- 239 Wired Remote Controller
- 240 Wireless Remote Controller
- 241 IR Receiver Unit

CENTRALIZED CONTROL

- 242 Central Remote Controller

CONVERTOR/ADAPTOR

- 243 MODBUS® Interface
KNX® Interface
- 244 Wireless LAN Interface



INDIVIDUAL CONTROL

- 245 Wireless Remote Controller
IR Receiver Unit
* For 3D Flow Cassette **New**

CENTRALIZED CONTROL

- 246 Group Remote Controller/
Network Convertor
- 247 **New** Central Remote Controller
- 248 Touch Panel Controller
- 252 System Controller **Software**
- System Controller Lite **Software**

CONVERTOR/ADAPTOR

- 256 BACnet® Gateway **Software**
- 257 BACnet® Gateway **Hardware**
Network Convertor for LONWORKS®
- 258 MODBUS® Convertor
KNX® Convertor
- 259 Signal Amplifier

-
- 260 Control System List

OPTIONAL PARTS



- 266 Auto Louver Grille Kit
- 267 **New** External Power Supply Unit
-
- 268 Optional Parts List
- 272 Function List
- 276 Separation Tube etc.



SPLIT



MULTI SPLIT



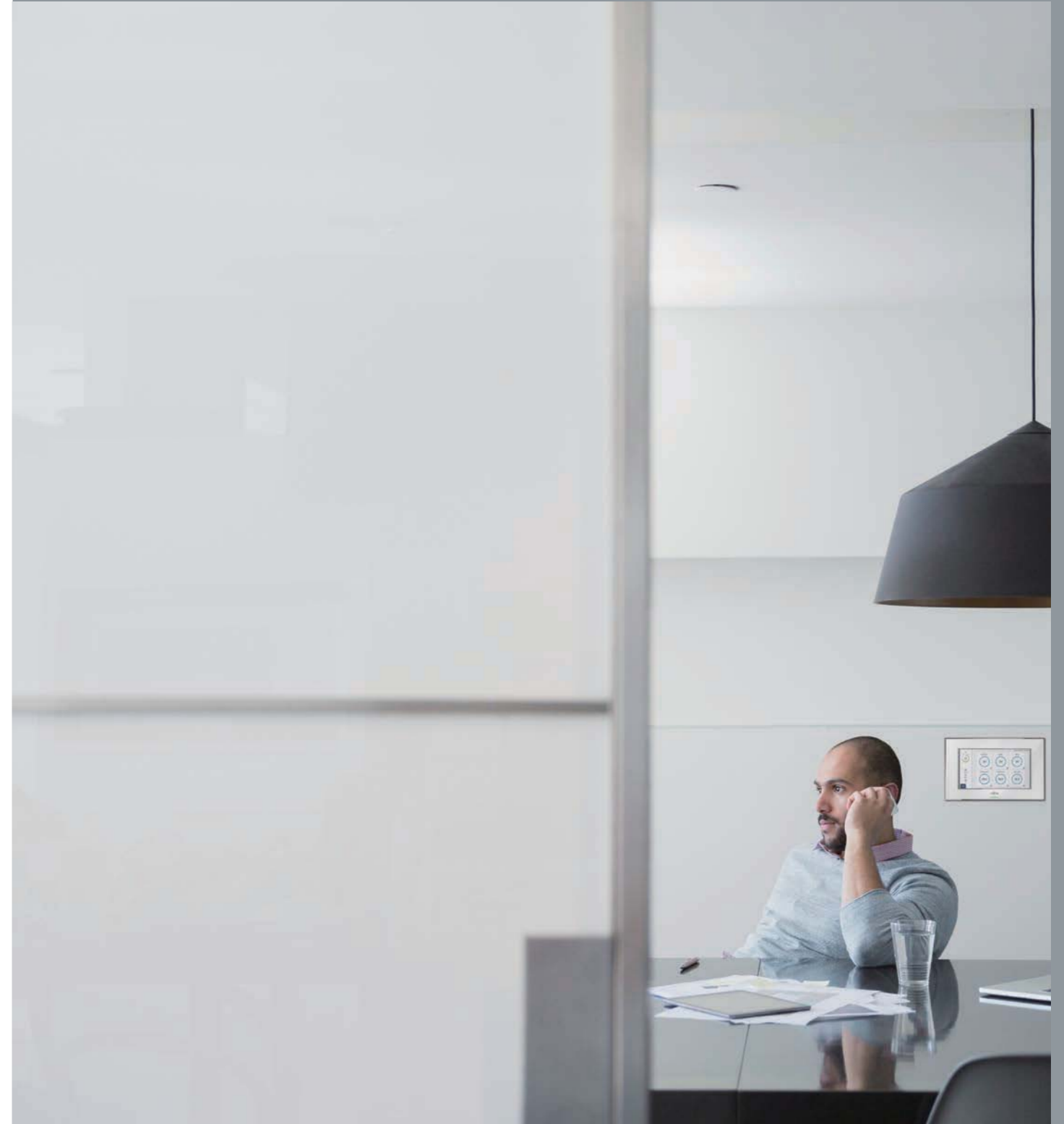
VRF J-Series



VRF V-Series

Wide product lineup to meet a variety of needs

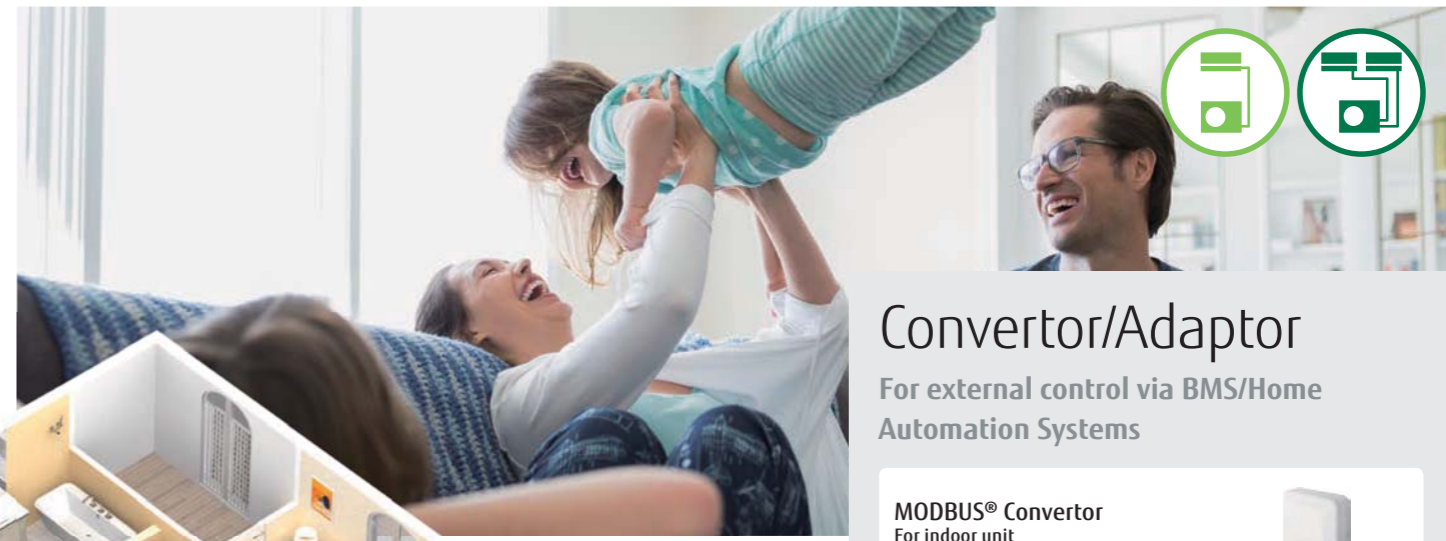
We can flexibly meet customer needs through a variety of offerings including wired and wireless individual remote controllers, central remote controllers that simultaneously control multiple indoor units, and a variety of convertors that link with other systems.



Control System Overview

For Split & Multi Split

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



Air Conditioning Individual Control



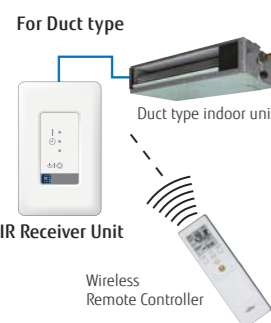
Wired Remote Controller
The room temperature can be controlled by detecting the temperature accurately from the built-in sensor



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



Simple Remote Controller
Compact remote controller provides access to basic functions



Converter/Adaptor

For external control via BMS/Home Automation Systems

MODBUS® Converter
For indoor unit
UTY-VMSX



MODBUS® Interface
For indoor unit
FJ-RC-MBS-1



KNX® Converter
For indoor unit
UTY-VKSX



KNX® Interface
For indoor unit
FJ-RC-KNX-1i



Wireless LAN Interface
FJ-RC-WIFI-1



Network Converter

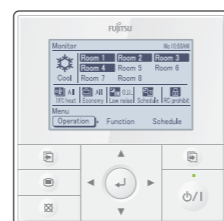
(DC power supply)
UTY-VTGX



(AC power supply)
UTY-VTGXV



Air Conditioning Centralized Control



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

Online Control (Wireless Control via Smart Phone/Tablet)

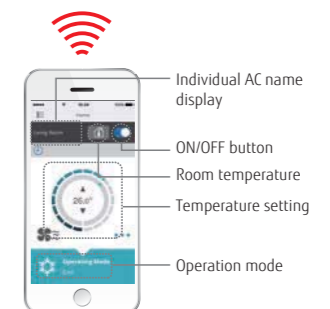
By using our Wireless LAN Interface and FGLair app, you can control your home's cooling and heating anytime and anywhere.

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



User friendly app

User friendly screen display facilitates easy operation.



Control System Overview

For VRF

User's needs are supported by offering a variety of controls, such as individual control, central control and building management control options.

Air Conditioning Individual Control



Wired Remote Controller (Touch panel)
UTY-RNRYZ3



Wired Remote Controller
UTY-RLRY



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



Wireless Remote Controller
UTY-LNHY



For Duct
New
For 3D Flow Cassette/Duct

IR Receiver Unit
UTB-YWC For Duct

NEW
UTY-TRHX
For 3D Flow Cassette/Duct



For Cassette For Circular Flow Cassette

UTY-LRHYB1 For Cassette
UTY-LBHxD
For Circular Flow Cassette

Air Conditioning Centralized Control



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

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



Touch Panel Controller
UTY-DTGYZ1



NEW
Central Remote Controller
UTY-DCGYZ1



Group Remote Controller
UTY-CGGY



Network Converter (For Group Remote Controller)
UTY-VGGXZ1



Converter/Adaptor

For external control via BMS/Home Automation Systems

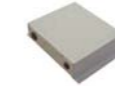
BACnet® Gateway
UTY-ABGXZ1 **Software**



BACnet® Gateway
UTY-VBGX **Hardware**



Network Converter (For LONWORKS®)
UTY-VLGX



MODBUS® Converter For indoor unit
UTY-VMSX



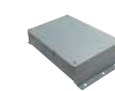
MODBUS® Converter
UTY-VMGX



KNX® Converter For indoor unit
UTY-VKSX



KNX® Converter For VRF
UTY-VKGX



Wireless LAN Interface
UTY-TFSXZ1



External Switch Controller
UTY-TERX



Card-key
(Locally purchased)



Converter/Adaptor

For system expansion

Network Converter (DC power supply)
UTY-VTGX



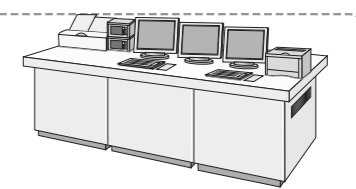
Network Converter (AC power supply)
UTY-VTGXV



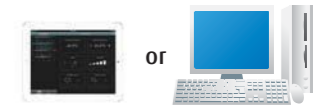
Signal Amplifier
UTY-VSGXZ1



BMS/BAS*



BMS, Home automation system*

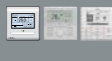









*3: BMS/BAS: Building Management System/Building Automation System













Best Control Solution for Each Property

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











SHOP

Type	Individual Control	Centralized Control				Integrating Control (Interface)		
								
	Wired Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	Network Converter for LONWORKS®	MODBUS® Converter	KNX® Converter
	UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM	UTY-CGGY	UTY-DCGYZ1	UTY-DTGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-VLGX	UTY-VMGX	UTY-VKGX
Automatic control of A/C (Schedule timer, Weekly timer etc.)	●	●	●	●	●			
Limited control for staff (RC Prohibition, Room temp set point limitation etc.)			●	●	●	●	●	●
Group Control		●	●	●	●			
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)					●			
Remote Management			●	●	●			
Manage multiple sites			●	●	●			
Monitor energy consumption					●			
Control third party products					●			
Integrate FGL A/C into BMS						●	●	●















HOTEL

Type	Individual Control			Centralized Control				Integrating Control (Interface)				
												
	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	Network Converter for LONWORKS®	MODBUS® Converter	KNX® Converter	External Switch Controller
	UTY-RNRYZ3, UTY-RLRY, UTY-RVNYM	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-LNHY, UTY-LNTY, UTY-LNTX	UTY-CGGY	UTY-DCGYZ1	UTY-DTGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMGX	UTY-VKGX	UTY-TERX
Local control for hotel guest	●	●	●									
Centralized A/C control for common space				●	●	●	●	●	●	●	●	
Limited control for hotel guests					●	●	●	●	●	●	●	
Remote Management					●	●	●					
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)							●	●				
Monitor energy consumption							●					
Control third party products							●					
Integrate FGL A/C into BMS								●	●	●	●	
Interlock with window contact												●
Interlock with key-card												●

OFFICE

Type	Individual Control			Centralized Control				Integrating Control (Interface)				
												
	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	Network Converter for LONWORKS®	MODBUS® Converter	KNX® Converter	External Switch Controller
	UTY-RNRYZ3, UTY-RLRY	UTY-RSRY, UTY-RHRY, UTY-RSNYM	UTY-LNHY, UTY-LNTY, UTY-LNTX	UTY-CGGY	UTY-DCGYZ1	UTY-DTGYZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMGX	UTY-VKGX	UTY-TERX
Local control for office staff	●	●	●	●	●							
Automatic control of A/C (Schedule timer, Weekly timer etc.)	●		●	●	●	●	●	●				
Centralized A/C control for management						●	●	●	●	●	●	
Limited control for office staff (RC Prohibition, Room temp set point limitation etc.)					●	●	●	●	●	●	●	
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)							●	●				
Remote Management					●	●	●					
Energy Charge Apportionment						●	●	●				
Monitor energy consumption							●					
Control third party products							●					
Integrate FGL A/C into BMS								●	●	●	●	
Interlock with door contact												●
Interlock with human sensor for meeting room												●

Comparison Table of Controllers

Item																						
	Wired Remote Controller (Touch panel)	Wired Remote Controller	Wired Remote Controller	Simple Remote Controller	Simple Remote Controller	Simple Remote Controller*1	Wireless Remote Controller	Wireless Remote Controller	Central Remote Controller (For 8 rooms Multi)	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller Lite <small>Software</small>	System Controller <small>Software</small>								
Model name	UTY-RNRYZ3	UTY-RLRY	UTY-RVNYM	UTY-RSNYM	UTY-RSRY	UTY-RHRY	UTY-LNHY	UTY-LNTY, UTY-LNTX	UTY-DMMYM	UTY-CGGY	UTY-DCGYZ1	UTY-DTGYZ1	UTY-ALGXZ1	UTY-APGXZ1								
Max. controllable remote controller groups	1	1	1	1	1	1	1	1	1	8	100	400	400	1600								
Max. controllable indoor units	16	16	16	16	16	16	16	16	8	128	100	400	400	1600								
Max. controllable groups	-	-	-	-	-	-	-	-	-	-	50	400	400	1600								
Air conditioning control function	On / Off	●	●	●	●	●	●	●	●	●	●	●	●	●								
	Operation mode setting	●	●	●	●	●	-	●	●	●	●	●	●	●								
	Fan speed setting	●	●	●	●	●	●	●	●	●	●	●	●	●								
	Room temp. setting	●	●	●	●	●	●	●	●	●	●	●	●	●								
	Room temp. set point limitation	●	●	●	-	●	●	-	-	-	●	●	●	●								
	Test operation	●	●	●	●	●	●	●	●	-	-	●	-	-								
	Up/down air direction flap setting	●	●	●	-	●	●	●	●	-	-	●	●	●								
	Right/left air direction flap setting	●	●	●	-	-	-	●	-	-	-	●	●	●								
	Individual louver control	●	-	-	-	-	-	-	-	-	●*3	●	-	-								
	Group setting	-	-	-	-	-	-	-	-	-	-	●	●	●								
	RC prohibition	-	-	-	-	-	-	-	-	●	-	●	●	●								
	Anti freeze setting	●	-	-	-	-	-	-	-	-	-	●	●	●								
	Set temp. auto return	●	●	●	-	-	-	-	-	-	-	-	-	-								
	Economy mode setting	●	●	●	-	-	-	●	●	●	-	●	●	●								
	Human sensor control	●	-	-	-	-	-	-	-	●	-	-	●	●								
Display	Error	●	●	●	●	●	-	-	●	●	●	●	●	●								
	Defrosting	●	●	●	●	●	-	-	-	-	●	●	●	●								
	Current time	●	●	●	-	-	-	●	●	●	●	●	●	●								
	Day of week	●	●	●	-	-	-	-	-	-	●	●	●	●								
	R.C. prohibition	●	●	●	●	●	●	-	-	●	●	●	●	●								
	Address display	●	●	●	●	●	●	-	-	-	●	-	●	●								
	Room temp	●	-	●	-	●	●	-	-	-	●	●	-	-								
	Multi language	●	-	●	-	-	-	-	-	●	-	●	●	●								
	Summer time	●	-	●	-	-	-	-	-	●	-	●	●	●								
	Name registration	●	-	-	-	-	-	-	-	-	-	●	●	●								
	Backlight	●	-	●	●	●	●	-	-	●	-	●	-	-								
	2D floor layout / 3D building display	-	-	-	-	-	-	-	-	-	-	-	-	●								
	Refrigerant leakage detection function	-	-	-	-	-	-	-	-	-	●	●	●	●								
	Timer	Schedule timer	Period	Week	Week	Week	-	-	-	Week	Week	Week	Year	Year	Year							
			On/off, Temp, Mode, Times per day	8	4	8	-	-	-	4	4	20	20	144	144							
On/off timer		●	●	●	-	-	-	●	●	-	-	-	-	-								
Sleep timer		-	-	-	-	-	-	●	●	-	-	-	-	-								
Program timer		-	-	-	-	-	-	●	●	-	-	-	-	-								
Auto off timer		●	●	●	-	-	-	-	-	-	●	●	-	-								
Control	Day off	●	●	●	-	-	-	-	●	-	●	●	●	●								
	Min. unit of timer setting (Minutes)	10 • 30	30	30	-	-	-	5	5	5	10	10	10	10								
	Status monitoring system	-	-	-	-	-	-	-	-	-	●	●	●	●								
	Electricity charge apportionment	-	-	-	-	-	-	-	-	-	-	○	○	●								
	Error history	●	●	●	-	-	-	-	-	●	●	●	●	●								
	Emergency stop	-	-	-	-	-	-	-	-	-	●*2	●*2	-	-								
	Remote management	-	-	-	-	-	-	-	-	-	●	●	○	●								
	Energy saving management	-	-	-	-	-	-	-	-	-	-	-	○	○								
	E-mail notification for malfunction	-	-	-	-	-	-	-	-	-	●	●	●	●								
	Key lock	● Child lock	● Child lock	● Child lock	-	-	-	-	-	● Child lock	● Child lock	● Password setting	● Password setting	● Password setting	● Password setting							
Low noise mode	-	-	-	-	-	-	-	-	●	-	●	●	●									

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

Wired Remote Controller (Touch Panel)

UTY-RNRYZ3



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

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

Max. Controllable
16 indoor units

Max. Controllable
1 Group

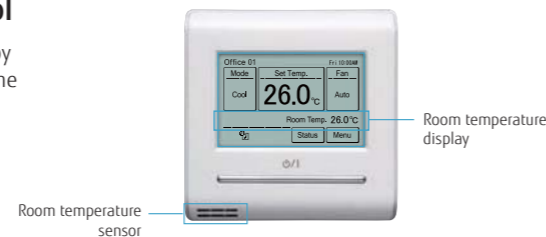
High performance and compact size

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



Accurate and comfortable control

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



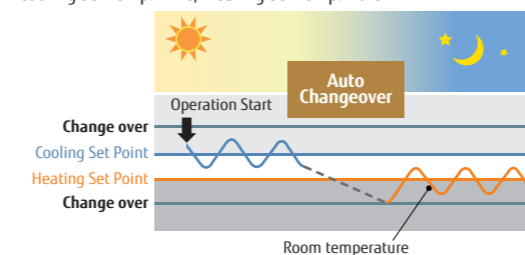
Various energy saving control

Custom Auto

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

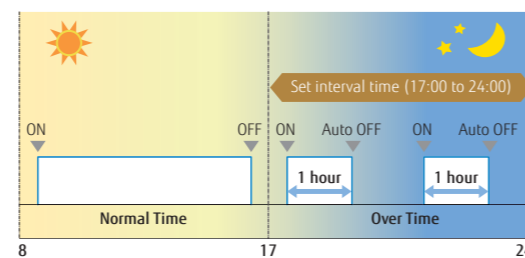
* This function is not available for some models.

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



Auto OFF timer

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



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

2 schedules Weekly Timer

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

Specifications

Model name	UTY-RNRYZ3
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 20.4
Weight (g)	220

DC 12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RLRY



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

Max. Controllable
16 indoor units

Max. Controllable
1 Group

High performance and compact size

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



High visibility and easy operation

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



Specifications

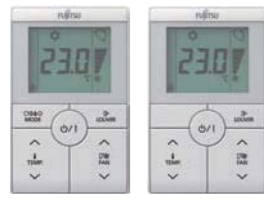
Model name	UTY-RLRY
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 17
Weight (g)	170

DC 12 V is supplied by the indoor unit.



Simple Remote Controller

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



Without operation mode

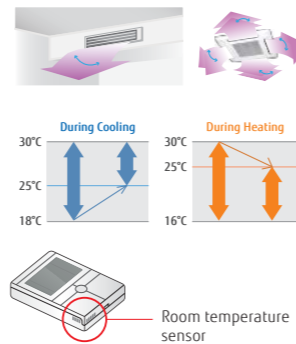
Compact remote controller provides access to basic functions

- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Stylish design: Simple design to match the stylish interior.
- Large LCD screen & simple operation buttons
- Backlight: White colored backlight on monitor enable easy operation in dark.
- 2-wire type

Max. Controllable
16 indoor units
Max. Controllable
1 Group

Corresponding to various applications

- **Vertical louver control:** Vertical air flow direction can be adjusted for Duct types with auto louver and Cassette types, which are installed in hotels and conference rooms, can be adjusted.
- **Room temperature set point limitation:** The Simple Remote Controller can manage to energy saving operation in small buildings without the central control unit.
- **Built in room temperature sensor:** The Simple Remote Controller detects actual room temperature and controls room climate accuracy.



Simple Remote Controller

UTY-RSNYM, UTY-RSKY/UTY-RHKY (Without operation mode)



Without operation mode

Compact remote controller provides access to basic functions

- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Backlight enables easy operation in a darkened room.
- 3-wire type

Max. Controllable
16 indoor units
Max. Controllable
1 Group

Easy-to-use operation

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

Specifications

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

DC 12 V is supplied by the indoor unit.

MODBUS® Convertor for Indoor Unit

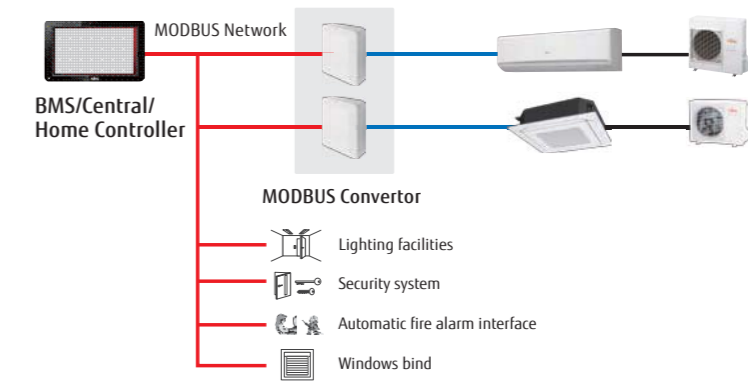
UTY-VMSX



Max. Connectable
1 Single indoor unit

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

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

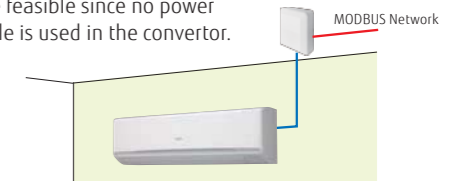


Basic control

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

Easy Installation

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



KNX® Convertor for Indoor Unit

UTY-VKSX



Max. Connectable
1 Single indoor unit

KNX Convertor is useful for individual control of indoor.

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



Specifications

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

Modbus communication specifications

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

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

Wireless LAN Interface

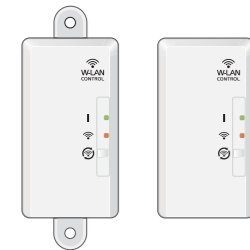
UTY-TFNXZ1 / UTY-TFSXZ1, UTY-TFSXW1, UTY-TFSXF2



NEW

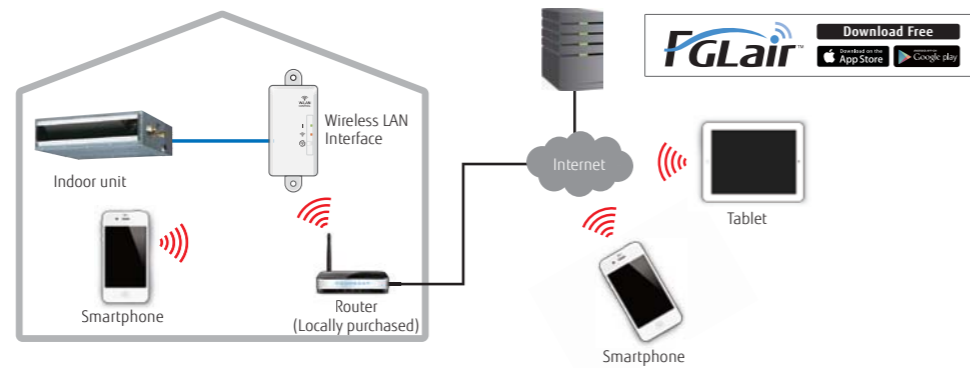


USB type for single split models UTY-TFSXF2



UTY-TFNXZ1 / UTY-TFSXZ1, UTY-TFSXW1

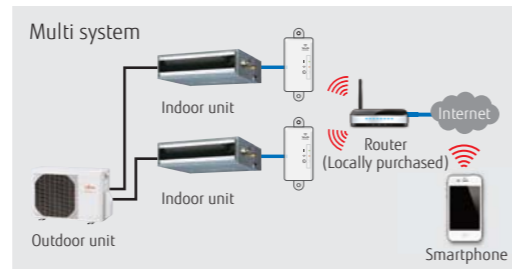
- It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, and tablets.
- No separate external power supply required
- Can be used for single indoor units and multi system indoor units



Max. Connectable
1 Single indoor unit

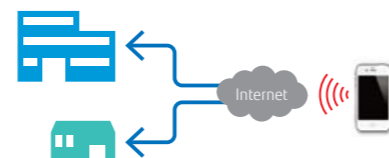
Basic control

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



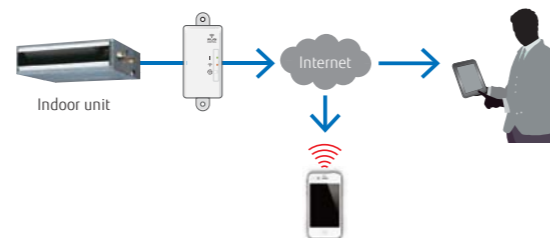
Multiple air conditioning management

- Multiple air conditioning management at difference locations.



Error display & E-mail notification

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



NEW Wireless LAN Interface (USB type) UTY-TFSXF2

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



Specifications

Model name	UTY-TFNXZ1 / UTY-TFSXZ1	UTY-TFSXW1	UTY-TFSXF2
Dimensions (H × W × D) (mm)	71 × 38 × 15	71 × 38 × 15	56.7 × 34 × 9.72
Weight (g)	35	35	30

External Switch Controller

UTY-TERX



Max. Controllable
1 group

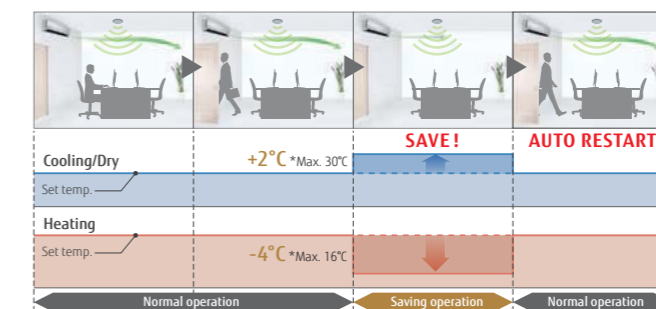
Air conditioner switching can be controlled by connecting other sensor switches

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



Installation example

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



Human sensor equipment needs to be purchased locally. Human sensor is not mounted on the External Switch Controller.



Specifications

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

DC 12 V is supplied by the indoor unit.

Network Converter for Single Split

UTY-VTGX / UTY-VTGXV



UTY-VTGX
DC power supply type

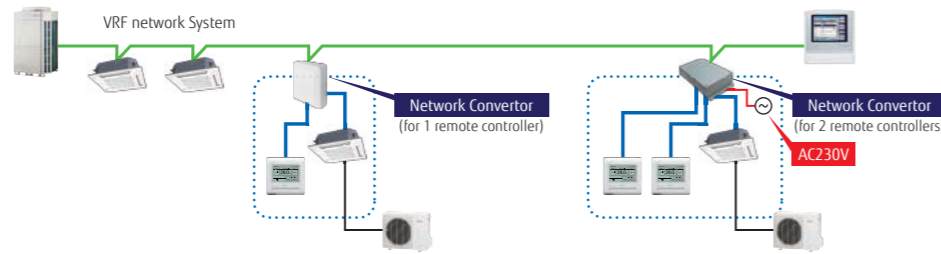


UTY-VTGXV
AC power supply type

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

Installation example.

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

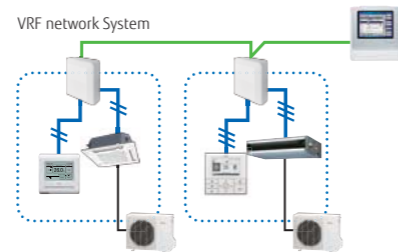


Max. Controllable
16
single indoor units

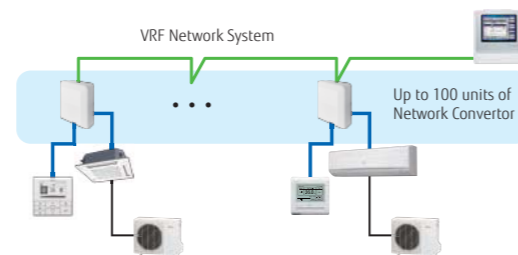
Max. Controllable
1 Group

Max. Controllable
100
Network Convertors

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



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



Specifications

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

Wired Remote Controller

UTY-RVNYM



Max. Controllable
16 indoor units

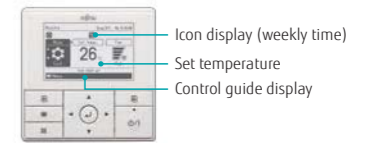
Max. Controllable
1 Group

Hi-grade individual control using various functions.

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

High visibility and Easy operation

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



High performance and compact size

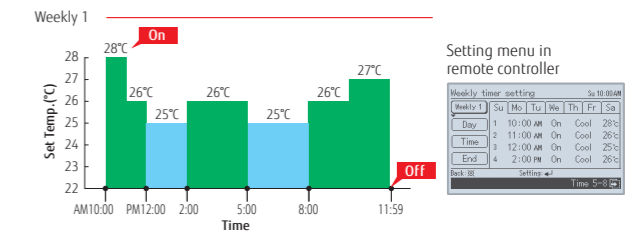
- In addition to the individual control, various energy saving controls can be realized using only one remote controller.



Various energy saving control

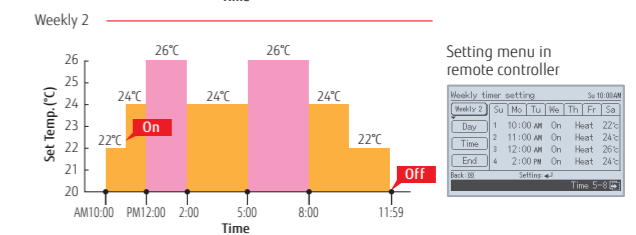
Weekly Timer function

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



Auto OFF Timer

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



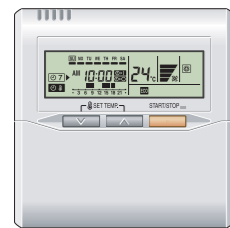
Specifications

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

DC 12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RNNYM

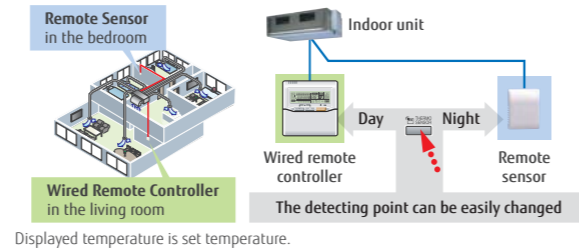


- Simple operation with Built-in Weekly / Daily Timer.
- Control up to 16 indoor units.
- Up to 2 wired remote controllers can be connected to a single indoor unit.

Accurate and comfortable

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

Example of changing sensor



Max. Controllable
16 indoor units

Max. Controllable
1 Group

Built-in timers

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

Wireless Remote Controller

UTY-LNTY, UTY-LNTX



Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

Built-in timers

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

Easy installation and operation

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

Max. Controllable
1 indoor units

Max. Controllable
16 Group

Selectable
4 daily timers

Specifications

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

DC 12 V is supplied by the indoor unit.

IR Receiver Unit for Duct

UTY-LRHYM, UTY-LBTYM

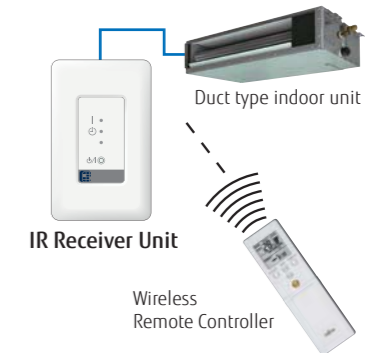


UTY-LRHYM



UTY-LBTYM

Duct type indoor units can be controlled with Wireless Remote Controller



IR Receiver Unit for Cassette

UTY-LRHYA2, UTY-LBTYC



UTY-LRHYA2



UTY-LBTYC

Cassette type indoor unit can be controlled with Wireless Remote Controller



Specifications

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

DC 12 V is supplied by the indoor unit.

Central Remote Controller

UTY-DMMYM



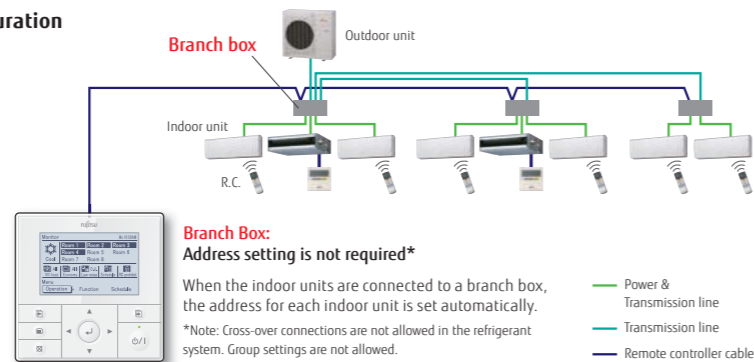
For 5-6 Rooms Multi, 8 Rooms Multi

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

Max. Controllable
1 multi system

Max. Controllable
8 indoor units

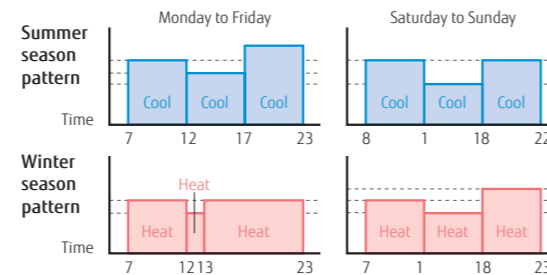
System configuration



Central Remote Controller Functions

Weekly schedule timer

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



Low noise operation

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

10°C heat operation

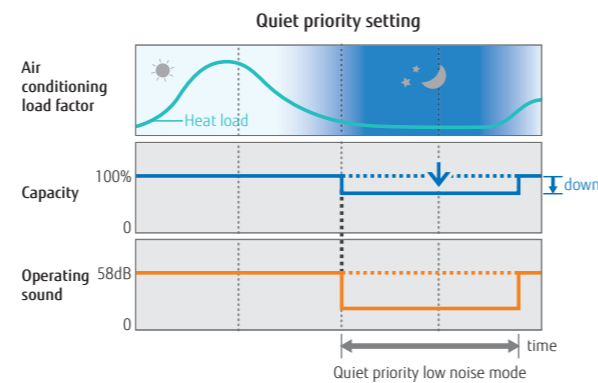
When you leave, minimum heating operation is performed to maintain the room temperature (maintain at 10°C).

Economy operation

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

Prohibited Settings

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



Specifications

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

DC 12 V is supplied by the indoor unit.

MODBUS® Interface

FJ-RC-MBS-1



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

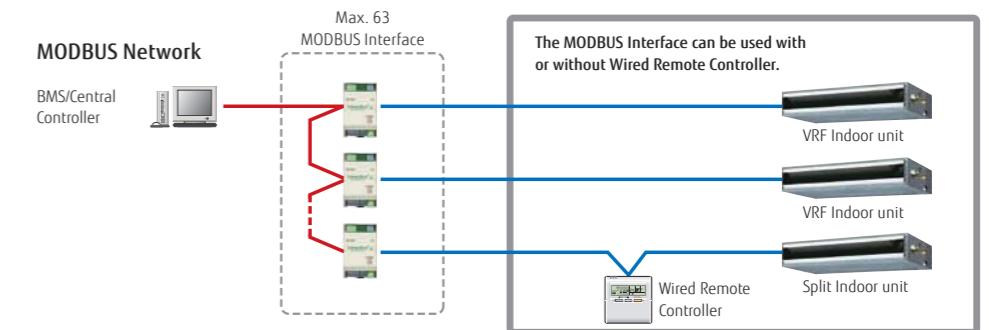
- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS Interface permits central monitoring and control of air conditioners from BMS.

Max. Connectable

1 Single indoor unit

Max. Controllable

1 Group



KNX® Interface

FJ-RC-KNX-1i



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

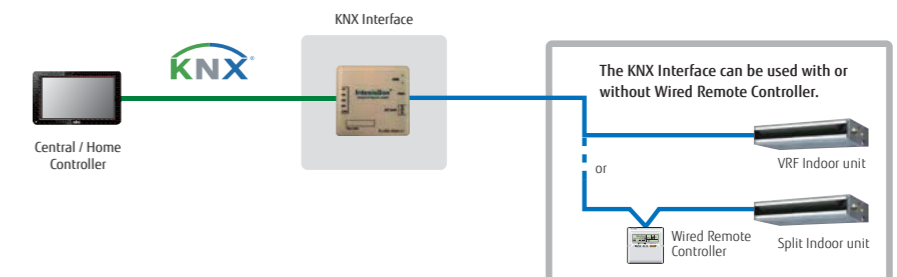
- Simple installation due to small and compact size.
- No separate external power supply required (just KNX bus power).
- Can be used for single indoor units and group controlled (up to 16) indoor units.

Max. Connectable

1 Single indoor unit

Max. Controllable

1 Group



Specifications

Model name	FJ-RC-MBS-1	FJ-RC-KNX-1i
Dimensions (H × W × D) (mm)	93 × 53 × 58	70 × 70 × 28
Weight (g)	85	70

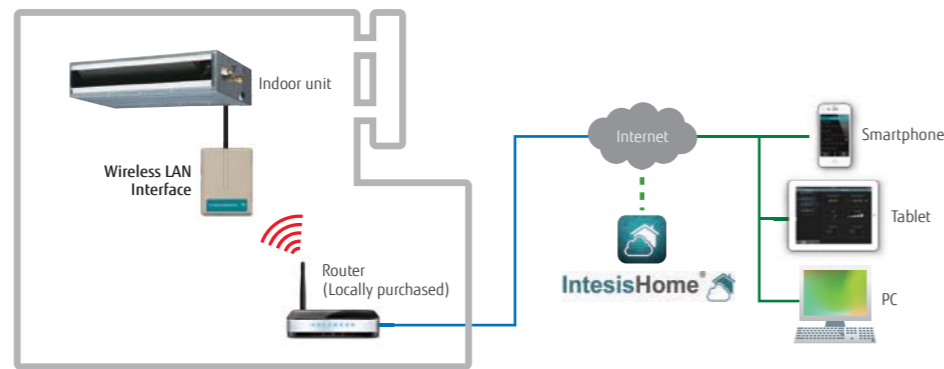
Wireless LAN Interface

FJ-RC-WIFI-1



- It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, Tablets and PC
- No separate external power supply required
- Can be used for single indoor units and group controlled (up to 16) indoor units

Max. Connectable
1 Single indoor unit
Max. Controllable
1 Group



Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Louver position (Airflow direction setting)
- Room temperature display
- Set temperature control
- Multi Language
- One Scene and Timer



(Application screen image)

Advanced control (Optional functions)

- Climate working modes (ECO, Comfort, Powerful) (future release)
- Schedule functions (ON/OFF, Modes, Set point temperature, Fan Speed, Louver position)
- Set temperature limitation (future release)
- Multiple Scenes & Timers and Calendar function

Notifications and history

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

Specifications

Model name	FJ-RC-WIFI-1
Dimensions (H × W × D) (mm)	108 × 70 × 28
Weight (g)	80

Wireless Remote Controller

UTY-LNHY



Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

Built-in timers

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

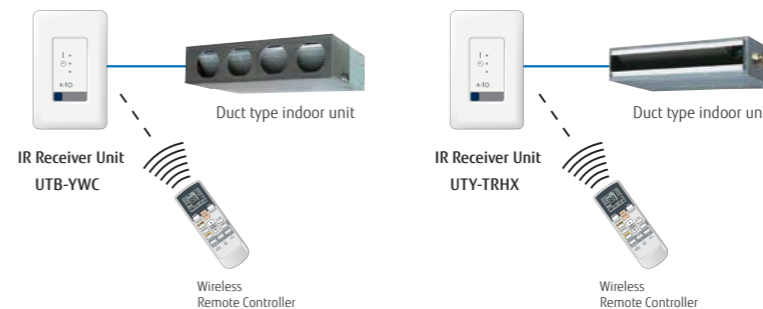
Max. Controllable
16 indoor units
Max. Controllable
1 Group
Selectable
4 daily timers

Easy installation and operation

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

IR Receiver Unit for Duct

UTB-YWC, UTY-TRHX



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

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

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

IR Receiver Unit for Cassette

UTY-LRHYB1, UTY-LBHxD, UTY-TRHX



Cassette type indoor unit can be controlled with Wireless Remote Controller

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

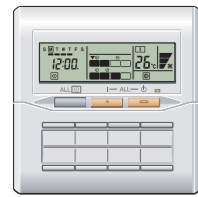
Specifications

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

DC 12 V is supplied by the indoor unit.

Group Remote Controller/Network Converter

UTY-CGGY / UTY-VGGXZ1



Group Remote Controller UTY-CGGY



Network Converter UTY-VGGXZ1 For Group Remote Controller

Max. Controllable **8** remote controller groups

Max. Controllable **92** indoor units in **8** Groups

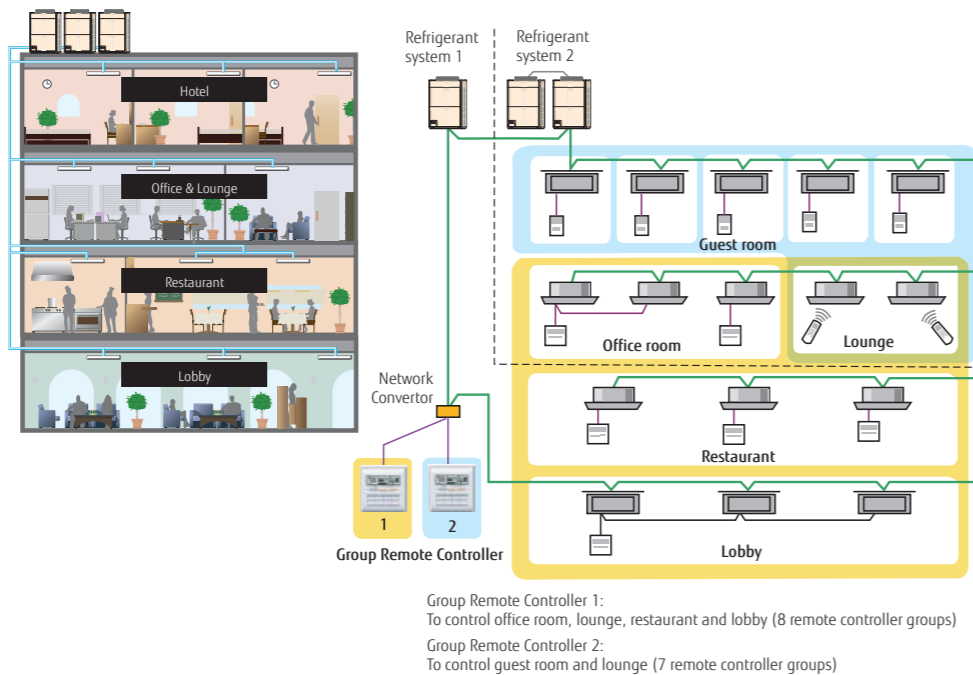
Max. Controllable **2** refrigerant circuits

Group control of indoor units with simple operation

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

Control up to 8 remote controller groups

- Single Group Remote Controller controls and monitors up to 8 remote controller groups.



High performance and compact size

ON / OFF, Operating mode, Room temperature and Fan speed setting can be controlled / monitored centrally or individually.



Built-in weekly timers

The weekly timer is provided as a standard function.

Specifications

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

DC 12 V is supplied by the indoor unit.

Model name	UTY-VGGXZ1
Power Supply	208-240 V 50/60 Hz, Single phase
Power Consumption (W)	6.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500

Central Remote Controller

UTY-DCGYZ1



NEW

Max. Controllable **100** indoor units

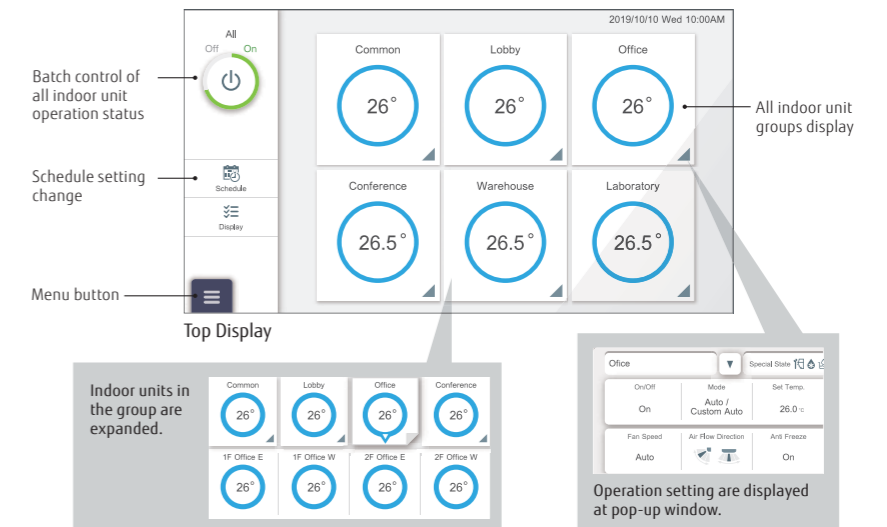
Max. Controllable **50** groups

For small- and medium-sized buildings and tenants

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

Easy operation

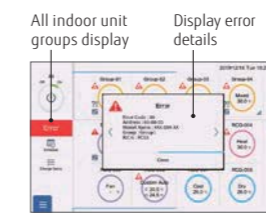
- The new central remote controller realized an intuitive operation feeling by touch panel operation.
- All functions can be accessed from the top screen and the following operations are displayed at pop-up window.



Trouble support function

Display error details

Display descriptive explanation when an error occurs



Sensor value monitoring function

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

Notify room temperature by email

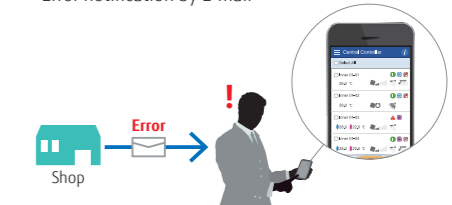
Notify by e-mail when the temperature around the air conditioner is too high or too low

Remote monitoring / Remote operation

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

Example

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



Specifications

Model name	UTY-DCGYZ1
Power Supply	100-240 V 50/60 Hz
Dimensions (H × W × D) (mm)	134.6 × 216.2 × 37.9
Weight (g)	800

Touch Panel Controller

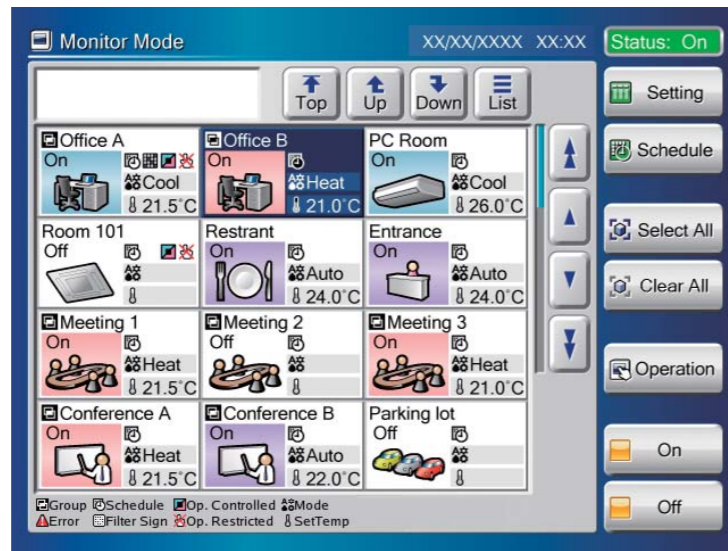
UTY-DTGYZ1



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

Easy Operation

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



Max. Controllable
400 indoor units

Max. Controllable
100 outdoor units

Max. Controllable
400 groups

Easy maintenance

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

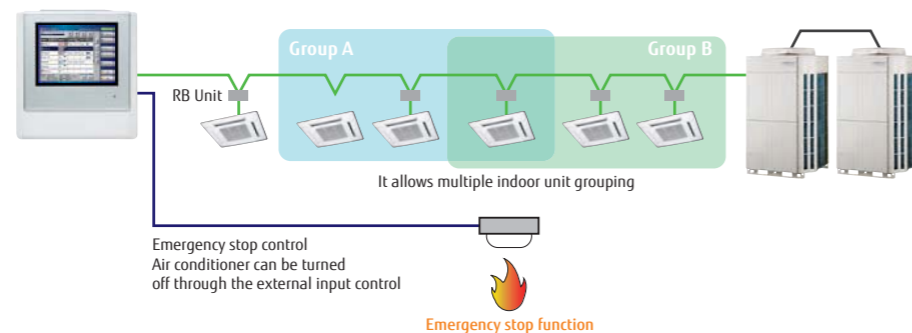


Easy installation

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



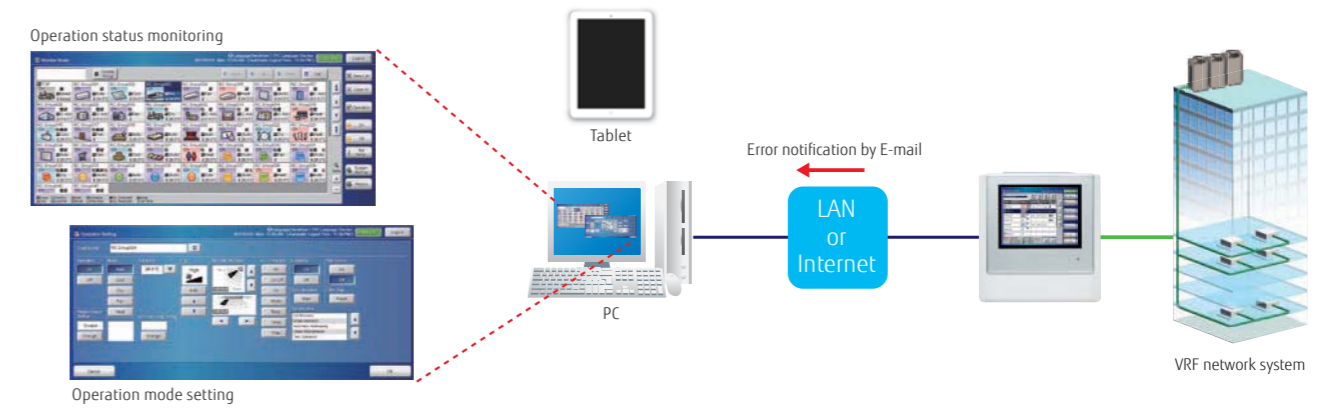
Up to 400 indoor units can be controlled



Features: Touch Panel Controller

Control & monitoring

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



Smart Phone

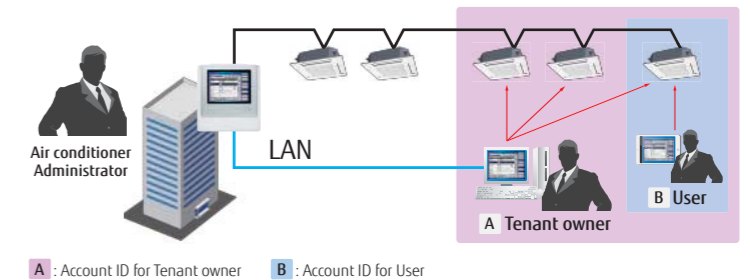
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iphone 7 (iOS 10.1)	Safari 10

Tablet

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

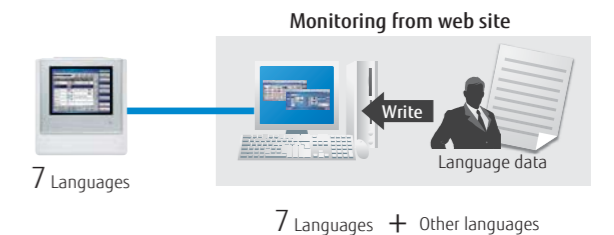
Flexible access permission for Point each level user.

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



Additional languages function

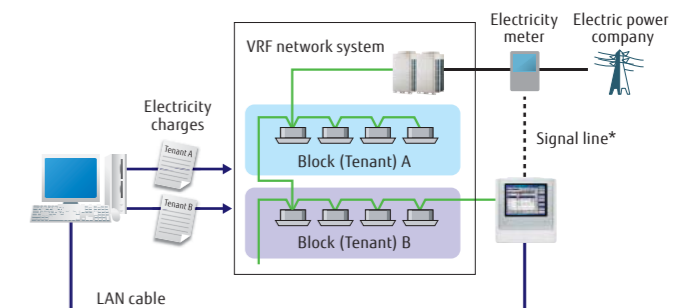
Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish as standard. Additional language can be integrated on remote device by creating language database. Additional language is displayed on only the remote device, and Touch Panel Controller cannot be added other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



Electricity charge apportionment (Option: UTY-PTGXA)

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

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



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

Features: Touch Panel Controller

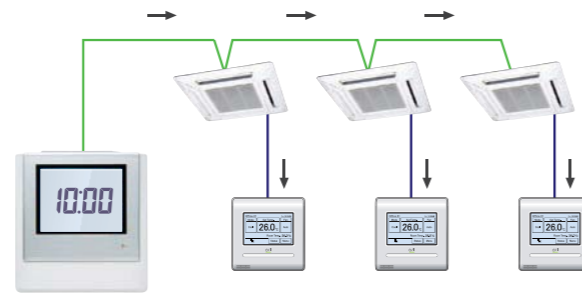
Automatic summer time setting

Providing function

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

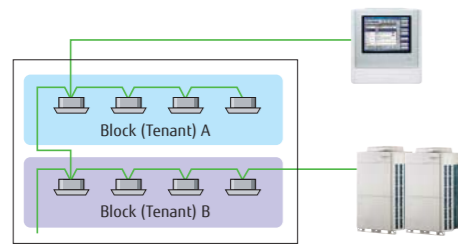
Automatic clock adjustment

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

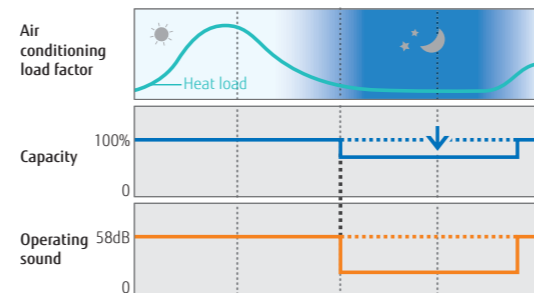


Outdoor low noise operation

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



Quiet priority setting



Various energy saving control

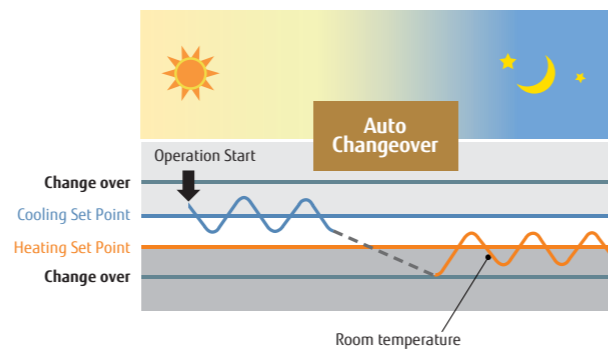
Custom Auto

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

* This function is not available for some models.



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



Refrigerant leakage detection function

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



Pop-up highlighting

FUNCTIONS SUMMARY

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

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

Specifications

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

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

System Controller

UTY-APGXZ1 **Software**

Max. Controllable
4 VRF network systems

Max. Controllable
400 outdoor units

Max. Controllable
1,600 indoor units

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

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)



System Controller Lite

UTY-ALGXZ1 **Software**

Max. Controllable
1 VRF network systems

Max. Controllable
100 outdoor units

Max. Controllable
400 indoor units

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

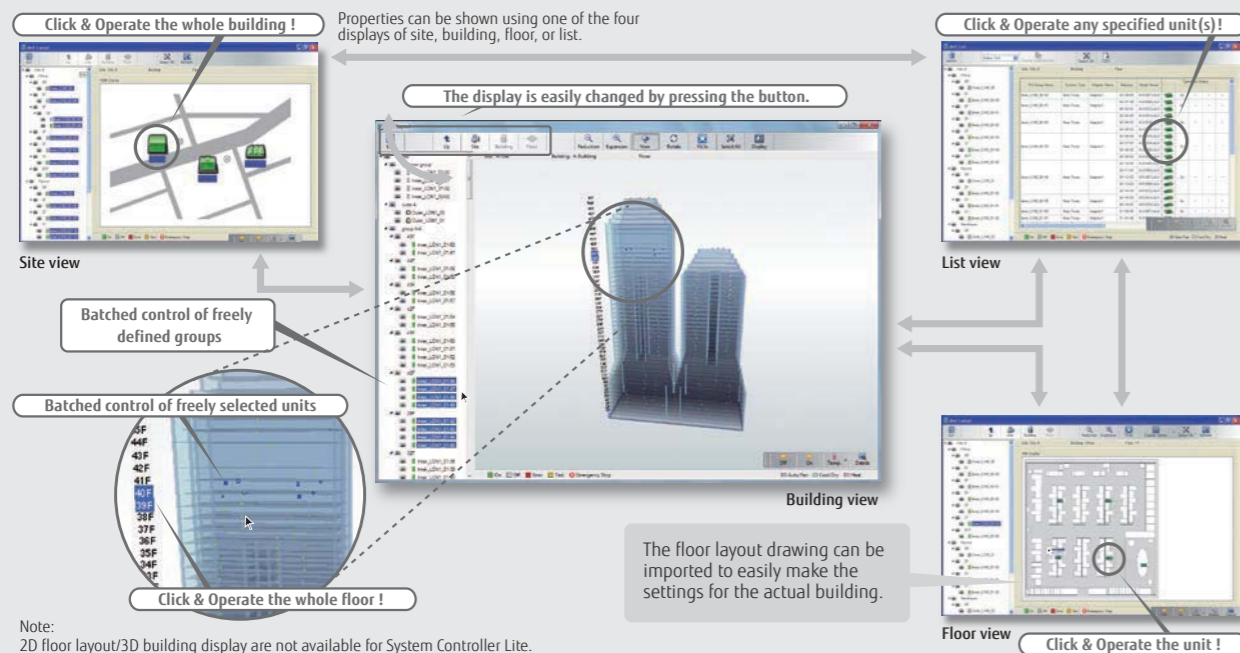
- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customers a wide range of choice.
- Corresponds to 7 different languages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



High visibility and Easy operation

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

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

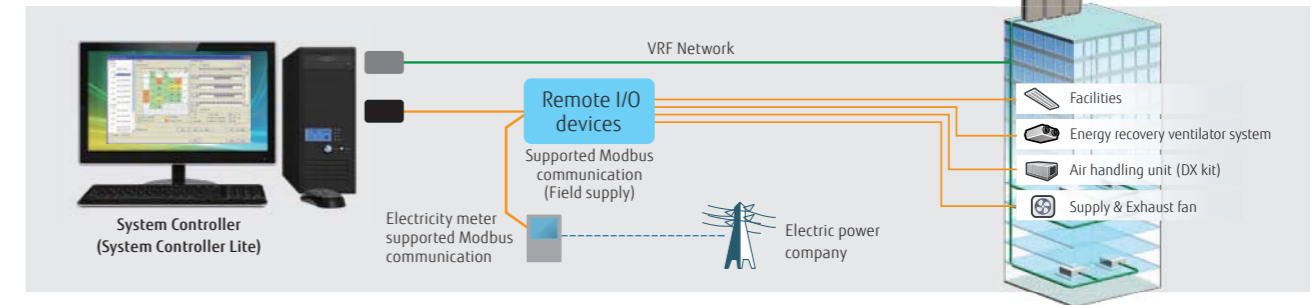


Features: System Controller/System Controller Lite

3rd party devices connected by Modbus can be controlled.

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

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

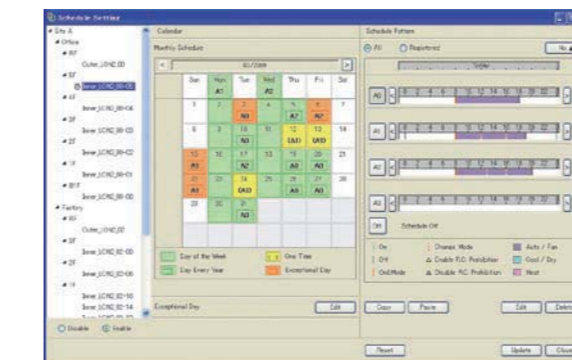


Diverse operation management & Data management

Standard for System Controller and System Controller Lite

Schedule management

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



Diverse control of indoor unit and outdoor unit

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

Remote controller prohibition

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

Error display & E-mail notification

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

Operating & control record

Displays the history of operation status and control.

Data base import/export

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

Automatic clock adjustment

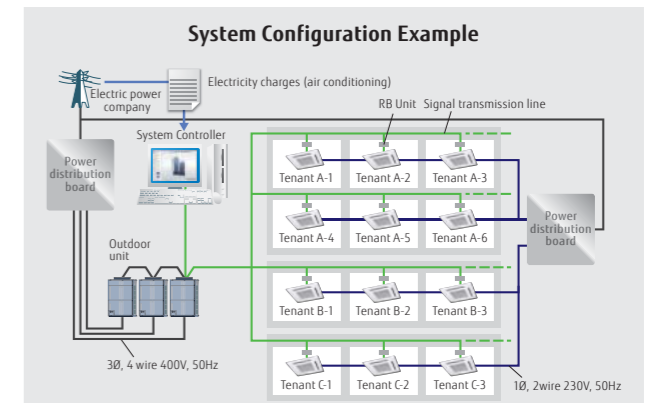
The time setting of each controller can be set in batch automatically.

Electricity charge apportionment

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

Electricity charge apportionment calculation framework

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



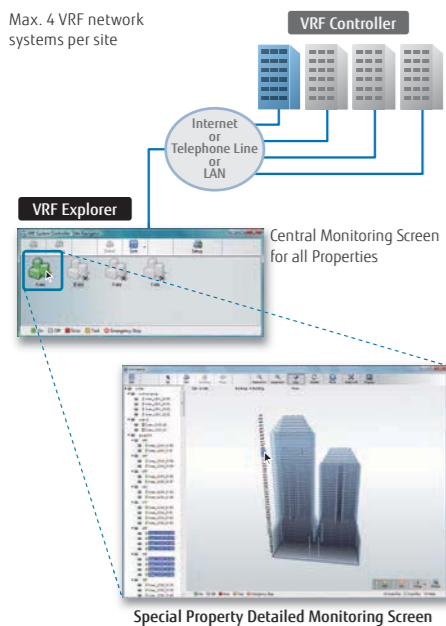
Features: System Controller/System Controller Light

Remote management

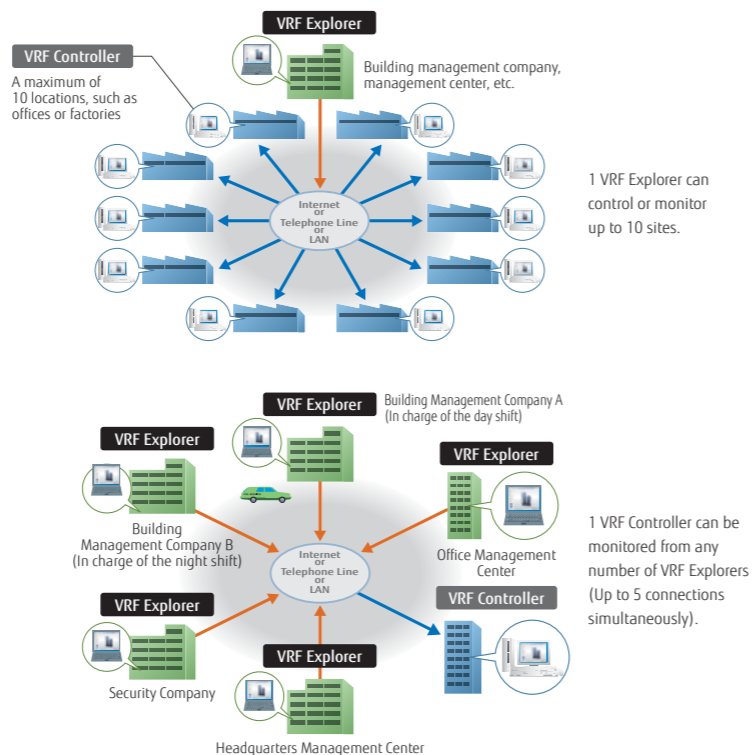
- Standard for System Controller
- Option for System Controller Lite UTU-PLGXR2

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

On site central control



Remote central control



Energy saving management

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

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



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

Indoor unit rotation operation

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

Peak cut operation

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

Outdoor unit capacity save

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

FUNCTIONS SUMMARY

Function	Type	System controller		System controller lite					
		UTU-APGXZ1	Option UTU-PEGXZ1	UTU-ALGXZ1	Option UTU-PLGX2	Option UTU-PLGXA2	Option UTU-PLGX2	Option UTU-PLGXX2	
System specification	Max. VRF networks supported	4	-	1	-	-	-	-	
	Max. indoor unit / remote controller groups per VRF network	400	-	400	-	-	-	-	
	Max. outdoor units per VRF network	100	-	100	-	-	-	-	
	Max. indoor units / remote controller groups per System controller	1600	-	400	-	-	-	-	
Site supervision	Max. outdoor units per System controller	400	-	100	-	-	-	-	
	Multi site display	10	-	10	-	-	-	-	
	Number of building / 1 site	20	-	-	-	-	-	-	
	Number of floor per 1 site	200	-	-	-	-	-	-	
	Number of floor per 1 building	50	-	-	-	-	-	-	
	3D graphical layout view	●	-	-	-	-	-	-	
Error management	2D graphical layout view	●	-	-	-	-	-	-	
	List display	●	-	●	-	-	-	-	
	Tree display	●	-	-	-	-	-	-	
	Group display	●	-	●	-	-	-	-	
History	Error notification	●	-	●	-	-	-	-	
	Audible alarm	●	-	●	-	-	-	-	
	Error e-mail notification	●	-	●	-	-	-	-	
Operation control	Error history	●	-	●	-	-	-	-	
	Operation history	●	-	●	-	-	-	-	
	Control history	●	-	●	-	-	-	-	
	Individual control	On/Off	●	-	●	-	-	-	-
		Operation mode*	●	-	●	-	-	-	-
		Room temperature	●	-	●	-	-	-	-
		Fan speed	●	-	●	-	-	-	-
		Air flow direction	●	-	●	-	-	-	-
		Economy mode	●	-	●	-	-	-	-
		Room temperature set point limitation	●	-	●	-	-	-	-
		Antifreeze	●	-	●	-	-	-	-
	Individual management	Outdoor unit low noise setting	●	-	●	-	-	-	-
		Remote control prohibition setting	●	-	●	-	-	-	-
	Other	Temperature upper and lower limit setting	●	-	●	-	-	-	-
Filter sign reset		●	-	●	-	-	-	-	
Schedule	Memory operation	●	-	●	-	-	-	-	
	Pattern operation	●	-	●	-	-	-	-	
	Annual Schedule	●	-	●	-	-	-	-	
	Special day setting	●	-	●	-	-	-	-	
	On / off per day	72	-	72	-	-	-	-	
	On / off per week	504	-	504	-	-	-	-	
	Day off	●	-	●	-	-	-	-	
Remote management	Min. unit of timer setting (Minutes)	10	-	10	-	-	-	-	
	Low noise mode Weekly schedule	●	-	●	-	-	-	-	
	Web Operation	●	-	●	-	-	-	-	
Electricity charge apportionment	Remote monitoring	●	-	●	-	-	-	-	
	Remote operation control	●	-	●	-	-	-	-	
	Remote function setting	●	-	●	-	-	-	-	
	Apportionment charge/bill calculation	●	-	●	-	-	-	-	
Energy saving management	Tenant (block) setting	●	-	●	-	-	-	-	
	Common facilities apportionment setting	●	-	●	-	-	-	-	
	Rated power consumption allotment setting	●	-	●	-	-	-	-	
External Device Control	Individual calculation at cooling and heating	●	-	●	-	-	-	-	
	Electricity meter supported	●	-	●	-	-	-	-	
	Indoor unit rotation	●	-	●	-	-	-	-	
	Peak cut control	●	-	●	-	-	-	-	
Others	Outdoor unit capacity save	●	-	●	-	-	-	-	
	Record of energy saving operation	●	-	●	-	-	-	-	
	Energy saving information	●	-	●	-	-	-	-	
	Power consumption monitor	●	-	●	-	-	-	-	
Monitor	Electricity meter supported	●	-	●	-	-	-	-	
	Monitor	●	-	●	-	-	-	-	
Control	Control	●	-	●	-	-	-	-	
	Database import/export	●	-	●	-	-	-	-	
Power shutdown	Automatic clock adjustment	●	-	●	-	-	-	-	
	Multi language	7 languages	-	7 languages	-	-	-	-	
	Refrigerant leakage detection function	●	-	●	-	-	-	-	
	Power shutdown	●	-	●	-	-	-	-	

●: Available. - : Not available.

Personal computer system requirements

The required PC specifications are shown in the following table.

	System Controller	System Controller Lite
Operating system	<ul style="list-style-type: none"> Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish	<ul style="list-style-type: none"> Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher	Intel® Core™ i3 2 GHz or higher
Memory	<ul style="list-style-type: none"> 2 GB or more (for Windows® 7 [32-bit]) 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10) 	<ul style="list-style-type: none"> 2 GB or more (for Windows® 7 [32-bit]) 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)
HDD	40 GB or more of free space	40 GB or more of free space
Display	1024 x 768 or higher resolution	1024 x 768 or higher resolution
Interface	<ul style="list-style-type: none"> Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 2 USB ports are required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB port depends on the applicable system configuration.	<ul style="list-style-type: none"> Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface - 1 USB port is required for Echelon® U10 USB Network Interface * The maximum number of required USB port depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	Microsoft® DirectX® 9.0c compatible
Software	Adobe® Reader® 9.0 or later	Adobe® Reader® 9.0 or later

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

PACKING LIST

Type	For System controller		For System controller Lite				
	System Controller	Option Energy manager	System Controller Lite	Option Remote access	Option Electricity charge apportionment	Option Energy saving	Option Central Control
Model name	UTU-APGXZ1	UTU-PEGXZ1	UTU-ALGXZ1	UTU-PLGXR2	UTU-PLGXA2	UTU-PLGX2	UTU-PLGXX2
WHITE-USB-KEY	1	1	1	1	1	1	1

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

BACnet® Gateway

UTY-ABGXZ1 (Software)



WHITE-USB-KEY
(Software Protection Key)

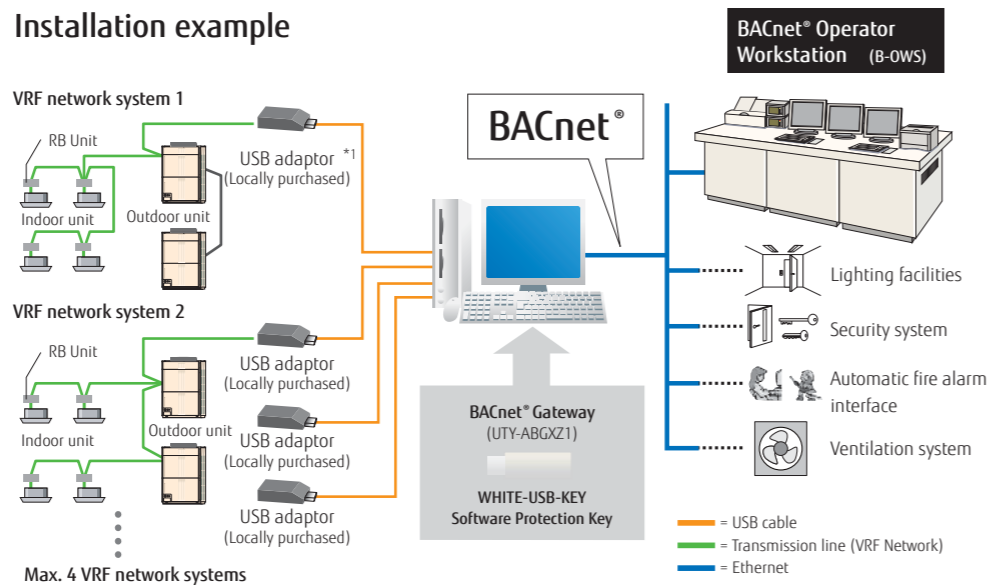


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- Max. Controllable **4** VRF network systems
- Max. Controllable **400** outdoor units
- Max. Controllable **1,600** indoor units

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

Installation example



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

Personal computer system requirements

	UTY-ABGXZ1
Operating system	• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher
Memory	• 2 GB or more (for Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	• Ethernet port (for getting access to the Internet using LAN) • USB ports (Maximum of 5 ports) - 1 USB port is required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB ports depends on the applicable system configurations.
Software	Adobe® Reader® 9.0 or later

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

<Packing list>

Name and shape	Quantity	Application
WHITE-USB-KEY	1	Includes the software and manuals, license for BACnet® Gateway.

BACnet® Gateway

UTY-VBGX (Hardware)



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Max. Controllable **1** VRF network system

Max. Controllable **32** refrigerant system

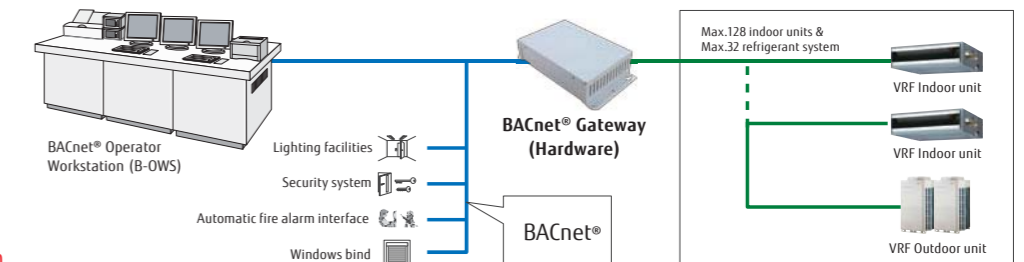
Max. Controllable **128** indoor units

Specifications

Model name	UTY-VBGX
Number of controllable indoor units	128
Number of controllable refrigerant system	32
Number of controllable VRF network	1
Number of connectable units / one VRF network	4

Model name	UTY-VBGX
Power Supply	100-240 V 50/60 Hz, single phase
Power Consumption (W)	4.6 (max.)
Dimensions (H × W × D) (mm)	59.6 × 270.4 × 176
Weight (g)	1,200

Installation example



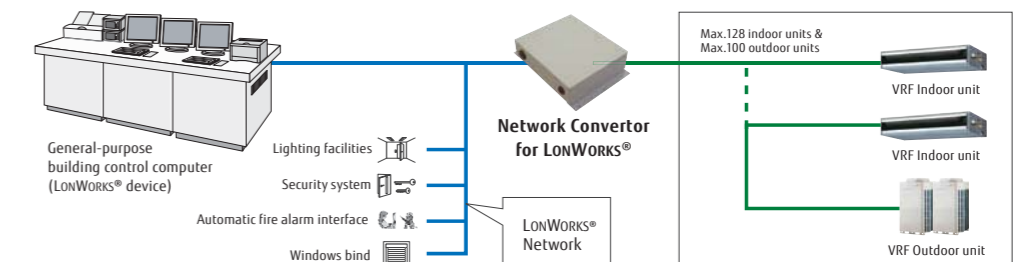
Network Converter for LONWORKS®

UTY-VLGX



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

Installation example



Max. Controllable **4** units to BMS

Max. Controllable **100** outdoor units

Max. Controllable **128** indoor units

Specifications

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

Transmission specifications (BMS side)

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

MODBUS® Convertor for VRF

UTY-VMGX



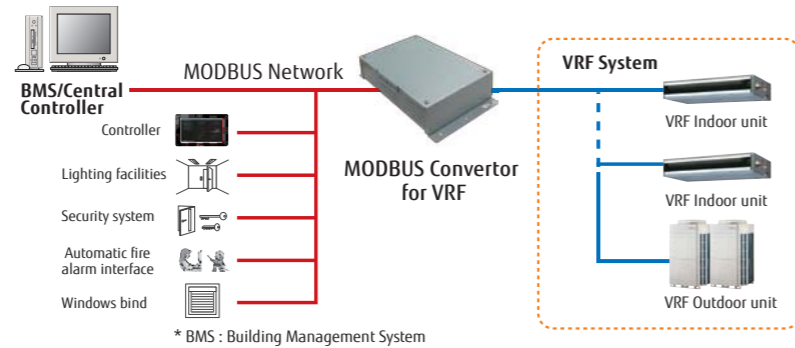
The MODBUS Convertor allows a complete integration of air conditioners into MODBUS Networks.

- Compact and lightweight design
- Direct connection to MODBUS Network
- Up to 128 indoor units can be controlled in one MODBUS Convertor
- The MODBUS Convertor permits central monitoring and control of air conditioners from BMS or Central Controller.
- Up to 9 convertors can be connected to a VRF network. The simultaneous controls such as ON/OFF or temperature settings can be done for each zone.
- It is easy to locate the source of error if any connection errors should occur after completion of installation works.

Max. Controllable
9 units to one VRF

Max. Controllable
100 outdoor units

Selectable
128 indoor units



KNX® Convertor for VRF

UTY-VKGX

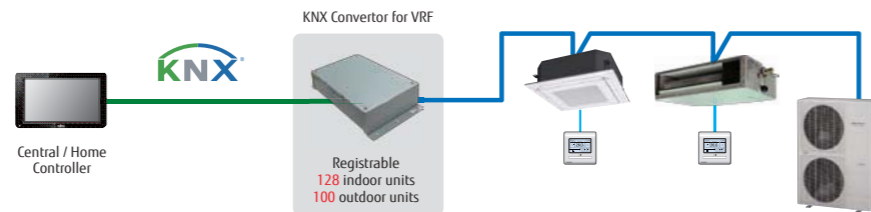


KNX Convertor is useful for centralized control in a system.

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

Max. Controllable
100 outdoor units

Selectable
128 indoor units



Specifications

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

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

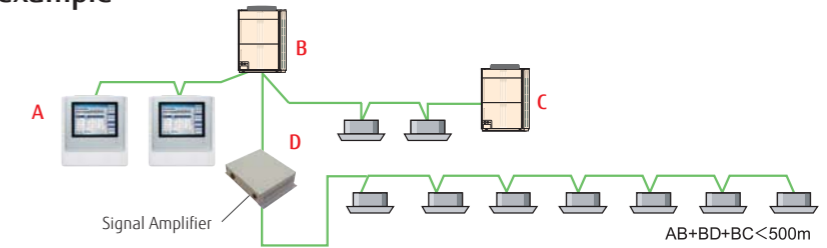
Signal Amplifier

UTY-VSGXZ1



- Transmission Line length can be extended up to 3,600 m with multiple Signal Amplifiers.
- Up to 8 signal amplifiers can be installed in a VRF network system.
- A signal amplifier is required,
 - (1) When the total wiring length of the transmission line exceeds 500 m.
 - (2) When the total number of units on the transmission line exceeds 64.

Installation example



Specifications

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



Control System List For VRF



Type	Refrigerant	Indoor unit																					
		Cassette				Duct				Duct		Floor		Ceiling/Floor		Ceiling		Wall Mounted					
		3D Flow	Compact Grid type / Standard type	Circular Flow (Slim)	Circular Flow (Large)	Mini (With drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure	Large Airflow Duct (Compact)	Large Airflow Duct (Large)	—	EEV external	Ceiling/Floor	Ceiling	—	EEV external	—	EEV external	—	—		
R410A	AUXS 018/024 GLEH	AUXB 004/007/009/012/014/018/024GLEH	AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH	AUXK 018/024/030/034/036/045/054GLEH	ARXK 004/007/009/012/014/018/024GLEH	ARXD 007/009/012/014/018/024 GLEH	ARXA 024/030/036/045GLEH	ARXC 45/60GATH	ARXC 036/072/090/096GTEH	ARXN 009/012/014/018/024/030 GLBH	ARXN 18/24/30/34/36/45 GATH	AGYA 004/007/009/012/014 GCEH	AGYE 004/007/009/012/014 GCEH	ABYA 012/014/018/024GTEH	ABYA 030/036/045/054GTEH	ASYA 004/007/009 GTEH	ASYE 004/007/009 GTEH	ASYA 012/014GCEH	ASYE 012/014GCEH	ASYA 18/24GBCH	ASYA 030/034GTEH		
Controllers	Wired Remote Controller	● UTY-RNRYZ3																					
	Simple Remote Controller	● UTY-RLRY																					
	Wireless Remote Controller	● UTY-RNRYZ3																					
	Group Remote Controller	● UTY-RLRY																					
	Simple Remote Controller (2-wire type / 3-wire type)	● UTY-RSRY, UTY-RHRY				● UTY-RSRY, UTY-RHRY, UTY-RSHY, UTY-RHXY		● UTY-RSRY, UTY-RHRY		● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHXY		● UTY-RSRY, UTY-RHRY		● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHXY		● UTY-RSRY, UTY-RHRY		● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHXY		● UTY-RSRY, UTY-RHRY, UTY-RSKY, UTY-RHXY		● UTY-RSRY, UTY-RHRY	
	Wireless Remote Controller	● UTY-LNHY																					
	Group Remote Controller	● UTY-LNHY																					
	Central Remote Controller	● UTY-CGGY + UTY-VGGXZ1																					
Touch Panel Controller	● UTY-DCGYZ1																						
System Controller, System Controller Lite	● UTY-DTGYZ1																						
Interface	BACnet Gateway	● UTY-APGXZ1, UTY-ALGXZ1																					
	Network Converter for LonWorks	● UTY-ABGXZ1, UTY-VBGX																					
	MODBUS Converter	● UTY-VLGX																					
	MODBUS Converter	● UTY-VMSX																					
	KNX Converter	● UTY-VMGX																					
	KNX Converter	● UTY-VKXZ1																					
	Wireless LAN Interface	● UTY-VKXZ1																					
	External Switch Controller	● UTY-TFSXZ1																					
	Network Converter for Single split	● UTY-TERX																					
	Network Converter for DC Power Supply Type / AC Power Supply Type	● UTY-VTGX, UTY-VTGXV																					

Optional Parts Overview

For Split & Multi Split, VRF

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

Optional Parts For Cassette



Human Sensor Kit

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



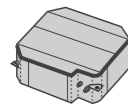
Cassette Grille

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



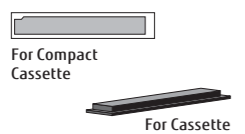
Fresh Air Intake Kit

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



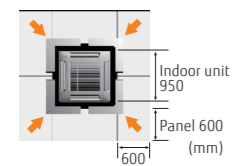
Insulation for High Humidity

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



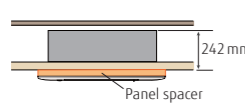
Air Outlet Shutter Plate

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



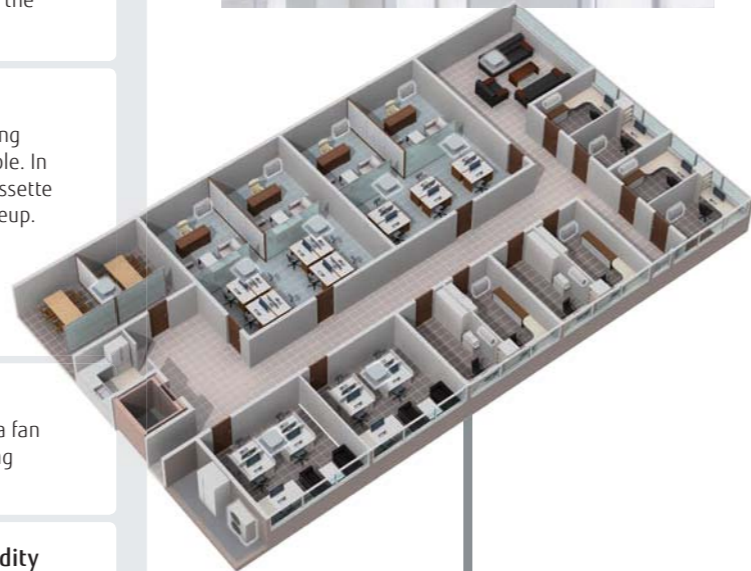
Wide Panel

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

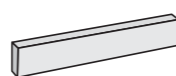


Panel Spacer

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



Optional Parts For Floor



Half Concealed Kit

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

Optional Parts For Duct & Ceiling



Auto Louver Grille Kit

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



Remote Sensor Unit

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



Long Life Filter

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



Flange

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



Drain Pump Unit

This device can drain the collected water during operation.



Connection Parts



Communication Kit

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

For Wall Mounted type



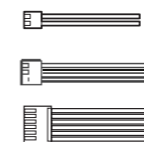
External Input and Output PCB

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

For Wall Mounted type

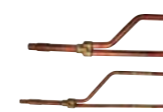


For Duct and Cassette type



External Connect Kit & Set

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



Connection Units

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



NEW

External Power Supply Unit

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



External Input and Output PCB Box & Bracket

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

Auto Louver Grille Kit

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

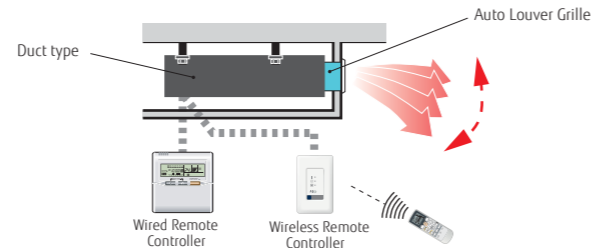


Simple flat Auto Louver will provide comfort airflow and harmonize with luxury interior.

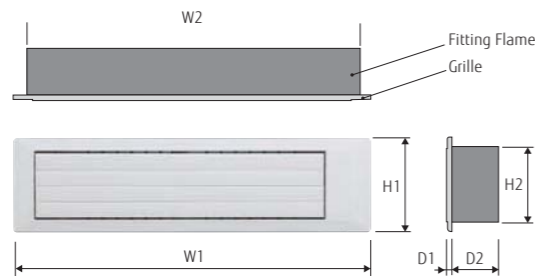


Flexible Control

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



Dimensions



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

Unit:mm

Specifications

Model name	UTD-GXTA-W		UTD-GXTB-W		UTD-GXTC-W	
Applicable Indoor Unit	ARYG07/09LLTA ARYG12/14LLTB ARXD007/009/012/014GLEH (For VRF) ARXK004/007/009/012/014GLEH (For VRF) ARXD04GALH (For VRF)		ARYG18LLTB ARXD018GLEH (For VRF) ARXK018GLEH (For VRF)		ARXD024GLEH (For VRF) ARXK024GLEH (For VRF)	
Power Supply	Connecting with Control box of indoor unit					
Fixing of Auto Louver Grille	Screw fixing to Flange or Square Duct					
Extension Square Duct Limit	1.0m (Max. duct length between indoor unit and Grille)					
Net Dimension (H × W × D)	mm	180×683×(84+9)		180×883×(84+9)		180×1083×(84+9)
Weight	Net	2.0 (4.4)		2.5 (5.6)		3.0 (6.7)
	Gross	3.0 (6.7)		3.5 (7.8)		4.0 (8.9)
Color	White					
Louver Motor	Stepping Motor					
Accessories	Fitting Flame, etc.					
Operation range	Cooling	°C	18 to 32			
		% RH	80% or less			
	Heating	°C	16 to 30			

External Power Supply Unit

UTZ-GXXA

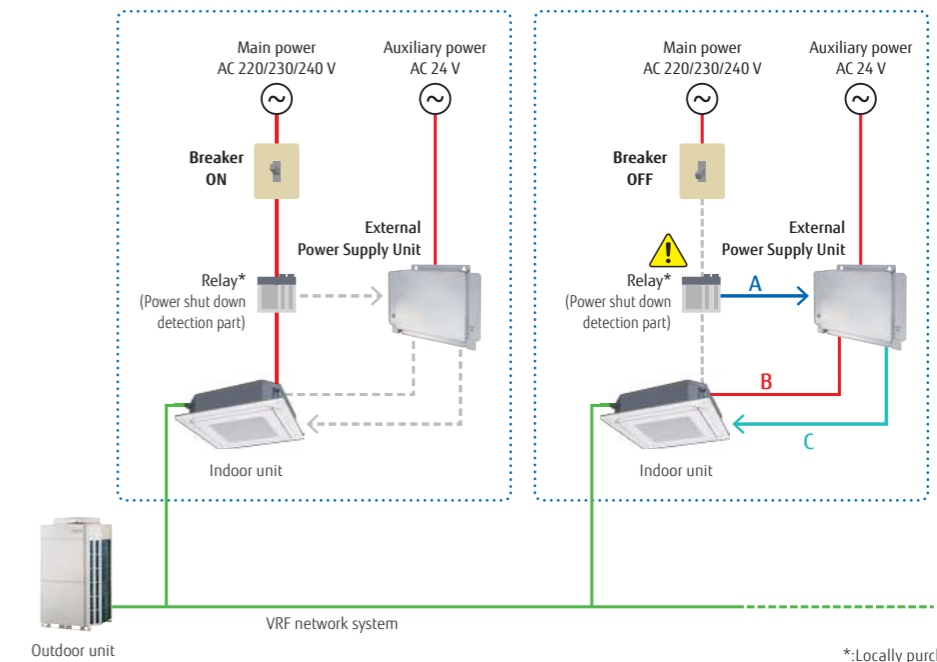


External Power Supply Unit can protect the units in the system even if some powers of indoor units are shut down in the system.

Power is supplied to the indoor unit from auxiliary power by connecting to External Power Supply Unit. This makes it possible to operate continuously without system error.

High Reliability

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



*:Locally purchased

Note

- When changing the power supply voltage to AC24V, use a power transformer with an insulation structure equivalent to CLASS 2.
- Indoor units that are powered off and driven by an External Power Supply Unit are handled in the same manner as operation off units in the electricity charge apportionment function. Since standby power may be charged to them, the electricity charge apportionment result for them may not be 0.

Specifications

Model name	UTZ-GXXA
Power Supply	AC 24 V 50/60 Hz, single phase
Dimensions (H × W × D) (mm)	65 × 186 × 178
Weight (g)	500

Optional Parts List For Split/Multi Split



Type	Refrigerant	Indoor unit										Indoor unit						
		Cassette			Duct			Duct				Floor	Ceiling	Wall Mounted		Multi Split		
		4-way Flow Compact	Circular Flow	4-way Flow	Mini	Slim	Medium Static Pressure (Compact & Comfort)	Medium Static Pressure (Standard)	High Static Pressure	Big	4-way flow Compact Cassette			Mini Duct	Slim Duct	Floor Ceiling		
	R32	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	ARXG45/54KHTA				ASVG07/09/12KPCA		AUYG07KVLA	ARYG07/09/12KSLAP	ARYG07KLLAP	
	R410A	AUYG12/14/18LVLB, AUYG24LVLA	AUXG 18/24/30/36/45/54 LRLB	AUYG30/36LRL, AUYG36/45/54LRLA	ARYG12/14/18LSLAP	ARYG12/14/18LLTB	ARYG 12/14/18/24/30/36/45/54 LHTBP	ARYG24/36/45LMLA, ARYG30/36LMLA	ARYG45/54/60LHTA		ARYG72/90LHTA	AGYG09/12/14LVCA	ABYG30/36LRTE, ABYG36/45/54LRTA	ASYG07/09/12LLCE	AUYG07/09LVLA	ARYG07/09LSLAP	ARYG07/09LLTA	ABYG14LVTA
Human Sensor Kit			• UTY-SHZXC															
Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.						• UTY-XSZX				• UTY-XSZX						• UTY-XSZX	
Cassette Grille	 UTG-UFYF-W UTG-UFYD-W UTG-UGYA-W UTG-UKYA-W UTG-UKYC-W UTG-UKYA-B	• UTY-UFYF-W (KVLA), UTY-UFYD-W (LVLA, LVLB)	• UTY-UKYA-W, UTY-UKYC-W, UTY-UKYA-B	• UTY-UGYA-W										• UTY-UFYF-W (KVLA), UTY-UFYD-W (LVLA)				
Auto Louver Grille Kit					• UTD-GXTA-W (09/12/14) • UTD-GXTB-W (18)												• UTD-GXTA-W (09/12)	
Long Life Filter							• UTD-LFNA (36/45/54) • UTD-LFNB (18/22/24/30) • UTD-LFNC (12/14)	• UTD-LF25NA	• UTD-LF60KA (45/54)		• UTD-LFKA							
Flange								• UTD-SF045T • UTD-RF204				• UTD-RF204						
Drain Pump Unit								• UTY-PX1NBA			• UTY-PX1NAB		• UTR-DPB24T					
Wide Panel	 Indoor unit size (Panel 600 mm)		• UTY-AKXA-W															
Panel Spacer	 26.2 mm Panel spacer		• UTY-BKXA-W															
Fresh Air Intake Kit	 For Compact Cassette For Cassette	• UTY-VXAA	• UTY-VXRA											• UTY-VXAA				
Air Outlet Shutter Plate	 For Compact Cassette For Cassette	• UTY-YDZB	• UTY-YDZK											• UTY-YDZB				
Insulation for High Humidity	 For Compact Cassette type/ Cassette type	• UTY-KXGC	• UTY-KXRA											• UTY-KXGC				
Half Concealed Kit	 This kit is used to half conceal floor type indoor unit into the wall.										• UTY-SIA							
Remote Controller Holder														• UTY-RXLA				

• There are no optional parts for Floor/Ceiling type.

Optional Parts List For VRF



Type	Refrigerant	Indoor unit																			
		Cassette				Duct			Duct			Floor		Indoor unit		Wall Mounted					
		3D Flow	Compact Grid type / Standard type	Circular Flow (Slim)	Circular Flow (Large)	Mini (With drain pump)	Slim (With drain pump)		Medium Static Pressure	High Static Pressure		Large Airflow Duct (Compact)	Large Airflow Duct (Large)	—	EEV external	Floor / Ceiling	Ceiling	—	EEV external	—	—
AUXS 018/024GLEH	AUXB 004/007/009/012/014/018/024 GLEH	AUXN 009/012/014 GLAH, AUXM 018/024/030 GLEH	AUXK 018/024/030/034/036/045/054GLEH	ARXX 004/007/009/012/014/018/024 GLEH	ARXD 04GALH	ARXD 007/009/012/014/018/024 GLEH	ARXA 024/030/036/045 GLEH	ARXC 45/60GATH	ARXC 036/072/090/096 GTEH	ARXN 009/012/014/018/024/030 GLBH	ARXN 18/24/30/34/36/45 GATH	AGYA 004/007/009/012/014 GCEH	AGYE 004/007/009/012/014 GCEH	ABYA 012/014/018/024 GTEH	ABYA 030/036/045/054 GTEH	ASVA 004/007/009 GTEH, ASVA 012/014GCEH	ASVE 004/007/009 GTEH, ASVE 012/014GCEH	ASVA 18/24GBCH	ASVA 030/034GTEH		
IR Receiver Unit		● UTY-TRHX		● UTY-LBHXD	● UTY-TRHX	● UTB-YWC	● UTY-TRHX		● UTB-YWC	● UTY-TRHX		● UTB-YWC									
Human Sensor Kit				● UTY-SHZXC																	
Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.						● UTY-XSZX					● UTY-XSZX									
Cassette Grille	 UTG-USYA-W UTG-UFYE-W UTG-UFYC-W UTG-UKYC-W UTG-UKYA-B	● 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)							● UTD-GXTC-W (009/012/014)									
Long Life Filter							● UTD-LF25NA		● UTD-LF60KA (45/60/036)			● UTD-LF25NA(018) ● UTD-LFNA(024/030)									
Flange							● UTD-SF045T ● UTD-RF204					● UTD-SF045T(018) ● UTD-RF204(018)				● UTD-RF204					
Drain Pump Unit							● UTZ-PX1NBA					● UTZ-PX1NBA(018)				● UTR-DPB24T					
Wide Panel				● UTG-AKXA-W																	
Panel Spacer				● UTG-BKXA-W																	
Fresh Air Intake Kit*1	 For Compact Cassette For Cassette		● UTZ-VXAA	● UTZ-VXRA																	
Air Outlet Shutter Plate	 For Compact Cassette For Cassette		● UTR-YDZB	● UTR-YDZK																	
Insulation for High Humidity	 For Compact Cassette type/ Cassette type		● UTZ-KXGC	● UTZ-KXRA																	
Half Concealed Kit	 This kit is used to half conceal floor type indoor unit into the wall.													● UTR-STA							
External Power Supply Unit			● UTZ-GXXA				● UTZ-GXXA			● UTZ-GXXA						● UTZ-GXXA					● UTZ-GXXA

Separation Tube etc.



For SPLIT/MULTI SPLIT/SIMULTANEOUS MULTI

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



For VRF

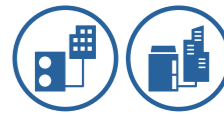
Separation Tube			
UTP-AX054A Gas Pipe Liquid Pipe 	UTP-AX090A Gas Pipe Liquid Pipe 	UTP-AX180A Gas Pipe Liquid Pipe 	UTP-AX567A Gas Pipe Liquid Pipe
UTP-BX090A Suction Gas Pipe Discharge Gas Pipe Liquid Pipe 	UTP-BX180A Suction Gas Pipe Discharge Gas Pipe Liquid Pipe 	UTP-BX567A Suction Gas Pipe Discharge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

Header

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

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

EV Kit	RB Unit	
Model code \leq 09 : UTR-EV09XB Model code \geq 12 : UTR-EV14XB For Compact Wall Mounted type 	UTP-RX01AH / UTP-RX01BH / UTP-RX01CH Single type 	UTP-RX04BH Multi type

Specifications

Separation Tube

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

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

Header

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

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

Outdoor unit Branch kit

Model name	UTP-CX567A (for V-III/V-III Tropical)	UTP-DX567A (for VR-II)
Number of outdoor unit	2 outdoor units	1
	3 outdoor units	2

EV Kit

Model name	UTR-EV09XB		UTR-EV14XB	
Application model	ASYE004GTEH ASYE007GTEH ASYE009GTEH	AGYE004GTEH AGYE007GTEH AGYE009GTEH	ASYE012GCEH ASYE014GCEH	AGYE012GCEH AGYE014GCEH

RB Unit

Type	Single type			Multi type
Model name	UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH
Power source	V/Ø/Hz 230/ 1 / 50			
Input power	W			
Number of branches	17	24	31	96
Number of branches	1	1	1	4
Maximum capacity of connectable indoor units (Q)	kW			
Maximum capacity of connectable indoor units (Q)	$Q \leq 8.0$	$Q \leq 18.0$	$Q \leq 28.0$	$Q \leq 56.1^{*1}$
Maximum capacity of connectable indoor units per branch (Q)	kW			
Maximum capacity of connectable indoor units per branch (Q)	$Q \leq 8.0$	$Q \leq 18.0$	$Q \leq 28.0$	$Q \leq 18.0$
Maximum number of connectable indoor units per branch	3	8	8	8
Dimensions (H×W×D)	mm 198×298×268			260×658×428

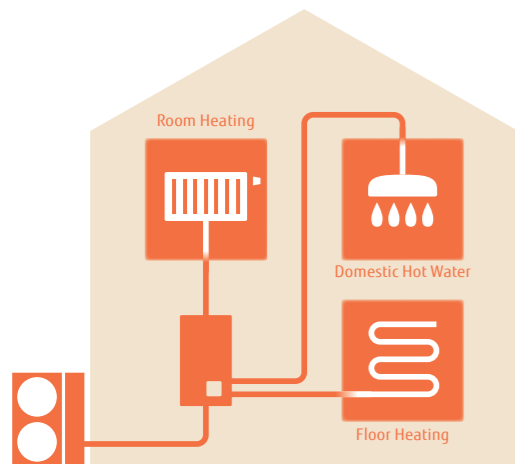
*1: In case of two RB units connected in series (total 8-branches), maximum capacity of connectable indoor units is up to 56.0 kW.

Residential AIR TO WATER

- 280 Home Heating Air to Water Overview
- 282 Technology
- 283 WATERSTAGE™ Lineup

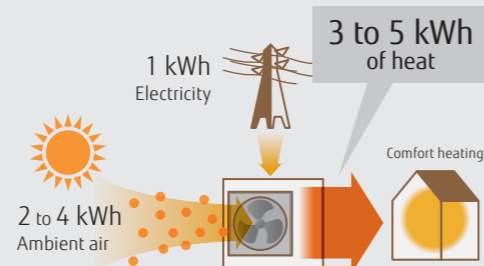


- 284 Split Type/Split DHW Integrated Type *New Super High Power series
- 286 Case Studies
- Installation Limitations
- 288 Optional Parts
- 290 Specifications & Dimensions



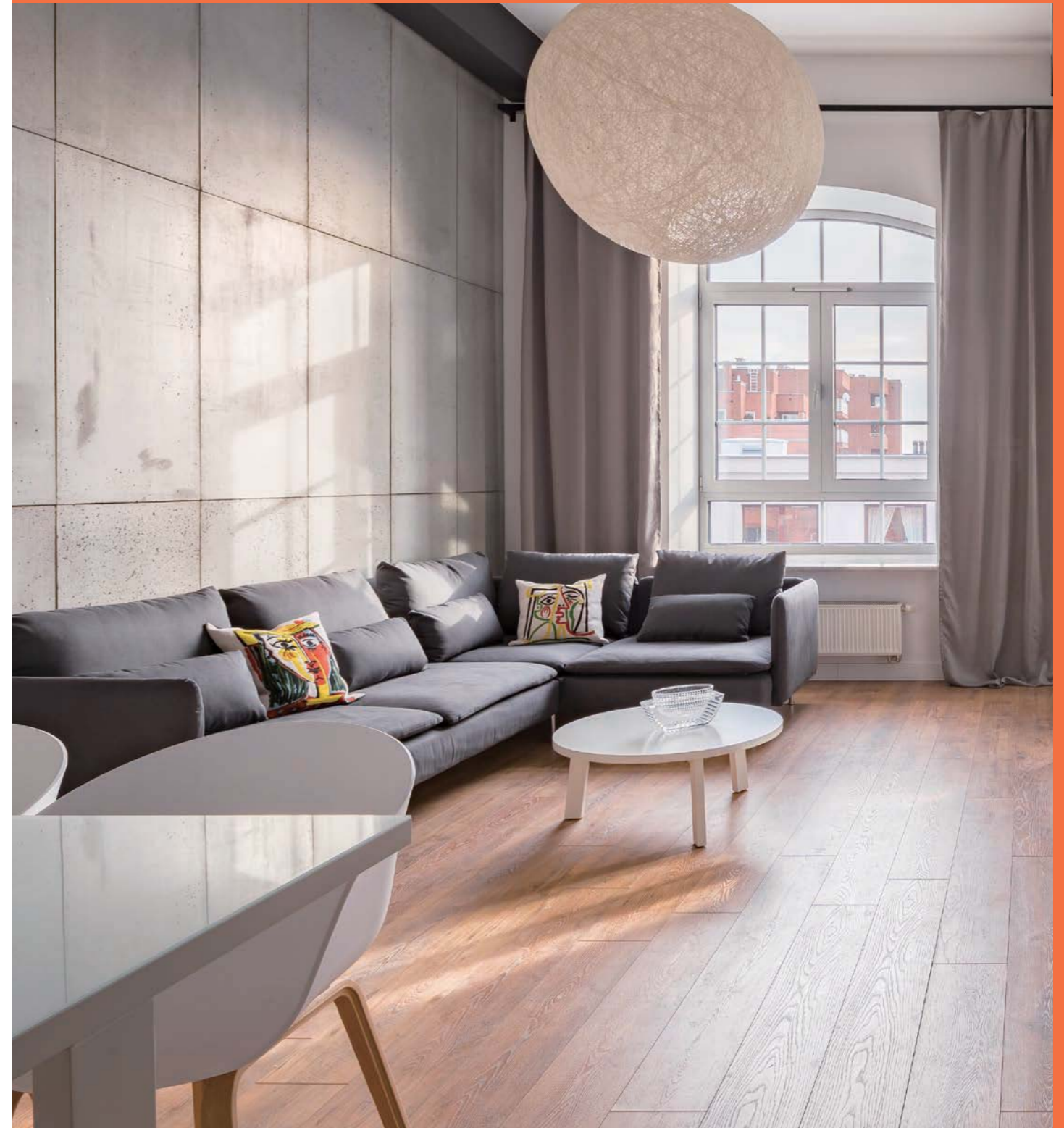
What's a Heat Pump ?

Absorbing free energy from the atmosphere. Heat pump system requires only 1 kW of electricity to generate 3 to 5 kW thermal energy.



Complete Solution meets various needs

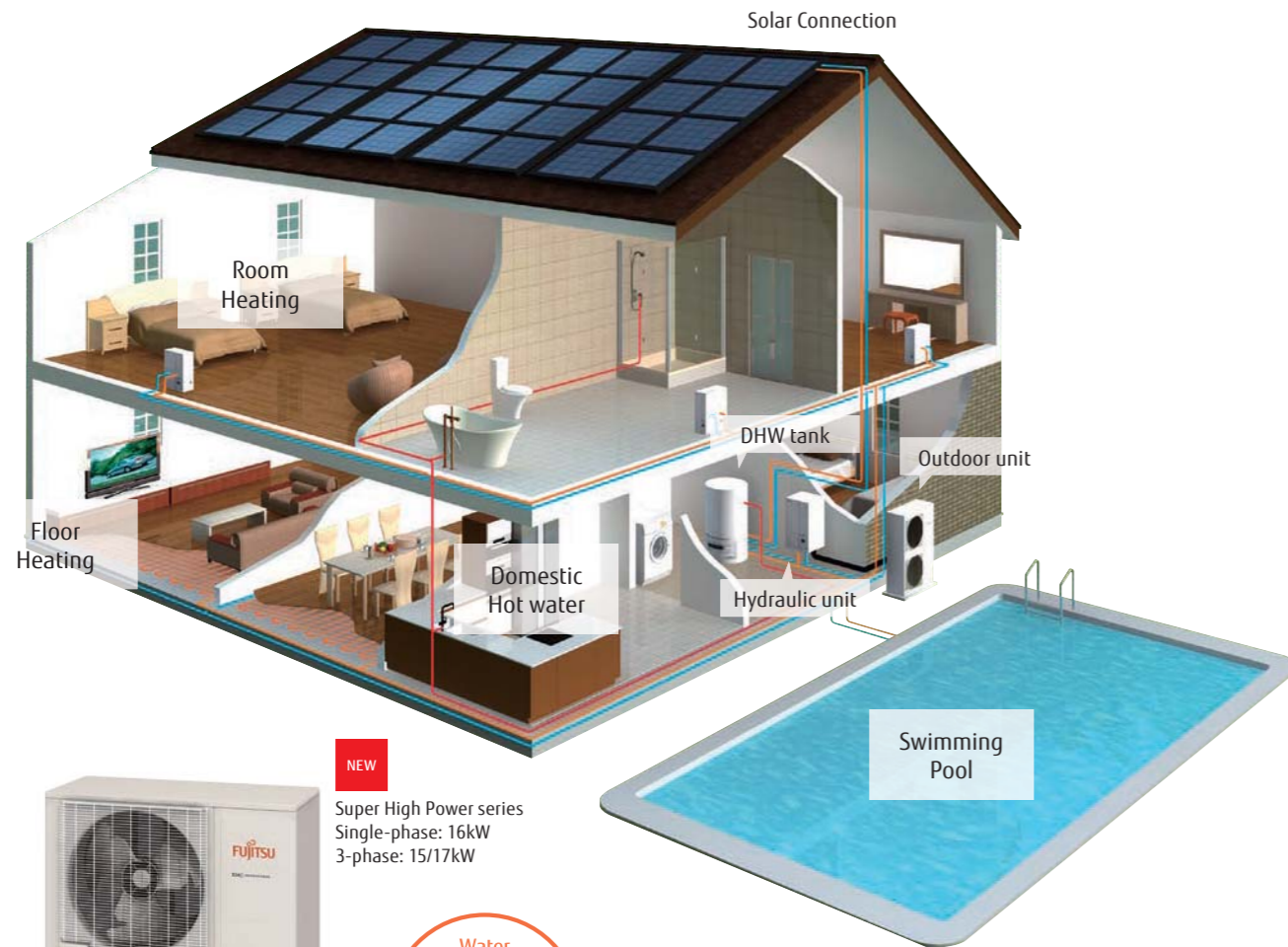
The clean energy produced by WATERSTAGE™ reliably delivers "comfort" to all spaces in the home up to the living room, bedrooms, bath, and swimming pool.



Home Heating

Air to Water Overview

Wide range lineup suited for regional characteristics, family structure, and application. We provide various products to meet your needs from High Power via heating-centered series to reasonably-priced compact series.



NEW
Super High Power series
Single-phase: 16kW
3-phase: 15/17kW

Water temperature
60°C

High leaving water temperature

High leaving water temperature 60°C kept down to -20°C outdoor temperature without using backup heater.

For Room heating & domestic hot water

Outdoor unit and hydraulic indoor unit can be installed freely, so installation is easy. Since hydraulic indoor unit is installed inside a house, freezing of circulated water can be prevented. A larger heating capacity can be performed flexibly by using more units in cascade connection.



Appearance-oriented compact outdoor unit

Split type Comfort series

For Comfort series, optimized flow temperature control is realized by DC inverter technology.

*: Outdoor Unit: WOYA060LFCA/WOYA080LFCA

Stylish space saving solution with built-in DHW tank

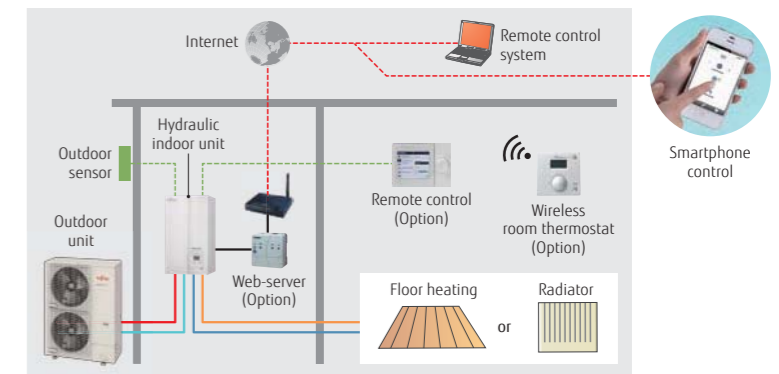


Space is saved drastically due to built-in DHW tank.

Existing boiler can be replaced easily. A larger heating capacity can be performed flexibly by using more units in cascade connection.

+ DHW Tank
DHW tank (option) can be used to supply hot water by connecting it to the system.

+ Boiler
By combining existing boiler, powerful heating can be performed even at low outdoor temperature.
*optional part necessary



Smart control

User's needs are supported by offering a variety of controls, such as individual control and remote control options.

Technology

High Efficiency

For Outdoor Unit Twin Rotary Compressor with Linear Control Injection Port

It realizes the high condensing temperature without overheating discharge gas temperature by Linear Control Injection process during compression. Therefore, the condensing temperature rises up higher than normal circuit. A higher hot water temperature is realized by controlling the injection amount according to the usage state.



Linear Control Injection Port

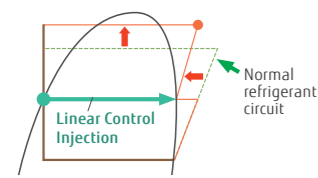
For Hydraulic Indoor Unit Class A pump

Energy saving pump with constant volume or pressure adjustment function.

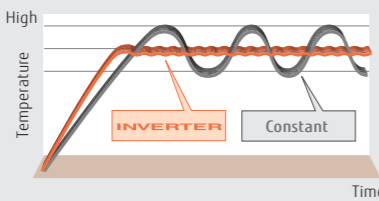
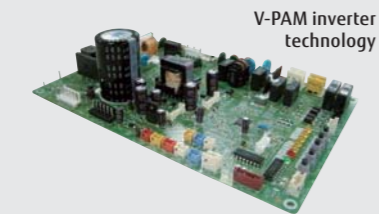


Energy efficiency class WSYK170DJ9

Optimized circuit = higher water temperature

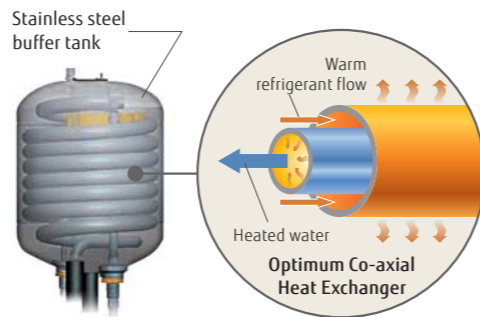


Accurate temperature control by DC inverter technology



Stainless steel buffer tank

Heat exchange amount is 25% higher than previous model. Energy saving performance is improved.



Easy Control



Hydraulic Indoor Unit Controller 4 Heating mode

- 1. Automatic mode**
Comfort/Reduce mode switching automatically according to time program
- 2. Reduce mode**
Constant reduce temperature

- 3. Comfort mode**
Constant comfort temperature
- 4. Protection mode**
Stand-by mode with anti-frost protection

WATERSTAGE™ Lineup

Capacity (kW)	5	6	8	10	11	14	15	16	17
Split	Super High Power series Single phase								
	Hydraulic Indoor Unit/ Outdoor Unit							WSYG160DJ6 / WOYG160LJL	
	Super High Power series 3 phase								
	Hydraulic Indoor Unit/ Outdoor Unit						WSYK170DJ9 / WOYK150LJL		WSYK170DJ9 / WOYK170LJL
Split	High Power series Single phase								
	Hydraulic Indoor Unit/ Outdoor Unit				WSYG140DG6 / WOYG112LHT	WSYG140DG6 / WOYG140LCTA			
	High Power series 3 phase								
	Hydraulic Indoor Unit/ Outdoor Unit				WSYK160DG9 / WOYK112LCTA	WSYK160DG9 / WOYK140LCTA		WSYK160DG9 / WOYK160LCTA	
Split	Comfort series								
	Hydraulic Indoor Unit/ Outdoor Unit	WSYA050DG6 / WOYA060LFCA	WSYA100DG6 / WOYA060LFCA	WSYA100DG6 / WOYA080LFCA	WSYA100DG6 / WOYA100LFTA				
	Super High Power series Single phase								
	Hydraulic Indoor Unit/ Outdoor Unit							WGYK160DJ6 / WOYK160LJL	
Split DHW Integrated	Super High Power series 3 phase								
	Hydraulic Indoor Unit/ Outdoor Unit						WGYK170DJ9 / WOYK150LJL		WGYK170DJ9 / WOYK170LJL
	High Power series Single phase								
	Hydraulic Indoor Unit/ Outdoor Unit				WGYG140DG6 / WOYG112LHT	WGYG140DG6 / WOYG140LCTA			
Split DHW Integrated	High Power series 3 phase								
	Hydraulic Indoor Unit/ Outdoor Unit				WGYK160DG9 / WOYK112LCTA	WGYK160DG9 / WOYK140LCTA		WGYK160DG9 / WOYK160LCTA	
	Comfort series								
	Hydraulic Indoor Unit/ Outdoor Unit	WGYA050DG6 / WOYA060LFCA	WGYA100DG6 / WOYA060LFCA	WGYA100DG6 / WOYA080LFCA	WGYA100DG6 / WOYA100LFTA				

EHPA Quality Label



Fujitsu General's WATERSTAGE* have obtained the EHPA Quality Label** by tests according to the international Standards EN14511 and EN17025. The EHPA Quality Label** is a label that shows the end-consumer a quality heat pump unit on the market.

*: only High Power 3phase

** : Check the validity of label at www.ehpa.org/quality/quality-label/

SG-Ready Label



SG-Ready is a defined standard by BWP***, which makes it possible that the device can be integrated into a smart grid. Heat pumps, which are equipped with the SG-Ready Label, can receive signals from the power grid (and e.g. also from PV systems) about the available (unused renewable) energy (from wind, sun & water). Fujitsu General provides the SG-Ready compatibility to all new Heat Pumps series.

***BWP: the Federal German Heat Pump Association

Split Type / Split DHW Integrated Type



Split Type

Super high power series

Hydraulic indoor unit:
WSYG160DJ6/[3 phase] WSYK170DJ9
Outdoor unit:
WOYG160LJL
[3 phase] WOYK150LJL/WOYK170LJL



Hydraulic indoor unit
Single Phase/
3 Phase

Outdoor unit
Single Phase 16kW
3 Phase 15/17kW

High power series

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



Hydraulic indoor unit
Single Phase/
3 Phase

Outdoor unit
Single Phase
11/14 kW
3 Phase
11/14/16 kW

Comfort series

Hydraulic indoor unit:
WSYA050DG6/WSYA100DG6
Outdoor unit:
WOYA060LFCA/WOYA080LFCA/
WOYA100LFTA



Hydraulic indoor unit
Single Phase

Outdoor unit
Single Phase
5/6/8kW
Single Phase
10kW

Split DHW Integrated Type

Super high power series

Hydraulic indoor unit:
WGYG160DJ6/[3 phase] WGYK170DJ9
Outdoor unit:
WOYG160LJL
[3 phase] WOYK150LJL/WOYK170LJL



Hydraulic indoor unit
Single Phase/
3 Phase

Outdoor unit
Single Phase 16kW
3 Phase 15/17kW

High power series

Hydraulic indoor unit:
WGYG140DG6/[3 phase] WGYK160DG9
Outdoor unit:
WOYG112LHT/WOYG140LCTA
[3 phase] WOYK112LCTA/WOYK140LCTA/
WOYK160LCTA



Hydraulic indoor unit
Single Phase/
3 Phase

Outdoor unit
Single Phase
11/14 kW
3 Phase
11/14/16 kW

Comfort series

Hydraulic indoor unit:
WGYA050DG6/WGYA100DG6
Outdoor unit:
WOYA060LFCA/WOYA080LFCA/
WOYA100LFTA



Hydraulic indoor unit
Single Phase

Outdoor unit
Single Phase
5/6/8 kW
Single Phase
10 kW

High leaving water temperature

Super High power series:

High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters. And it's possible to supply 55°C at -22°C outdoor temperature without backup heater.



Super high power series

High power series:

High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.



High power series

Comfort series:

Maximum leaving water temperature is 55°C without backup heater. Hot water supply temperature can be maintained even at -10°C outdoor temperature.



Comfort series

* If you want to raise the hot water supply temperature, backup heaters can be used for auxiliary operation.

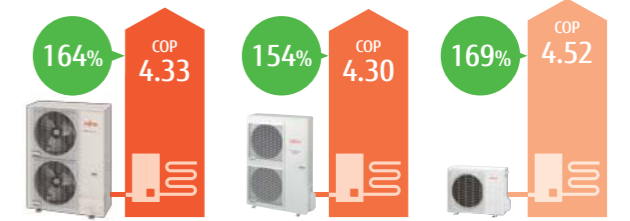
High COP

Air to water heat pumps work with much more efficiency and save more energy than a traditional heating system.

Energy efficiency class



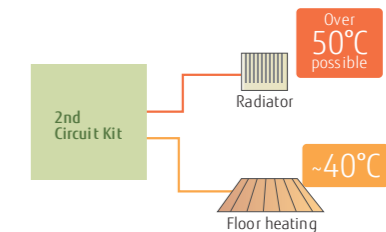
Seasonal space heating energy efficiency (ηs)



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

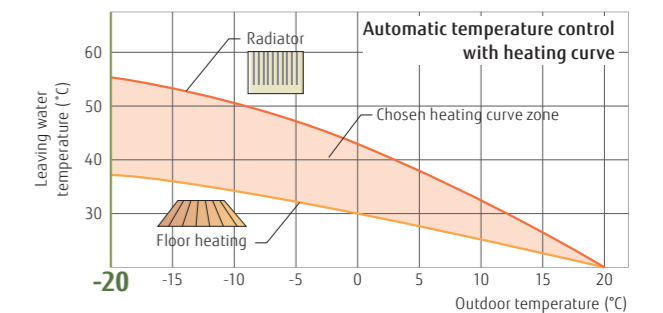
2 Zone individual control*

2 Zone individual control (2 under floor heating zones or under floor heating + radiator zone, etc.)*
*: Optional parts are required.



Automatic heating curve control

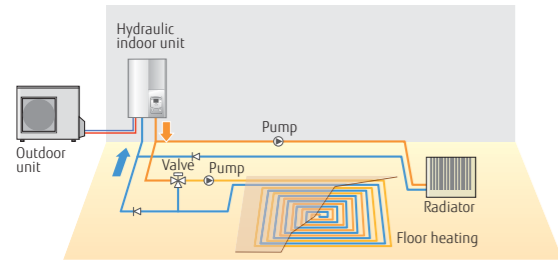
Automatic temperature regulation in accordance with heating curve (Depends on heating terminal and outdoor temperature)



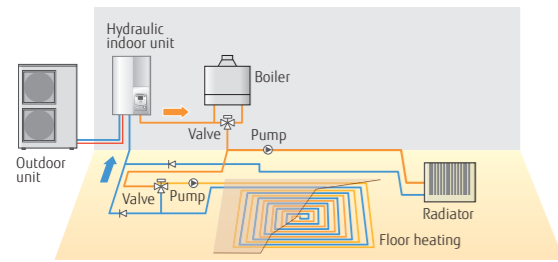
Case Studies

Split Type

2 emitter simultaneous heating (Individual control)
Floor heating + Radiator

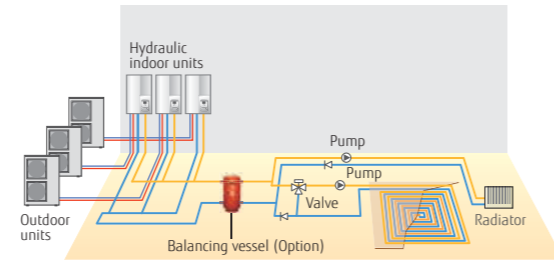


Boiler connected to heating (Boiler + Heating)

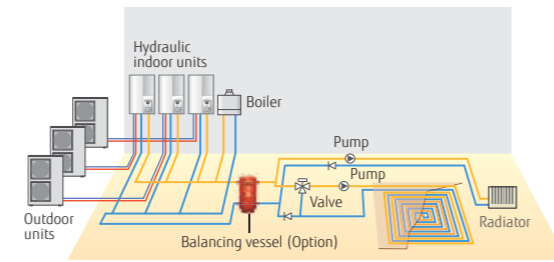


Split Cascade System

2 emitter simultaneous heating (Individual control)
Floor heating + Radiator

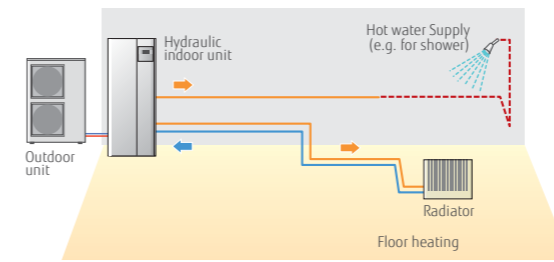


Boiler connected to heating (Boiler + Heating)

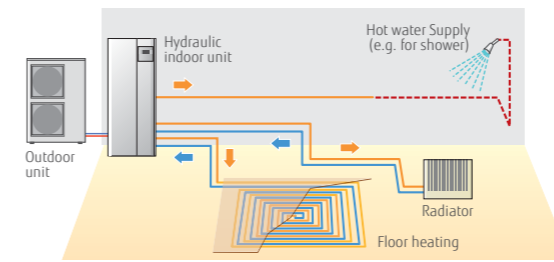


Split DHW Integrated Type

Single heating & Domestic Hot Water
Radiator + Domestic Hot Water



2 emitter simultaneous heating (Individual control) & Domestic Hot Water
Radiator + Domestic Hot Water

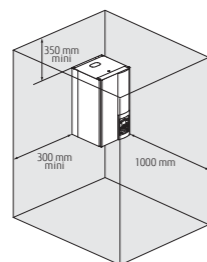


Installation Limitations

Equipment Installation

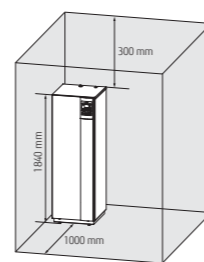
Split type Hydraulic indoor unit

- Hydraulic indoor unit is to be hang on the wall
- Weight ≤ 88 kg (including water)
- Space for maintenance should be respected



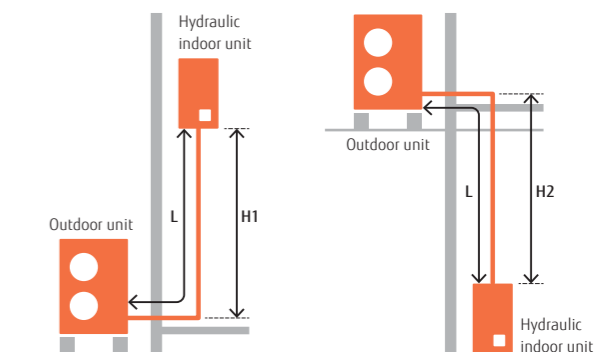
Split DHW integrated type Hydraulic indoor unit

- Floor stand
- Weight ≤ 393 kg (including water)
- Space for maintenance should be respected.



Piping and Wiring split type

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



Specifications & Dimensions

for Split Type Super High Power Series

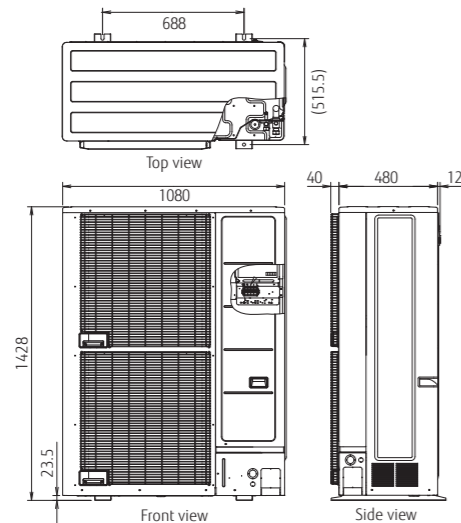
Specifications

		Tentative					
Model Name	Hydraulic indoor unit / Outdoor unit	WSYG160DJ6 / WOYG160LJL	WSYK170DJ9 / WOYK150LJL	WSYK170DJ9 / WOYK170LJL			
Capacity range		16	15	17			
7°C/35°C floor heating *1	Heating capacity	kW		16.00	15.00	17.00	
	Input power	kW		3.86	3.46	4.10	
	COP	kW		4.15	4.33	4.15	
2°C/35°C floor heating *1	Heating capacity	kW		13.30	13.20	13.50	
	Input power	kW		4.25	4.06	4.27	
	COP	kW		3.13	3.25	3.16	
-7°C/35°C floor heating *1	Heating capacity	kW		14.50	13.20	15.00	
	Input power	kW		5.27	4.55	5.32	
	COP	kW		2.75	2.90	2.82	
Space heating characteristics**							
Temperature application	°C	55	35	55	35	55	35
Energy efficiency class		A++	A++	A++	A++	A++	A++
Rated heat output (P _{rated})	kW	14	16	16	17	17	18
Seasonal space heating energy efficiency (η _s)	%	125	163	130	164	130	161
Annual energy consumption	kWh	8,757	8,014	9,915	8,606	10,232	9,059
Sound power level	Hydraulic indoor unit	dB(A)		45	45	45	45
	Outdoor unit	dB(A)		67	66	67	68
Hydraulic indoor unit Specification							
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	27.3/61.4	
Buffer tank capacity	L	25		25			
Expansion vessel capacity	L	10		10			
Leaving water temperature range	Max	°C		60	60		
Water pipe connection diameter	Flow/Return	mm		Ø 25.4/Ø 25.4			
Backup heater	Capacity	kW		6.0(3.0kW×2pcs.)		9.0(3.0kW×3pcs.)	
Outdoor unit specification							
Power source		Single-phase, 230 V 50 Hz		3-phase, 400 V 50 Hz			
Current	Max	A		28.00	14.0	14.0	
Dimensions H × W × D	mm	1,428 × 1,080 × 480		1,428 × 1,080 × 480		1,428 × 1,080 × 480	
Weight (Net)	kg	137		138		138	
Refrigerant	Type (Global Warming Potential)	Charge		R410A (2,088)		R410A (2,088)	
Additional refrigerant charge amount	kg	3.80		3.80		3.80	
Connection pipe	Diameter	Liquid	mm	Ø 9.52		Ø 9.52	
		Gas	mm	Ø 15.88		Ø 15.88	
	Length	Min/Max	m	5/30		5/30	
		Length(Pre-charge)	m	15		15	
Height difference	Max	m	25/15 (Outdoor unit:Upper/Lower)		25/15 (Outdoor unit:Upper/Lower)		
Operation range	Heating	°C	-25 to 35		-25 to 35		-25 to 35

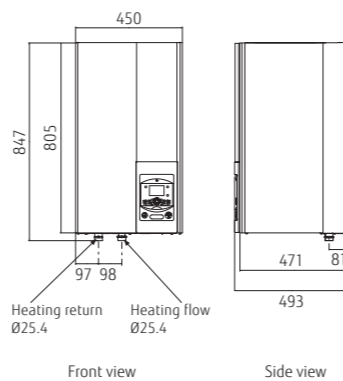
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.
 *2:All information of ErP can be available for downloaded from <https://www.fujitsu-general.com/global/support/downloads/search/index.html>

Dimensions

Outdoor Unit:
 Single Phase: WOYG160LJL
 3 Phase: WOYK150LJL/WOYK170LJL



Hydraulic Indoor Unit:
 Single Phase : WSYG160DJ6
 3 Phase: WSYK170DJ9



for Split Type High Power Series

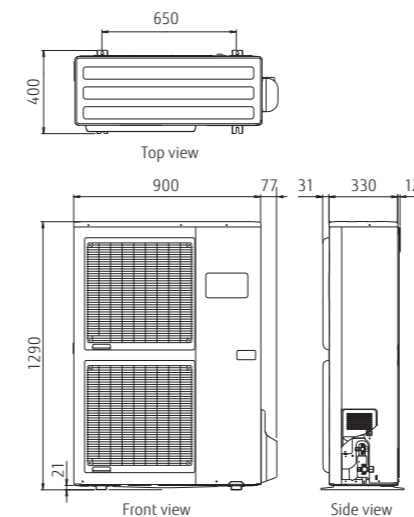
Specifications

Model Name	Hydraulic indoor unit / Outdoor unit	WSYG140DG6 / WOYG112LHT	WSYG140DG6 / WOYG140LCTA	WSYK160DG9 / WOYK112LCTA	WSYK160DG9 / WOYK140LCTA	WSYK160DG9 / WOYK160LCTA
Capacity range		11	14	11	14	16
7°C/35°C floor heating *1	Heating capacity	kW		10.80	13.50	15.17
	Input power	kW		2.54	3.23	3.70
	COP	kW		4.25	4.18	4.10
2°C/35°C floor heating *1	Heating capacity	kW		10.77	12.00	13.50
	Input power	kW		3.44	3.87	4.34
	COP	kW		3.13	3.10	3.11
-7°C/35°C floor heating *1	Heating capacity	kW		10.38	11.54	13.50
	Input power	kW		4.32	5.08	5.40
	COP	kW		2.40	2.27	2.50
Space heating characteristics**						
Temperature application	°C	55	35	55	35	55
Energy efficiency class		A+	A++	A+	A+	A+
Rated heat output (P _{rated})	kW	9	11	11	13	14
Seasonal space heating energy efficiency (η _s)	%	112	151	113	148	149
Annual energy consumption	kWh	6,704	6,062	8,041	6,824	7,408
Sound power level	Hydraulic indoor unit	dB(A)		46	46	46
	Outdoor unit	dB(A)		68	69	71
Hydraulic indoor unit Specification						
Power source		Single-phase, 230 V 50 Hz		3-phase, 400 V 50 Hz		
Dimensions H×W×D	mm	800 × 450 × 457		800 × 450 × 457		
Weight (Net)	kg	42		42		
Water circulation	Min/Max	L/min		19.5/39.0	24.4/48.7	27.4/54.8
Buffer tank capacity	L	16		16		
Expansion vessel capacity	L	8		8		
Leaving water temperature range	Max	°C		60		
Water pipe connection diameter	Flow/Return	mm		Ø 25.4/Ø 25.4		
Backup heater	Capacity	kW		6.0(3.0kW×2pcs.)		9.0(3.0kW×3pcs.)
Outdoor unit specification						
Power source		Single-phase, 230 V 50 Hz		3-phase, 400 V 50 Hz		
Current	Max	A		22.0	25.0	10.5
Dimensions H × W × D	mm	1,290 × 900 × 330		1,290 × 900 × 330		
Weight (Net)	kg	92		99		
Refrigerant	Type (Global Warming Potential)	Charge		R410A (2,088)		
Additional refrigerant charge amount	kg	2.50		2.50		
Connection pipe	Diameter	Liquid	mm	Ø 9.52		
		Gas	mm	Ø 15.88		
	Length	Min/Max	m	5/20		
		Length(Pre-charge)	m	15		
Height difference	Max	m	15			
Operation range	Heating	°C	-25 to 35			

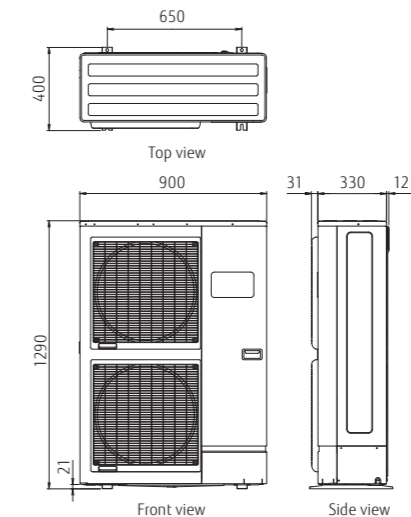
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.
 *2:All information of ErP can be available for downloaded from <https://www.fujitsu-general.com/global/support/downloads/search/index.html>

Dimensions

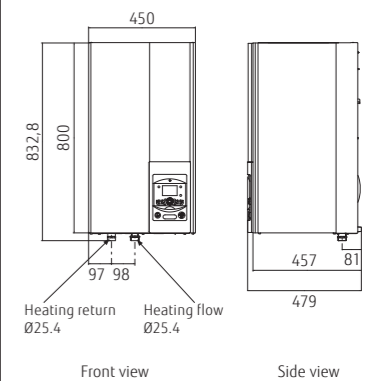
Outdoor Unit:
 Single Phase: WOYG112LHT/WOYG140LCTA



3 Phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic Indoor Unit:
 Single Phase: WSYG140DG6
 3 Phase: WSYK160DG9



for Split Type Comfort Series

Specifications

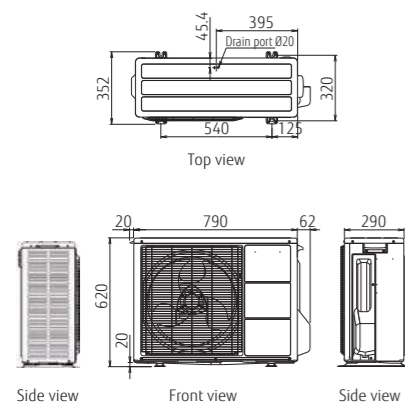
Model Name	Hydraulic indoor unit Outdoor unit	WSYA050DG6 WOYA060LFCA	WSYA100DG6 WOYA060LFCA	WSYA100DG6 WOYA080LFCA	WSYA100DG6 WOYA100LFTA						
Capacity range		5	6	8	10						
7°C/35°C floor heating *1	Heating capacity	4.50	6.00	7.50	10.00						
	Input power	0.996	1.41	1.84	2.49						
	COP	4.52	4.27	4.08	4.02						
2°C/35°C floor heating *1	Heating capacity	4.50	4.95	5.65	7.70						
	Input power	1.39	1.53	1.78	2.47						
	COP	3.24	3.24	3.17	3.12						
-7°C/35°C floor heating *1	Heating capacity	4.10	4.60	5.70	7.40						
	Input power	1.47	1.74	2.23	2.97						
	COP	2.79	2.64	2.56	2.49						
Space heating characteristics**											
Temperature application	°C	55	35	55	35	55	35	55	35		
Energy efficiency class		A+	A++	A+	A++	A+	A++	A+	A++		
Rated heat output (P _{rated})	kW	4	4	5	5	6	7	8	8		
Seasonal space heating energy efficiency (η _s)	%	115	169	115	169	118	156	113	155		
Annual energy consumption	kWh	3,026	2,160	3,180	2,505	3,886	3,375	5,415	4,415		
Sound power level	Hydraulic indoor unit	46		46		46		46			
	Outdoor unit	65	60	65	63	65	69	68	69		
Hydraulic indoor unit Specification											
Power source	Single-phase 230 V 50 Hz										
Dimensions H×W×D	mm	800 × 450 × 457									
Weight (Net)	kg	42									
Water circulation	Min/Max	L/min		L/min		L/min		L/min			
Buffer tank capacity	L	8.1/16.2		10.8/21.7		13.5/27.1		18.1/36.1			
Expansion vessel capacity	L	16									
Leaving water temperature range	Max	°C					55				
Water pipe connection diameter	Flow/Return	mm					Ø 25.4/Ø 25.4				
Backup heater	Capacity	kW					6.0(3.0kW×2pcs.)				
Outdoor unit specification											
Power source	Single-phase 230 V 50 Hz					3-phase, 400 V 50 Hz					
Current	Max	A		A		A		A			
Dimensions H × W × D	mm	12.5		17.5		17.5		18.5			
Weight (Net)	kg	41					60				
Refrigerant	Type (Global Warming Potential)	R410A (2,088)									
Additional refrigerant charge amount	Charge	kg		kg		kg		kg			
		1.10		1.40		1.80		1.80			
Connection pipe	Diameter	Liquid	mm		mm		mm		mm		
		Gas	Ø 12.7		Ø 6.35		Ø 15.88		Ø 9.52		
	Length	Min/Max	m		m		m		m		
		Length(Pre-charge)	5/30		15		15		15		
Height difference	Max	m		m		m		m			
		20		20		20		20			
Operation range	Heating	°C		°C		°C		°C			
		-20 to 35		-20 to 35		-20 to 35		-20 to 35			

*1: The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

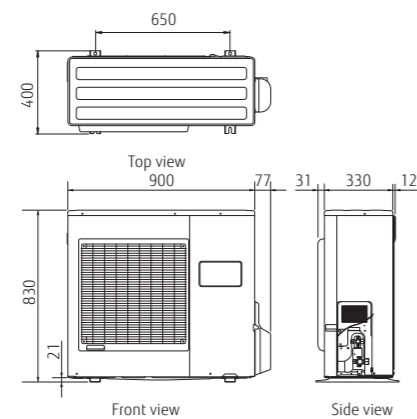
*2: All information of ErP can be available for downloaded from <https://www.fujitsu-general.com/global/support/downloads/search/index.html>

Dimensions

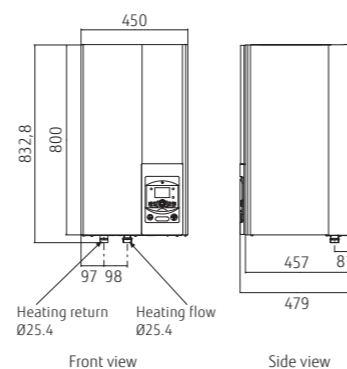
Outdoor Unit:
WOYA060LFCA/WOYA080LFCA



WOYA100LFTA



Hydraulic Indoor Unit:
WSYA050DG6/WSYA100DG6



for Split DHW Integrated Type Super High Power Series

Specifications

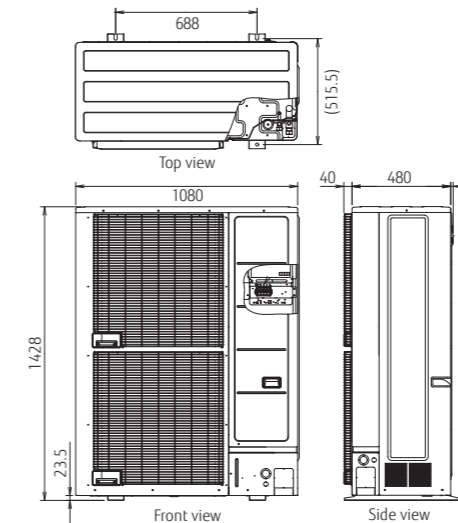
Model Name	Hydraulic indoor unit Outdoor unit	Tentative					
		WGY160DJ6 WOYG160LJL	WGYK170DJ9 WOYK150LJL	WGYK170DJ9 WOYK170LJL	WGYK170DJ9 WOYK170LJL		
Capacity range		16	15	17	17		
7°C/35°C floor heating *1	Heating capacity	16.00	15.00	17.00	17.00		
	Input power	3.86	3.46	4.10	4.10		
	COP	4.15	4.33	4.15	4.15		
2°C/35°C floor heating *1	Heating capacity	13.30	13.20	13.50	13.50		
	Input power	4.25	4.06	4.27	4.27		
	COP	3.13	3.25	3.16	3.16		
-7°C/35°C floor heating *1	Heating capacity	14.50	13.20	15.00	15.00		
	Input power	5.27	4.55	5.32	5.32		
	COP	2.75	2.90	2.82	2.82		
Space heating characteristics**							
Temperature application	°C	55	35	55	35	55	35
Energy efficiency class		A++	A++	A++	A++	A++	A++
Rated heat output (P _{rated})	kW	14	16	16	17	17	18
Seasonal space heating energy efficiency (η _s)	%	125	163	130	164	130	161
Annual energy consumption	kWh	8,757	8,014	9,915	8,606	10,232	9,059
Sound power level	Hydraulic indoor unit	45		45		45	
	Outdoor unit	67	66	67	66	67	68
Domestic hot water characteristics**							
Load profile						L	
Energy efficiency class						A	
Energy efficiency (η _{wh})						%	
Annual electricity consumption						kWh	
						941	
Hydraulic indoor unit Specification							
Power source	Single-phase, 230 V 50 Hz		3-phase, 400 V 50 Hz				
Dimensions H×W×D	mm	800 × 450 × 457		1,841 × 648 × 698			
Weight (Net)	kg	42		166			
Water circulation	L/min	8.1/16.2		24.0/54.2		27.3/61.4	
DHW capacity	L	16		190			
Hot water heater capacity	kW	6.0		1.5			
Expansion vessel capacity	L	8		12			
Leaving water temperature range	Max	°C		°C			
		55		60			
Water pipe connection diameter	Flow/Return	mm		mm			
		Ø 25.4/Ø 25.4		Ø 25.4/Ø 25.4			
Hot water pipe connection diameter		mm		mm			
		Ø 19.05		Ø 19.05			
Backup heater	Capacity	kW		kW			
		6.0(3.0kW×2pcs.)		9.0(3.0kW×3pcs.)			
Outdoor unit specification							
Power source	Single-phase, 230 V 50 Hz		3-phase, 400 V 50 Hz				
Current	Max	A		A			
		28.0		14.0			
Dimensions H × W × D	mm	1,428 × 1,080 × 480		1,428 × 1,080 × 480			
Weight (Net)	kg	137		138			
Refrigerant	Type (Global Warming Potential)	R410A (2,088)		R410A (2,088)			
Additional refrigerant charge amount	Charge	kg		kg			
		3.80		3.80			
Connection pipe	Diameter	Liquid	mm		mm		
		Gas	Ø 9.52		Ø 9.52		
	Length	Min/Max	m		m		
		Length(Pre-charge)	5/30		5/30		
Height difference	Max	m		m			
		15		15			
Operation range	Heating	°C		°C			
		-25 to 35		-25 to 35			

*1: The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.

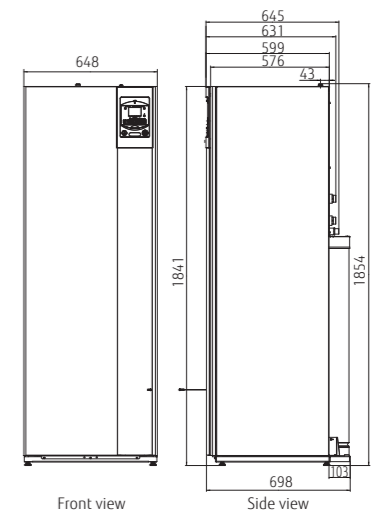
*2: All information of ErP can be available for downloaded from <https://www.fujitsu-general.com/global/support/downloads/search/index.html>

Dimensions

Outdoor Unit:
Single Phase: WOYG160LJL
3 Phase: WOYK150LJL/WOYK170LJL



Hydraulic Indoor Unit:
Single Phase: WGY160DJ6
3 Phase: WGYK170DJ9



for Split DHW Integrated Type High Power Series

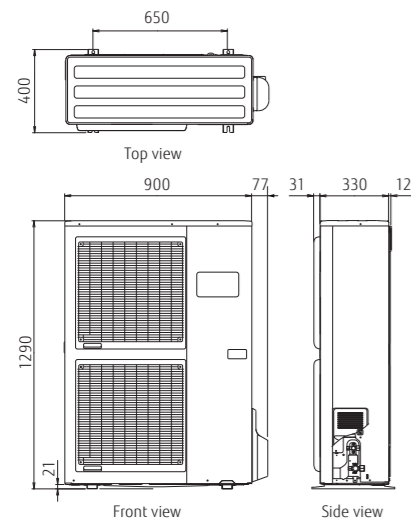
Specifications

Model Name	Hydraulic indoor unit Outdoor unit	WGYG140DG6 WOYG112LHT	WGYG140DG6 WOYG140LCTA	WGYK160DG9 WOYK112LCTA	WGYK160DG9 WOYK140LCTA	WGYK160DG9 WOYK160LCTA
Capacity range						
7°C/35°C floor heating *1	Heating capacity	10.80	13.50	10.80	13.50	15.17
	Input power	2.54	3.23	2.51	3.20	3.70
	COP	4.25	4.18	4.30	4.22	4.10
2°C/35°C floor heating *1	Heating capacity	10.77	12.00	10.77	13.00	13.50
	Input power	3.44	3.87	3.40	4.15	4.34
	COP	3.13	3.10	3.17	3.13	3.11
-7°C/35°C floor heating *1	Heating capacity	10.38	11.54	10.38	12.20	13.50
	Input power	4.32	5.08	4.28	5.13	5.40
	COP	2.40	2.27	2.43	2.38	2.50
Space heating characteristics**						
Temperature application	°C	55	35	55	35	55
Energy efficiency class		A+	A++	A+	A+	A+
Rated heat output (P _{rated})	kW	9	11	11	13	14
Seasonal space heating energy efficiency (η _s)	%	112	151	113	148	112
Annual energy consumption	kWh	6,704	6,062	8,041	6,824	6,669
Sound power level	Hydraulic indoor unit	46		46		46
	Outdoor unit	68		69		71
Domestic hot water characteristics**						
Load profile		L				
Energy efficiency class		A				
Energy efficiency (η _{wh})	%	88				
Annual electricity consumption	kWh	1166				
Hydraulic indoor unit Specification						
Power source		Single-phase 230 V 50 Hz			3-phase, 400 V 50 Hz	
Dimensions H×W×D	mm	1,840×648×698			1,840×648×698	
Weight (Net)	kg	152			152	
Water circulation	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				
Expansion vessel capacity	L	12				
Leaving water temperature range	Max °C	60				
Water pipe connection diameter	Flow/Return	Ø 25.4/Ø 25.4				
Hot water pipe connection diameter	mm	Ø 19.05				
Backup heater	Capacity	6.0(3.0kW×2pcs.)			9.0(3.0kW×3pcs.)	
Outdoor unit specification						
Power source		Single-phase 230 V 50 Hz			3-phase, 400 V 50 Hz	
Current	Max	A	22.0	25.0	9.0	10.5
Dimensions H × W × D	mm	1,290 × 900 × 330			1,290 × 900 × 330	
Weight (Net)	kg	92			99	
Refrigerant	Type (Global Warming Potential)	R410A (2,088)				
Additional refrigerant charge amount	Charge	kg	2.50			50
Connection pipe	Diameter	Liquid	Ø 9.52			
		Gas	Ø 15.88			
	Length	Min/Max	5/20			
		Length(Pre-charge)	15			
Height difference	Max	15				
Operation range	Heating	°C -25 to 35				

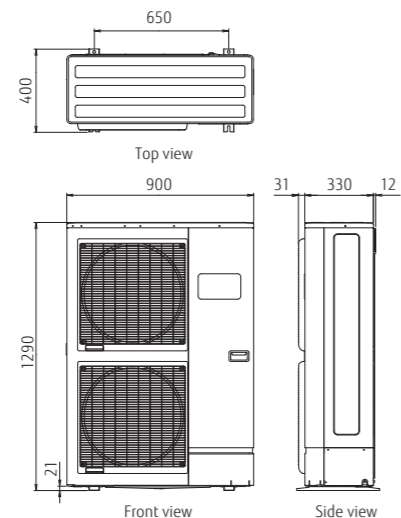
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.
*2:All information of ErP can be available for downloaded from <https://www.fujitsu-general.com/global/support/downloads/search/index.html>

Dimensions

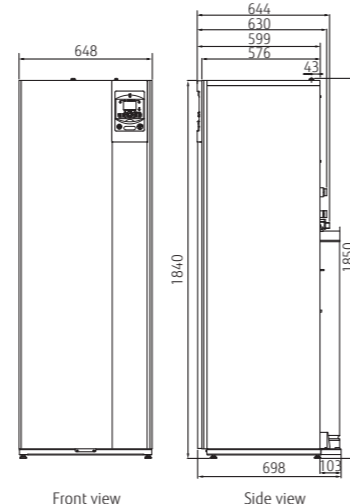
Outdoor Unit:
Single Phase: WOYG112LHT/WOYG140LCTA



3 Phase: WOYK112LCTA/WOYK140LCTA/WOYK160LCTA



Hydraulic Indoor Unit:
Single Phase: WGYG140DG6
3 Phase: WGYK160DG9



for Split DHW Integrated Type Comfort Series

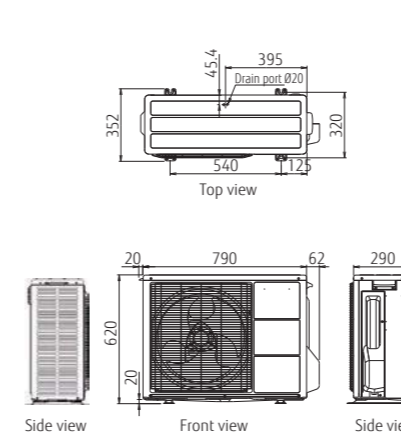
Specifications

Model Name	Hydraulic indoor unit Outdoor unit	WGYA050DG6 WOYA060LFCA	WGYA100DG6 WOYA060LFCA	WGYA100DG6 WOYA080LFCA	WGYA100DG6 WOYA100LFCA
Capacity range					
7°C/35°C floor heating *1	Heating capacity	4.50	6.00	7.50	10.00
	Input power	0.996	1.41	1.84	2.49
	COP	4.52	4.27	4.08	4.02
2°C/35°C floor heating *1	Heating capacity	4.50	4.95	5.65	7.70
	Input power	1.39	1.53	1.78	2.47
	COP	3.24	3.24	3.17	3.12
-7°C/35°C floor heating *1	Heating capacity	4.10	4.60	5.70	7.40
	Input power	1.47	1.74	2.23	2.97
	COP	2.79	2.64	2.56	2.49
Space heating characteristics**					
Temperature application	°C	55	35	55	35
Energy efficiency class		A+	A++	A+	A+
Rated heat output (P _{rated})	kW	4	4	5	5
Seasonal space heating energy efficiency (η _s)	%	115	169	115	169
Annual energy consumption	kWh	3,026	2,160	3,180	2,505
Sound power level	Hydraulic indoor unit	46		46	
	Outdoor unit	65	60	65	63
Domestic hot water characteristics**					
Load profile		L			
Energy efficiency class		A+			
Energy efficiency (η _{wh})	%	120			
Annual electricity consumption	kWh	880			
Hydraulic indoor unit Specification					
Power source		Single-phase 230 V 50 Hz			
Dimensions H×W×D	mm	1,840×648×698			
Weight (Net)	kg	152			
Water circulation	L/min	8.1/16.2	10.8/21.7	13.5/27.1	18.1/36.1
DHW capacity	L	190			
Hot water heater capacity	kW	1.5			
Expansion vessel capacity	L	12			
Leaving water temperature range	Max °C	55			
Water pipe connection diameter	Flow/Return	Ø 25.4/Ø 25.4			
Hot water pipe connection diameter	mm	Ø 19.05			
Backup heater	Capacity	6.0(3.0kW×2pcs.)			
Outdoor unit specification					
Power source		Single-phase 230 V 50 Hz			
Current	Max	A	12.5	17.5	18.5
Dimensions H × W × D	mm	620 × 790 × 290		830 × 900 × 330	
Weight (Net)	kg	41		42	
Refrigerant	Type (Global Warming Potential)	R410A (2,088)			
Additional refrigerant charge amount	Charge	kg	1.10	1.40	1.80
Connection pipe	Diameter	Liquid	Ø 6.35		
		Gas	Ø 12.70		
	Length	Min/Max	5/30		
		Length(Pre-charge)	15		
Height difference	Max	20			
Operation range	Heating	°C -20 to 35			

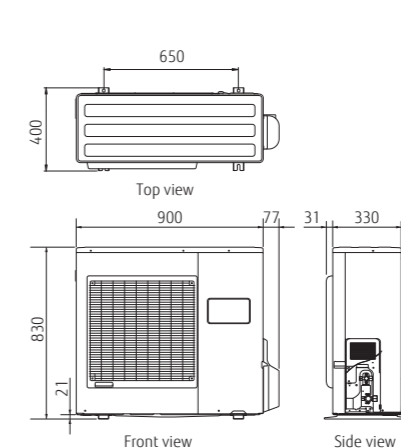
*1:The values of heating capacity/input power/COP are based on measurement of EN14511 standard. Usage environment, such as operation of the heating equipment, room temperature, and controller adjustments, may cause disparities between practically determined values and these values.
*2:All information of ErP can be available for downloaded from <https://www.fujitsu-general.com/global/support/downloads/search/index.html>

Dimensions

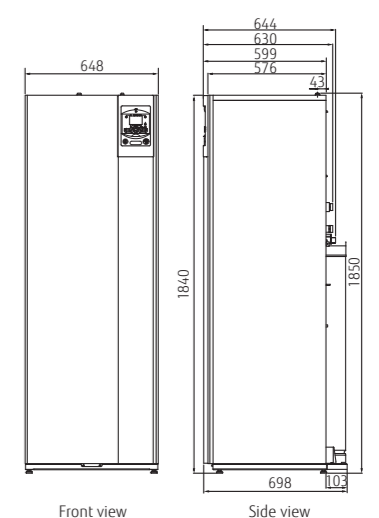
Outdoor Unit:
WOYA060LFCA/WOYA080LFCA



WOYA100LFCA



Hydraulic Indoor Unit:
WGYA050DG6/WGYA100DG6



SUPPORT

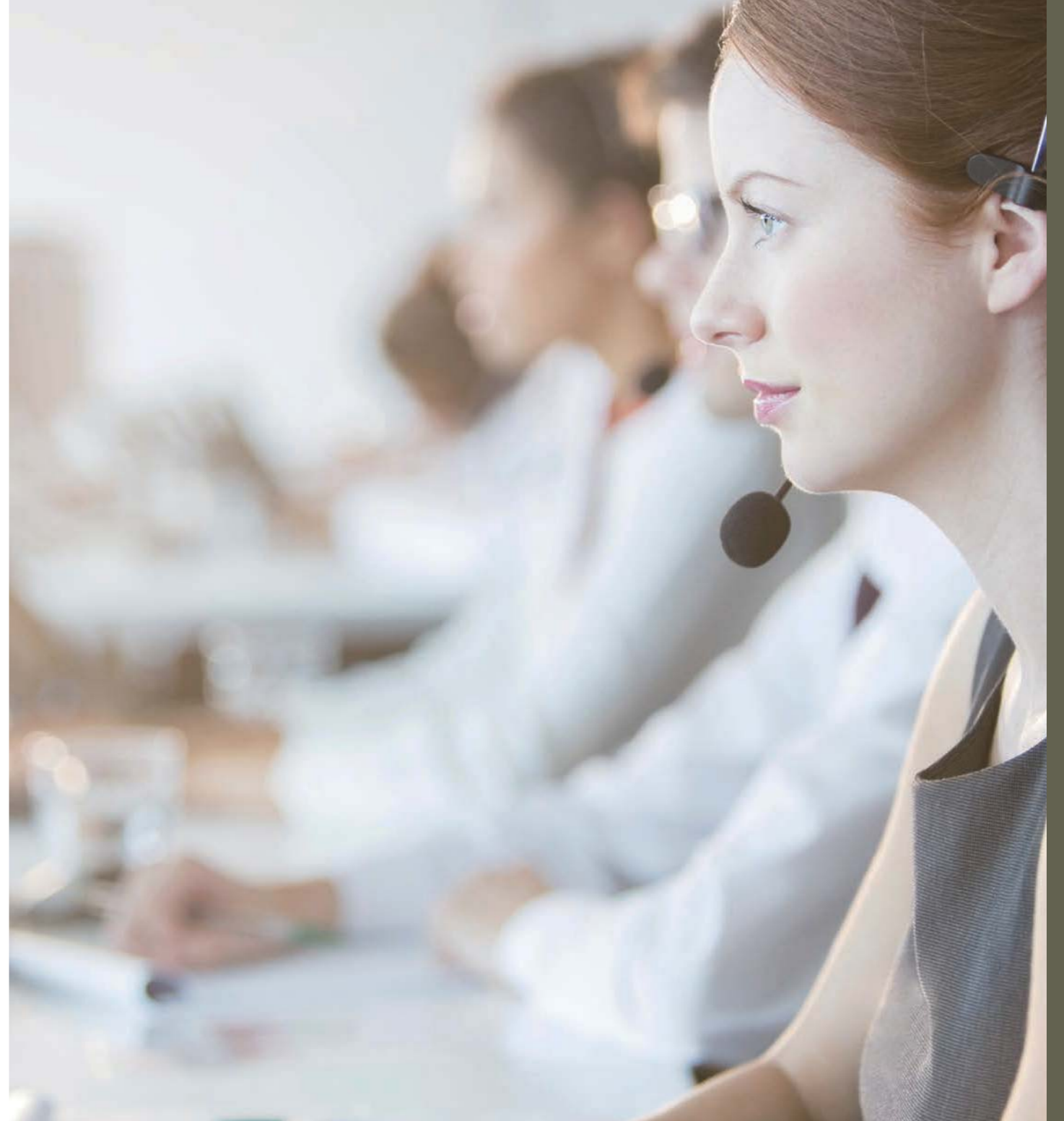
- 298 AIRSTAGE™ Support
- 300 AIRSTAGE™/RAC Support Tool
- 302 WATERSTAGE™ Support Tool
- 304 Quick Service & Maintenance
- 306 Service Tool
- 307 Web Monitoring Tool



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

Category	Information Material										Tool							
	Product Sales Training Material	Product Technical Training Material	Product news	Brochures	Feature Promotion Movie	Operating Manual	Design & Technical Manual	Certificate Data	2D CAD Data	3D CAD (Revit) Data	Installation Manual	Service Manual	WATERSTAGE™ Package label creator	Design Simulator (RAC, PAC, VRF)	WATERSTAGE™ proposer	CFD Simulation	Service Tool / Web Monitoring Tool	Mobile Technician
Product Training	●	●																
Product Information Seek			●	●	●	●												
Technical Information Seek						●	●						●					
Model Selection						●								●	●			
Design						●		●	●									
Verification																●		
Installation						●					●							
After sales and Service												●					●	●

Service & Supports Web site
<https://www.fujitsu-general.com/global/support/index.html>



AIRSTAGE™ Support

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



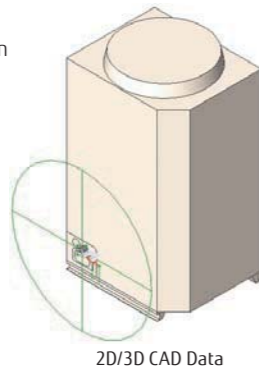
Training facilities

Technical information

We provide information and tools that are useful for air conditioning system design, such as unit performance data and tools that make model selection and estimation easy.

Features

- Design & Technical Manual
- Model Selection & Estimation
- Certificate Data
- 2D/3D CAD Data



2D/3D CAD Data

Product information

New product information is provided in the form of documents and movies for every new model released. These can be downloaded from a private section of our website. To access this website, please contact your Fujitsu representative.

Features

- Product News
- Brochures & All Manuals
- Feature Promotion Movie



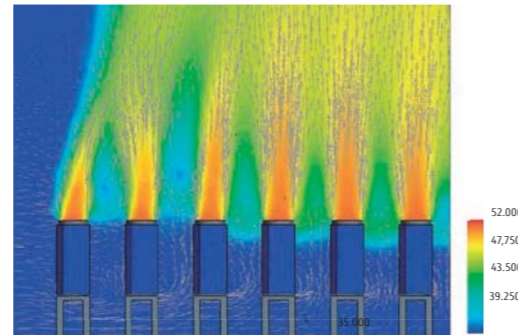
<https://www.fujitsu-general.com/uk/support/downloads/vrf/index.html>

Technical support

Technical support is provided at every stage from design to installation to assist in providing the most suitable air conditioning solution.

Features

- CFD Simulation
- Guide line
- Commissioning Support



CFD Simulation



Commissioning Support



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

Features

- Designing AIRSTAGE™ Systems
- Control System on-site training

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

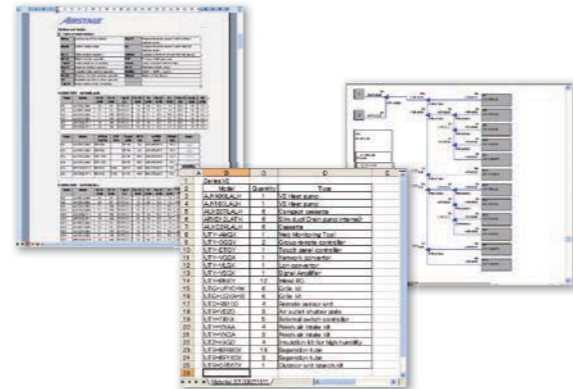
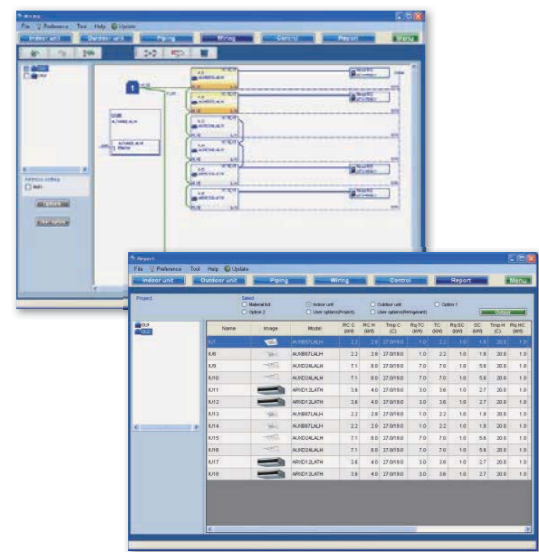
AIRSTAGE™/RAC Support Tool

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

Once your project is designed take advantage of the Export functions to easily get materials lists, product specifications, refrigerant calculations and more - it'll even export to Word, Excel, or Acrobat formats, and group the relevant CAD data for your project.



Design Simulator



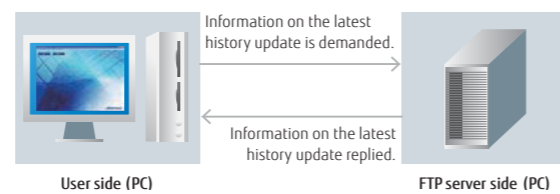
Output the format that matches the application

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

- Word format (rtf)(doc)
- Excel format (csv)
- Acrobat format (pdf)
- Auto CAD format (DXF)
- 2D Data (DXF)
- 3D Data (RFA)

Automatically create model selection information

- Each unit can be automatically set by entering the required performance, type, and temperature conditions for each indoor unit and then dragging and dropping into the outdoor unit.
- Piping and wiring diagrams can be created automatically and it is easy to set branches, grouping, and options.
- The additional refrigerant charging amount is automatically calculated when the pipe length is entered.
- It is also easy to set the remote controller groups, central controller and converters.
- The equipment list including the equipment information is created automatically.

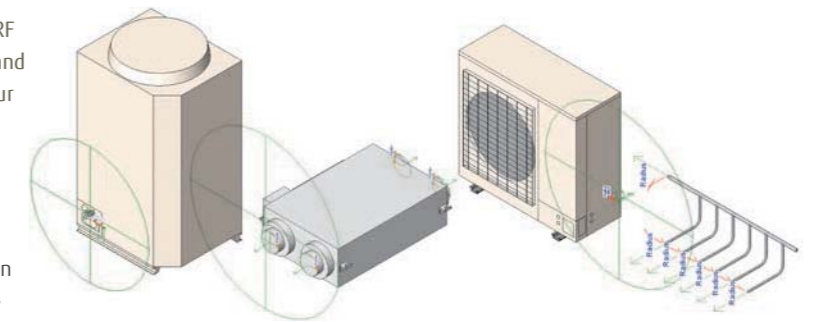


Update your Design Simulator

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

BIM Building Information Modeling

Fujitsu General provides the Building Information Modeling (BIM) object models and contents for our VRF system and some products to the architect, designer and contractor using Autodesk® Revit® technology from our Website and Autodesk® Seek Website, etc.

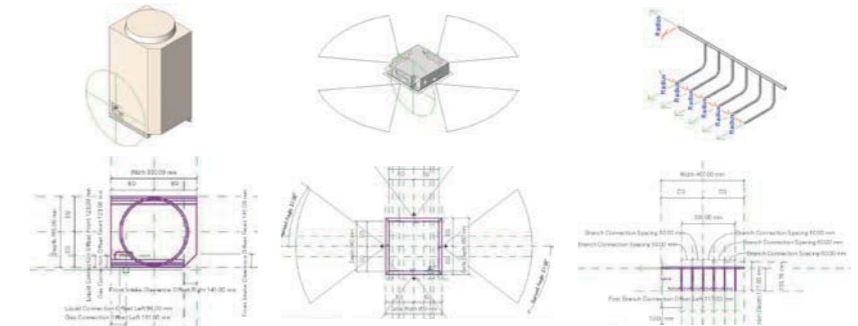


3D and 2D product data

We provide 3D data that closely resemble the actual product appearance. 2D CAD design operations are supported and 2D display is also provided. The data can also be output in other formats, such as DXF and DWG, which are used by other design CAD.

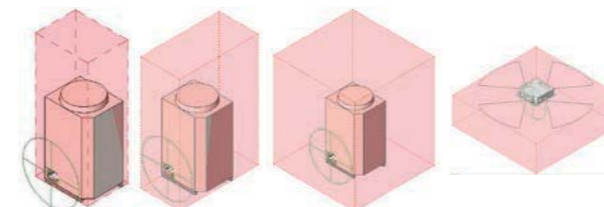
Installation limitation

The equipment installation limitation range is shown. Installation requirements, such as distance from the wall, is automatically displayed to make it easy to produce highly reliable layout designs.



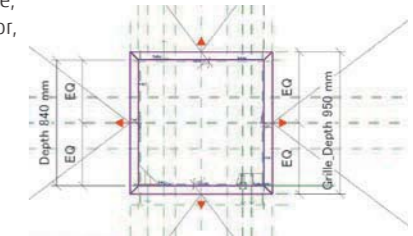
Installation information

Other information, such as symbols showing the airflow direction that are required for installation drawings, is built in and can be automatically reflected in 2D drawings. Installation drawings can be created easily.



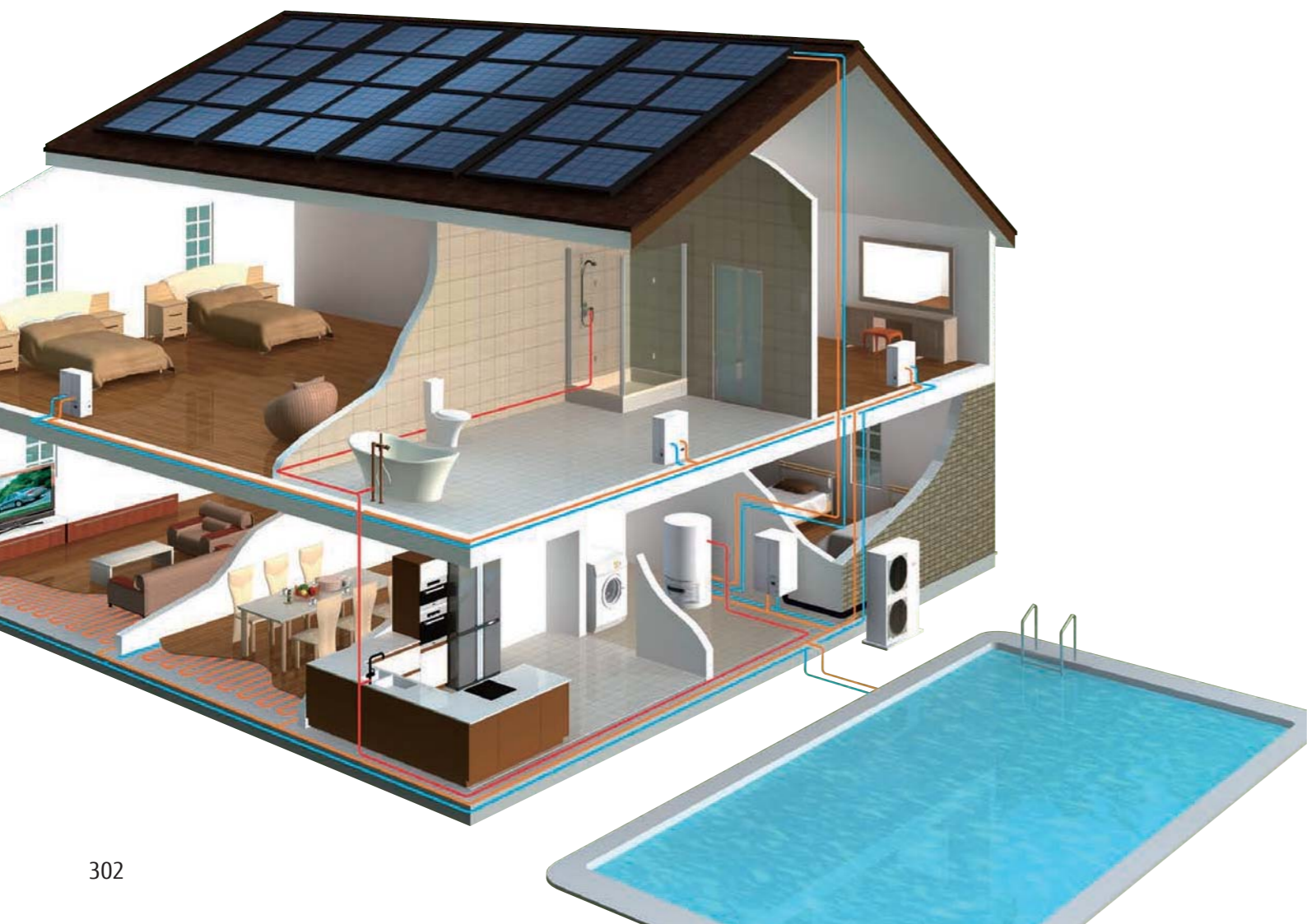
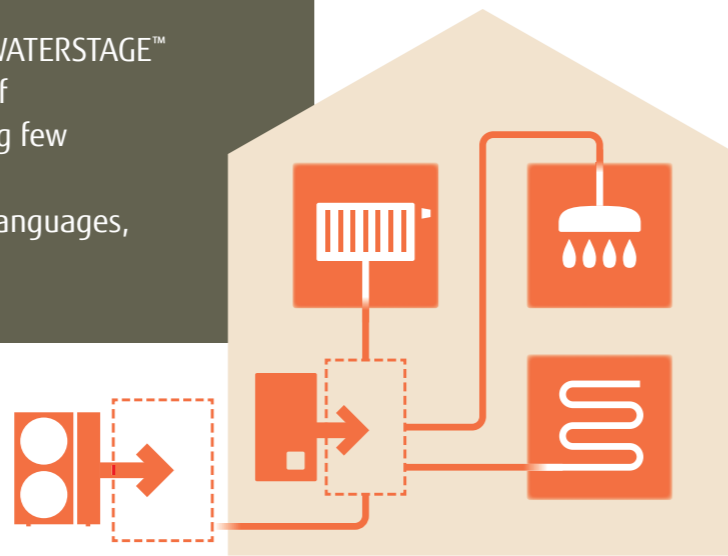
Product specifications & link information

Contains the basic information required for air conditioner design, including unit size, capacity, input power, noise, and airflow rate. These data can be procured from the Fujitsu General Website, Design Simulator, and Autodesk® Seek Website.



WATERSTAGE™ Support Tool

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



WATERSTAGE™ Proposer

Model selection with detailed technical information

- The software automatically selects the equipments just by inputting some factors, like the region where the equipment is installed, required capacity to heat up the space, and a heating method.
- The transition in the equipment capacity at each outdoor temperature condition and/or when back up heater is under operation can be easily created by this software.



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

The entire system configuration can be reviewed and modified once the units are selected. And by seeing the images and the list of equipments at the same time, it avoids a mistake in the selection of equipments.

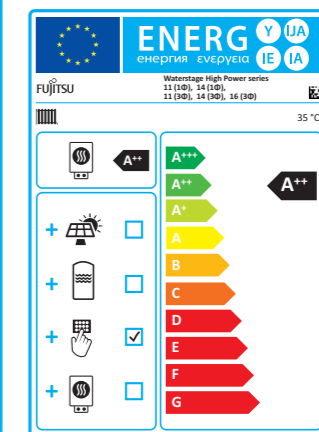
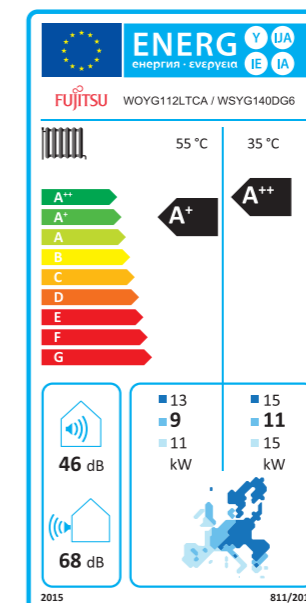
The software automatically provides graphs of monthly running cost, CO₂ emission volume, cost comparison against other heating sources, and other data to allow the users to see at a glance the financial benefit of choosing WATERSTAGE™ equipments.

WATERSTAGE™ Package label creator

Energy labels and Fiches can be downloaded from our homepage

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

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



Quick Service & Maintenance

If trouble should occur in a unit or system, abundant support tools such as trouble code display at the product, Service Tool that allows checking of the detailed status of the entire system, and remote monitoring tool that uses the internet, etc. support quick service and maintenance anywhere and at any time.



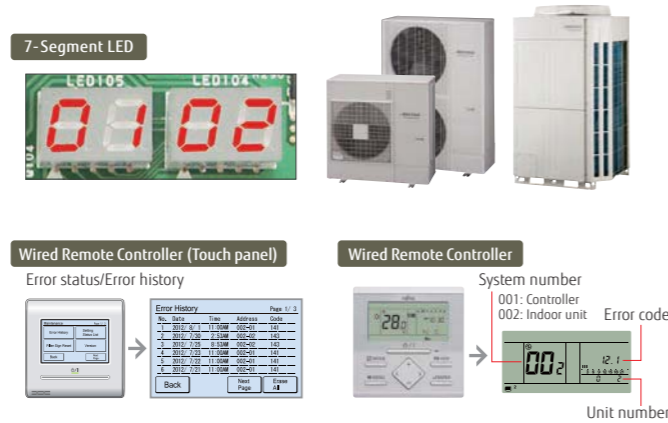
Easy maintenance & monitoring

Design for easy maintenance

The air conditioner operating status and trouble status of the detailed are displayed at the 7-segment of the outdoor unit PCB or on the remote controller screen.

The unit status can be checked rapidly and quick response is also possible.

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

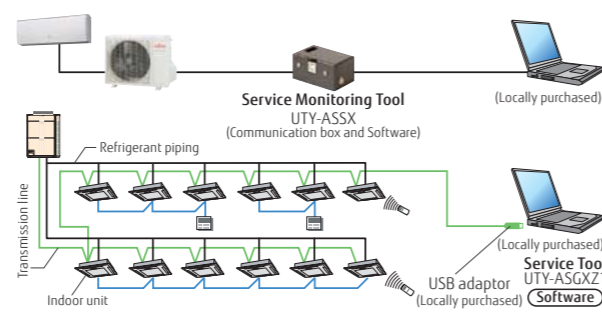


Error diagnosis by Service Tool

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

Quick countermeasures can be taken

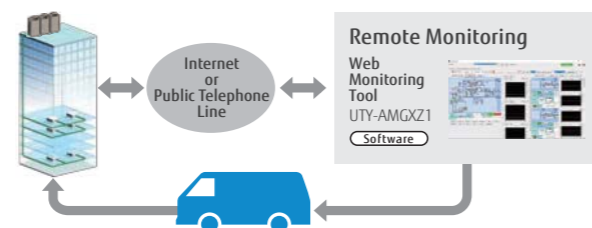
- Operation status/control
- Monitoring operating condition
- Monitoring sensor data
- Indication of trend graph
- Error history
- Indication of refrigerant circuit diagram (For VRF)



Remote monitoring

VRF system operating status and trouble status details can be constantly and remotely monitored over the Internet, etc.

Rapid cooperation with the service personnel are also possible.



Mobile Troubleshooting Tool for iPhone & Android

We will release an App of troubleshooting tool for iPhone, iPod touch and other Apple products and Android products. This application is a troubleshooting tool for Fujitsu General air conditioner (RAC/PAC, VRF, ATW, FGLair, R32 calculation of allowable refrigerant capacity)

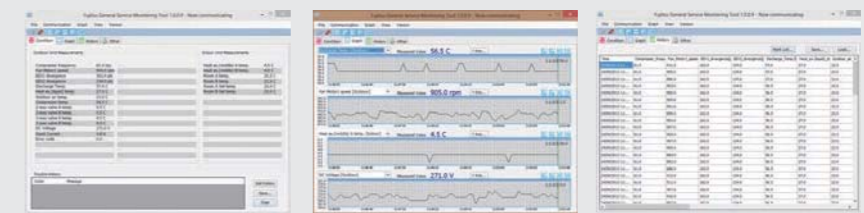
It helps you to check air conditioner condition. Error code check, Troubleshooting, and Sensor check are available.



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



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



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

Service Tool

Extensive monitoring and analysis functions for installation and maintenance

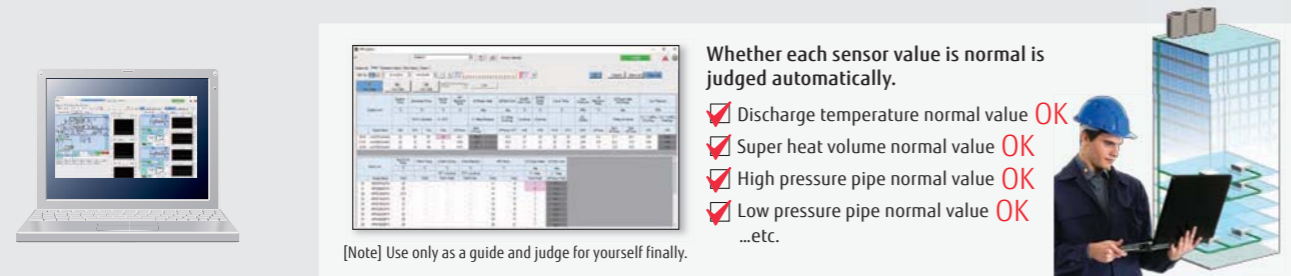
- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
-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

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

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

Automatic operation check for refrigeration cycle

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



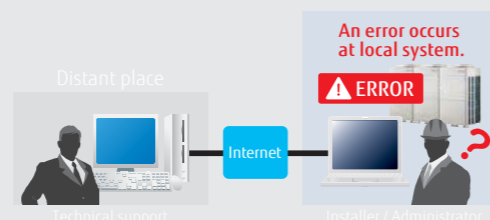
Whether each sensor value is normal is judged automatically.

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

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

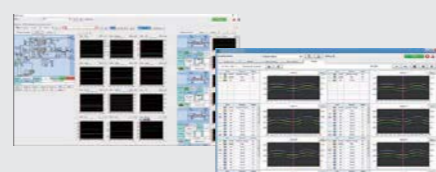
Remote technical support & maintenance

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



Various trend graph display

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



Personal computer system requirements

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

<Packing list>

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

*Personal computer that satisfies the following system requirements
 *Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

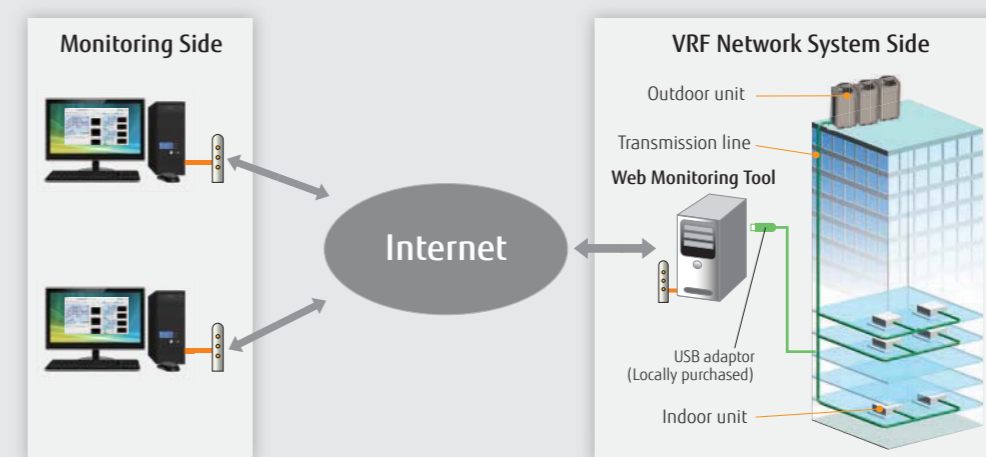
Web Monitoring Tool

Product features

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

*1: Use of internet mail system required.

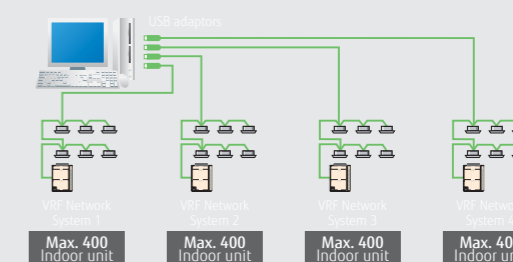
Web Monitoring System



Support 4 VRF network systems

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

Suitable for large-scale buildings or hotels.



Personal computer system requirements

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

<Packing list>

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

*Personal computer that satisfies the following system requirements
 *Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

Notice for specifications

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

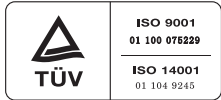
- Specifications and design are subject to change without notice for future improvement.
- For further details, please check with our authorised dealer.
- Cooling/Heating capacities are based on the following conditions.

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 test is in accordance with EN14511
- Seasonal efficiency test is in accordance with EN14825
- Sound power test is in accordance with EN12102

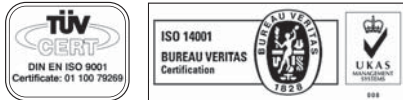


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