



AIR CONDITIONERS LINEUP

The Intelligent Choice in Comfort

PRODUCT CATALOGUE 2014

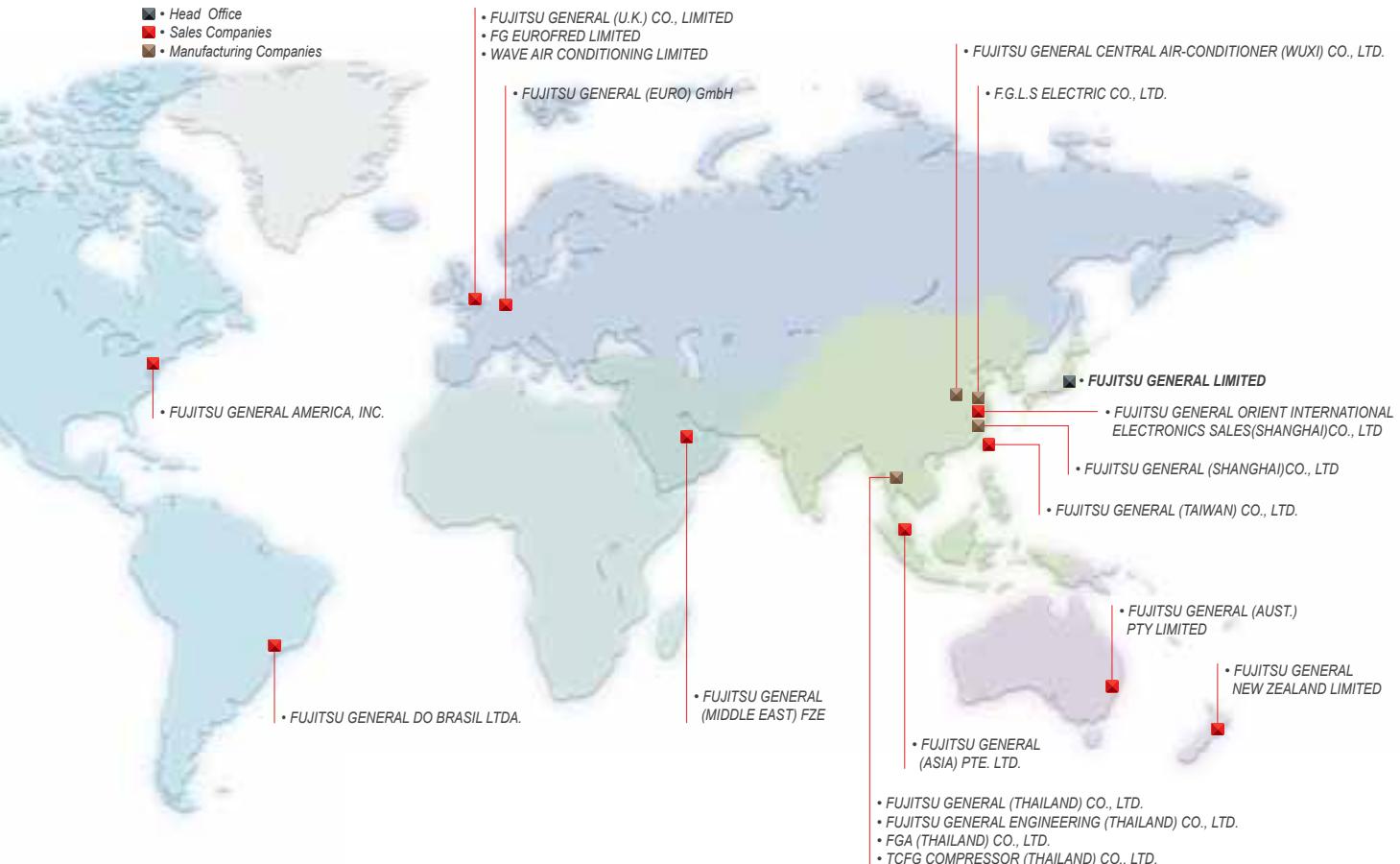
SPLIT / MULTI SPLIT / VRF / VENTILATION / AIR TO WATER

FUJITSU GENERAL LIMITED

Creation of Comfort

Fujitsu General creates high-quality and environmentally-friendly products that provide good comfort in accordance with our basic policy to a “create comfortable environment” by utilizing the air conditioning technology and creativity we have fostered over many years.

12 Overseas Sales Companies and 7 Overseas Manufacturing Companies



High Quality Development & Production Environment

JAPAN Head Office
R&D Center And 60 m Height Difference Testing Tower



Fujitsu General (Shanghai) Co., Ltd.



F.G.L.S. Electric Co., Ltd.



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



FGA (Thailand) Co., Ltd.



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

Our History Since 1936

Overseas Air Conditioning Business since 1971

1936:

Established as
Yaou Shouten Ltd.

1960:

Air conditioning business start. Japan-domestic business start.

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.

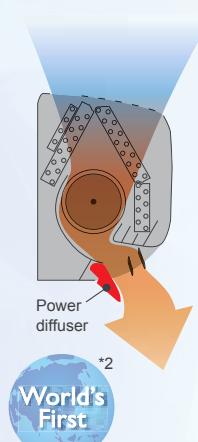
1991:

Air conditioner with the world's first lambda heat exchanger



1995:

Air conditioner with the world's first power diffuser



2001:

VRF air conditioners



2003:

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



1936

1980

1990

2000

Company Establishment

Manufacturing Company Establishment



Sales Company Establishment

1976:
North America sales company.

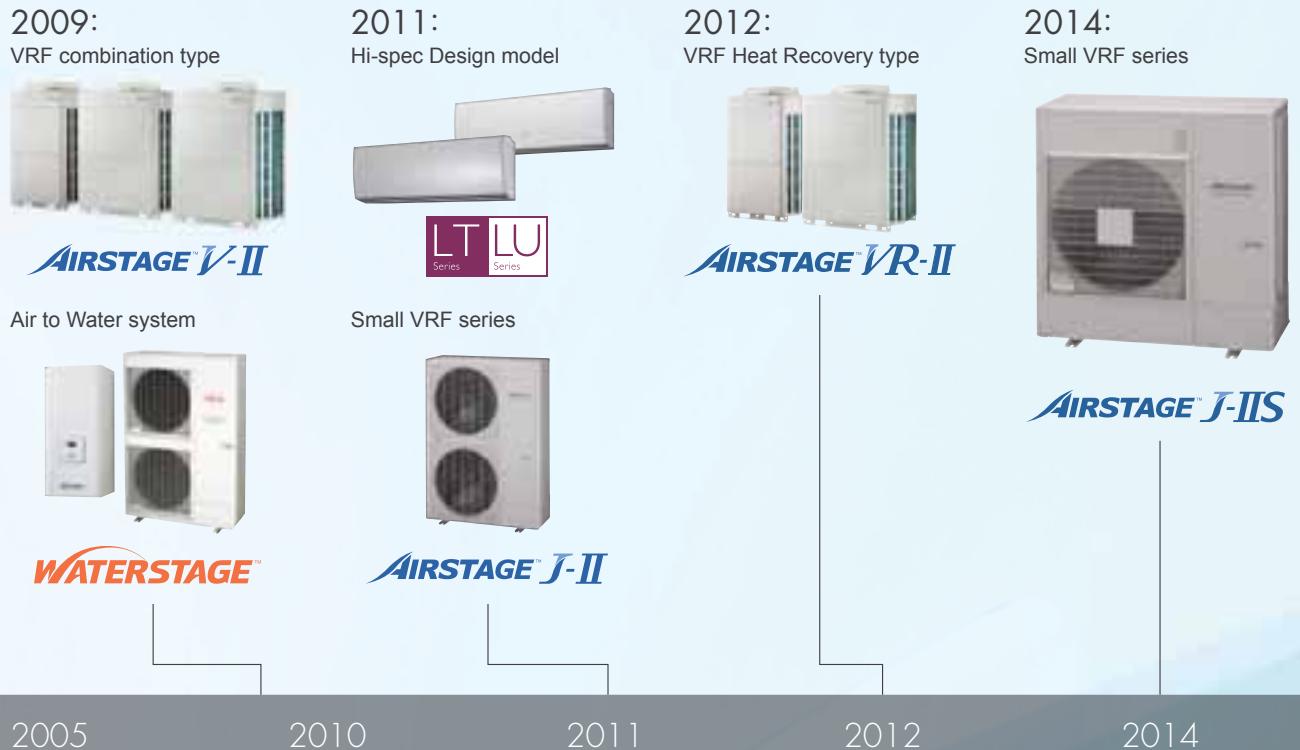
1977:
Europe sales company (UK).

1978:
Australia sales company
Europe sales company (Germany).

1980:
Brazil sales company

1997:
Asia sales company (Singapore).

*1. Announced 1991. 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 2002. In room air conditioner for the home (our company's investigation)



Advanced Research Facility and Equipment

Performance Testing

Sound testing



Calorimeter testing



Air flow testing

Transportation & Handling

Compressibility testing



Vibration testing

Reliability Testing

Severe environmental testing



Water shower testing

Fujitsu General EMC Laboratory Limited

International test site
for EMC regulation



60-m Height Difference Testing Tower

Objective is to confirm
oil circulation of
compressor for reliability



R & D Center



High Quality Assurance

Product quality assurance

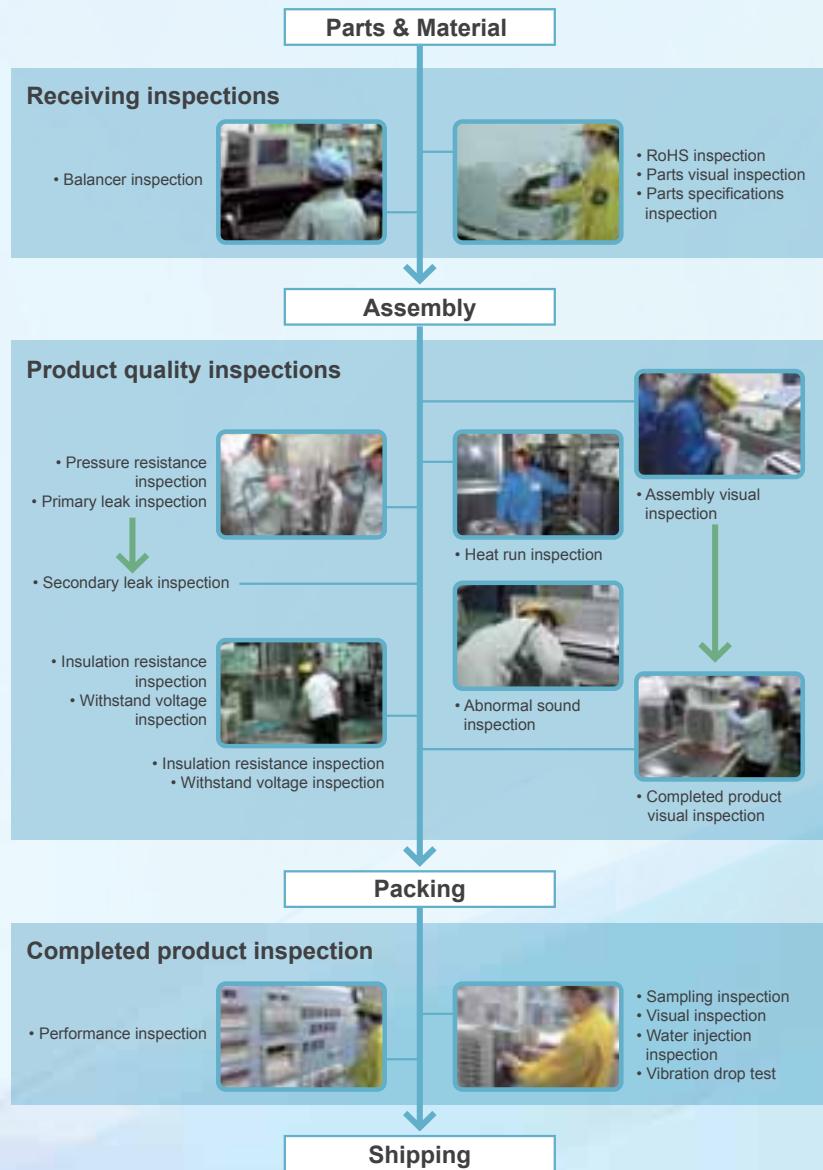
All Fujitsu General factories have acquired ISO 9001, and have built a quality control system common around the world. High quality products are offered to all over the world based on stringent quality inspections.

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.



Acquisition of ISO 9001 and ISO 14001

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.



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.



America



Training (Brazil)



Billboard (Montreal)



Call center



Distributor meeting



HVAC trade show in Brasil (FEBRAVA)

Middle East



Billboard at airport



Distributor meeting (Dubai)



Training for dealers (Middle East)



"Dealer Design Awards" of "the NEWS"



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

Europe



HVAC trade show in Europe countries



HVAC trade show in Europe countries



Presentation & training

International authoritative design awards



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



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

Oceania



Charity (Christchurch)



Training for installer



HVAC trade show in Australia



GfK retail
No.1 products in 5 years

Asia



Billboard (Tianjin)



Factory tour for primary school



Billboard (Hong Kong)



Distributor meeting



SE training



Presentation for sales companies (Myanmar)



Coolworld Industry Awards
"Most Efficient Air Conditioner"



Canstar Blue Most
Satisfied
Customers Award

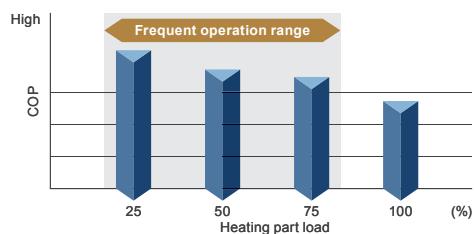


China State Construction
Engineering Luban Prize



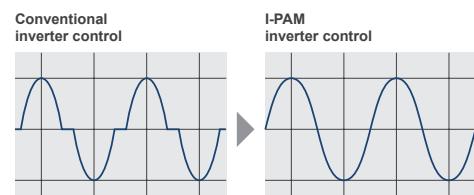
The Good Design Award is sponsored by the Japan Institute of Design Promotion and is awarded once a year for an item of excellent design.

High Efficiency



Pursuit of Seasonal Efficiency

Over 90% of actual operation time, air conditioners are operated at partial capacity instead of rated capacity. We focused on high seasonal efficiency by all DC inverter control and high efficiency technology.



Optimized Inverter Control

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.



In addition, the voltage is raised at the start of operation and fast comfort is attainable by more powerful operation.

IPM*: Intelligent Power Module

More compact than conventional models



It becomes more powerful with the newly developed high efficient compressor motor control.

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

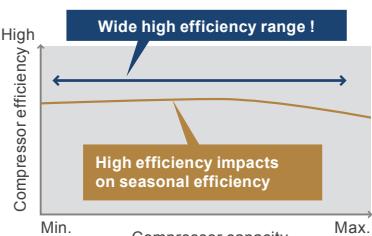
V-PAM inverter control reduces the effects of magnetic flux and increases the maximum speed and efficiency of the compressor by vector control technology. With this technology, further miniaturization, higher efficiency, and better performance are attained.



All DC Inverter Technology

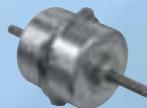
DC twin rotary compressor

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.



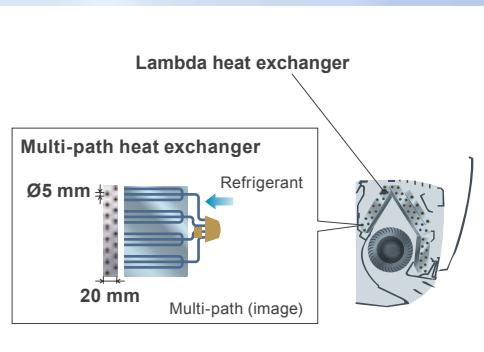
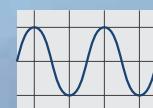
DC fan motor

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



Sine-wave DC inverter control

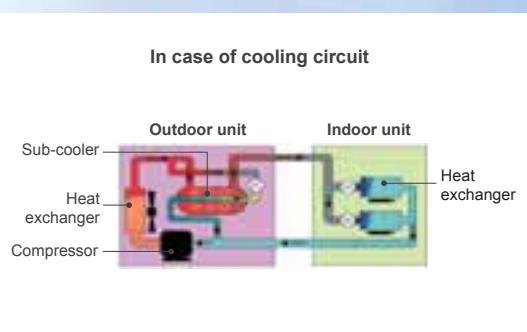
High efficiency operation is realized by using a sine wave DC inverter control.



High Efficiency Heat Exchanger

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

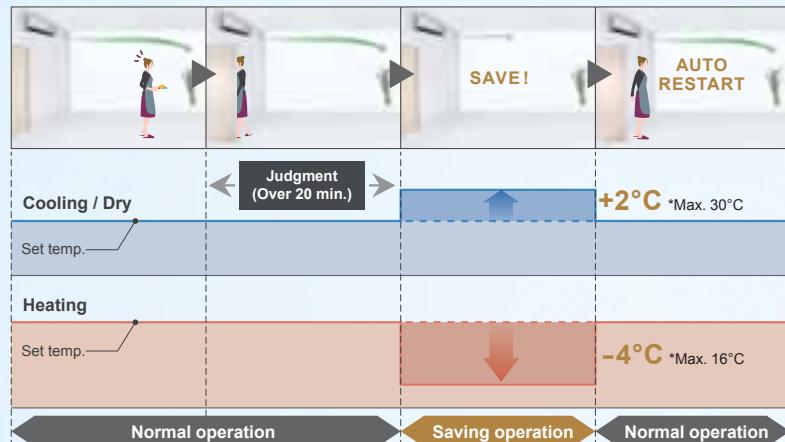
Higher performance achieved by mounting of counter type bypass circuit. (Large multi type, VRF)

Energy Saving Control

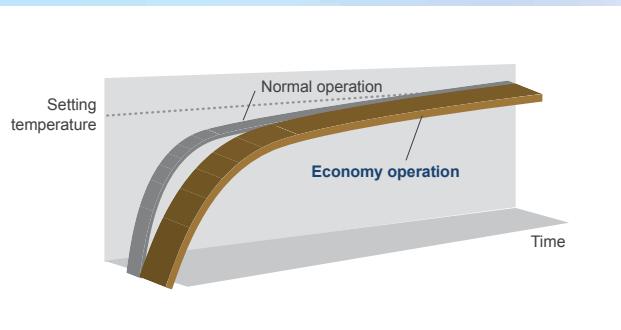
Smart Operation

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.

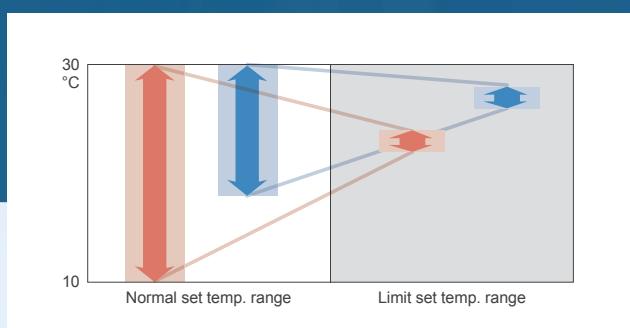


Human sensor coverage



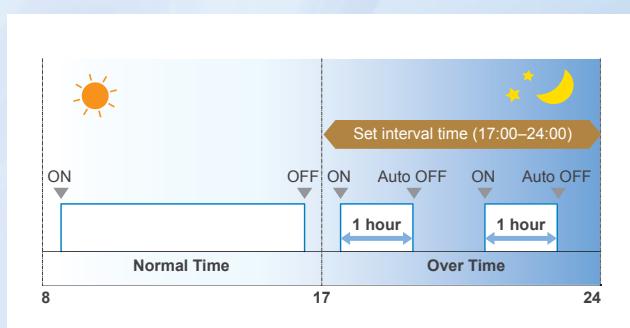
Economy operation

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



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.

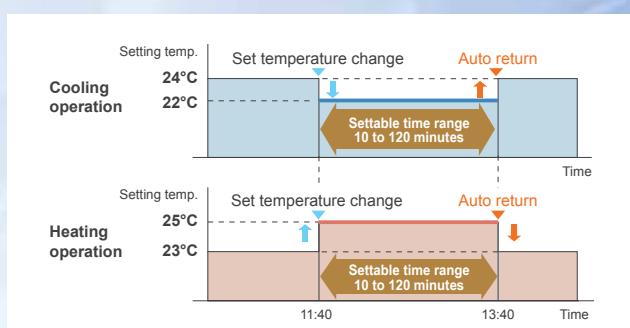


Auto-off timer

- 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.

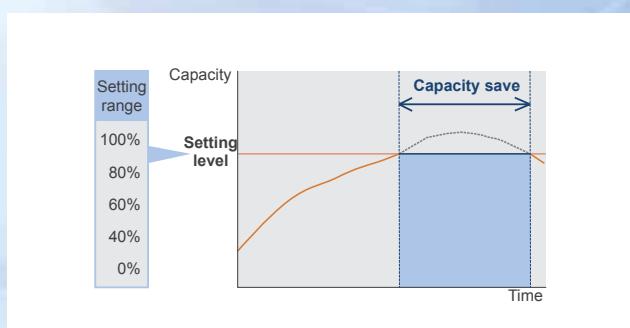


Example: At interval time hour (17:00–24:00) to prevent forgetting to turn off
Set off time : 1 hour



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.



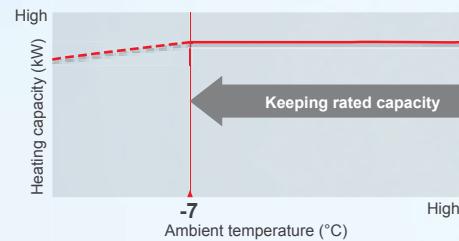
Capacity save operation

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.

Comfort Performance

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

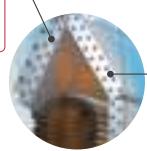


High density heat exchanger

High-density 5-mm thin tube diameter heat exchanger mounted. Capacity is enlarged including sub heat exchanger. Heat exchange efficiency substantially improved.

Sub heat exchanger

Heat exchanger volume
About 35% UP!
comparing previous model

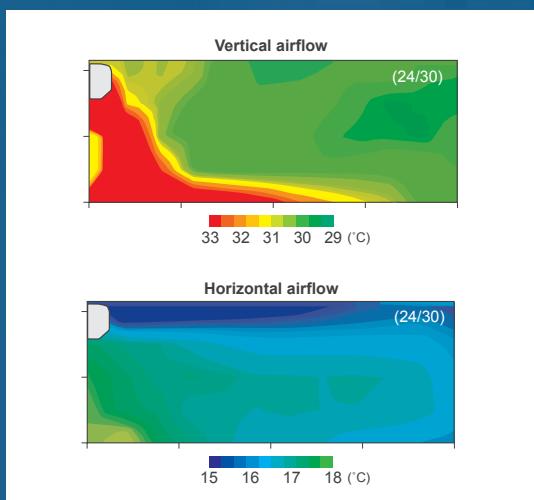


Making the tube thin:
Ø5-mm

All DC inverter technology

By All DC inverter control, electricity loss is decreased and power consumption is substantially reduced.

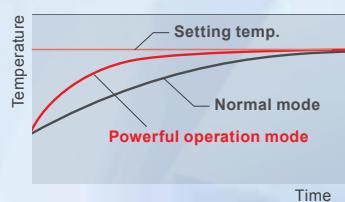




Quick Comfort

Comfort airflow

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

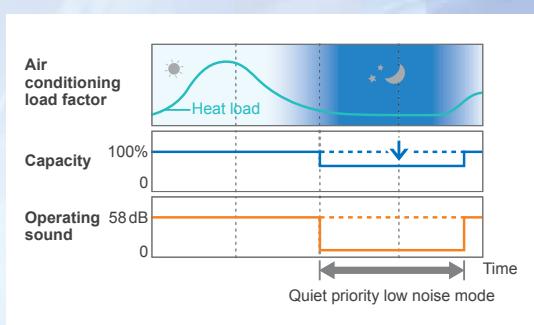


Powerful operation

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

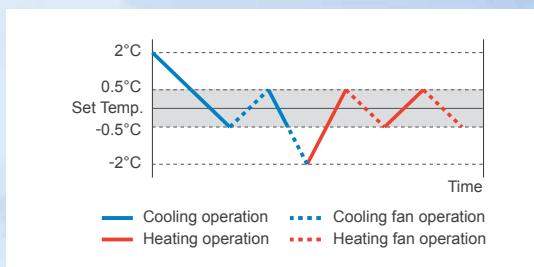
When you leave, minimum heating operation is performed to maintain the room temperature. (Maintained at 10°C)



Quiet and Comfort Control

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.

CORE TECHNOLOGY

Smart Design



LT
Series
LU
Series



Pursuit of advanced design achieving both functionality and beauty.



reddot design award
winner 2012

LM
Series



The stylish design of this simple flat panel looks thin and compact from all directions.



LL
Series

Creating Harmony and New Interior Design Space in a Variety of Installation Environments

Thinness and simplicity was thoroughly pursued in this design to fit the interior design. The lambda shaped high-density multi-path heat exchanger construction and full cover slide open panel provide both beauty and functionality. The remote controller has also been designed utilizing ergonomics for ease of use while also pursuing beauty even in the details. Fujitsu General provides its customers with highly functional air conditioners designed with high artistic sensitivity.



Wall Mounted

High Spec. & Design : ASYG09LTCA / ASYG12LTCA

High COP : ASYG07LUCA / ASYG09LUCA / ASYG12LUCA / ASYG14LUCA

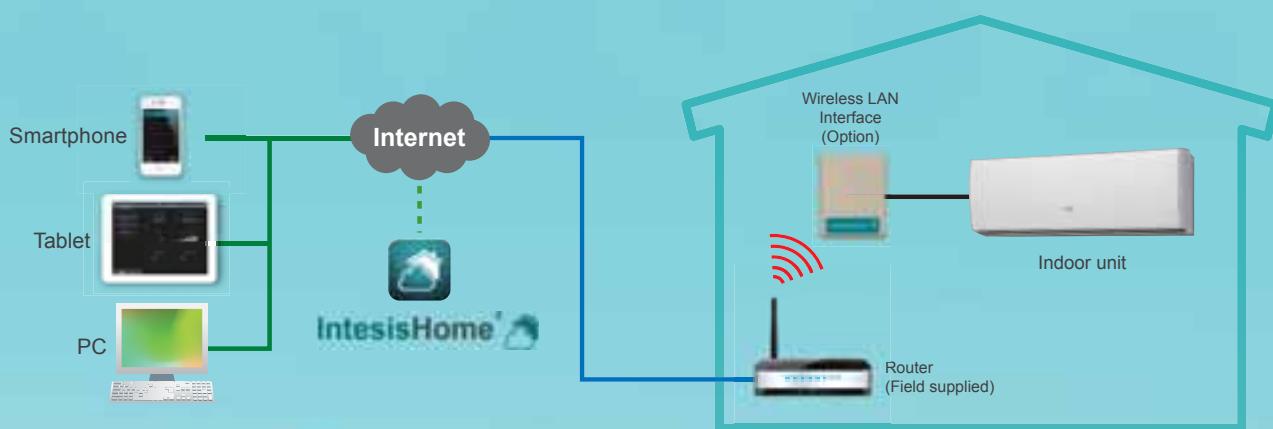
Standard : ASYG07LMCA / ASYG09LMCA / ASYG12LMCA / ASYG14LMCA

Basic : ASYG07LLCC/ASYG09LLCC/ASYG12LLCC

Easy-To-Use Control

Residential use

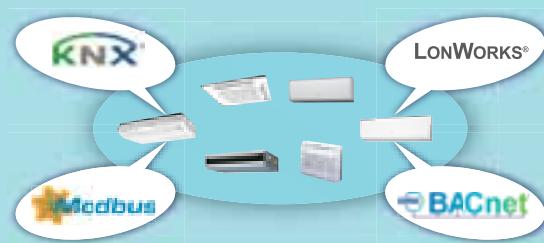
Easy air conditioner control from inside or outside the house using the Smartphones, Tablets, and PC

**NEW**

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.

Fujitsu General provides an interface that supports central management systems such as KNX®, MODBUS®, BACnet®, and LonWORKS®.

This allows customers to easily perform central control and monitoring of air conditioning equipment.





Fujitsu General provides various easy-to-use Controllers

Fujitsu General is using ergonomics to expand the use of easy-to-use designs such as easy-to-read large LCD panels, easy-to-operate buttons, and displays with easily recognizable icons.

The individual controllers match the user operational environments, and the home controller makes batch energy saving management easy. Ease of use was pursued using simple operation buttons, a large LCD screen, and other features.



Home central control



Central
Remote Controller

Simple individual control



Wired
Remote Controller



Simple
Remote Controller



Slim Wireless
Remote Controller

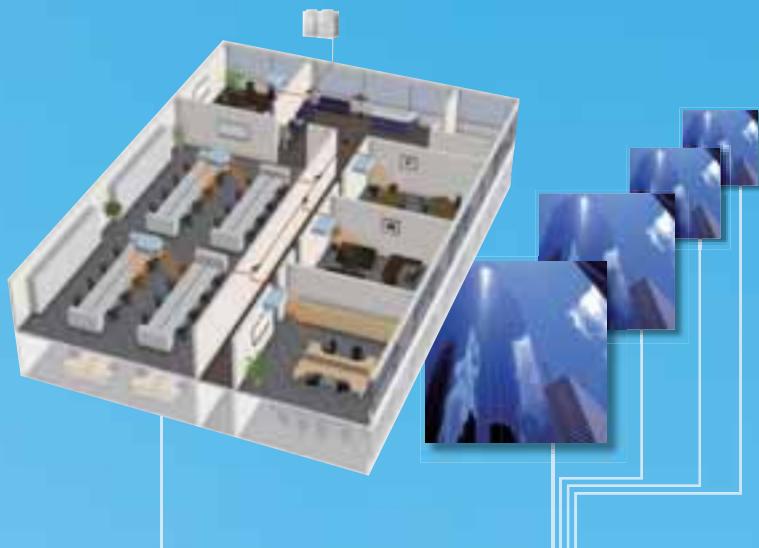
Easy-To-Use Control

Commercial use

Fujitsu General provides various easy-to-use Controllers

Fujitsu General is using ergonomics to expand the use of easy-to-use designs such as easy-to-read large LCD panels, easy-to-operate buttons, and displays with easily recognizable colors and icons.

We offer a wide range of central control equipment to meet the building air conditioning scope and application. Great care was taken to achieve a visually intuitive design and one-touch operation.



Individual & Simple central control

NEW



Touch Panel

Wired Remote Controller

Each floor or Small building management control



Touch Panel Controller

Large building management control

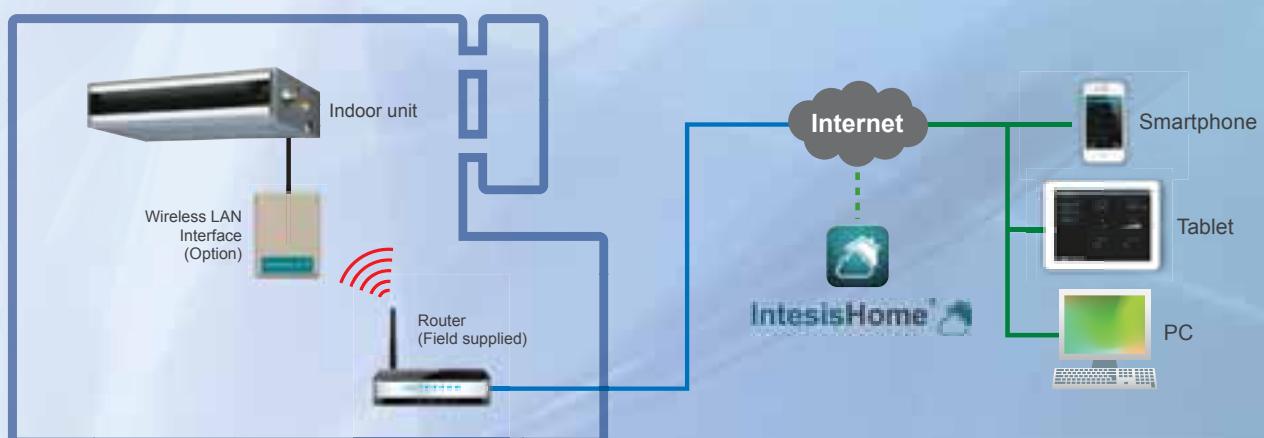


System Controller

Software



Easy air conditioner control in the office using the Smartphones, Tablets, and PC



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.

Fujitsu General provides an interface that supports central management systems such as KNX®, MODBUS®, BACnet®, and LonWORKS®.

This allows customers to easily perform central control and monitoring of air conditioning equipment.



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

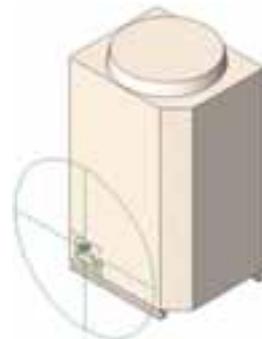


Technical information

We provide information and tools that are useful for air conditioning system design, such as unit performance data and tools that make model selection and estimation easy.

Features

- Design & Technical Manual
- Model Selection & Estimation
- Certificate Data
- 2D / 3D CAD Data



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



Training for installer

Training

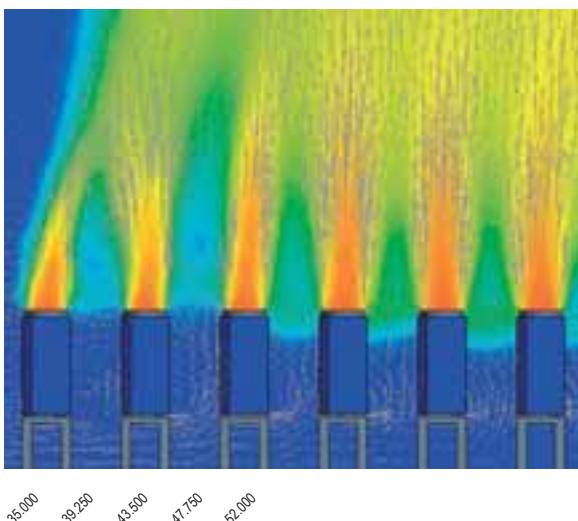
Fujitsu General has 7 training facilities around the world that regularly conduct specialized product, technical, and service training. These research facilities also support the development of people with high technical capability.

Features

- Designing AIRSTAGE™ Systems
- Control System on-site training



Presentation & training for dealers 2



Technical support

Technical support is provided at every stage from design to installation to assist in providing the most suitable air conditioning solution.

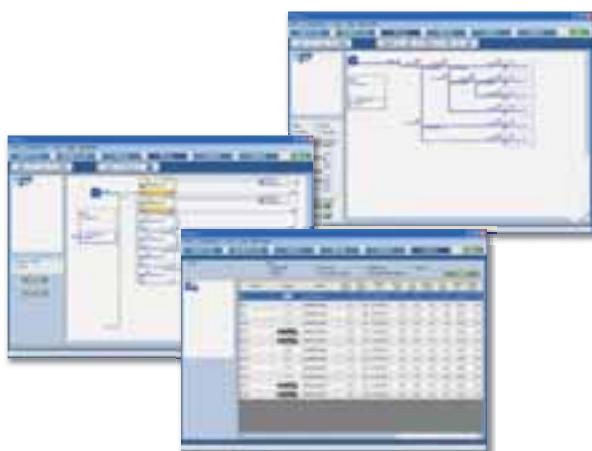
Features

- CFD Simulation
- Guide line
- Commissioning Support



Design Simulator

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 or Excel formats, and group the relevant CAD data for your project.



Automatically create model selection information

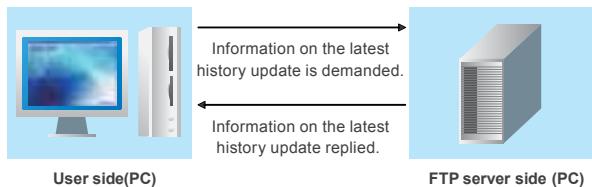
- Each unit can be automatically set by entering the required performance, type, and temperature conditions for each indoor unit and then dragging and dropping into the outdoor unit.
- Piping and wiring diagrams can be created automatically and it is easy to set branches, grouping, and options.
- The additional refrigerant charging amount is automatically calculated when the pipe length is entered.
- It is also easy to set the remote controller groups, central controller and converters.
- The equipment list including the equipment information is created automatically.



Output the format that matches the application

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

- Word format (rtf)
- Excel format (csv)
- Auto CAD format (DXF)
- 2D Data (DXF)
- 3D Data (RFA)



User side(PC)

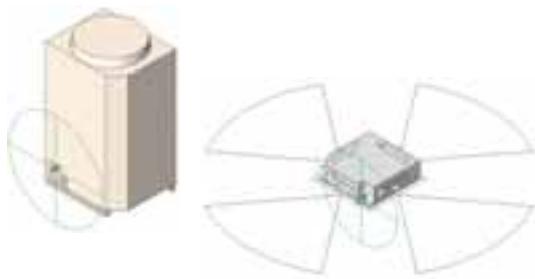
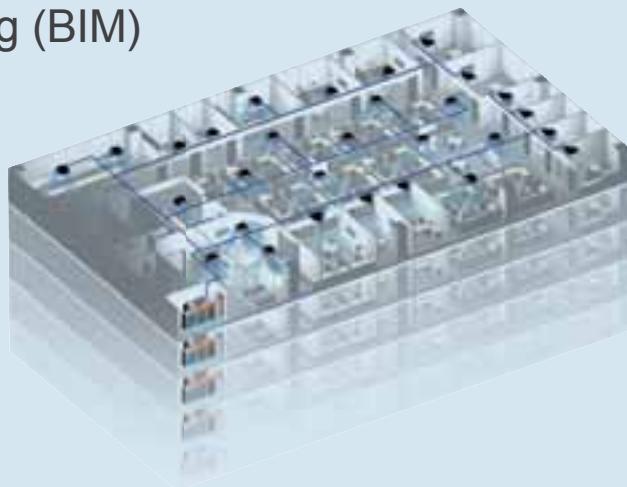
FTP server side (PC)

Update your Design Simulator

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

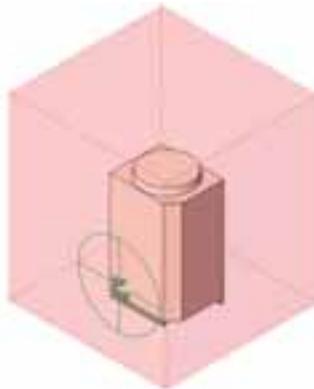
Building Information Modeling (BIM)

FUJITSU GENENRAL 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.



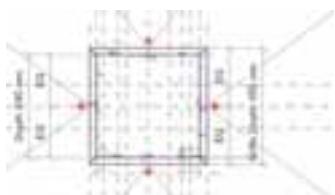
3D and 2D product data

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.

Fujitsu General aims for the realization of quick service and maintenance.

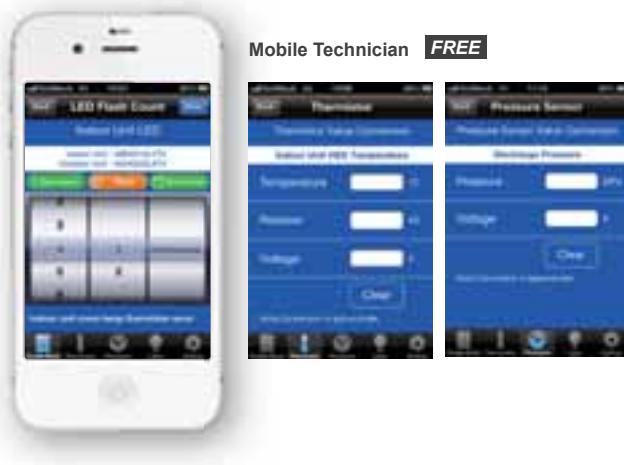
If trouble should occur in a unit or system, abundant support tools such as trouble code display at the product, Service Tool that allows checking of the detailed status of the entire system, and remote monitoring tool that uses the internet, etc. support quick service and maintenance anywhere and at any time.



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



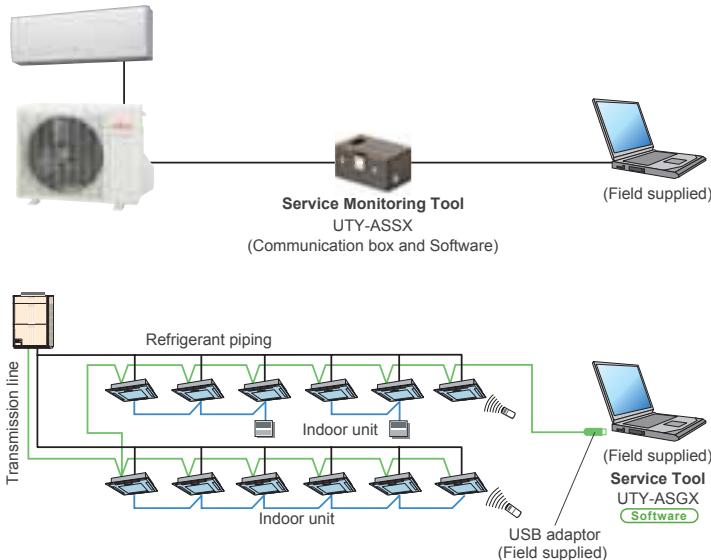
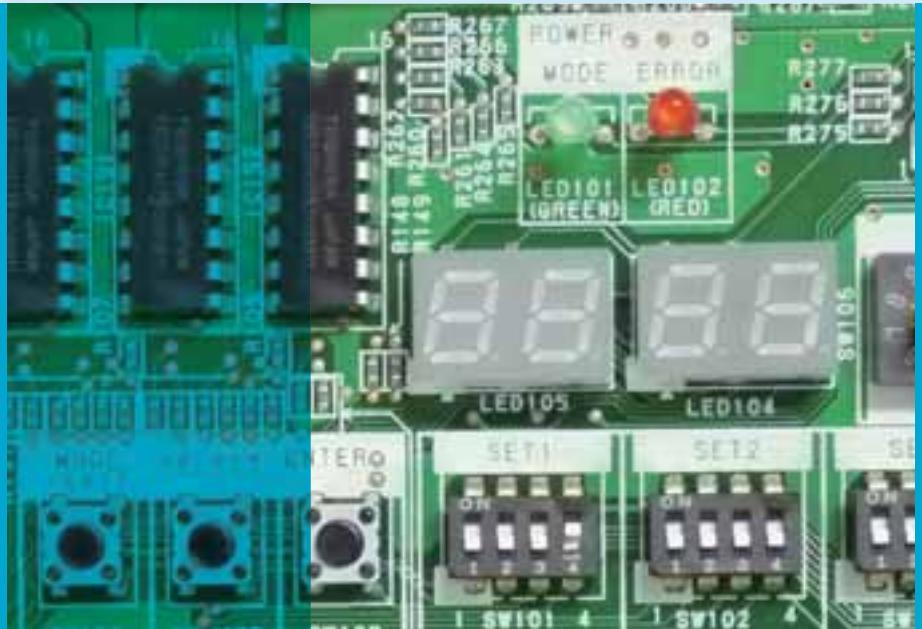
Mobile trouble shooting tool for iPhone

We will release an App of troubleshooting tool for iPhone, iPod touch and other Apple products.

This application is a troubleshooting tool for FUJITSU GENERAL air conditioner (RAC / PAC, VRF)

It helps you to check air conditioner condition.

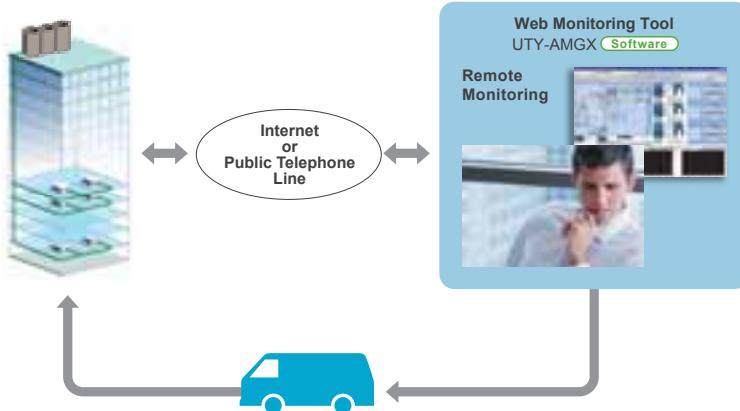
Error code check, Troubleshooting, and Sensor check are available.



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.

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 input and low primary energy usage

20% less CO₂ Emissions

Fujitsu General products sharply following the F-Gas regulation 842 / 2006 / EC

20% share of Renewable Energy

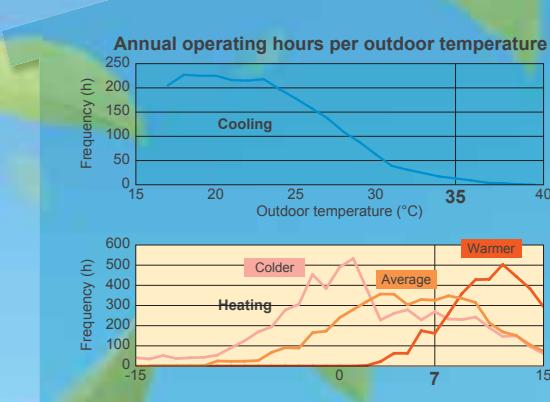
Fujitsu General promoting air sourced heat pumps as renewable energy source heating systems

Pursuit of Energy Saving Taking Actual Operation into Consideration

The heat load varies greatly depending on the time and season. However, the operation ratio EER or COP up to now has been calculated based on the rated value and the annual operating hours per outdoor temperatures was not taken into consideration.

For this reason, SEER and SCOP* have been made the standard in terms of actual operating hours throughout the year.

*: SEER = Seasonal Energy Efficiency Ratio
SCOP = Seasonal Coefficient Of Performance



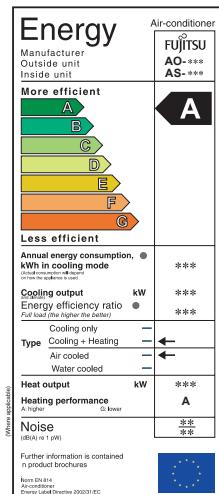
Fujitsu General provides air conditioners with higher SEER and SCOP.

*SEER and SCOP are indexes that express the annual energy efficiency calculated based on the regulations of (EU) 626/2011.

Energy Efficiency Classifications

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

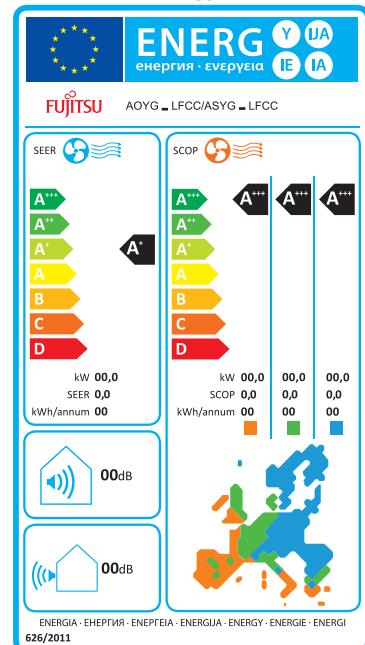
Current Energy Label



- Performance notation based on multiple points calculations that better matches the actual operation
- Energy labelling revision
- Raising of the CLASS A level

- Three climate zone for heating (Average zone : mandatory) (Warmer and colder zone are optional)
- Seasonal efficiency
- Sound power level

New Energy Label*



| EER (Cooling mode) | COP (Heating mode) |
|-----------------------|-----------------------|
| A 3.20 < EER | 3.60 < COP |
| B 3.20 ≥ EER > 3.00 | 3.60 ≥ COP > 3.40 |
| C 3.00 ≥ EER > 2.80 | 3.40 ≥ COP > 3.20 |
| D 2.80 ≥ EER > 2.60 | 3.20 ≥ COP > 2.80 |
| E 2.60 ≥ EER > 2.40 | 2.80 ≥ COP > 2.60 |
| F 2.40 ≥ EER > 2.20 | 2.60 ≥ COP > 2.40 |
| G 2.20 ≥ EER | 2.40 ≥ COP |

Gradual ranking regulation up to A+++ (2013 ~ 2019)

- 2013~: A, B, C, D, E, F, G
- 2015~: A+, A, B, C, D, E, F
- 2017~: A++, A+, A, B, C, D, E
- 2019~: A+++, A++, A+, A, B, C, D

* Enforcement on January 1, 2013 Air conditioners below 12 kW

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

Current Energy Labelling Points

| Rated efficiency |
|-----------------------------------|
| • Full capacity |
| • One point temperature condition |
| → EER COP |

| Operating power consumption |
|--------------------------------|
| Reduce total power consumption |

| Sound pressure level |
|----------------------|
| Low noise products |

New Energy Labelling Points

| Seasonal efficiency |
|---|
| • Integrates part load capacity |
| • Optimised for several rating temperatures |
| → SEER SCOP |

| Total power consumption |
|-------------------------------|
| • Operating power consumption |
| • Standby power consumption |
| • Crank case heater |
| • Thermo off |

| Sound power level |
|-------------------|
| New criteria |

New VRF systems

Page 110~



NEW Small VRF system

Features

- Small and light weight design
- High seasonal energy efficiency
- Effective air intake grill design
- Adopting high performance twin rotary compressor
- Lineup from 4HP to 6HP



NEW Wired Remote Controller

Features

- Various timer (ON/OFF/Weekly)
- Easy one touch operation
- Automatic address setting
- Error code and error history display



NEW Outdoor Air Unit

Features

- 100% outdoor air intake possible
- Compact size and high static pressure 200 Pa (22.4 kW)
- High energy saving by adopting DC motor



14 kW

22.4 kW

28 kW

NEW DX-Kit for air handling applications

Features

- Possible to connect the air handling unit and the fan coil unit
- Optimal control with multiple temperature sensors
- Support a wide range of capacity classes (from 5 kW to 50 kW)
- Connectable to AIRSTAGE™ (J-II, V-II, VR-II) series



Future Release

New Air to Water systems

WATERSTAGE™



Control box

NEW 5-kW Monobloc series

Future Release

Features

- 55°C hot water supply even at -20°C outdoor temperature
 - Heating and DHW in one system*
- *Optional parts are required.



CONTENTS

AIR CONDITIONERS LINEUP

PRODUCT CATALOGUE 2014



SPLIT

038



MULTI SPLIT

068

OPTIONAL PARTS
for SPLIT & MULTI SPLIT

092



V R F

100



VENTILATION

162

OPTIONAL PARTS
for VRF

170

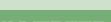


AIR TO WATER

176

- 002 Creation of Comfort
- 004 Corporate History
- 006 High Quality Development & Production Facilities
- 007 High Quality Assurance
- 008 Global Business Activities
- 010 Core Technology
- 022 AIRSTAGE™ Support
- 024 Design Support Tool
- 026 Service and Maintenance
- 028 Approach to New Energy Efficiency Standard
- 030 2014 Fujitsu General Solutions
- 034 All Type Lineup
- 190 Feature Explanation

ALL TYPE LINEUP SPLIT & MULTI SPLIT

| SPLIT | | 2.0 | 2.6 | 3.5 | 4.1 | 5.3 | |
|---|---|------------|---|--|---|--|---|
| Capacity (kW) | | 7 | 9 | 12 | 14 | 18 | |
| Wall Mounted Page 40 ~ | High Spec. & Design  | |  ASYG09LTCA |  ASYG12LTCA | | | |
| | High COP  | |  ASYG07LUCA |  ASYG09LUCA |  ASYG12LUCA |  ASYG14LUCA | |
| | Standard  | |  ASYG07LMCA |  ASYG09LMCA |  ASYG12LMCA |  ASYG14LMCA |  ASYG18LFCA |
| | Basic  | NEW |  ASYG07LLCC | NEW  ASYG09LLCC | NEW  ASYG12LLCC | | |
| Floor Page 50 | | |  AGYG09LVCA |  AGYG12LVCA |  AGYG14LVCA | | |
| Compact Cassette / Cassette Page 52 ~ | | | |  AUYG12LVLB |  AUYG14LVLB |  AUYG18LVLB | |
| Floor/Ceiling Page 56 | | | | | |  ABYG18LVTB | |
| Ceiling Page 58 | | | | | | | |
| Slim Duct Page 60 | | | |  ARYG12LLTB |  ARYG14LLTB |  ARYG18LLTB | |
| Medium Static Pressure Duct Page 62 | | | | | | | |
| High Static Pressure Duct Page 64 ~ | | | | | | | |
| MULTI SPLIT | | | | | | | |
| Up to 2 Units Page 72 | | | | |  AOYG 14LAC2 |  AOYG 18LAC2 | |
| Up to 3 Units Page 72 | | | | | |  AOYG 18LAT3 | |
| Up to 4 Units Page 72 | | | | | | | |
| Up to 8 Units Page 74 | | | | | | | |
| Simultaneous Multi Twin / Triple Page 90 | | | | | | | |

| 7.1 | 8.8 | 10.6 | 12.5 | 14.0 | 15.0 | 20.0 | 25.0 | | | | |
|---|---|---|-----------------------------------|---|-----------------------------------|---|----------------------------|---|---------------------|---|---------------------|
| 24 | 30 | 36 | 45 | 54 | 60 | 72 | 90 | | | | |
|  |  | | | | | | | | | | |
|  |  | AUYG36LRLE AUYG36LRLA [3phase] | AUYG45LRLA AUYG45LRLA [3phase] | AUYG54LRLA AUYG54LRLA [3phase] | | | | | | | |
|  | | | | | | | | | | | |
| |  | ABYG36LRTE ABYG36LRTA [3phase] | ABYG45LRTA ABYG45LRTA [3phase] | ABYG54LRTA [3phase] | | | | | | | |
|  |  | ARYG36LMLE ARYG36LMLA [3phase] | ARYG45LMLA ARYG45LMLA [3phase] | | | | | | | | |
| | |  | ARYG45LHTA ARYG45LHTA [3phase] |  | ARYG54LHTA ARYG54LHTA [3phase] |  | ARYG60LHTA [3phase] |  | ARYC72LHTA [3phase] |  | ARYC90LHTA [3phase] |
|  | | | | | | | | | | | |
| |  | | | | | | | | | | |
| | |  | AOYG 45LBT8 | | | | | | | | |
| | |  | AOYG 36LATT [3phase] |  | AOYG 45LATT [3phase] |  | AOYG 54LATT [3phase] | | | | |

ALL TYPE LINEUP VRF & VENTILATION, AIR TO WATER

| VRF | | All INVERTER Models | | | | | | | | | | |
|---|-----------|----------------------------|-------------|-------------|-----------|-----------|------------|------------|-------------|------------|------------|-------------|
| Capacity (kW) | HP | 12.1 | 14.0 | 15.1-15.5 | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.4 | 55.9 | 61.5 |
| J-II series NEW Heat Pump Page 110 ~ | | | | | | | | | | | | |
| | | AJY040LCLAH | AJY045LCLAH | AJY054LCLAH | | | | | | | | |
| J-II series Heat Pump Page 114 ~ | | | | | | | | | | | | |
| | | AJY40LALH | AJY45LALH | AJY54LALH | | | | | | | | |
| Space saving Page 118 ~ | Set Model | | | | | | | | | | | |
| | | | | | AJY72LALH | AJY90LALH | AJY108LALH | AJY126LALH | AJY144LALH | AJY162LALH | AJY180LALH | AJY198LALH |
| Energy efficiency Page 118 ~ | Set Model | | | | | | | | | | | |
| | | | | | | | | | AJY144LALHH | | | AJY198LALHH |
| Space saving Page 126 ~ | Set Model | | | | | | | | | | | |
| | | | | | AJY72GALH | AJY90GALH | AJY108GALH | AJY126GALH | AJY144GALH | AJY162GALH | AJY180GALH | AJY198GALH |
| Energy efficiency Page 126 ~ | Set Model | | | | | | | | | | | |
| | | | | | | | | | AJY144GALHH | | | AJY198GALHH |

| VENTILATION | | AIR TO WATER | | | | | | |
|--|-----|--------------|-----|-----|--------------|--------------|--------------|--|
| Airflow rate (m³/h) | 250 | 350 | 500 | 800 | 1000 | 1500 | 2000 | Capacity (kW) |
| Energy Recovery Ventilator Page 164 | | | | | | | | High Power series Single phase Page 178 Hydraulic Unit / Outdoor Unit |
| Outdoor Air Unit Page 166 | | | | | | | | 3 phase Page 178 Hydraulic Unit / Outdoor Unit |
| | | | | | NEW | NEW | NEW | Comfort series Page 178 Hydraulic Unit / Outdoor Unit |
| | | | | | | | | High Power series Single phase Page 179 Hydraulic Unit / Outdoor Unit |
| | | | | | ARXH 054GTAH | ARXH 072GTAH | ARXH 096GTAH | 3 phase Page 179 Hydraulic Unit / Outdoor Unit |
| | | | | | | | | Split DHW integrated Page 179 Hydraulic Unit / Outdoor Unit |
| | | | | | | | | Monobloc Compact model Page 180 |

| 67.0 | 73.5 | 78.5 | 85.0 | 90.0 | 95.0 | 100.5 | 107.0 | 112.0 | 118.5 | 123.5 | 130.0 | 135.0 |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|
| 24 | 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
| | | | | | | | | | | | | |
| AJY216LALH | AJY234LALH | AJY252LALH | AJY270LALH | AJY288LALH | AJY306LALH | AJY324LALH | AJY342LALH | AJY360LALH | AJY378LALH | AJY396LALH | AJY414LALH | AJY432LALH |
| | | | | | | | | | | | | |
| AJY216LALHH | AJY234LALHH | AJY252LALHH | AJY270LALHH | AJY288LALHH | AJY306LALHH | AJY324LALHH | | AJY360LALHH | AJY378LALHH | AJY396LALHH | | |
| | | | | | | | | | | | | |
| AJY216GALH | AJY234GALH | AJY252GALH | AJY270GALH | AJY288GALH | AJY306GALH | AJY324GALH | AJY342GALH | AJY360GALH | AJY378GALH | AJY396GALH | AJY414GALH | AJY432GALH |
| | | | | | | | | | | | | |
| AJY216GALHH | AJY234GALHH | AJY252GALHH | AJY270GALHH | AJY288GALHH | AJY306GALHH | AJY324GALHH | AJY342GALHH | AJY360GALHH | AJY378GALHH | AJY396GALHH | | |

All **INVERTER** Models

| 5 | 6 | 8 | 10 | 11 | 14 | 16 |
|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|-------------------------|----|
| | | | | | | |
| WSYA050DD6 / WOYA060LDC | WSYA100DD6 / WOYA060LDC | WSYA100DD6 / WOYA080LDC | WSYA100DD6 / WOYA100LDT | WSYG140DC6 / WOYG112LCT | WSYG140DC6 / WOYG140LCT | |
| | | | | | | |
| WSYG140DC9 / WOYG112LCT | WSYG160DC9 / WOYG140LCT | WSYG160DC9 / WOYG160LCT | | | | |
| | | | | | | |
| WGYA050DD6 / WOYA060LDC | WGYA100DD6 / WOYA060LDC | WGYA100DD6 / WOYA080LDC | WGYA100DD6 / WOYA100LDT | WGYG140DD6 / WOYG112LCT | WGYG140DD6 / WOYG140LCT | |
| | | | | | | |
| WGYK160DD9 / WOYK112LCT | WGYK160DD9 / WOYK140LCT | WGYK160DD9 / WOYK160LCT | | | | |
| | | | | | | |
| WGYA050DD6 / WOYA060LDC | WGYA100DD6 / WOYA060LDC | WGYA100DD6 / WOYA080LDC | WGYA100DD6 / WOYA100LDT | WPYA100LE | | |
| | | | | | | |
| WPYA100LE | | | | | | |
| NEW | | | | | | |
| Future Release | | | | | | |



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 offers a broad lineup of products from large living rooms to bedrooms and children's rooms. We make your room more comfortable with a wide range of air conditioner types from ceiling wall type with automatic filters and cleaning functions to wall mounted type that improve the air cleaning function. Of course these models feature highly efficient operation that conserves electricity.



9 types 54 models

- 040** Wall Mounted
- 050** Floor
- 052** Compact Cassette
- 054** Cassette
- 056** Floor/Ceiling
- 058** Ceiling
- 060** Slim Duct
- 062** Medium Static Pressure Duct
- 064** High Static Pressure Duct

SPLIT



Wall Mounted

High Spec. & Design : ASYG09LTCA / ASYG12LTCA



Wireless R.C. For ASYG09LTCA For ASYG12LTCA

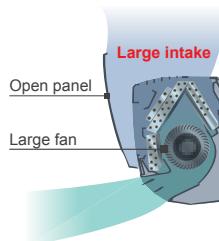
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Features

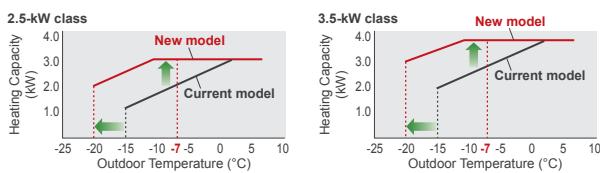
Thin & Slim design

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



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.



Powerful operation mode

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.

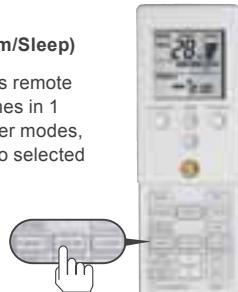
Energy saving control

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 previous operating mode.

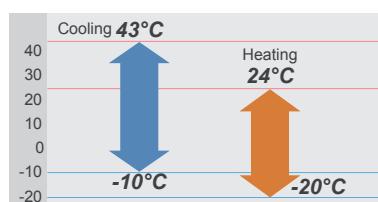


3 Mode timer (Weekly/Program/Sleep)

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.

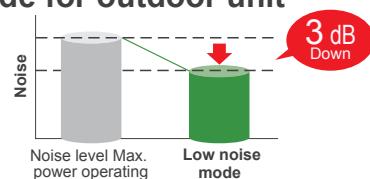


Low ambient operation



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-TWBXF

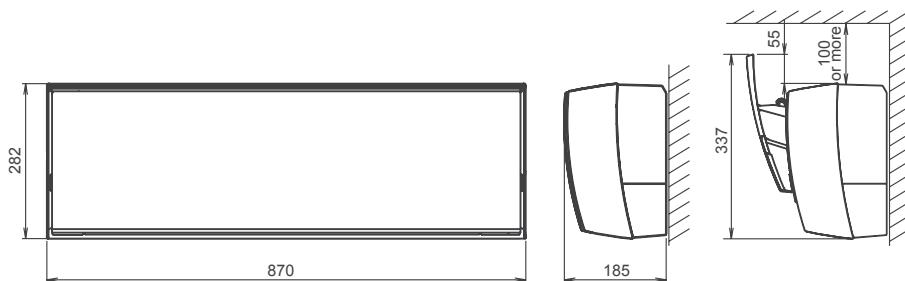


Specifications

| Model No. | Indoor unit | | ASYG09LTCA | ASYG12LT CA |
|--|--------------------------|---------|-------------------|-------------------|
| | Outdoor unit | | AOYG09LTC | AOYG12LTC |
| Power Source | V/ Ø/Hz | | 230/1/50 | 230/1/50 |
| Capacity | Cooling | kW | 2.5 (0.9-3.5) | 3.5 (1.1-4.0) |
| | Heating | | 3.2 (0.9-5.4) | 4.0 (0.9-6.5) |
| Input Power | Cooling/Heating | kW | 0.505/0.660 | 0.850/0.910 |
| EER | Cooling | W/W | 4.95 | 4.12 |
| COP | Heating | | 4.85 | 4.40 |
| Pdesign | Cooling/Heating (@-10°C) | kW | 2.5/3.0 | 3.5/4.0 |
| SEER | Cooling | W/W | 8.50 | 8.50 |
| SCOP | Heating (Average) | | 4.60 | 4.60 |
| Energy Efficiency Class | Cooling | A+++ | A+++ | A+++ |
| | Heating (Average) | | A++ | A++ |
| Running Current | Cooling/Heating | A | 2.6/3.3 | 4.0/4.3 |
| Annual Energy Consumption | Cooling | kWh/a | 103 | 144 |
| | Heating | | 912 | 1217 |
| Moisture Removal | l/h | | 1.3 | 1.8 |
| Sound Pressure (Cooling) | Indoor | H/M/L/Q | 42/36/32/21 | 43/37/32/21 |
| | Outdoor | High | 48 | 48 |
| Sound Power (Cooling) | Indoor | High | 59 | 60 |
| | Outdoor | High | 63 | 64 |
| Airflow Rate (High) | Indoor / Outdoor | m³/h | 800/1,700 | 850/2,050 |
| Net Dimension H x W x D | Indoor | | 282×870×185 | 282×870×185 |
| | kg(lbs) | | 9.5 (21) | 9.5 (21) |
| Piping Connections (Small / Large) | Outdoor | | 540×790×290 | 620×790×290 |
| | 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) | mm | | 13.8/15.8 to 16.7 | 13.8/15.8 to 16.7 |
| Max Height Difference | m | | 20 (15) | 20 (15) |
| Operation Range | Cooling | °CDB | -10 to 43 | -10 to 43 |
| | Heating | | -20 to 24 | -20 to 24 |
| Refrigerant (Global Warming Potential) | R410A (1,975) | | R410A (1,975) | |

Dimensions Models: ASYG09LTCA / ASYG12LTCA

(Unit : mm)



Wall Mounted

High COP : ASYG07LUCA / ASYG09LUCA / ASYG12LUCA / ASYG14LUCA



winner 2012



Wireless R.C.



For ASYG07/09LUCA



For ASYG12/14LUCA

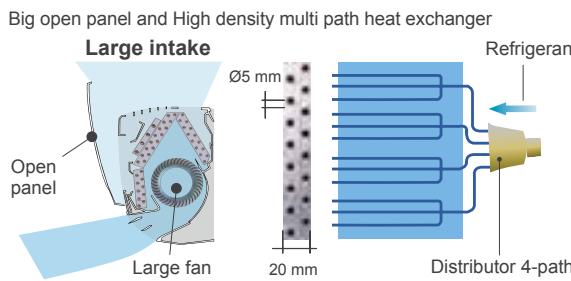
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Features

Thin & Slim design

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



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

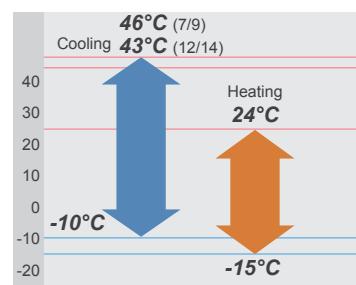
The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.
*Only available with Wireless RC.

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.

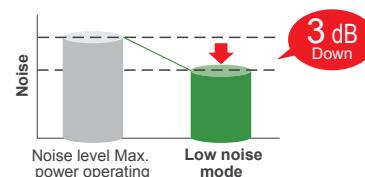


Low ambient operation



Low noise mode for outdoor unit

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

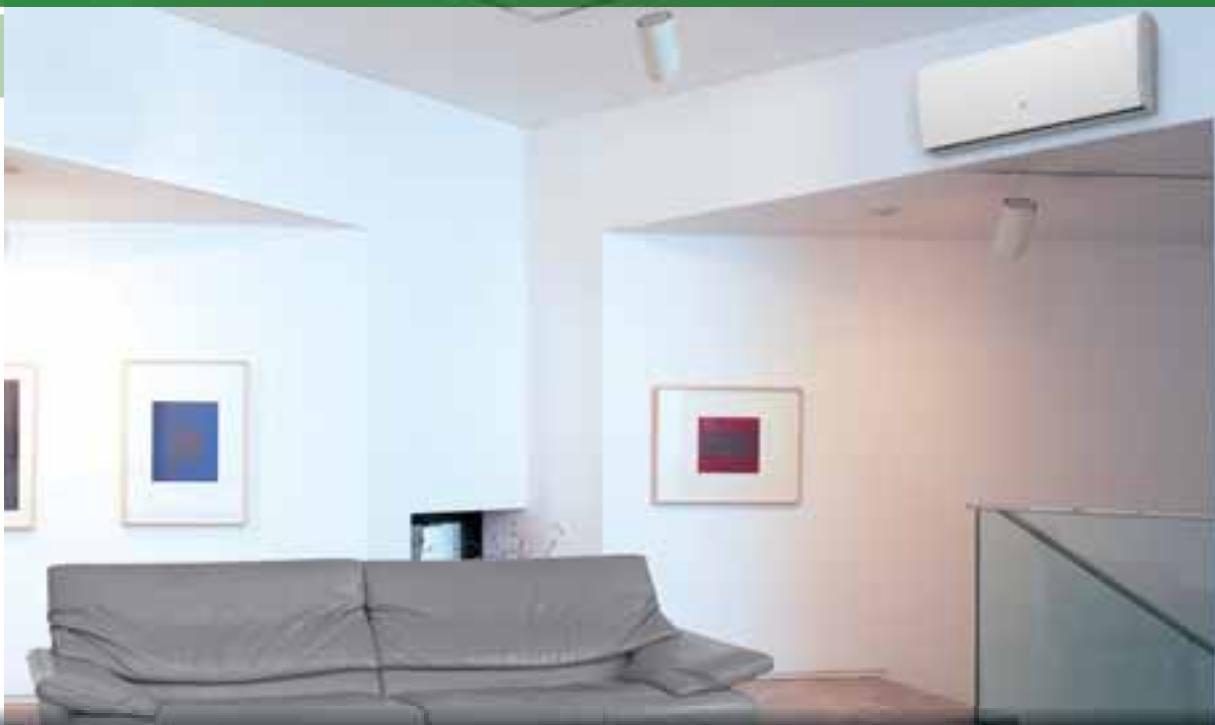


Optional parts

Wired Remote Controller: UTY-RNNYM, UTY-RVNYM

Simple Remote Controller: UTY-RSNYM

Communication kit: UTY-TWBXF



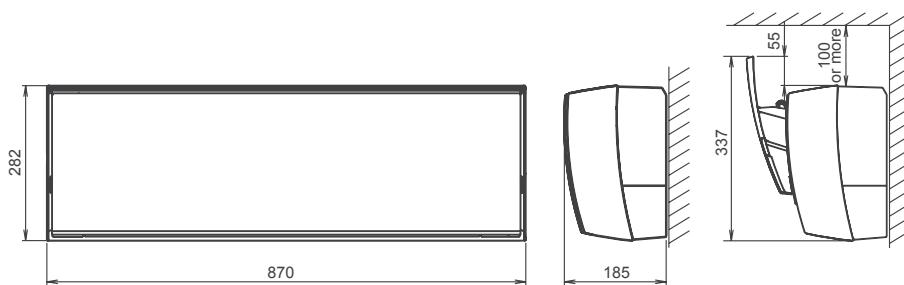
Specifications

| Model No. | Indoor unit | | ASYG07LUCA | ASYG09LUCA | ASYG12LUCA | ASYG14LUCA | |
|--|--------------------------|-------------------|-------------------|-------------------|-------------------|---------------|--|
| | Outdoor unit | | AOYG07LUCA | AOYG09LUCB | AOYG12LUC | AOYG14LUC | |
| Power Source | | V/ Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | |
| 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 | | 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 | kW | 0.460/0.660 | 0.555/0.680 | 0.905/0.930 | 1.235/1.380 | |
| EER | Cooling | W/W | 4.35 | 4.50 | 3.87 | 3.40 | |
| COP | Heating | | 4.55 | 4.71 | 4.30 | 3.91 | |
| Pdesign | 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) | | 4.10 | 4.10 | 4.00 | 4.00 | |
| Energy Efficiency Class | Cooling | | A++ | A++ | A++ | A++ | |
| | Heating (Average) | | A+ | A+ | A+ | A+ | |
| Running Current | Cooling/Heating | A | 2.6/3.4 | 3.1/3.4 | 4.6/4.7 | 5.8/6.3 | |
| Annual Energy Consumption | Cooling | kWh/a | 97 | 123 | 174 | 217 | |
| | Heating | | 887 | 956 | 1363 | 1677 | |
| Moisture Removal | | l/h | 1.0 | 1.3 | 1.8 | 2.1 | |
| Sound Pressure (Cooling) | Indoor | H/M/L/Q | 38/35/31/21 | 42/36/32/21 | 43/37/32/21 | 45/40/33/25 | |
| | Outdoor | High | 46 | 48 | 50 | 50 | |
| Sound Power (Cooling) | Indoor | High | dB(A) | 57 | 59 | 60 | |
| | Outdoor | High | | 58 | 60 | 65 | |
| Airflow Rate (High) | Indoor / Outdoor | m³/h | 680/1,720 | 800/1,720 | 850/1,940 | 900/1,940 | |
| Net Dimension H x W x D | Indoor | | mm | 282x870x185 | 282x870x185 | 282x870x185 | |
| | Outdoor | | kg(lbs) | 9.5 (21) | 9.5 (21) | 9.5 (21) | |
| Piping Connections (Small / Large) | mm | | mm | 540x660x290 | 540x660x290 | 540x790x290 | |
| | kg(lbs) | | kg(lbs) | 23 (51) | 25 (55) | 33 (73) | |
| Drain Hose Diameter (I.D./O.D.) | mm | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 | 6.35/12.7 | | |
| Max Pipe Length (Pre-Charge) | | 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 Height Difference | m | 20 (15) | 20 (15) | 20 (15) | 20 (15) | | |
| Operation Range | | 15 | 15 | 15 | 15 | | |
| Cooling | | -10 to 46 | -10 to 46 | -10 to 43 | -10 to 43 | | |
| Heating | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | | |
| Refrigerant (Global Warming Potential) | | R410A (1,975) | R410A (1,975) | R410A (1,975) | R410A (1,975) | | |

Dimensions

Models : ASYG07LUCA / ASYG09LUCA / ASYG12LUCA / ASYG14LUCA

(Unit : mm)



Wall Mounted

Standard : ASYG07LMCA / ASYG09LMCA / ASYG12LMCA / ASYG14LMCA



Wireless R.C.

For ASYG07/09/12LMCA

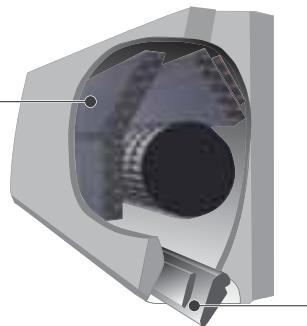
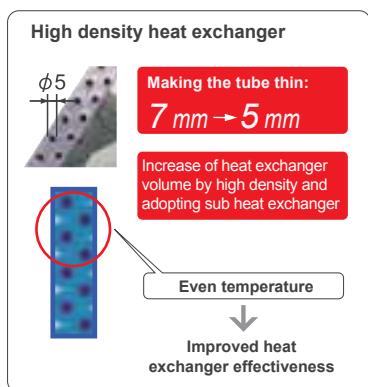
For ASYG14LMCA

ALL
DC

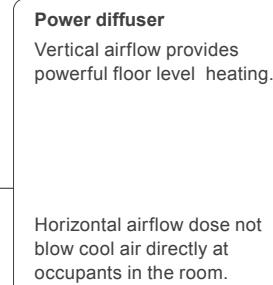


Features

High efficient compact design



More comfort airflow



Powerful operation

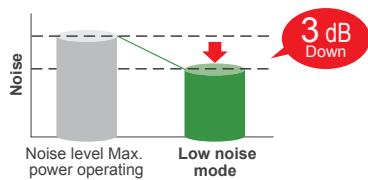
20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.

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

Low noise mode for outdoor unit

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

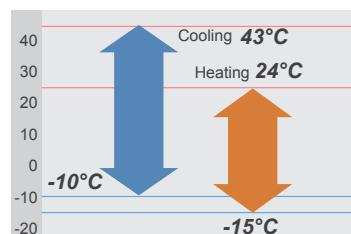


24 hr Programmable timer

24 hr program timer and sleep timer can be easily set.



Low ambient operation



Optional parts

Wired Remote Controller: UTY-RNNYM, UTY-RVNYM

Simple Remote Controller: UTY-RSNYM

Communication kit: UTY-XCBXZ2



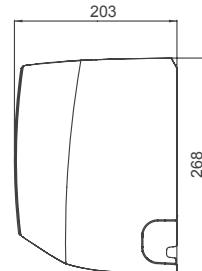
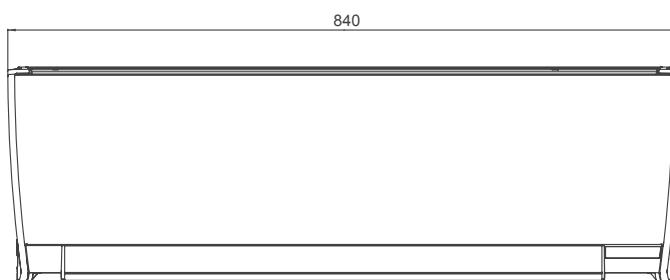
Specifications

| Model No. | Indoor unit | | ASYG07LMCA | ASYG09LMCA | ASYG12LMCA | ASYG14LMCA |
|--|--------------------------|---------|-------------------|-------------------|-------------------|-------------------|
| | Outdoor unit | | AOYG07LMCA | AOYG09LMCA | AOYG12LMCA | AOYG14LMCA |
| Power Source | | V/Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| 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 | | 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 | kW | 0.465/0.685 | 0.65/0.73 | 0.97/1.02 | 1.135/1.365 |
| EER | Cooling | W/W | 4.30 | 3.85 | 3.50 | 3.52 |
| COP | Heating | | 4.38 | 4.38 | 3.92 | 3.66 |
| Pdesign | Cooling/Heating (@-10°C) | kW | 2.0/2.3 | 2.5/2.4 | 3.4/3.5 | 4.0/3.9 |
| SEER | Cooling | W/W | 6.80 | 7.00 | 7.00 | 6.90 |
| SCOP | Heating (Average) | | 4.10 | 4.10 | 4.00 | 4.00 |
| Energy Efficiency Class | Cooling | | A++ | A++ | A++ | A++ |
| | Heating (Average) | | A+ | A+ | A+ | A+ |
| Running Current | Cooling/Heating | A | 2.5/3.3 | 3.2/3.5 | 4.6/4.8 | 5.3/6.3 |
| Annual Energy Consumption | Cooling | kWh/a | 103 | 125 | 170 | 203 |
| | Heating | | 786 | 820 | 1225 | 1365 |
| Moisture Removal | | l/h | 1.0 | 1.3 | 1.8 | 2.1 |
| Sound Pressure (Cooling) | Indoor | H/M/L/Q | 43/40/32/21 | 43/40/32/21 | 43/40/32/21 | 44/40/33/25 |
| | Outdoor | High | 45 | 45 | 50 | 49 |
| Sound Power (Cooling) | Indoor | High | 59 | 59 | 59 | 60 |
| | Outdoor | High | 58 | 58 | 61 | 63 |
| Airflow Rate (High) | Indoor / Outdoor | m³/h | 750/1670 | 750/1670 | 750/1830 | 750/1800 |
| Net Dimension H x W x D | Indoor | | mm | 268X840X203 | 268X840X203 | 268X840X203 |
| | Outdoor | | kg(lbs) | 8.5 (19) | 8.5 (19) | 8.5 (19) |
| | | | mm | 535X663X293 | 535X663X293 | 540X790X290 |
| | | | kg(lbs) | 21 (46) | 21 (46) | 34 (75) |
| Piping Connections (Small / Large) | | mm | 6.35/9.52 | 6.35/9.52 | 6.35/9.52 | 6.35/12.7 |
| Drain Hose Diameter (I.D./O.D.) | | 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 |
| Max Pipe Length (Pre-Charge) | | m | 20 (15) | 20 (15) | 20 (15) | 20 (15) |
| Max Height Difference | | | 15 | 15 | 15 | 15 |
| Operation Range | Cooling | °CDB | -10 to 43 | -10 to 43 | -10 to 43 | -10 to 43 |
| | Heating | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant (Global Warming Potential) | | | R410A (1,975) | R410A (1,975) | R410A (1,975) | R410A (1,975) |

Dimensions

Models : ASYG07LMCA / ASYG09LMCA / ASYG12LMCA / ASYG14LMCA

(Unit : mm)



Wall Mounted

Basic : ASYG07LLCC / ASYG09LLCC / ASYG12LLCC



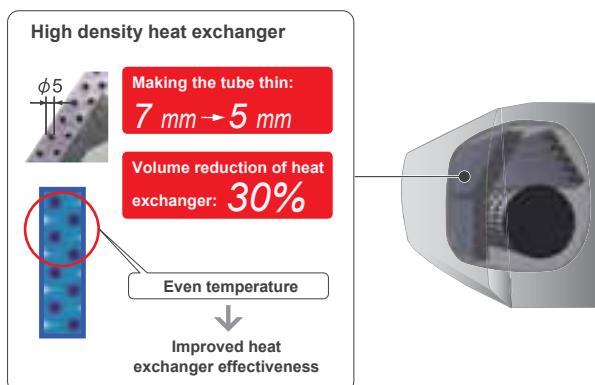
Wireless R.C.

ALL
DC



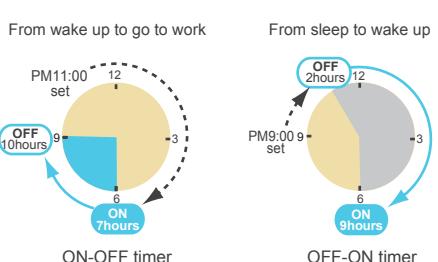
Features

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.

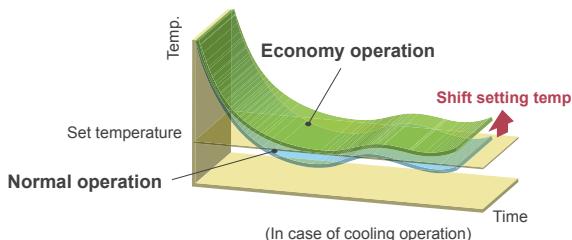
Super Quiet Operation

Top class low noise operation by new airflow construction. Our quiet operation makes the more comfortable environment in a bed room and a study room, etc.

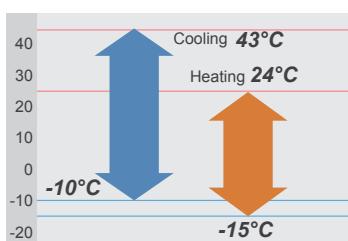


Economy operation

Setting temp. is shifted by 1°C automatically.



Low ambient operation



Optional parts

Remote Controller Holder: UTZ-RXLA



Specifications

| Model No. | Indoor unit | | ASYG07LLCC | ASYG09LLCC | ASYG12LLCC |
|--|--------------------------|---------|-------------------|-------------------|-------------------|
| | Outdoor unit | | AOYG07LLCC | AOYG09LLCC | AOYG12LLCC |
| Power Source | V/ Ø/Hz | | 230/1/50 | 230/1/50 | 230/1/50 |
| Capacity | Cooling | kW | 2.0 (0.9-2.8) | 2.5 (0.9-3.0) | 3.4 (0.9-3.8) |
| | Heating | | 2.7 (0.9-3.6) | 3.0 (0.9-3.8) | 4.0 (0.9-5.0) |
| Input Power | Cooling/Heating | kW | 0.470/0.620 | 0.730/0.740 | 1.080/1.130 |
| EER | Cooling | W/W | 4.26 | 3.42 | 3.15 |
| COP | Heating | | 4.35 | 4.05 | 3.54 |
| Pdesign | Cooling/Heating (@-10°C) | kW | 2.0/2.2 | 2.5/2.3 | 3.4/3.2 |
| SEER | Cooling | W/W | 6.70 | 6.90 | 6.60 |
| SCOP | Heating (Average) | | 4.00 | 4.00 | 3.80 |
| Energy Efficiency Class | Cooling | dB(A) | A++ | A++ | A++ |
| | Heating (Average) | | A+ | A+ | A |
| Running Current | Cooling/Heating | A | 2.6/3.0 | 3.5/3.5 | 5.2/5.4 |
| Annual Energy Consumption | Cooling | kWh/a | 104 | 127 | 180 |
| | Heating | | 770 | 805 | 1,179 |
| Moisture Removal | l/h | | 1.0 | 1.3 | 1.8 |
| Sound Pressure (Cooling) | Indoor | H/M/L/Q | 43/38/33/22 | 43/38/33/22 | 43/38/33/22 |
| | Outdoor | High | 47 | 47 | 50 |
| Sound Power (Cooling) | Indoor | High | 59 | 59 | 59 |
| | Outdoor | High | 61 | 61 | 65 |
| Airflow Rate (High) | Indoor / Outdoor | m³/h | 720/1,670 | 720/1,670 | 720/1,830 |
| Net Dimension H x W x D | Indoor | | 262×820×206 | 262×820×206 | 262×820×206 |
| | kg(lbs) | | 7.0 (15) | 7.0 (15) | 7.0 (15) |
| | Outdoor | | 535×663×293 | 535×663×293 | 535×663×293 |
| | kg(lbs) | | 24 (53) | 24 (53) | 26 (57) |
| Piping Connections (Small / Large) | mm | | 6.35/9.52 | 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 | 13.8/15.8 to 16.7 |
| Max Pipe Length (Pre-Charge) | m | | 20 (15) | 20 (15) | 20 (15) |
| Max Height Difference | mm | | 15 | 15 | 15 |
| Operation Range | Cooling | °CDB | -10 to 43 | -10 to 43 | -10 to 43 |
| | Heating | | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant (Global Warming Potential) | R410A (1,975) | | R410A (1,975) | R410A (1,975) | R410A (1,975) |

Dimensions

Models : ASYG07LLCC / ASYG09LLCC / ASYG12LLCC

(Unit : mm)

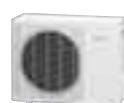


Wall Mounted

Standard : ASYG18LFCA / ASYG24LFCC / ASYG30LFCA



Wireless R.C.

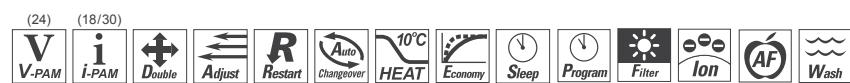


For ASYG18LFCA
ASYG24LFCC



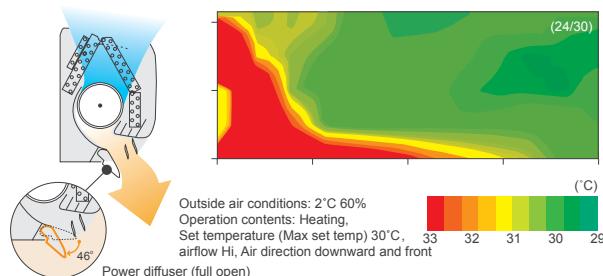
For ASYG30LFCA

ALL DC

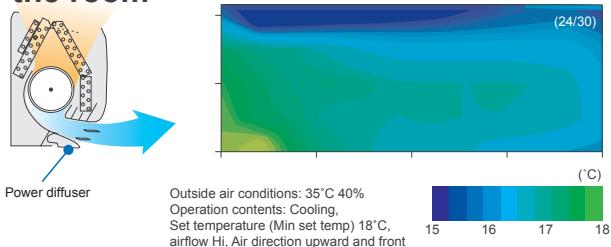


Features

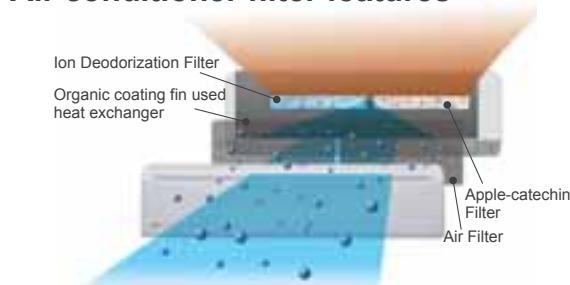
“Vertical airflow” provides powerful floor level heating



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



Air conditioner filter features



Antibacterial deodorizing pre-filter with special ceramic powder



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

Using different filters at both sides



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

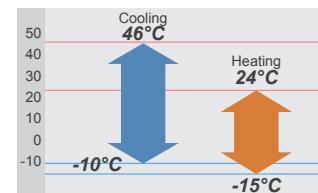
Flexible Installation

| | 18 type | 24 type | 30 type |
|--------------------|-------------|-------------|-------------|
| Max. Piping Length | 25 m | 30 m | 50 m |
| Max. Height | 20 m | 20 m | 30 m |

Easy maintenance

Simplification of drain pan cleaning improves maintenance-ability.

Low ambient operation



Optional parts

Wired Remote Controller: UTY-RNNYM, UTY-RVNYM

Simple Remote Controller: UTY-RSNYM



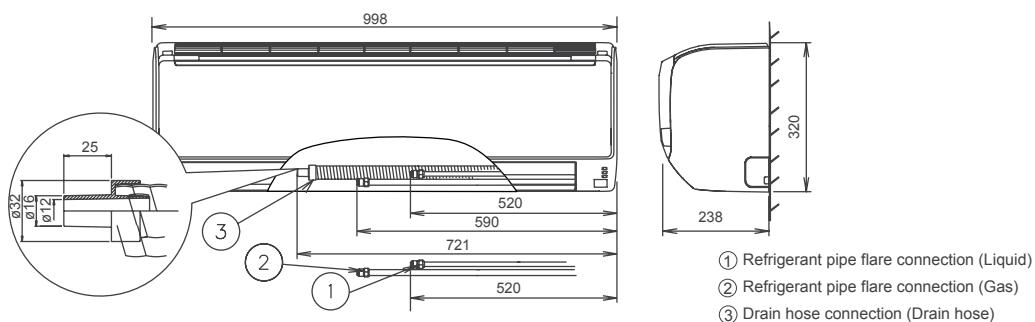
Specifications

| Model No. | Indoor unit | | ASYG18LFCA | ASYG24LFCC | ASYG30LFCA |
|--|--------------------------|---------|---------------|----------------|----------------|
| | Outdoor unit | | AOYG18LFC | AOYG24LFC | AOYG30LFT |
| Power Source | | V/ Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 |
| Capacity | Cooling | kW | 5.2 (0.9-6.0) | 7.1 (0.9-8.0) | 8.0 (2.9-9.0) |
| | Heating | | 6.3 (0.9-9.1) | 8.0 (0.9-10.6) | 8.8 (2.2-11.0) |
| Input Power | Cooling/Heating | kW | 1.52/1.71 | 2.20/2.21 | 2.49/2.44 |
| EER | Cooling | W/W | 3.42 | 3.23 | 3.21 |
| COP | Heating | | 3.68 | 3.61 | 3.61 |
| Pdesign | Cooling/Heating (@-10°C) | kW | 5.2/5.9 | 7.1/7.1 | 8.0/8.0 |
| SEER | Cooling | W/W | 6.94 | 6.11 | 5.69 |
| SCOP | Heating (Average) | | 3.87 | 3.80 | 3.80 |
| Energy Efficiency Class | Cooling | | A++ | A++ | A+ |
| | Heating (Average) | | A | A | A |
| Running Current | Cooling/Heating | A | 6.8/7.6 | 9.7/9.7 | 10.9/10.7 |
| Annual Energy Consumption | Cooling | kWh/a | 262 | 406 | 492 |
| | Heating | | 2130 | 2610 | 2941 |
| Moisture Removal | | I/h | 2.6 | 2.7 | 3.2 |
| Sound Pressure (Cooling) | Indoor | H/M/L/Q | 43/37/33/26 | 49/42/37/32 | 48/42/37/33 |
| | Outdoor | High | 50 | 55 | 53 |
| Sound Power (Cooling) | Indoor | High | 58 | 64 | 64 |
| | Outdoor | High | 65 | 68 | 68 |
| Airflow Rate (High) | Indoor / Outdoor | m³/h | 900/2150 | 1120/2460 | 1100/3600 |
| Net Dimension H x W x D | Indoor | | 320X998X238 | 320X998X238 | 320X998X238 |
| | kg(lbs) | | 14 (31) | 14 (31) | 14 (31) |
| Piping Connections (Small / Large) | Outdoor | | 620X790X298 | 620X790X298 | 830X900X330 |
| | kg(lbs) | | 41 (90) | 41 (90) | 61 (135) |
| Drain Hose Diameter (I.D./O.D.) | | mm | 6.35/12.8 | 6.35/15.88 | 9.52/15.88 |
| Max Pipe Length (Pre-Charge) | | m | 12/16 | 12/16 | 12/16 |
| Max Height Difference | | m | 25 (15) | 30 (15) | 50 (20) |
| Operation Range | Cooling | °CDB | -10 to 46 | -10 to 46 | -10 to 46 |
| | Heating | | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant (Global Warming Potential) | | | R410A (1,975) | R410A (1,975) | R410A (1,975) |

Dimensions

Models : ASYG18LFCA / ASYG24LFCC / ASYG30LFCA

(Unit : mm)



Floor

Model : AGYG09LVCA / AGYG12LVCA / AGYG14LVCA



Wireless R.C.

For AGYG09/12LVCA

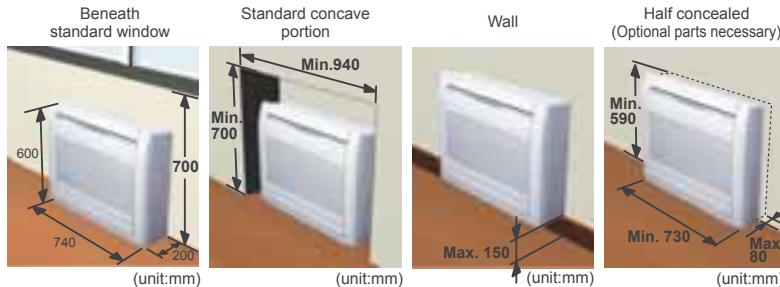
For AGYG14LVCA

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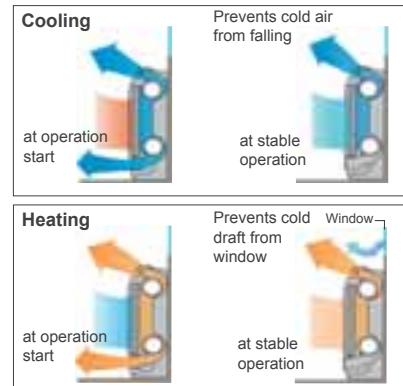


Features

Flexible & easy installation



2-Fan & Wide airflow



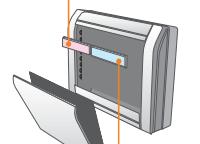
Filter features

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.

+ Using different filters at both sides

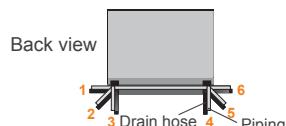
Apple-catechin Filter



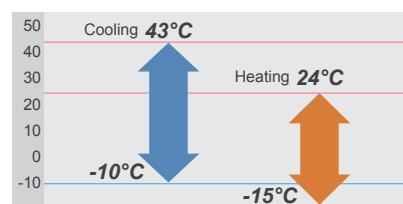
Ion Deodorization Filter

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

Flexible piping connection 6 direction of drain & piping



Low ambient operation



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

Easy maintenance

Removable and washable panel

Removable panel ~



Optional parts

Wired Remote Controller: UTY-RNNYM, UTY-RVNYM

Simple Remote Controller: UTY-RSNYM

Half Concealed Kit: UTR-STA

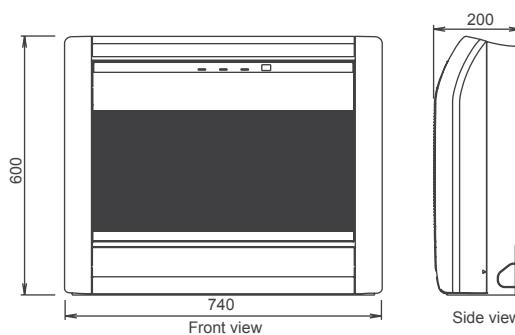


Specifications

| Model No. | Indoor unit | | AGYG09LVCA | AGYG12LVCA | AGYG14LVCA |
|--|--------------------------|---------|-------------------|-------------------|-------------------|
| | Outdoor unit | | AOYG09LVCA | AOYG12LVCA | AOYG14LVCA |
| Power Source | | V/ Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 |
| Capacity | Cooling | kW | 2.6 (0.3-5) | 3.5 (0.9-4.0) | 4.2 (0.9-5.0) |
| | Heating | | 3.5 (0.9-5.5) | 4.5 (0.9-6.6) | 5.2 (0.9-8.0) |
| Input Power | Cooling/Heating | kW | 0.53/0.79 | 0.94/1.19 | 1.14/1.44 |
| EER | Cooling | W/W | 4.91 | 3.72 | 3.68 |
| COP | Heating | | 4.43 | 3.78 | 3.61 |
| Pdesign | Cooling/Heating (@-10°C) | kW | 2.6/2.9 | 3.5/3.8 | 4.2/4.7 |
| SEER | Cooling | W/W | 7.00 | 6.50 | 6.40 |
| SCOP | Heating (Average) | | 4.20 | 4.00 | 4.00 |
| Energy Efficiency Class | Cooling | | A++ | A++ | A++ |
| | Heating (Average) | | A+ | A+ | A+ |
| Running Current | Cooling/Heating | A | 2.6/3.8 | 4.4/5.5 | 5.2/6.4 |
| Annual Energy Consumption | Cooling | kWh/a | 130 | 188 | 230 |
| | Heating | | 967 | 1330 | 1645 |
| Moisture Removal | | I/h | 1.3 | 1.8 | 2.1 |
| Sound Pressure (Cooling) | Indoor | H/M/L/Q | 40/35/29/22 | 40/35/29/22 | 44/38/31/22 |
| | Outdoor | High | 47 | 48 | 50 |
| Sound Power (Cooling) | Indoor | High | 55 | 55 | 58 |
| | Outdoor | High | 64 | 64 | 65 |
| Airflow Rate (High) | Indoor / Outdoor | m³/h | 570/1680 | 570/1680 | 650/1910 |
| Net Dimension H x W x D | Indoor | | 600x740x200 | 600x740x200 | 600x740x200 |
| | kg(lbs) | | 14 (31) | 14 (31) | 14 (31) |
| | Outdoor | | 540x790x290 | 540x790x290 | 578x790x300 |
| | kg(lbs) | | 36 (79) | 36 (79) | 40 (88) |
| Piping Connections (Small / Large) | | mm | 6.35/9.52 | 6.35/9.52 | 6.35/12.7 |
| Drain Hose Diameter (I.D./O.D.) | | mm | 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) | | m | 20 (15) | 20 (15) | 20 (15) |
| Max Height Difference | | | 15 | 15 | 15 |
| Operation Range | Cooling | °CDB | -10 to 43 | -10 to 43 | -10 to 43 |
| | Heating | | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant (Global Warming Potential) | | | R410A (1,975) | R410A (1,975) | R410A (1,975) |

Dimensions Models : AGYG09LVCA / AGYG12LVCA / AGYG14LVCA

(Unit : mm)



Compact Cassette

Model : AUYG12LVLB / AUYG14LVLB / AUYG18LVLB / AUYG24LVLA



Wireless R.C.



For AUYG12/14/18LVLB



For AUYG24LVLA

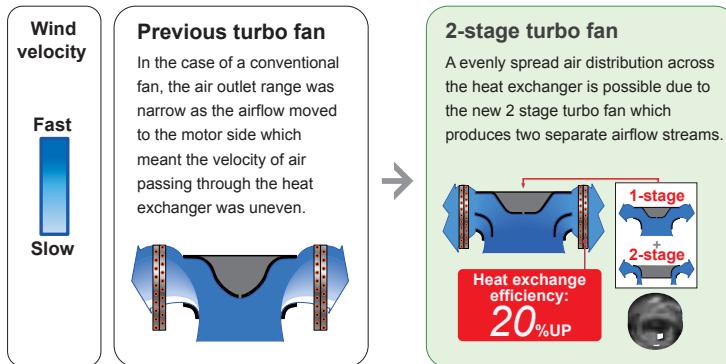
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Features

2-stage turbo fan

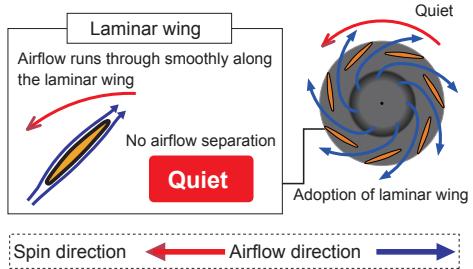
High efficiency design by 2 stage structure



Quiet quality

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

Designed by CFD-analysis (fluid) simulations

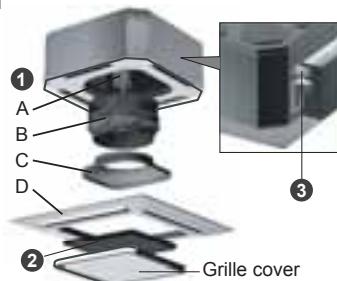


Easy maintenance

① Maintenance of fan motor and fan

Maintenance of the fan motor and fan can be done easily after taking off the panel as the bell mouth of the fan can be removed easily.

A : Fan motor B : 2-stage turbo fan
C : Bell-mouth D : Panel



② Air filter

: standard equipment

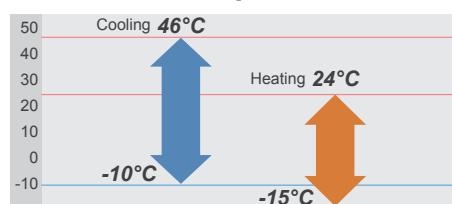
③ Adaptation of transparent drainage parts

During installation, maintenance and operation, the drain pump and kit can be checked easily.

High lift drain pump



Low ambient operation



Compact design

World's first 24,000Btu model in the compact cassette category (Easy installation by taking off ceiling panel of 600 x 600 size)

Optional parts

| | |
|-----------------------------------|----------------------|
| Air Outlet Shutter Plate: | UTR-YDZB |
| 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 |



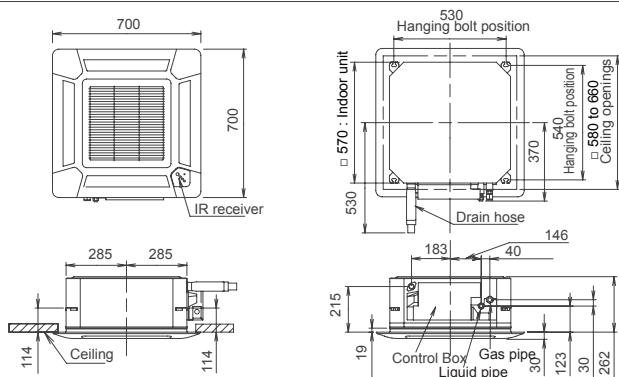
Specifications

| Model No. | Indoor unit | | AUYG12LVLB | AUYG14LVLB | AUYG18LVLB | AUYG24LVLA |
|--|--------------------------|---------|------------------------|------------------------|------------------------|------------------------|
| | Outdoor unit | | AOYG12LALL | AOYG14LALL | AOYG18LALL | AOYG24LALA |
| Power Source | | V/ Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| 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 | | 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 |
| COP | Heating | | 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) | | 4.10 | 4.40 | 4.20 | 3.90 |
| Energy Efficiency Class | Cooling | | A++ | A++ | A++ | A+ |
| | Heating (Average) | | A+ | A+ | A+ | A |
| Running Current | Cooling/Heating | A | 4.8/5.1 | 6.1/6.1 | 7.2/7.4 | 9.7/9.9 |
| Annual Energy Consumption | Cooling | kWh/a | 198 | 235 | 293 | 425 |
| | Heating | | 1431 | 1432 | 1731 | 2151 |
| Moisture Removal | | l/h | 1.2 | 1.5 | 2.2 | 2.7 |
| Sound Pressure (Cooling) | Indoor | H/M/L/Q | 37/34/30/27 | 38/34/30/27 | 38/34/30/26 | 49/44/36/30 |
| | Outdoor | High | 47 | 49 | 50 | 52 |
| Sound Power (Cooling) | Indoor | High | 49 | 50 | 50 | 59 |
| | Outdoor | High | 61 | 62 | 62 | 67 |
| Airflow Rate (High) | Indoor / Outdoor | m³/h | 600/1780 | 680/1910 | 680/2000 | 930/2470 |
| Net Dimension H x W x D | Indoor | | 245×570×570/49x700x700 | 245×570×570/49x700x700 | 245×570×570/49x700x700 | 245×570×570/49x700x700 |
| | kg(lbs) | | 15 (33) / 2.6 (6) | 15 (33) / 2.6 (6) | 15 (33) / 2.6 (6) | 16 (35) / 2.6 (6) |
| Piping Connections (Small / Large) | Outdoor | | 578×790×300 | 578×790×300 | 578×790×300 | 578×790×315 |
| | kg(lbs) | | 40 (88) | 40 (88) | 40 (88) | 44 (97) |
| Drain Hose Diameter (I.D./O.D.) | | mm | 6.35/9.52 | 6.35/12.70 | 6.35/12.70 | 6.35/15.88 |
| Max Pipe Length (Pre-Charge) | | m | 25/32 | 25/32 | 25/32 | 25/32 |
| Max Height Difference | | m | 25 (15) | 25 (15) | 25 (15) | 30 (15) |
| Operation Range | Cooling | °CDB | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 |
| | Heating | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant (Global Warming Potential) | | | R410A (1,975) | R410A (1,975) | R410A (1,975) | R410A (1,975) |
| Cassette Grille | | | UTG-UFYD-W | UTG-UFYD-W | UTG-UFYD-W | UTG-UFYD-W |

Dimensions

Models : AUYG12LVLB / AUYG14LVLB / AUYG18LVLB / AUYG24LVLA

(Unit : mm)



Cassette

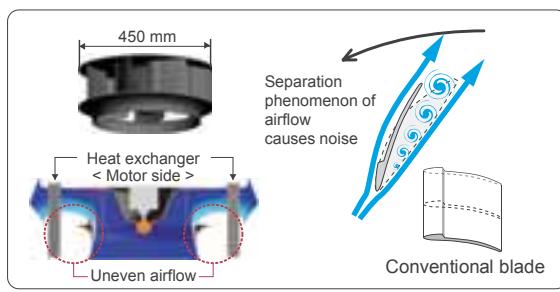
Model : AUYG30LRLE / AUYG36LRLE / AUYG45LRLA / AUYG54LRLA /
AUYG36LRLA [3phase] / AUYG45LRLA [3phase] / AUYG54LRLA [3phase]



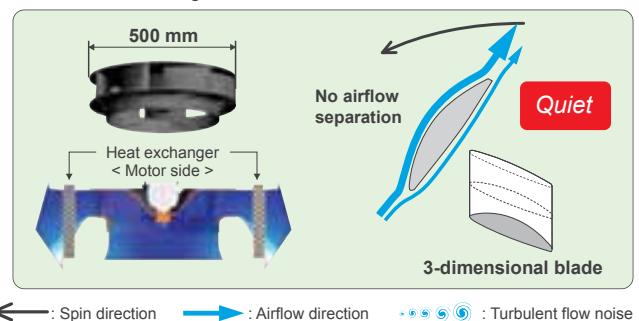
Features

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.

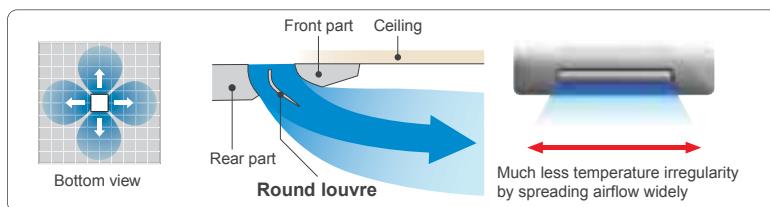


New turbo fan: High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.

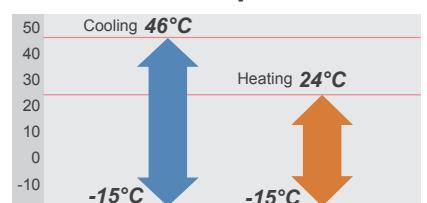


Improvement of the airflow distribution

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



Low ambient operation



Adjustment of hanger position is possible after installation



Optional parts

| | |
|-----------------------------------|----------------------|
| Wired Remote Controller: | UTY-RNNYM, UTY-RVNYM |
| Simple Remote Controller: | UTY-RSNYM |
| IR Receiver Kit: | UTY-LRHYA2 |
| Wide Panel: | UTG-AGYA-W |
| Panel Spacer: | UTG-BGYA-W |
| Air Outlet Shutter Plate: | UTR-YDZC |
| Insulation Kit For High Humidity: | UTZ-KXGA |
| Fresh Air Intake Kit: | UTZ-VXGA |

High lift drain pump





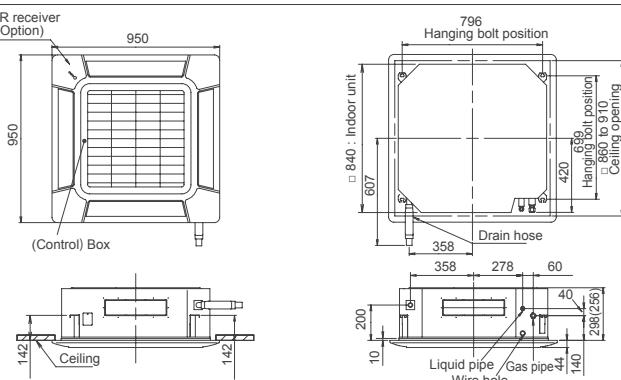
Specifications

| Model No. | Indoor unit | | AUYG30LRLE | AUYG36LRLE | AUYG45LRLA | AUYG54LRLA | AUYG36LRLA | AUYG45LRLA | AUYG54LRLA | | |
|--|------------------|---------|-----------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-------------|--|
| | Outdoor unit | | AOYG30LETL | AOYG36LETL | AOYG45LETL | AOYG54LETL | AOYG36LATT | AOYG45LATT | AOYG54LATT | | |
| Power Source | | V/Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 400/3/50 | 400/3/50 | 400/3/50 | | |
| Capacity | Cooling | kW | 8.5 (2.8-10.0) | 10.0 (2.8-11.2) | 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) | | |
| | Heating | | 10.0 (2.7-11.2) | 11.2 (2.7-12.7) | 14.0 (4.2-16.2) | 16.0 (4.7-16.5) | 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 | 3.12/3.02 | 3.88/3.77 | 4.42/4.69 | 2.44/2.56 | 3.54/3.58 | 4.36/4.43 | | |
| EER | Cooling | W/W | 3.21 | 3.21 | 3.22 | 3.01 | 4.10 | 3.53 | 3.21 | | |
| COP | Heating | | 3.61 | 3.71 | 3.71 | 3.41 | 4.38 | 3.91 | 3.61 | | |
| Pdesign | Cooling/Heating | kW | 8.5/8.0 | 10.0/8.7 | - | - | 10.0/10.0 | - | - | | |
| SEER | Cooling | W/W | 6.50 | 6.30 | - | - | 6.50 | - | - | | |
| SCOP | Heating | | 4.30 | 4.20 | - | - | 4.30 | - | - | | |
| Energy Efficiency Class | Cooling | | A++ | A++ | - | - | A++ | - | - | | |
| | Heating | | A+ | A+ | - | - | A+ | - | - | | |
| Running Current | Cooling/Heating | A | 11.6/12.2 | 13.7/13.3 | 17.0/16.5 | 19.3/20.5 | 3.7/3.9 | 5.3/5.3 | 6.5/6.6 | | |
| Annual Energy Consumption | Cooling | kWh/a | 458 | 555 | - | - | 573 | - | - | | |
| | Heating | | 2604 | 2897 | - | - | 3253 | - | - | | |
| Moisture Removal | | I/h | 2.5 | 3.5 | 4.5 | 5.0 | 3.0 | 4.5 | 5.0 | | |
| Sound Pressure (Cooling) | Indoor | H/M/L/Q | dB(A) | 40/38/36/32 | 43/38/36/32 | 46/42/40/36 | 47/43/41/37 | 44/39/36/33 | 46/42/40/36 | 47/43/41/37 | |
| | Outdoor | High | | 53 | 54 | 55 | 55 | 51 | 54 | 55 | |
| Sound Power (Cooling) | Indoor | High | | 54 | 57 | - | - | 58 | - | - | |
| | Outdoor | High | | 68 | 69 | - | - | 67 | - | - | |
| Airflow Rate (High) | Indoor / Outdoor | m³/h | 1600/3600 | 1800/3800 | 1900/6750 | 2000/6750 | 1800/6200 | 1900/6900 | 2000/6900 | | |
| Net Dimension H x W x D | Indoor | | mm | 288x840x840 50x950x950 | | |
| | Outdoor | | kg(lbs) | 26 (57) / 5.5 (12) | 26 (57) / 5.5 (12) | 26 (57) / 5.5 (12) | 26 (57) / 5.5 (12) | 26 (57) / 5.5 (12) | 26 (57) / 5.5 (12) | | |
| Piping Connections (Small / Large) | Indoor | | mm | 830x900x330 | 830x900x330 | 1290×900×330 | 1290×900×330 | 1290×900×330 | 1290×900×330 | | |
| | Outdoor | | kg(lbs) | 61 (135) | 61 (135) | 86 (190) | 86 (190) | 104 (229) | 104 (229) | | |
| Drain Hose Diameter (I.D./O.D.) | Indoor | | 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 | | |
| | Outdoor | | 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 | | |
| Max Pipe Length (Pre-Charge) | Indoor | | m | 50 (20) | 50 (20) | 50 (20) | 50 (20) | 75 (30) | 75 (30) | | |
| | Outdoor | | m | 30 | 30 | 30 | 30 | 30 | 30 | | |
| Max Height Difference | Cooling | | °CDB | -15 to 46 | | |
| | Heating | | | -15 to 24 | | |
| Refrigerant (Global Warming Potential) | | | | R410A (1,975) | | |
| Cassette Grille | | | | UTG-UGYA-W | UTG-UGYA-W | UTG-UGYA-W | UTG-UGYA-W | UTG-UGYA-W | UTG-UGYA-W | | |

Dimensions

Models : AUYG30LRLE / AUYG36LRLE / AUYG36LRLA / AUYG45LRLA / AUYG54LRLA

(Unit : mm)



Floor/Ceiling

Model : ABYG18LVTB / ABYG24LVTA



Wireless R.C.



For ABYG18LVTB



For ABYG24LVTA

ALL
DC



Features

Flexible installation

Example for floor installation

Floor console



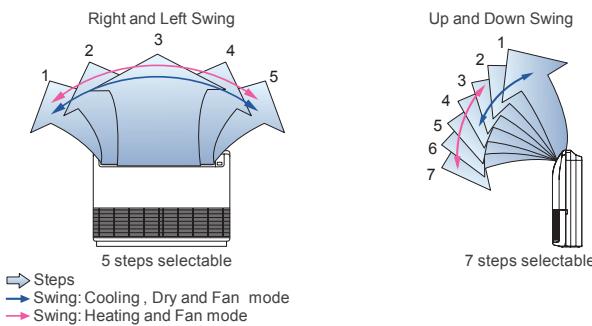
Example for ceiling installation

Under ceiling

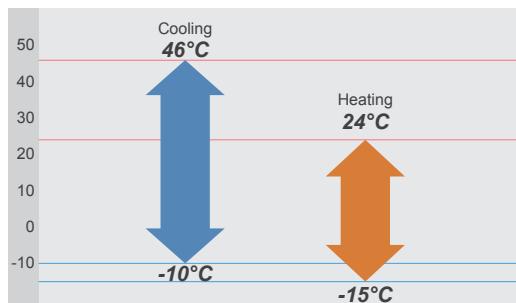


Double auto swing

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



Low ambient operation



Easy installation

Main work settings can be done easily from the remote controller at installation

Main work settings

- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating

Optional parts

Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
Simple Remote Controller: UTY-RSNYM

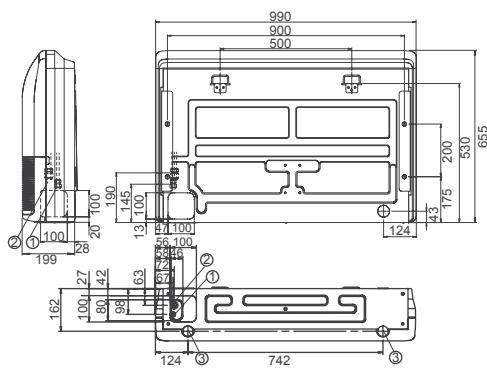


Specifications

| Model No. | Indoor unit | | ABYG18LVTB | ABYG24LVTA |
|--|------------------|---------|---------------|---------------|
| | Outdoor unit | | AOYG18LALL | AOYG24LALA |
| Power Source | V/ Ø/Hz | | 230/1/50 | 230/1/50 |
| Capacity | Cooling | kW | 5.2 (0.9-5.9) | 6.8 (0.9-8.0) |
| | Heating | | 6.0 (0.9-7.5) | 8.0 (0.9-9.1) |
| Input Power | Cooling/Heating | kW | 1.62/1.66 | 2.21/2.26 |
| EER | Cooling | W/W | 3.21 | 3.08 |
| COP | Heating | | 3.61 | 3.54 |
| Pdesign | Cooling/Heating | kW | 5.2/5.2 | 6.8/6.0 |
| SEER | Cooling | W/W | 6.10 | 5.60 |
| SCOP | Heating | | 4.00 | 3.90 |
| Energy Efficiency Class | Cooling | | A++ | A+ |
| | Heating | | A+ | A |
| Running Current | Cooling/Heating | A | 7.2/7.4 | 9.7/9.9 |
| Annual Energy Consumption | Cooling | kWh/a | 298 | 425 |
| | Heating | | 1819 | 2150 |
| Moisture Removal | l/h | | 2.0 | 2.7 |
| Sound Pressure (Cooling) | Indoor | H/M/L/Q | 43/40/34/31 | 48/44/40/35 |
| | Outdoor | High | 50 | 52 |
| Sound Power (Cooling) | Indoor | High | 57 | 61 |
| | Outdoor | High | 62 | 67 |
| Airflow Rate (High) | Indoor / Outdoor | m³/h | 780/2000 | 980/2470 |
| Net Dimension H x W x D | Indoor | | 199x990x655 | 199x990x655 |
| | Outdoor | | kg(lbs) | 27 (59) |
| Piping Connections (Small / Large) | mm | | 578x790x300 | 578x790x315 |
| | kg(lbs) | | 40 (88) | 44 (97) |
| Drain Hose Diameter (I.D./O.D.) | mm | | 6.35/12.70 | 6.35/15.88 |
| Max Pipe Length (Pre-Charge) | m | | 25/32 | 25/32 |
| Max Height Difference | m | | 25 (15) | 30 (15) |
| Operation Range | Cooling | °CDB | -10 to 46 | -10 to 46 |
| | Heating | | -15 to 24 | -15 to 24 |
| Refrigerant (Global Warming Potential) | | | R410A (1,975) | R410A (1,975) |

Dimensions Models : ABYG18LVTB / ABYG24LVTA

(Unit : mm)



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

Ceiling

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

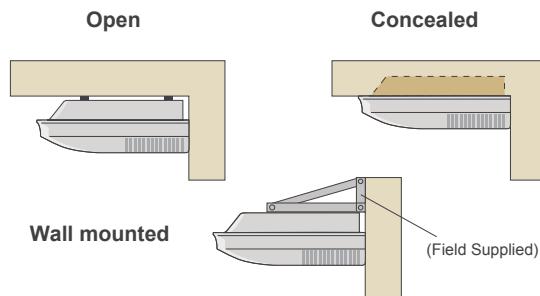


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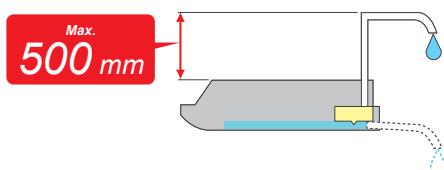
Features

Installation



Condensate lift-up mechanism (Option)

Optional drain lift-up mechanism allows flexible installation.

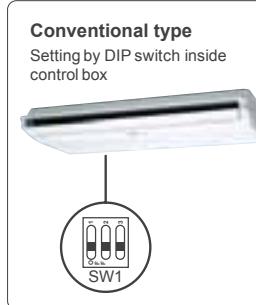


Easy installation

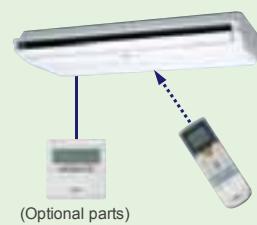
Main work settings can be done easily from the remote controller at installation

Main work settings

- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating

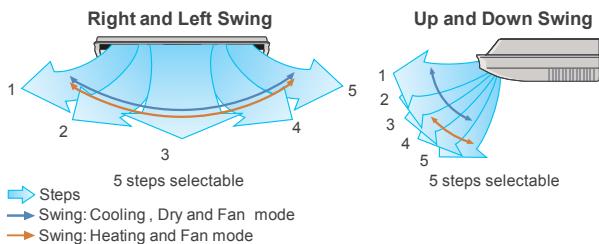


Setting by wireless or wired remote controller

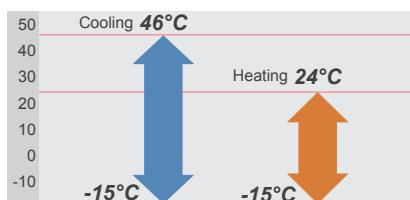


Multi auto swing

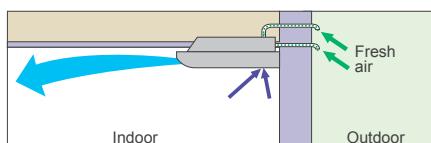
A combination of right/left and up/down directional swing allows 3-dimensional air direction control.



Low ambient operation



Fresh air intake



Optional parts

- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
Simple Remote Controller: UTY-RSNYM
Drain Pump Unit: UTR-DPB24T
Flange: UTD-RF204



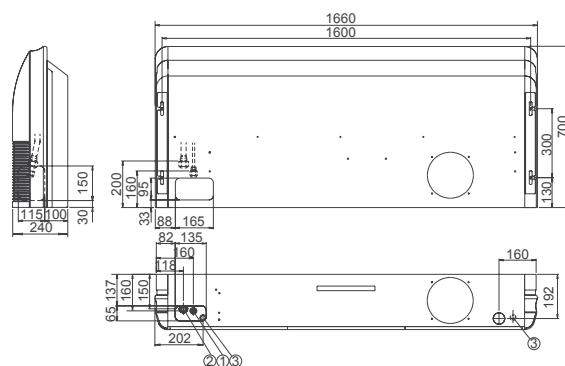
Specifications

| Model No. | Indoor unit | | ABYG30LRTE | ABYG36LRTE | ABYG45LRTA | ABYG36LRTA | ABYG45LRTA | ABYG54LRTA |
|--|------------------|---------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | Outdoor unit | | AOYG30LETL | AOYG36LETL | AOYG45LETL | AOYG36LATT | AOYG45LATT | AOYG54LATT |
| Power Source | | V/Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| Capacity | Cooling | kW | 8.5 (2.8-10.0) | 9.4 (2.8-11.2) | 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 (4.2-15.5) | 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 | 3.77/3.68 | 2.84/2.87 | 3.89/3.88 | 4.65/4.67 |
| EER | Cooling | W/W | 3.21 | 3.21 | 3.21 | 3.52 | 3.21 | 3.01 |
| COP | Heating | | 3.61 | 3.71 | 3.61 | 3.90 | 3.61 | 3.43 |
| Pdesign | Cooling/Heating | kW | 8.5/8.0 | 9.4/8.7 | - | 10.0/10.0 | - | - |
| SEER | Cooling | W/W | 6.10 | 6.00 | - | 6.10 | - | - |
| SCOP | Heating | | 4.20 | 4.10 | - | 4.10 | - | - |
| Energy Efficiency Class | Cooling | | A++ | A+ | - | A++ | - | - |
| | Heating | | A+ | A+ | - | A+ | - | - |
| Running Current | Cooling/Heating | A | 11.6/12.2 | 12.8/13.2 | 16.5/16.1 | 4.3/4.4 | 5.8/5.8 | 6.9/6.9 |
| Annual Energy Consumption | Cooling | kWh/a | 487 | 548 | - | 573 | - | - |
| | Heating | | 2662 | 2965 | - | 3414 | - | - |
| Moisture Removal | | I/h | 2.5 | 3.0 | 4.0 | 3.0 | 4.5 | 5.0 |
| Sound Pressure (Cooling) | Indoor | H/M/L/Q | 45/43/37/32 | 47/43/37/32 | 49/45/39/34 | 47/43/37/32 | 49/45/39/34 | 51/48/42/38 |
| | Outdoor | High | | 53 | 54 | 55 | 51 | 54 |
| Sound Power (Cooling) | Indoor | High | 57 | 60 | - | 61 | - | - |
| | Outdoor | High | | 68 | 69 | - | 67 | - |
| Airflow Rate (High) | Indoor / Outdoor | m³/h | 1660/3600 | 1900/3800 | 2100/6200 | 1900/6200 | 2100/6900 | 2300/6900 |
| Net Dimension H x W x D | Indoor | | 240x1660x700 | 240x1660x700 | 240x1660x700 | 240x1660x700 | 240x1660x700 | 240x1660x700 |
| | Outdoor | | kg(lbs) | 46 (101) | 46 (101) | 46 (101) | 46 (101) | 46 (106) |
| Piping Connections (Small / Large) | mm | | 830x900x330 | 830x900x330 | 1290x900x330 | 1290x900x330 | 1290x900x330 | 1290x900x330 |
| | kg(lbs) | | 61 (134) | 61 (134) | 86 (189) | 104 (229) | 104 (229) | 104 (229) |
| Drain Hose Diameter (I.D./O.D.) | 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 |
| | mm | | 21.5/26.0 | 21.5/26.0 | 21.5/26.0 | 21.5/26.0 | 21.5/26.0 | 21.5/26.0 |
| Max Pipe Length (Pre-Charge) | m | | 50 (20) | 50 (20) | 50 (20) | 75 (30) | 75 (30) | 75 (30) |
| | m | | 30 | 30 | 30 | 30 | 30 | 30 |
| Operation Range | Cooling | °CDB | -15 to 46 |
| | Heating | | -15 to 24 |
| Refrigerant (Global Warming Potential) | | | R410A (1,975) |

Dimensions

Models : ABYG30LRTE / ABYG36LRTE / ABYG36LRTA / ABYG45LRTA / ABYG54LRTA

(Unit : mm)



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

Slim Duct

Model : ARYG12LLTB / ARYG14LLTB / ARYG18LLTB



ARYG12/14LLTB



ARYG18LLTB



Wired R.C.



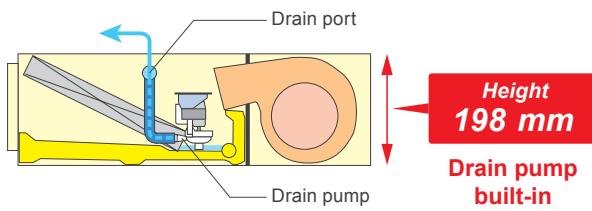
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DC



Features

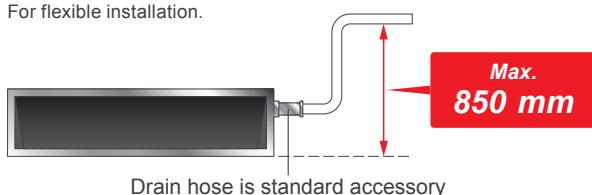
Slim design

The slim design allows installations where ceilings are narrow.



Drain hose as standard accessory

For flexible installation.



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

Flexible installation

Ceiling concealed

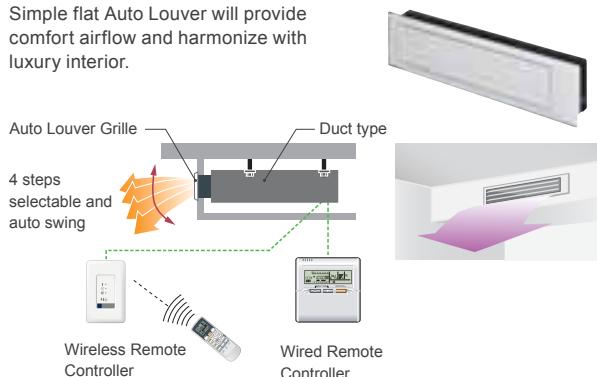


Floor concealed



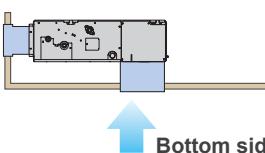
Auto Louver Grille Kit (Option)

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

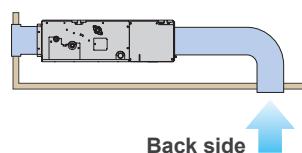


Air-intake

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



Bottom side



Back side

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-GXSA-W (For ARYG12 / 14LLTB)

UTD-GXSB-W (For ARYG18LLTB)



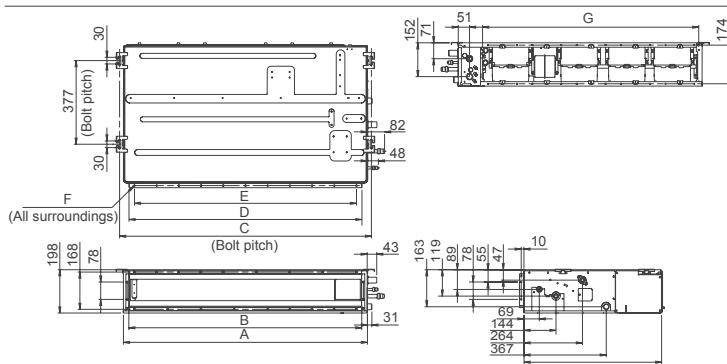
Specifications

| Model No. | Indoor unit | | ARYG12LLTB | ARYG14LLTB | ARYG18LLTB |
|--|------------------|---------|---------------|---------------|---------------|
| | Outdoor unit | | AOYG12LALL | AOYG14LALL | AOYG18LALL |
| Power Source | | V/Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 |
| 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 |
| COP | Heating | | 3.69 | 3.71 | 3.61 |
| Pdesign | Cooling/Heating | kW | 3.5/4.2 | 4.3/4.5 | 5.2/5.2 |
| SEER | Cooling | W/W | 5.90 | 5.80 | 6.20 |
| SCOP | Heating | | 4.00 | 3.90 | 4.10 |
| Energy Efficiency Class | Cooling | | A+ | A+ | A++ |
| | Heating | | A+ | A | A+ |
| Running Current | Cooling/Heating | A | 4.8/5.1 | 6.1/6.1 | 7.2/7.4 |
| Annual Energy Consumption | Cooling | kWh/a | 207 | 259 | 293 |
| | Heating | | 1467 | 1614 | 1774 |
| Moisture Removal | | l/h | 1.3 | 1.5 | 2.0 |
| Sound Pressure (Cooling) | Indoor | H/M/L/Q | 29/28/26/25 | 32/30/28/26 | 32/30/29/27 |
| | Outdoor | High | 47 | 49 | 50 |
| Sound Power (Cooling) | Indoor | High | 58 | 60 | 58 |
| | Outdoor | High | 61 | 62 | 62 |
| Airflow Rate (High) | Indoor / Outdoor | m³/h | 650/1780 | 800/1910 | 940/2000 |
| Static pressure range (Standard) | | Pa | 0 to 90 (25) | 0 to 90 (25) | 0 to 90 (25) |
| Net Dimension H x W x D | Indoor | | mm | 198x700x620 | 198x700x620 |
| | kg(lbs) | | kg(lbs) | 19 (42) | 19 (42) |
| | Outdoor | | mm | 578x790x300 | 578x790x300 |
| | kg(lbs) | | kg(lbs) | 40 (88) | 40 (88) |
| Piping Connections (Small / Large) | | mm | 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 (Global Warming Potential) | | | R410A (1,975) | R410A (1,975) | R410A (1,975) |

Dimensions

Models : ARYG12LLTB / ARYG14LLTB / ARYG18LLTB

(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

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



Wired R.C.

For ARYG24LMLA

For ARYG30/36LMLE

For ARYG36/45LMLA

(24) (30/36/45)
V
V-PAM

i
i-PAM

Adjust

R
Restart

Auto
Changeover

D
Distributing

E
Economy

F
Fresh

E
Economy

W+S

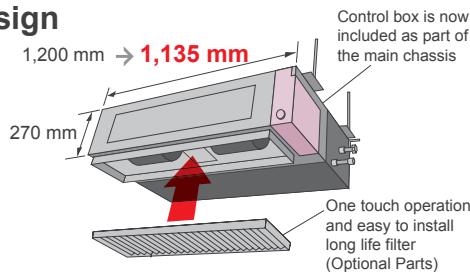
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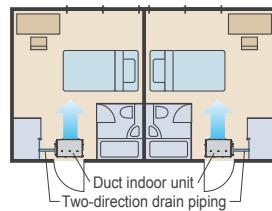
Features

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.



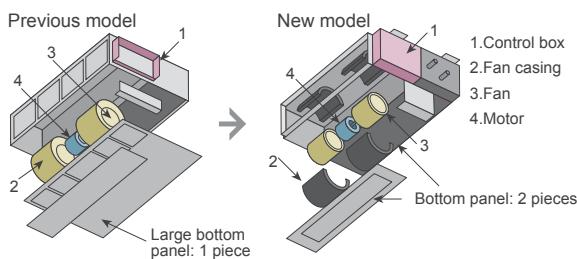
Two-direction drain piping



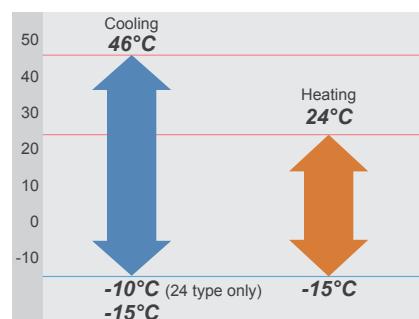
Easy maintenance

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



Low ambient operation



Easy installation

Main work settings can be done easily from the remote controller at installation

Main work settings

- High ceiling setting
- Auto restart
- Temperature adjustment when cooling / heating

Conventional type

Setting by DIP switch inside control box



Setting by wired remote controller



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 |



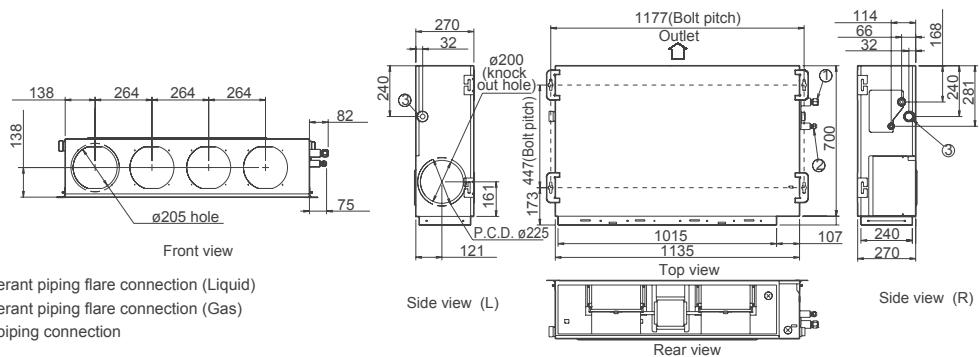
Specifications

| Model No. | Indoor unit | | ARYG24LMLA | ARYG30LMLE | ARYG36LMLE | ARYG45LMLA | ARYG36LMLA | ARYG45LMLA |
|--|------------------|---------|----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | Outdoor unit | | AOYG24LALA | AOYG30LETL | AOYG36LETL | AOYG45LETL | AOYG36LATT | AOYG45LATT |
| Power Source | | V/ Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 400/3/50 | 400/3/50 |
| Capacity | Cooling | kW | 6.8 (0.9-8.0) | 8.5 (2.8-10.0) | 9.4 (2.8-11.2) | 12.1 (4.0-13.3) | 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 (4.2-15.5) | 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 | 3.77/3.68 | 2.84/2.87 | 3.89/3.88 |
| EER | Cooling | W/W | 3.08 | 3.21 | 3.18 | 3.21 | 3.52 | 3.21 |
| COP | Heating | | 3.54 | 3.73 | 3.61 | 3.61 | 3.90 | 3.61 |
| Pdesign | Cooling/Heating | 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 | | 4.00 | 3.90 | 3.80 | - | 4.00 | - |
| Energy Efficiency Class | Cooling | | A++ | A+ | A+ | - | A+ | - |
| | Heating | | A+ | A | A | - | A+ | - |
| Running Current | Cooling/Heating | A | 9.7/9.9 | 11.6/11.7 | 13.0/13.6 | 16.5/16.1 | 4.3/4.4 | 5.8/5.8 |
| Annual Energy Consumption | Cooling | kWh/a | 384 | 504 | 576 | - | 603 | - |
| | Heating | | 2098 | 2868 | 3202 | - | 3497 | - |
| Moisture Removal | | l/h | 2.5 | 2.5 | 3.0 | 4.0 | 3.0 | 4.5 |
| Sound Pressure (Cooling) | Indoor | H/M/L/Q | 31/29/27/25 | 39/35/30/26 | 39/35/30/26 | 42/38/32/28 | 38/36/31/26 | 42/38/32/28 |
| | Outdoor | High | 52 | 53 | 54 | 55 | 51 | 54 |
| Sound Power (Cooling) | Indoor | High | 60 | 65 | 65 | - | 65 | - |
| | Outdoor | High | 67 | 68 | 69 | - | 67 | - |
| Airflow Rate (High) | Indoor / Outdoor | m³/h | 1100/2470 | 1900/3600 | 1900/3800 | 2100/6200 | 1800/6200 | 2100/6750 |
| Static pressure range (Standard) | | Pa | 30 to 150 (35) | 30 to 150 (47) | 30 to 150 (47) | 30 to 150 (60) | 30 to 150 (47) | 30 to 150 (60) |
| Net Dimension H x W x D | Indoor | | 270x1135x700 | 270x1135x700 | 270x1135x700 | 270x1135x700 | 270x1135x700 | 270x1135x700 |
| | Outdoor | | kg(lbs) | 38 (84) | 40 (88) | 40 (88) | 40 (88) | 40 (88) |
| Piping Connections (Small / Large) | mm | | 578x790x315 | 830x900x330 | 830x900x330 | 1290x900x330 | 1290x900x330 | 1290x900x330 |
| | kg(lbs) | | 44 (97) | 61 (134) | 61 (134) | 86 (189) | 104 (229) | 104 (229) |
| Drain Hose Diameter (I.D./O.D.) | | 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 |
| Max Pipe Length (Pre-Charge) | | m | 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 Height Difference | | m | 30 (15) | 50 (20) | 50 (20) | 50 (20) | 75 (30) | 75 (30) |
| Operation Range | Cooling | °CDB | -10 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 (Global Warming Potential) | | | R410A (1,975) | R410A (1,975) | R410A (1,975) | R410A (1,975) | R410A (1,975) | R410A (1,975) |

Dimensions

Models : ARYG24LMLA / ARYG30LMLE / ARYG36LMLE / ARYG36LMLA / ARYG45LMLA

(Unit : mm)



High Static Pressure Duct

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



ARYG45/54LHTA



ARYG60LHTA



Wired R.C.



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DC



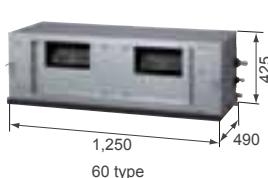
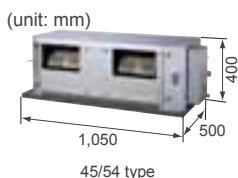
Features

High energy efficiency

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

Easy installation (Compact size & Lightweight)

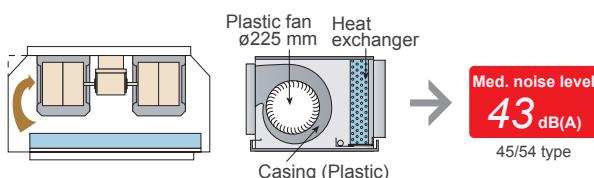
A compact size and lightweight indoor unit has been developed by reducing the basic chassis and the overall material weight.



Low noise

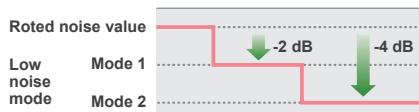
Indoor unit

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

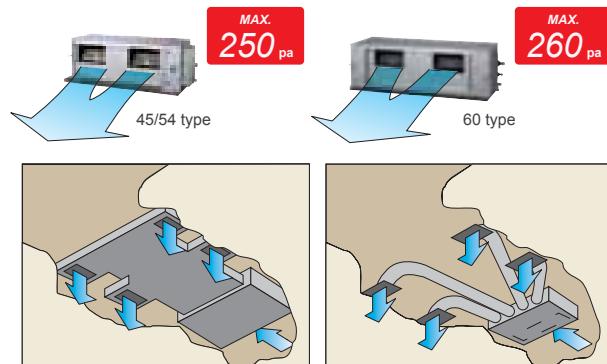


Outdoor unit

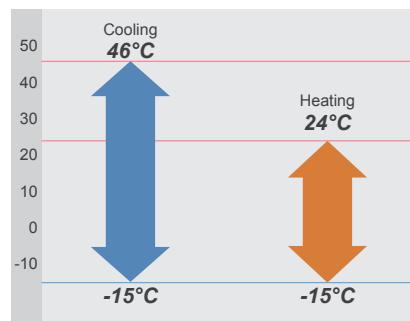
2 stage low noise mode can be selected. (Option)



Design also corresponding to high static pressure



Low ambient operation



Optional parts

- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
Simple Remote Controller: UTY-RSNYM
Long-Life Filter: UTD-LF60KA (For ARYG45/54LHTA only)
Remote Sensor Unit: UTY-XSZX
IR Receiver Kit: UTY-LRHYM (For ARYG60LHTA only)



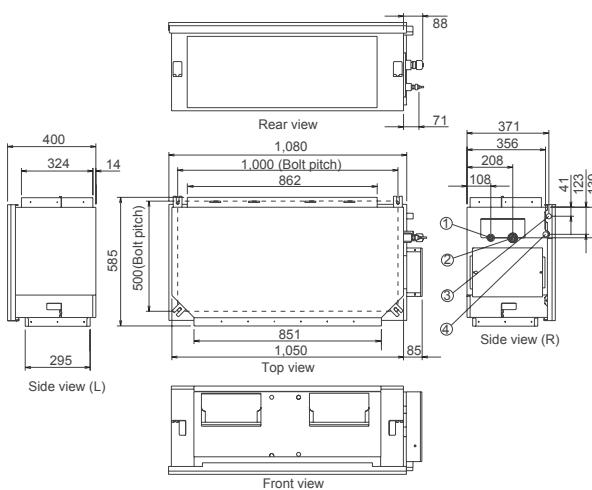
Specifications

| Model No. | Indoor unit | | ARYG45LHTA | ARYG54LHTA | ARYG45LHTA | ARYG54LHTA | ARYG60LHTA |
|------------------------------------|------------------|--------|------------------|------------------|------------------|------------------|-----------------|
| | Outdoor unit | | AOYG45LETL | AOYG54LETL | | | |
| Power Source | | V/Ø/Hz | 230/1/50 | 230/1/50 | 400/3/50 | 400/3/50 | 400/3/50 |
| 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 | | 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 | | 3.68 | 3.41 | 3.81 | 3.66 | 3.50 |
| Running Current | Cooling/Heating | A | 18.9/16.7 | 20.9/20.5 | 6.1/5.5 | 6.9/6.5 | 6.9 /7.6 |
| Moisture Removal | | l/h | 1.5 | 2.0 | 1.5 | 2.5 | 2.0 |
| Sound Pressure (Cooling) | Indoor | H/M/L | 47/43/40 | 47/43/40 | 47/43/40 | 47/43/40 | 45/40/36 |
| | Outdoor | High | 55 | 55 | 54 | 55 | 56 |
| Airflow Rate (High) | Indoor / Outdoor | m³/h | 3350/6750 | 3350/6750 | 3350/6750 | 3350/6900 | 3550/6900 |
| Static pressure range (Standard) | | Pa | 100 to 250 (100) | 60 to 260 (60) |
| Net Dimension H x W x D | Indoor | | mm | 400x1050x500 | 400x1050x500 | 400x1050x500 | 425x1250x490 |
| | | | kg(lbs) | 46 (101) | 46 (101) | 46 (101) | 54 (119) |
| | Outdoor | | mm | 1290x900x330 | 1290x900x330 | 1290x900x330 | 1290x900x330 |
| Piping Connections (Small / Large) | | 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) |
| 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 | | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 | -15 to 24 |
| Refrigerant | | | R410A | R410A | R410A | R410A | R410A |

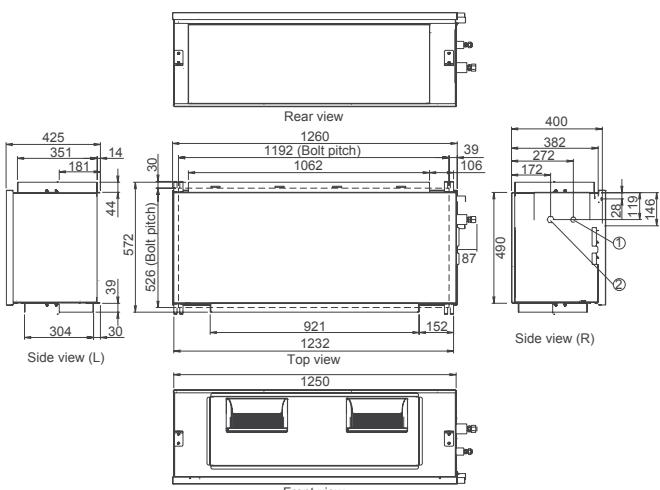
Dimensions Models : ARYG45LHTA / ARYG54LHTA / ARYG60LHTA

(Unit : mm)

Model: ARYG45LHTA / ARYG54LHTA



Model: ARYG60LHTA



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

High Static Pressure Duct

Model : ARYC72LHTA [3phase], ARYC90LHTA [3phase]



ARCYC72LHTA



ARCYC90LHTA



Wired R.C.

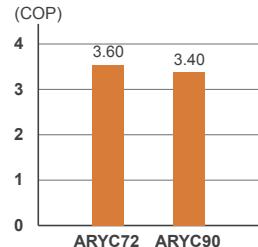
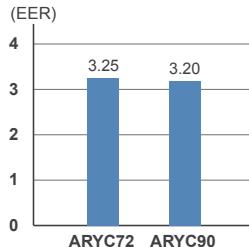
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Features

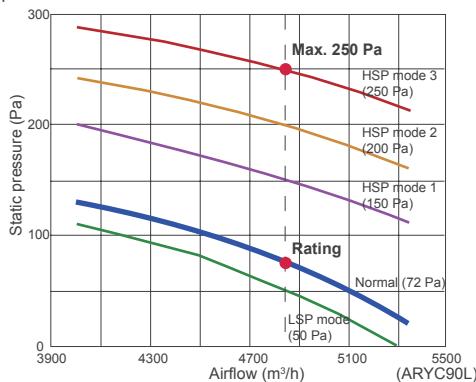
High energy efficiency

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



5 Static Pressure selection

Improvement and design flexibility has allowed multiple fan speeds and static pressure modes. Low noise is realized by adopting plastic case, plastic fan.



Pursuance of amenity performance

Various remote controllers and sensors can be selected.



Outdoor unit quiet operation

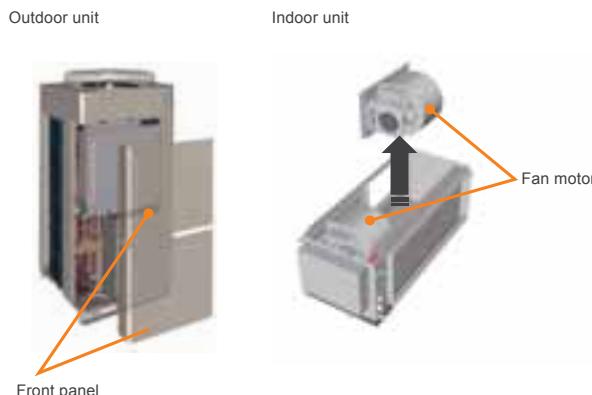
A low outdoor noise operation mode allows the outdoor unit to have two quiet mode operation settings.

Peak cut operation

A peak power consumption mode controls a 4 step outdoor operation control to cut down energy usage at peak energy usage times.

Easy Service & Maintenance

- Split front panel allows for maintenance from top or bottom of the outdoor unit
- Fan motors of the indoor unit can be removed separately



Optional parts

Wired Remote Controller: UTY-RNNYM, UTY-RVNYM

Simple Remote Controller: UTY-RSNYM

Remote Sensor Unit: UTY-XSZX



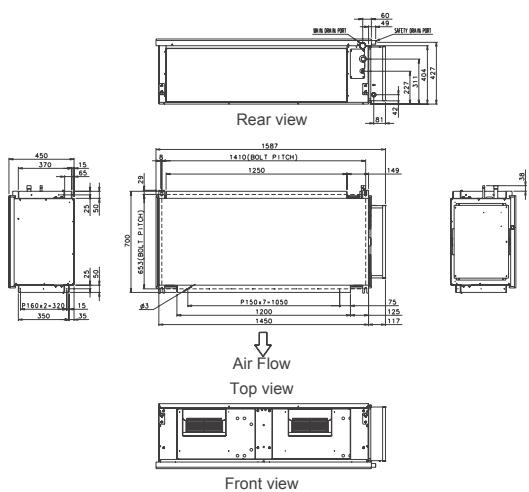
Specifications

| Model No. | Indoor unit | | ARYC72LHTA | ARYC90LHTA |
|------------------------------------|------------------|---------|------------------|------------------|
| | Outdoor unit | | AOYA72LALT | AOYA90LALT |
| Power Source | V / Ø / Hz | | 400/3/50 | 400/3/50 |
| Capacity | Cooling | kW | 20.3 (10.8-23.5) | 25.0 (11.2-28.0) |
| | Heating | | 22.6 (12.0-26.5) | 28.0 (12.5-31.5) |
| Input Power | Cooling/Heating | kW | 6.25/6.27 | 7.82/8.24 |
| EER | Cooling | | 3.25 | 3.20 |
| COP | Heating | | 3.60 | 3.40 |
| Running Current | Cooling/Heating | A | 9.6/9.6 | 11.9/12.5 |
| Moisture Removal | | l/h | 4.5 | 6.0 |
| Sound Pressure (Cooling) | Indoor | H/M/L/Q | 47/44/41 | 49/46/43 |
| | Outdoor | High | 57 | 58 |
| Airflow Rate (High) | Indoor / Outdoor | m³/h | 4300/9300 | 4850/10700 |
| Static pressure range (Standard) | | Pa | 50 to 250 (72) | 50 to 250 (72) |
| Net Dimension H x W x D | Indoor | | 450x1587x700 | 550x1587x700 |
| | kg(lbs) | | 100 (220) | 110 (242) |
| | Outdoor | | 1690x930x765 | 1690x930x765 |
| Piping Connections (Small / Large) | mm | | 215 (473) | 215 (473) |
| | kg(lbs) | | 12.70/25.40 | 12.70/25.40 |
| Max Pipe Length (Pre-Charge) | | m | 75 (20) | 75 (20) |
| Height Difference | | | 30 | 30 |
| Operation Range | Cooling | °CDB | -5 to 46 | -5 to 46 |
| | Heating | | -15 to 24 | -15 to 24 |
| Refrigerant | | | R410A | R410A |

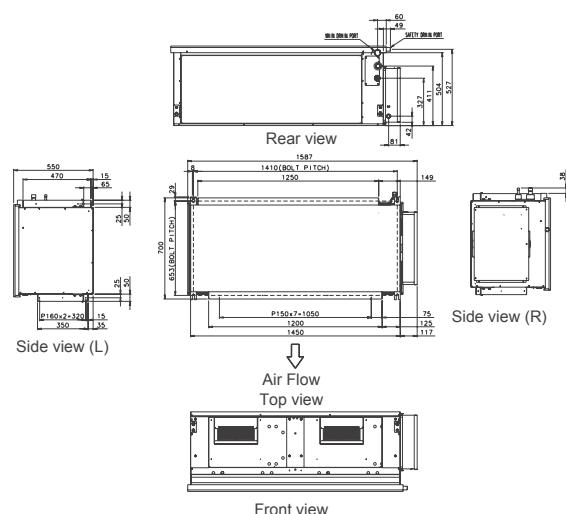
Dimensions Models : ARYC72LHTA / ARYC90LHTA

(Unit : mm)

Model: ARYC72LHTA



Model: ARYC90LHTA





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

If you want to keep a large floor as well as many rooms comfortable, we recommend you use Multi Split to build a simple system using one outdoor unit.

Choose from a large lineup of indoor units that best matches your rooms. You can mix and match them at will.

Build the system that is just right for you.



Multi Split provides comfort in a variety of situations
from home to office and store.

- 070** Multi type Line-up
- 072** 2 & 3-4 Rooms Multi
- 074** 8 Rooms Multi
- 078** Specifications of All Indoor Units
- 080** Multi Combination Table
- 090** Simultaneous Multi
- 092** Optional Parts for Split & Multi Split

MULTI SPLIT



Multi type Line-up

Multi Split Line-up

| Model code | Capacity range | | | | |
|------------------------------------|----------------|------------|------------|------------|------------|
| | 14 | 18 | 24 | 30 | 45 |
| | 4 | 5 | 5.4 | 6.8 | 8 |
| 2 Rooms Multi Up to 2 units | | | | | |
| Outdoor unit | | AOYG14LAC2 | AOYG18LAC2 | | |
| 3 Rooms Multi Up to 3 units | | | | | |
| Outdoor unit | | | | AOYG18LAT3 | AOYG24LAT3 |
| 4 Rooms Multi Up to 4 units | | | | | |
| Outdoor unit | | | | | AOYG30LAT4 |
| 8 Rooms Multi Up to 8 units | | | | | |
| Outdoor unit | | | | | AOYG45LBT8 |

Note : 1. 2 Rooms Multi : Connectable indoor units are 2 units.

AOYG14LAC2 : Total capacity of indoor units connected must be between 4.0 kW and 6.2 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 7.9 kW and 14.4 kW.

4. 8 Rooms Multi : Connectable indoor units are 2 to 8 units.

AOYG45LBT8 : Total capacity of indoor units connected must be between 11.2 kW and 18.2 kW.

Connectable Indoor unit line-up

| Outdoor Unit | Type | 2 Rooms | | 3 Rooms | | 4 Rooms | | 8 Rooms | |
|----------------------|---------------|------------|------------|------------|------------|------------|-----|------------|---|
| | Model name | AOYG14LAC2 | AOYG18LAC2 | AOYG18LAT3 | AOYG24LAT3 | AOYG30LAT4 | | AOYG45LBT8 | |
| | Capacity (kW) | Cooling | 4.0 | 5.0 | 5.4 | 6.8 | 8.0 | 14.0 | |
| | | Heating | 4.4 | 5.6 | 6.8 | 8.0 | 9.6 | 16.0 | |
| Indoor Unit | BTU | kW Class | | | | | | | |
| ASYG07/09/12/14LM | 7000 | 2.0 | ● | ● | ● | ● | ● | ● | ● |
| | 9000 | 2.5 | ● | ● | ● | ● | ● | ● | ● |
| | 12000 | 3.5 | ● | ● | ● | ● | ● | ● | ● |
| | 14000 | 4.0 | — | ● | ● | ● | ● | ● | ● |
| ASYG18/24LF | 18000 | 5.0 | — | — | — | ● | ● | ● | ● |
| | 24000 | 7.0 | — | — | — | — | ● | ● | ● |
| AGYG09/12/14LV | 9000 | 2.5 | — | ● | ● | ● | ● | ● | ● |
| | 12000 | 3.5 | — | ● | ● | ● | ● | ● | ● |
| | 14000 | 4.0 | — | — | ● | ● | ● | ● | ● |
| AUYG07/09/12/14/18LV | 7000 | 2.0 | — | ● | ● | ● | ● | ● | ● |
| | 9000 | 2.5 | — | ● | ● | ● | ● | ● | ● |
| | 12000 | 3.5 | — | ● | ● | ● | ● | ● | ● |
| | 14000 | 4.0 | — | — | ● | ● | ● | ● | ● |
| | 18000 | 5.0 | — | — | — | ● | ● | ● | ● |
| ABYG14/18LV | 14000 | 4.0 | — | — | ● | ● | ● | ● | ● |
| | 18000 | 5.0 | — | — | — | ● | ● | ● | ● |
| ARYG07/09/12/14/18LL | 7000 | 2.0 | — | ● | ● | ● | ● | ● | ● |
| | 9000 | 2.5 | — | ● | ● | ● | ● | ● | ● |
| | 12000 | 3.5 | — | ● | ● | ● | ● | ● | ● |
| | 14000 | 4.0 | — | — | ● | ● | ● | ● | ● |
| | 18000 | 5.0 | — | — | — | ● | ● | ● | ● |

Indoor unit features

| | Up/Down | Double | Adjust | Restart | R Changeover | Auto | 10°C | HEAT | Fresh | Fresh | Economy | POWERFUL | Sleep | Program | Weekly | W.S | Filter | Ion | AF | Wash |
|----------------------|---------|--------|--------|---------|--------------|------|------|------|-------|-------|---------|----------|-------|---------|--------|-----|--------|-----|----|------|
| ASYG07/09/12/14LM | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| ASYG07/09/12/14LU | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| ASYG18/24LF | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| AGYG09/12/14LV | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| AUYG07/09/12/14/18LV | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| ABYG14/18LV | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| ARYG07/09/12/14/18LL | ○ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |

○: Optional function

2 & 3-4 Rooms Multi

2 Rooms : AOYG14LAC2 / AOYG18LAC2

3 Rooms : AOYG18LAT3 / AOYG24LAT3

4 Rooms : AOYG30LAT4



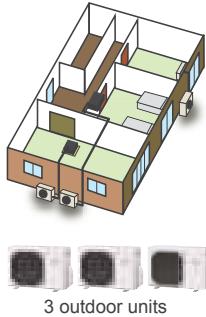
Features

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.

Example:

Single type installation

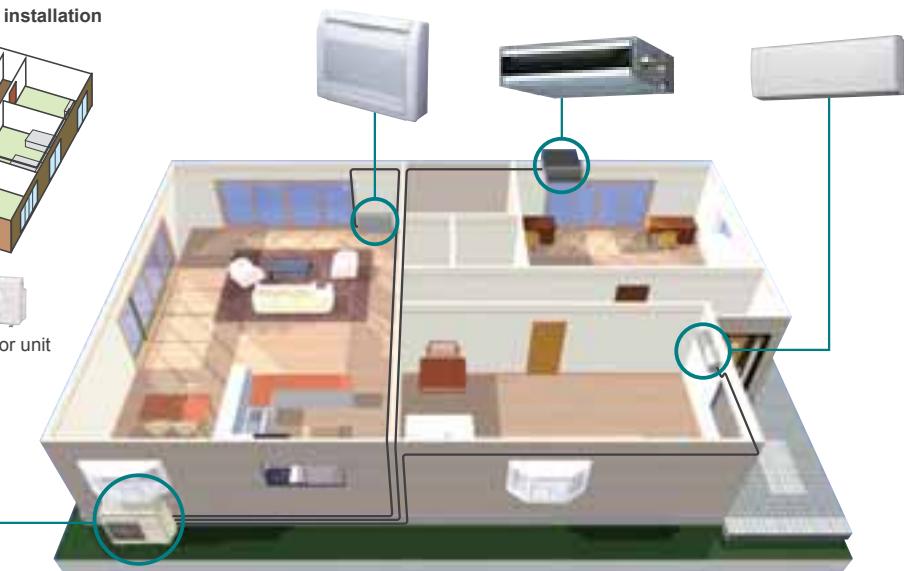


Multi type installation



Wide range of indoor units with various models

7 types 25 models are lined up in the capacity range from 2 kW to 7 kW class. Wide range of needs can be met from rooms of private homes to large shops and hotels.



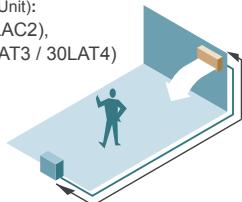
Flexible installation

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

Max. Piping Length (Each Unit):

20 m (AOYG14LAC2 / 18LAC2),

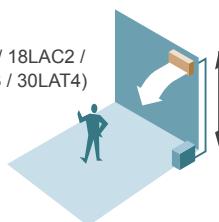
25 m (AOYG18LAT3 / 24LAT3 / 30LAT4)



Max. Height:

15 m (AOYG14LAC2 / 18LAC2 /

18LAT3 / 24LAT3 / 30LAT4)



Total Piping Length:

30 m (AOYG14LAC2 / 18LAC2),

50 m (AOYG18LAT3 / 24LAT3),

70 m (AOYG30LAT4)

Specifications (2 ROOMS, 3 ROOMS, 4 ROOMS)

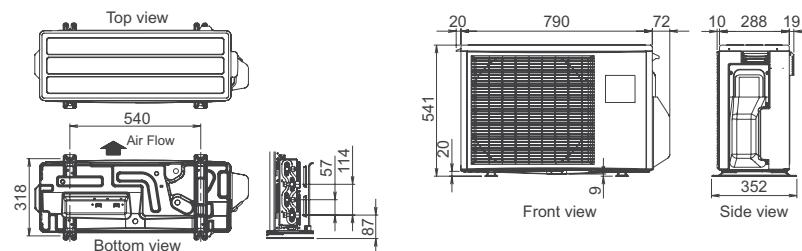
| Model No. | Outdoor unit | AOYG14LAC2 | AOYG18LAC2 | AOYG18LAT3 | AOYG24LAT3 | AOYG30LAT4 |
|-----------------------------|--|----------------|---------------|----------------------------|------------------------------|--|
| Power Source | V/Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 |
| Rated Capacity (min-max) | Cooling | 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 (2.0-8.8) | 9.6 (3.7-12.0) |
| EER | Cooling | 3.67 | 3.21 | 4.00 | 3.51 | 3.60 |
| | Heating | 4.27 | 3.97 | 4.20 | 4.00 | 4.00 |
| COP | Cooling | 47 | 50 | 46 | 48 | 50 |
| | Heating | 49 | 51 | 47 | 49 | 51 |
| Sound Pressure (High) | Cooling | 61 | 63 | 65 | 68 | 68 |
| | Heating | 63 | 64 | 67 | 70 | 70 |
| Net Dimension H x W x D | | 540x790x290 | 540x790x290 | 700x900x330 | 700x900x330 | 830x900x330 |
| Weight | | kg(lbs) | 37 (82) | 38 (84) | 55 (121) | 55 (121) |
| Connection pipe | Piping Connections | Small (Liquid) | Ø6.35x2 | Ø6.35x2 | Ø6.35x3 | Ø6.35x3 (*Ø6.35x3, Ø9.52) |
| | | Large (Gas) | Ø9.52x2 | Ø9.52x2 *(Ø9.52, Ø12.7) | Ø9.52x2, Ø12.7 *(Ø9.52x3) | Ø9.52x2, Ø12.7x2 *(Ø9.52x3, Ø12.7) *(Ø9.52x2, Ø12.7, Ø15.88) |
| | Max. Length | Total / Each | 30 / 20 | 30 / 20 | 50 / 25 | 50 / 25 |
| | | m | 15 | 15 | 15 | 15 |
| Max. Height Difference | Between Outdoor Unit and Each Indoor Units. | 10 | 10 | 10 | 10 | 10 |
| | Between Indoor Units. | | | | | |
| Operation Range | Cooling | 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 | | R410A | R410A | R410A | R410A | R410A |

* Connect to connection valve by the adapter.

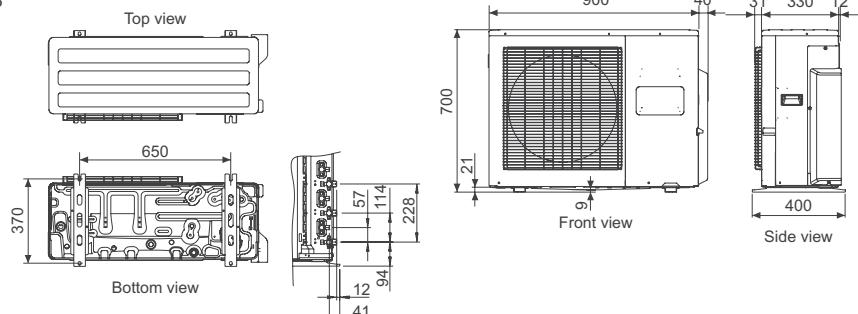
Dimensions

(Unit : mm)

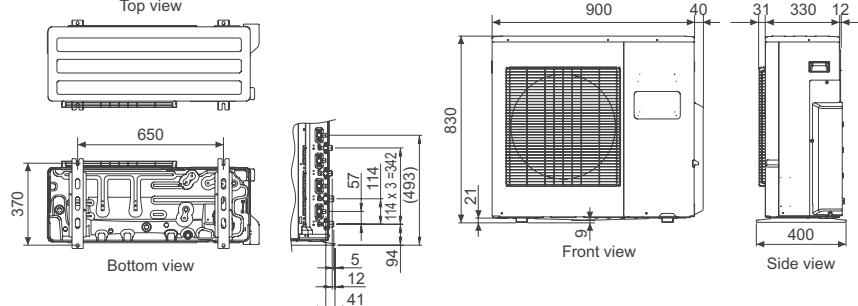
Models : AOGY14LAC2 / AOGY18LAC2



Models : AOGY18LAT3 / AOGY24LAT3



Models : AOGY30LAT4



8 Rooms Multi

8 Rooms : AOYG45LBT8

ALL
DC



Features

High Efficiency & Compact

Compact outdoor unit



Innovated technology

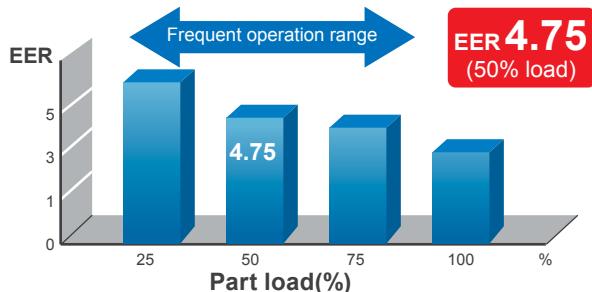
- High efficiency large fan :**
New high efficiency fan is mounted.
- DC fan motor :**
High performance and high efficiency has been realized by using a small DC fan motor.
- Heat exchanger :**
Reduced compact size and energy saving has been realized by utilizing high density piping design and 3-Row heat exchanger.
- High efficiency DC twin rotary compressor :**
A high performance, low noise, large capacity DC twin rotary compressor is used.

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.

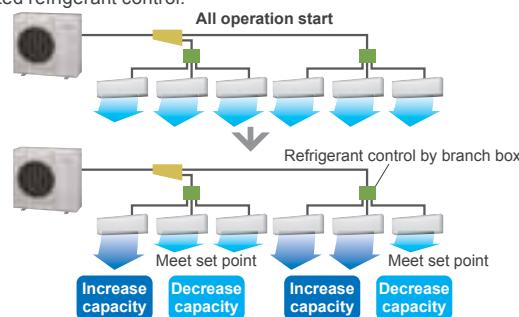
Efficiency of part load performance was drastically improved by developing ALL DC and our own inverter system.



More Comfort

Quick comfort by optimized refrigerant control

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



Features

Central Remote Controller Option

Central remote controller developed for residential applications.
All indoor units can be batched controlled using simple operations.
Schedule management and other functions can be used to achieve even greater energy savings.



Central & Individual Control

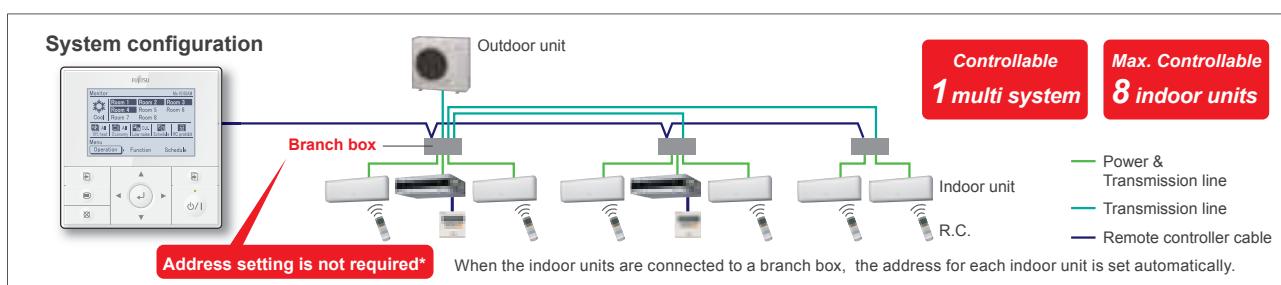
Batched control of up to 8 indoor units. The temperature, airflow volume, and remote control prohibition settings of all indoor units can be batched.

Easy-To-Use operation

- Large backlight LED screen
- Large easy-to-see operation panel

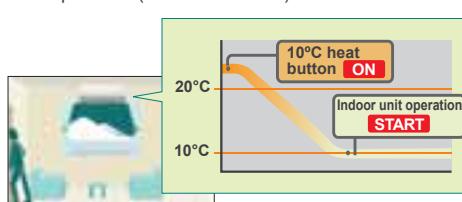
Multiple language support

Corresponds to 9 different languages (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)



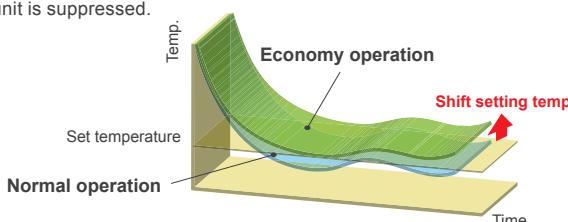
10°C heat operation

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.

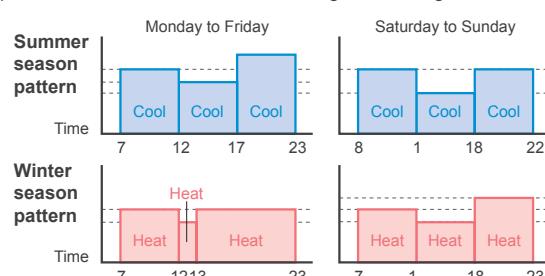


Prohibited Settings

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

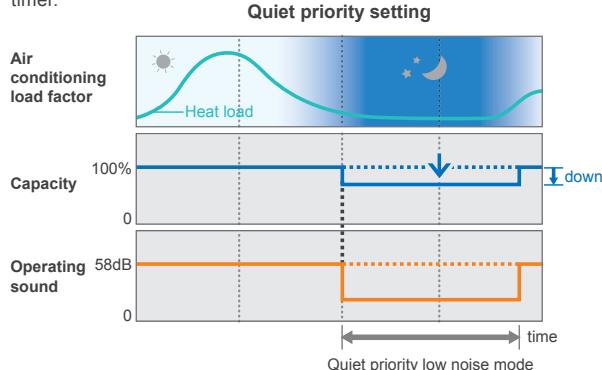
Weekly schedule timer

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.



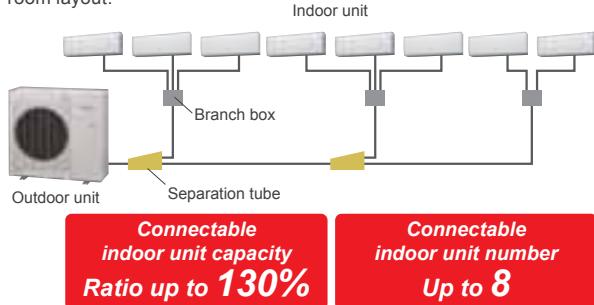
8 Rooms Multi

Features

Flexible Design & Easy Installation

Large capacity connection

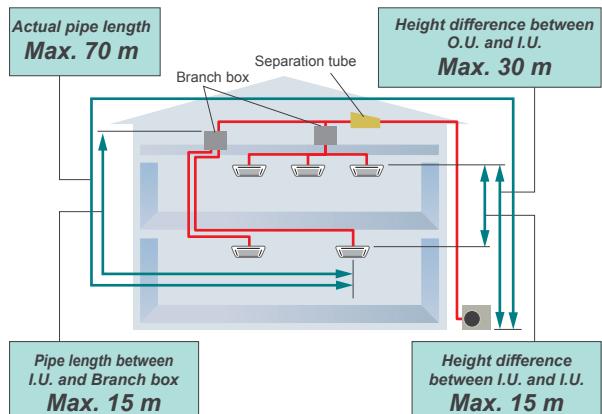
Up to 8 indoor units can be connected to one outdoor unit.
A maximum of 130% indoor unit connectable capacity. Match any room layout.



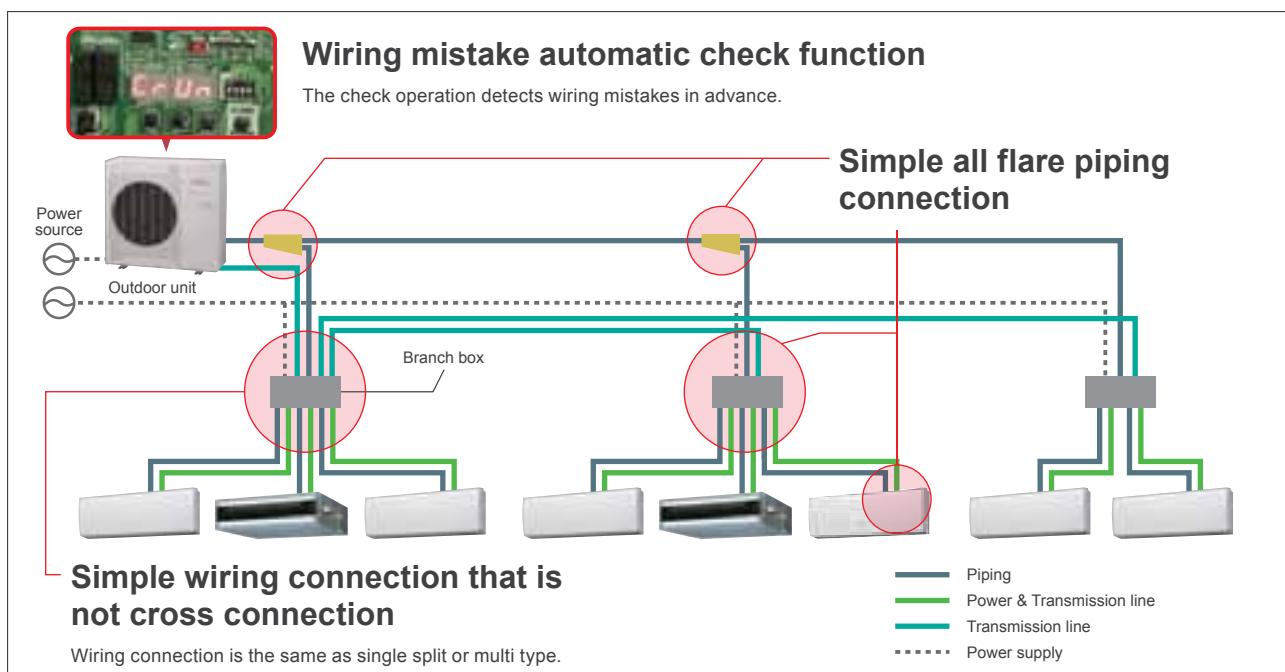
Long piping design

Can be installed in high rise condominiums or commercial buildings.

Total pipe length
Max. 115 m

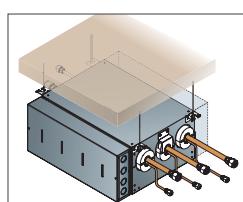


All flare piping connection and simple installation that minimizes wiring mistakes.



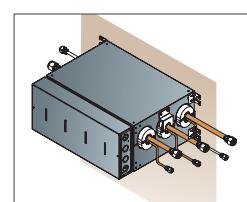
Branch Box can be mounted flexibly.

Allowed Branch Box Mounting Direction



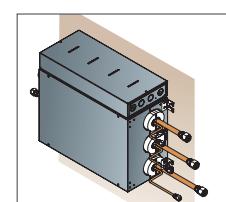
Hanging from the ceiling

Do not hang from the ceiling when performing a vertical installation.



Horizontal Wall Mounting

Install the unit with its top side facing upwards.



Vertical Wall Mounting

Install the unit with the control box facing upwards.

Specifications

| | | | | |
|------------------------------------|---------|---------|-------------------------------|--|
| Model name | | | AOYG45LBT8 | |
| Maximum Connectable Indoor Unit | | | 8 | |
| Indoor unit connectable capacity | Cooling | kW | 11.2 - 18.2 | |
| Power source | V/Ø/Hz | | 230/1/50 | |
| Rated Capacity | Cooling | kW | 14.0 | |
| | Heating | | 16.0 | |
| Input Power | Cooling | kW | 5.20 | |
| | Heating | | 5.07 | |
| Air flow rate | Cooling | m³/h | 4,650 | |
| | Heating | | 4,800 | |
| Sound pressure level | Cooling | dB(A) | 56 | |
| | Heating | | 58 | |
| Heat exchanger fin | | | Plate fin coil | |
| Net Dimensions H x W x D | | mm | 914 x 970 x 370 | |
| Weight | | kg(lbs) | 98 (217) | |
| Piping Connections (Small / Large) | | | 9.52/15.88 | |
| Max Pipe Length | | | 115 (Total) | |
| Max Height Difference (O.U ~ I.U) | | | 30 | |
| Operating range | Cooling | °CDB | -5 to 46 | |
| | Heating | | -15 to 24 | |
| Refrigerant | | | R410A | |
| Model name | | | UTP-PY03A | |
| Connectable indoor unit | | | 1 to 3 Units | |
| Power source | V/Ø/Hz | | 230/1/50 | |
| Available voltage range | | | 198-264V | |
| Power consumption | W | | 10 | |
| Running current | A | | 0.05 | |
| Dimensions (HxWxD) | mm | | 195x433x370 | |
| Weight | kg | | 9 | |
| Connection pipe | Size | Liquid | Main: 9.52x1, Branch: 6.35x3 | |
| | | Gas | Main: 15.88x1, Branch: 12.7x3 | |
| Method | | | Flare | |
| Model name | | | UTP-PY02A | |
| Connectable indoor unit | | | 1 to 2 Units | |
| Power source | V/Ø/Hz | | 230/1/50 | |
| Available voltage range | | | 198-264V | |
| Power consumption | W | | 10 | |
| Running current | A | | 0.05 | |
| Dimensions (HxWxD) | mm | | 195x433x370 | |
| Weight | kg | | 9 | |
| Connection pipe | Size | Liquid | Main: 9.52x1, Branch: 6.35x2 | |
| | | Gas | Main: 15.88x1, Branch: 12.7x2 | |
| Method | | | Flare | |

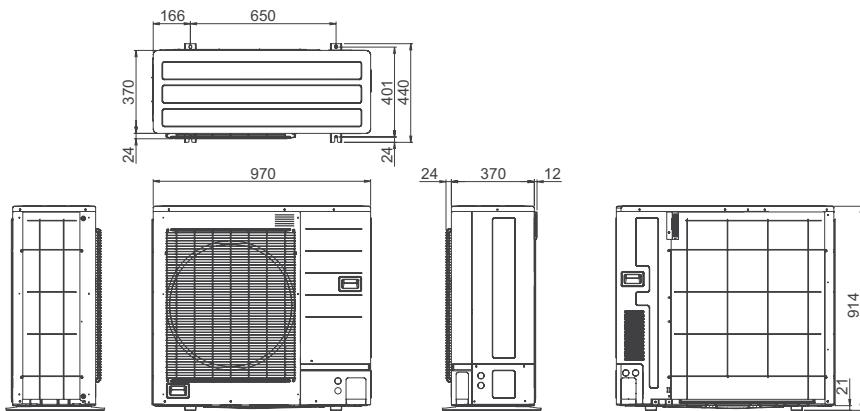
Note: Specifications are based on the following conditions.

Power source of specifications: 230V.

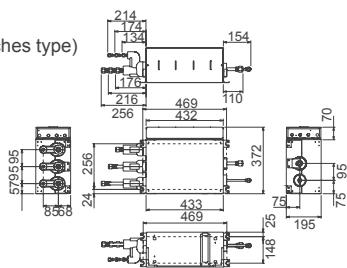
Dimensions

(Unit : mm)

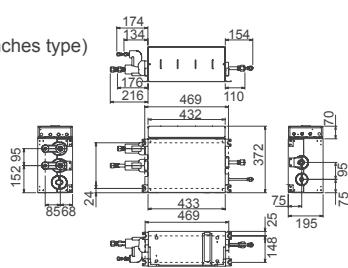
Outdoor Unit : AOYG45LBT8



Branch Box :
UTP-PY03A (3 branches type)



Branch Box :
UTP-PY02A (2 branches type)



Specifications of All 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 | V/Ø/Hz | | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | |
| Sound Pressure Level | Cooling Heating | H/M/L/Q | dB(A) | 35/30/28/21 35/30/28/21 | 36/32/28/21 36/32/28/21 | 37/34/31/21 37/34/31/21 | 41/36/33/25 41/36/34/27 |
| Sound Power Level | Cooling Heating | H | dB(A) | 53 53 | 54 54 | 55 55 | 59 59 |
| Air Flow | Cooling Heating | H/M/L/Q | m³/h | 570/520/470/330 570/520/470/330 | 600/550/470/330 600/550/470/330 | 660/600/530/330 660/600/530/330 | 710/640/570/390 710/640/590/430 |
| Net Dimension | | mm | | 282x870x185 | 282x870x185 | 282x870x185 | 282x870x185 |
| Weight | | kg(lbs) | | 9.5 (21) | 9.5 (21) | 9.5 (21) | 9.5 (21) |
| Pipe Size | Liquid/Gas | mm | | Ø6.35/Ø9.52 | Ø6.35/Ø9.52 | Ø6.35/Ø9.52 | Ø6.35/Ø12.7 |

Wall mounted



| Model No. | Indoor unit | | ASYG07LMCA | ASYG09LMCA | ASYG12LMCA | ASYG14LMCA | ASYG18LFCA | ASYG24LFCC | |
|----------------------|--------------------|---------|------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------------------------------|
| kW Class | | kW | 2.0 | 2.5 | 3.5 | 4.0 | 5.0 | 7.0 | |
| Power Source | | V/Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | |
| Sound Pressure Level | Cooling Heating | H/M/L/Q | dB(A) | 36/32/29/21 36/32/29/22 | 37/33/29/21 37/33/29/22 | 40/36/30/21 40/36/31/22 | 42/38/33/25 42/38/35/27 | 43/37/33/26 42/37/33/25 | 49/42/37/33 48/42/37/33 |
| Sound Power Level | Cooling Heating | H | dB(A) | 51 51 | 52 52 | 54 55 | 56 57 | 58 58 | 64 64 |
| Air Flow | Cooling Heating | H/M/L/Q | m³/h | 560/500/430/310 560/500/430/330 | 600/520/430/310 600/520/430/330 | 660/560/450/310 660/560/470/330 | 730/600/530/360 730/615/560/375 | 900/740/620/550 900/740/620/550 | 1120/900/740/620 1100/900/740/620 |
| Net Dimension | | mm | | 268x840x203 | 268x840x203 | 268x840x203 | 268x840x203 | 320x998x238 | 320x998x238 |
| Weight | | kg(lbs) | | 8.5 (19) | 8.5 (19) | 8.5 (19) | 8.5 (19) | 14 (30.8) | 14 (30.8) |
| Pipe Size | Liquid/Gas | mm | | Ø6.35/Ø9.52 | Ø6.35/Ø9.52 | Ø6.35/Ø9.52 | Ø6.35/Ø12.7 | Ø6.35/Ø12.7 | Ø6.35/Ø15.88 |

Floor



| Model No. | Indoor unit | | AGYG09LVCA | AGYG12LVCA | AGYG14LVCA | |
|----------------------|--------------------|---------|------------|------------------------------------|------------------------------------|------------------------------------|
| kW Class | | kW | 2.5 | 3.5 | 4.0 | |
| Power Source | | V/Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 | |
| Sound Pressure Level | Cooling Heating | H/M/L/Q | dB(A) | 39/34/28/22 39/35/30/22 | 42/36/30/22 42/38/32/22 | 44/38/31/22 44/39/33/22 |
| Sound Power Level | Cooling Heating | H | dB(A) | 52 52 | 55 55 | 56 56 |
| Air Flow | Cooling Heating | H/M/L/Q | m³/h | 530/440/360/270 530/460/380/270 | 600/490/380/270 600/510/410/270 | 650/520/400/270 650/540/430/270 |
| Net Dimension | | mm | | 600x740x200 | 600x740x200 | 600x740x200 |
| Weight | | kg(lbs) | | 14 (30.7) | 14 (30.7) | 14 (30.7) |
| Pipe Size | Liquid/Gas | mm | | Ø6.35/Ø9.52 | Ø6.35/Ø9.52 | Ø6.35/Ø12.7 |

Floor ceiling



| Model No. | | Indoor unit | | ABYG14LVTA | ABYG18LVTB | |
|----------------------|---------|-------------|-------|--|--|--|
| kW Class | | kW | | 4.0 | 5.0 | |
| Power Source | | V/Ø/Hz | | 230/1/50 | 230/1/50 | |
| 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 | |
| Air Flow | 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 Dimension | | mm | | 199x990x655 | 199x990x655 | |
| Weight | | kg(lbs) | | 27 (60) | 27 (60) | |
| Pipe Size | | Liquid/Gas | mm | Ø6.35/Ø12.7 | Ø6.35/Ø12.7 | |

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 | | V/Ø/Hz | | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | |
| 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 | |
| Air Flow | 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 Dimension | | mm | | 245x570x570 | 245x570x570 | 245x570x570 | 245x570x570 | 245x570x570 | |
| Weight | | kg(lbs) | | 15(33.1) | 15 (33.1) | 15 (33.1) | 15 (33.1) | 15 (33.1) | |
| Cassette Grille | | | | UTG-UFYD-W | | | | | |
| Pipe Size | | Liquid/Gas | mm | Ø6.35/Ø9.52 | Ø6.35/Ø9.52 | Ø6.35/Ø9.52 | Ø6.35/Ø12.7 | Ø6.35/Ø12.7 | |

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 | | V/Ø/Hz | | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | 230/1/50 | |
| 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 | |
| Air Flow | 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 Dimension | | mm | | 198x700x620 | 198x700x620 | 198x700x620 | 198x700x620 | 198x900x620 | |
| Weight | | kg(lbs) | | 17 (37.5) | 19 (41.8) | 19 (41.8) | 19 (41.8) | 23 (50.6) | |
| Pipe Size | | Liquid/Gas | mm | Ø6.35/Ø9.52 | Ø6.35/Ø9.52 | Ø6.35/Ø9.52 | Ø6.35/Ø12.7 | Ø6.35/Ø12.7 | |
| External static pressure | | | | 0 to 90 | | | | | |
| Drain pump | | | | Standard | | | | | |

Multi Combination Table

2 Rooms Multi cooling

| AOYG14LAC2 | Combination of Indoor Unit | COOLING OPERATION | | | | | | | |
|------------|----------------------------|-------------------|--------|--------------------------|-----------------------|------|---------------|-----|-------------------------|
| | | Cooling Capacity | | | Input Power (min-max) | EER | Seasonal Data | | |
| | | Room 1 | Room 2 | Total Capacity (min-max) | | | kW | kW | Energy efficiency class |
| 2 Room | 7 7 | 2.00 | 2.00 | 4.00 (1.4 - 4.4) | 1.09 (0.35 - 1.40) | 3.67 | 4.0 | 6.7 | A++ |
| | 7 9 | 1.95 | 2.05 | 4.00 (1.4 - 4.4) | 1.09 (0.35 - 1.40) | 3.67 | 4.0 | 6.6 | A++ |
| | 7 12 | 1.65 | 2.35 | 4.00 (1.4 - 4.6) | 1.05 (0.35 - 1.47) | 3.81 | 4.0 | 6.5 | A++ |
| | 9 9 | 2.00 | 2.00 | 4.00 (1.4 - 4.5) | 1.09 (0.35 - 1.43) | 3.67 | 4.0 | 6.6 | A++ |
| | 9 12 | 1.70 | 2.30 | 4.00 (1.4 - 4.7) | 1.05 (0.35 - 1.47) | 3.81 | 4.0 | 6.5 | A++ |

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).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected a indoor unit is up to 21000Btu from 14000Btu.

| AOYG18LAC2 | Combination of Indoor Unit | COOLING OPERATION | | | | | | | | |
|------------|----------------------------|-------------------|--------|--------------------------|-----------------------|--------------------|---------------|-----|-------------------------|-----|
| | | Cooling Capacity | | | Input Power (min-max) | EER | Seasonal Data | | | |
| | | Room 1 | Room 2 | Total Capacity (min-max) | | | kW | kW | Energy efficiency class | |
| 2 Room | 7 7 | 2.10 | 2.10 | 4.20 (1.7 - 5.2) | 1.24 (0.35 - 1.68) | 3.39 | 4.2 | 7.0 | A++ | |
| | 7 9 | 2.10 | 2.50 | 4.60 (1.7 - 5.3) | 1.26 (0.35 - 1.79) | 3.65 | 4.6 | 6.8 | A++ | |
| | 7 12 | 1.90 | 3.10 | 5.00 (1.7 - 5.6) | 1.55 (0.35 - 1.95) | 3.23 | 5.0 | 6.5 | A++ | |
| | 7 14 | 1.80 | 3.20 | 5.00 (1.8 - 5.7) | 1.55 (0.40 - 1.99) | 3.23 | 5.0 | 6.5 | A++ | |
| | 9 9 | 2.50 | 2.50 | 5.00 (1.7 - 5.6) | 1.56 (0.35 - 1.95) | 3.21 | 5.0 | 6.6 | A++ | |
| | 9 12 | 2.10 | 2.90 | 5.00 (1.7 - 5.7) | 1.55 (0.35 - 1.95) | 3.23 | 5.0 | 6.5 | A++ | |
| | 9 14 | 2.00 | 3.00 | 5.00 (1.8 - 5.8) | 1.55 (0.40 - 1.99) | 3.23 | 5.0 | 6.4 | A++ | |
| | 12 12 | 2.50 | 2.50 | 5.00 (1.7 - 5.8) | 1.56 (0.35 - 1.99) | 3.21 | 5.0 | 6.4 | A++ | |
| | 14 14 | - | - | - | - | - | - | - | - | |
| | 7 7 7 | 1.80 | 1.80 | 1.80 | 1.35 (0.50 - 2.06) | 4.00 | 5.4 | 6.9 | A++ | |
| | 7 7 9 | 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 | 5.40 (1.8 - 6.8) | 1.35 (0.50 - 2.06) | 4.00 | 5.4 | 6.7 | A++ | |
| 3 Room | 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++ |
| | 14 14 14 | - | - | - | - | - | - | - | - | |

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).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected a indoor unit is up to 24000Btu from 14000Btu.
- Where "14" means "wall mounted type" only models. Other types of indoor units can not be connected.

3 Rooms Multi cooling

| AOYG18LAT3 | Combination of Indoor Unit | COOLING OPERATION | | | | | | | | |
|------------|----------------------------|-------------------|--------|------------------|-----------------------|--------------------|---------------|-----|-------------------------|-----|
| | | Cooling Capacity | | | Input Power (min-max) | EER | Seasonal Data | | | |
| | | Room 1 | Room 2 | Room 3 | | | kW | kW | Energy efficiency class | |
| 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++ |
| | 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 | 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 | 5.40 (1.8 - 6.8) | 1.35 (0.50 - 2.06) | 4.00 | 5.4 | 6.7 | A++ | |
| 3 Room | 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++ |
| | 14 14 14 | - | - | - | - | - | - | - | - | |

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.

2 Rooms Multi heating

| AOYG14LAC2 | Combination of Indoor Unit | HEATING OPERATION | | | | | | | |
|------------|----------------------------|-------------------|--------|--------------------------|-----------------------|------|---------------|------|-------------------------|
| | | Heating Capacity | | | Input Power (min-max) | COP | Seasonal Data | | |
| | | Room 1 | Room 2 | Total Capacity (min-max) | | | Pdesign | SCOP | Energy efficiency class |
| 2 Room | 7 | 7 | 2.20 | 2.20 | 4.40 (1.1 - 5.4) | 4.27 | 3.8 | 4.1 | A+ |
| | 7 | 9 | 2.15 | 2.25 | 4.40 (1.1 - 5.4) | 4.27 | 3.8 | 4.1 | A+ |
| | 7 | 12 | 1.95 | 2.45 | 4.40 (1.1 - 5.5) | 4.31 | 3.8 | 4.0 | A+ |
| | 9 | 9 | 2.20 | 2.20 | 4.40 (1.1 - 5.4) | 4.27 | 3.8 | 4.0 | A+ |
| | 9 | 12 | 2.00 | 2.40 | 4.40 (1.1 - 5.5) | 4.31 | 3.8 | 4.0 | A+ |

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).
- Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
- The Total ability of connected a indoor unit is up to 21000Btu from 14000Btu.

| AOYG18LAC2 | Combination of Indoor Unit | HEATING OPERATION | | | | | | | |
|------------|----------------------------|-------------------|--------|--------------------------|-----------------------|------|---------------|------|-------------------------|
| | | Heating Capacity | | | Input Power (min-max) | COP | Seasonal Data | | |
| | | Room 1 | Room 2 | Total Capacity (min-max) | | | Pdesign | SCOP | Energy efficiency class |
| 2 Room | 7 | 7 | 2.70 | 2.70 | 5.40 (1.8 - 6.0) | 4.37 | 3.8 | 4.1 | A+ |
| | 7 | 9 | 2.50 | 3.00 | 5.50 (1.8 - 6.0) | 4.04 | 4.0 | 4.1 | A+ |
| | 7 | 12 | 2.30 | 3.30 | 5.60 (1.8 - 6.1) | 4.06 | 4.2 | 4.0 | A+ |
| | 7 | 14 | 2.25 | 3.35 | 5.60 (1.9 - 6.2) | 4.15 | 4.2 | 4.0 | A+ |
| | 9 | 9 | 2.80 | 2.80 | 5.60 (1.8 - 6.1) | 3.97 | 4.2 | 4.1 | A+ |
| | 9 | 12 | 2.45 | 3.15 | 5.60 (1.8 - 6.2) | 4.07 | 4.2 | 4.0 | A+ |
| | 9 | 14 | 2.35 | 3.25 | 5.60 (1.9 - 6.3) | 4.15 | 4.2 | 4.0 | A+ |
| | 12 | 12 | 2.80 | 2.80 | 5.60 (1.8 - 6.3) | 4.18 | 4.2 | 4.0 | A+ |
| | 7 | 7 | 2.70 | - | 5.40 (2.0 - 6.1) | 3.40 | 4.0 | 4.1 | A+ |
| | 7 | 9 | 2.75 | 3.25 | 6.00 (2.0 - 6.4) | 3.21 | 4.0 | 4.1 | A+ |
| | 7 | 12 | 2.59 | 3.71 | 6.30 (2.0 - 6.5) | 3.18 | 4.0 | 4.1 | A+ |
| | 7 | 14 | 2.51 | 4.29 | 6.80 (2.0 - 7.1) | 3.54 | 4.0 | 4.1 | A+ |
| 3 Room | 9 | 9 | - | 3.15 | 6.30 (2.0 - 6.5) | 3.18 | 4.0 | 4.1 | A+ |
| | 9 | 12 | - | 2.89 | 6.40 (2.0 - 6.6) | 3.22 | 4.0 | 4.1 | A+ |
| | 9 | 14 | - | 2.77 | 6.80 (2.0 - 7.2) | 3.56 | 4.0 | 4.1 | A+ |
| | 12 | 12 | - | 3.20 | 6.40 (2.0 - 6.6) | 3.23 | 4.0 | 4.1 | A+ |
| | 12 | 14 | - | 3.09 | 6.80 (2.0 - 7.3) | 3.58 | 4.0 | 4.1 | A+ |
| | 7 | 7 | 2.27 | 2.27 | 6.80 (2.0 - 7.7) | 4.20 | 5.0 | 4.3 | A+ |
| | 7 | 7 | 2.14 | 2.52 | 6.80 (2.0 - 7.8) | 4.20 | 5.0 | 4.3 | A+ |
| | 7 | 7 | 1.98 | 2.83 | 6.80 (2.0 - 7.8) | 4.28 | 5.0 | 4.3 | A+ |
| | 7 | 7 | 1.83 | 3.14 | 6.80 (2.0 - 8.0) | 4.22 | 5.0 | 4.3 | A+ |
| | 7 | 9 | 2.03 | 2.39 | 6.80 (2.0 - 7.8) | 4.25 | 5.0 | 4.3 | A+ |
| | 7 | 9 | 1.89 | 2.22 | 6.80 (2.0 - 7.9) | 4.28 | 5.0 | 4.3 | A+ |
| | 7 | 9 | 1.75 | 2.06 | 6.80 (2.0 - 8.0) | 4.25 | 5.0 | 4.3 | A+ |
| | 9 | 9 | 2.27 | 2.27 | 6.80 (2.0 - 7.9) | 4.28 | 5.0 | 4.3 | A+ |
| | 9 | 9 | 2.12 | 2.12 | 6.80 (2.0 - 7.9) | 4.28 | 5.0 | 4.3 | A+ |

3 Rooms Multi heating

| AOYG18LAT3 | Combination of Indoor Unit | HEATING OPERATION | | | | | | | |
|------------|----------------------------|-------------------|--------|--------|-----------------------|------------------|---------------|------|-------------------------|
| | | Heating Capacity | | | Input Power (min-max) | COP | Seasonal Data | | |
| | | Room 1 | Room 2 | Room 3 | | | Pdesign | SCOP | Energy efficiency class |
| 2 Room | 7 | 7 | - | 2.70 | - | 5.40 (2.0 - 6.1) | 3.40 | 4.0 | A+ |
| | 7 | 9 | - | 2.75 | 6.00 (2.0 - 6.4) | 3.21 | 4.0 | 4.1 | A+ |
| | 7 | 12 | - | 2.59 | 6.30 (2.0 - 6.5) | 3.18 | 4.0 | 4.1 | A+ |
| | 7 | 14 | - | 2.51 | 6.80 (2.0 - 7.1) | 3.54 | 4.0 | 4.1 | A+ |
| | 9 | 9 | - | 3.15 | 6.30 (2.0 - 6.5) | 3.18 | 4.0 | 4.1 | A+ |
| | 9 | 12 | - | 2.89 | 6.40 (2.0 - 6.6) | 3.22 | 4.0 | 4.1 | A+ |
| | 9 | 14 | - | 2.77 | 6.80 (2.0 - 7.2) | 3.56 | 4.0 | 4.1 | A+ |
| | 12 | 12 | - | 3.20 | 6.40 (2.0 - 6.6) | 3.23 | 4.0 | 4.1 | A+ |
| | 12 | 14 | - | 3.09 | 6.80 (2.0 - 7.3) | 3.58 | 4.0 | 4.1 | A+ |
| | 7 | 7 | 2.27 | 2.27 | 6.80 (2.0 - 7.7) | 4.20 | 5.0 | 4.3 | A+ |
| | 7 | 7 | 2.14 | 2.52 | 6.80 (2.0 - 7.8) | 4.20 | 5.0 | 4.3 | A+ |
| | 7 | 7 | 1.98 | 2.83 | 6.80 (2.0 - 7.8) | 4.28 | 5.0 | 4.3 | A+ |
| 3 Room | 7 | 7 | 14 | 1.83 | 6.80 (2.0 - 8.0) | 4.22 | 5.0 | 4.3 | A+ |
| | 7 | 9 | 9 | 2.03 | 6.80 (2.0 - 7.8) | 4.25 | 5.0 | 4.3 | A+ |
| | 7 | 9 | 12 | 1.89 | 6.80 (2.0 - 7.9) | 4.28 | 5.0 | 4.3 | A+ |
| | 7 | 9 | 14 | 1.75 | 6.80 (2.0 - 8.0) | 4.25 | 5.0 | 4.3 | A+ |
| | 9 | 9 | 9 | 2.27 | 6.80 (2.0 - 7.9) | 4.28 | 5.0 | 4.3 | A+ |
| | 9 | 9 | 12 | 2.12 | 6.80 (2.0 - 7.9) | 4.28 | 5.0 | 4.3 | A+ |
| | 7 | 7 | 18 | 2.34 | 7.00 (2.0 - 7.3) | 3.03 | 4.0 | 4.1 | A+ |
| | 7 | 7 | 20 | 2.34 | 7.90 (2.0 - 8.3) | 3.34 | 4.0 | 4.1 | A+ |
| | 7 | 7 | 22 | 2.34 | 7.90 (2.0 - 7.7) | 3.00 | 4.0 | 4.1 | A+ |
| | 7 | 7 | 24 | 2.34 | 7.90 (2.0 - 8.3) | 3.32 | 4.0 | 4.1 | A+ |
| | 7 | 7 | 26 | 2.34 | 7.90 (2.0 - 8.3) | 3.45 | 4.0 | 4.1 | A+ |
| | 7 | 7 | 28 | 2.34 | 7.90 (2.0 - 8.4) | 3.37 | 4.0 | 4.1 | 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.
- 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 a indoor unit is up to 36000Btu from 14000Btu.
- *1: When ASYG18L is connected, connect at least 1 wall mounted type for 9000Btu.

Multi Combination Table

4 Rooms Multi cooling

| AOYG30LAT4 | Combination of Indoor Unit | COOLING OPERATION | | | | | | | | | | Seasonal Data | | |
|------------|----------------------------|-------------------|--------|--------|--------|--------------------------|-----------------------|------|---------------|-----|-----|---------------|------|-------------------------|
| | | Cooling Capacity | | | | | Input Power (min-max) | EER | Seasonal Data | | | Pdesign | SEER | Energy efficiency class |
| | | Room 1 | Room 2 | Room 3 | Room 4 | Total Capacity (min-max) | | | kW | kW | kW | | | |
| 3 Room | 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 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 7 9 | 1.89 | 1.89 | 2.13 | 1.89 | 7.80 (1.6 - 9.8) | 2.22 (0.68 - 3.54) | 3.51 | 7.8 | 6.2 | A++ | | | |
| | 7 7 7 7 12 | 1.83 | 1.83 | 2.41 | 1.83 | 7.90 (1.6 - 9.9) | 2.22 (0.68 - 3.54) | 3.56 | 7.9 | 6.1 | A++ | | | |
| | 7 7 7 7 14 | 1.70 | 1.70 | 2.80 | 1.70 | 7.90 (2.8 - 9.9) | 2.22 (0.98 - 3.56) | 3.56 | 7.9 | 6.1 | A++ | | | |
| | 7 7 7 7 18 | 1.52 | 1.52 | 3.43 | 1.52 | 8.00 (2.8 - 10.1) | 2.20 (0.98 - 3.55) | 3.64 | 8.0 | 6.0 | A+ | | | |
| | 7 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 9 12 | 1.78 | 1.78 | 2.35 | 1.99 | 7.90 (2.8 - 9.9) | 2.22 (0.98 - 3.55) | 3.56 | 7.9 | 6.1 | A++ | | | |
| | 7 7 9 9 14 | 1.68 | 1.88 | 2.76 | 1.88 | 8.00 (2.8 - 10.0) | 2.22 (0.98 - 3.57) | 3.60 | 8.0 | 6.1 | A++ | | | |
| | 7 7 9 9 18 | 1.49 | 1.67 | 3.35 | 1.67 | 8.00 (3.5 - 10.1) | 2.20 (1.17 - 3.55) | 3.64 | 8.0 | 6.0 | A+ | | | |
| | 7 7 12 12 12 | 1.72 | 2.28 | 2.28 | 1.72 | 8.00 (2.8 - 10.0) | 2.22 (0.98 - 3.55) | 3.60 | 8.0 | 6.1 | A++ | | | |
| | 7 7 12 12 14 | 1.61 | 2.13 | 2.65 | 1.61 | 8.00 (2.8 - 10.0) | 2.22 (0.98 - 3.57) | 3.60 | 8.0 | 6.1 | A++ | | | |
| | 7 7 12 18 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 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 18 | 1.35 | 2.25 | 3.04 | 1.35 | 8.00 (3.5 - 10.1) | 2.22 (1.17 - 3.58) | 3.60 | 8.0 | 6.0 | A+ | | | |
| | 7 9 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 9 12 | 1.76 | 1.96 | 2.32 | 1.96 | 8.00 (2.8 - 10.0) | 2.22 (0.98 - 3.56) | 3.60 | 8.0 | 6.1 | A++ | | | |
| | 7 9 9 9 14 | 1.64 | 1.64 | 3.27 | 1.64 | 8.00 (3.5 - 10.1) | 2.22 (1.17 - 3.58) | 3.60 | 8.0 | 6.0 | A+ | | | |
| | 7 9 9 12 12 | 1.68 | 2.22 | 2.22 | 1.68 | 8.00 (2.8 - 10.0) | 2.22 (0.98 - 3.56) | 3.60 | 8.0 | 6.1 | A++ | | | |
| | 7 9 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 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 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 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 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 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 18 | 1.35 | 1.80 | 3.04 | 1.80 | 8.00 (3.5 - 10.1) | 2.22 (1.17 - 3.56) | 3.60 | 8.0 | 6.0 | A+ | | | |
| | 7 12 14 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 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 9 12 | 1.91 | 1.91 | 2.27 | 1.91 | 8.00 (3.5 - 10.0) | 2.22 (1.17 - 3.56) | 3.60 | 8.0 | 6.1 | A++ | | | |
| | 9 9 9 9 14 | 1.79 | 1.79 | 2.63 | 1.79 | 8.00 (3.5 - 10.0) | 2.22 (1.17 - 3.56) | 3.60 | 8.0 | 6.0 | A+ | | | |
| | 9 9 9 9 18 ^{*1} | 1.60 | 1.60 | 3.20 | 1.60 | 8.00 (4.7 - 10.0) | 2.22 (1.17 - 3.56) | 3.60 | 8.0 | 6.0 | A+ | | | |
| | 9 9 9 12 12 | 1.83 | 2.17 | 2.17 | 1.83 | 8.00 (3.5 - 10.0) | 2.22 (1.17 - 3.56) | 3.60 | 8.0 | 6.0 | A+ | | | |
| | 9 9 9 12 14 | 1.72 | 2.03 | 2.53 | 1.72 | 8.00 (3.5 - 10.0) | 2.22 (1.17 - 3.56) | 3.60 | 8.0 | 6.0 | A+ | | | |
| | 9 9 12 12 18 ^{*2} | 1.54 | 1.54 | 3.09 | 1.54 | 8.00 (4.7 - 10.0) | 2.22 (1.17 - 3.56) | 3.60 | 8.0 | 6.0 | A+ | | | |
| | 9 9 12 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 9 12 12 16 | 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 9 12 12 14 | 1.66 | 1.95 | 1.95 | 1.95 | 8.00 (3.5 - 10.0) | 2.22 (1.17 - 3.56) | 3.60 | 8.0 | 6.0 | A+ | | | |
| | 9 9 12 14 14 | 1.5 | | | | | | | | | | | | |

4 Rooms Multi heating

| AOYG30LAT4 | Combination of Indoor Unit | HEATING OPERATION | | | | | | | | Seasonal Data | | |
|------------|----------------------------|-------------------|--------------|--------------|-------------------|--------------------------------|-----------------------|------|---------------|---------------|----------------------------|--|
| | | 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 class | |
| 3 Room | 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 | |
| | 7 14 14 - | 2.10 | 3.60 | 3.60 | - | 9.30 (3.3 - 10.6) | 2.59 (0.87 - 3.48) | 3.59 | 5.8 | 3.8 | A | |
| | 7 14 18 - | 1.96 | 3.35 | 4.19 | - | 9.50 (3.7 - 11.5) | 2.42 (0.97 - 3.52) | 3.93 | 5.8 | 3.8 | A | |
| | 7 14 24 - | 1.78 | 3.05 | 4.77 | - | 9.60 (3.3 - 11.7) | 2.45 (0.87 - 3.56) | 3.92 | 5.8 | 3.8 | A | |
| | 7 18 18 - | 1.82 | 3.69 | 3.89 | - | 9.60 (3.7 - 12.0) | 2.40 (0.87 - 3.52) | 4.00 | 5.8 | 3.8 | A | |
| | 7 18 24 - | 1.65 | 3.53 | 4.42 | - | 9.60 (4.3 - 12.0) | 2.40 (1.12 - 3.52) | 4.00 | 5.8 | 3.8 | A | |
| | 9 9 9 - | 3.00 | 3.00 | 3.00 | - | 9.00 (3.3 - 10.0) | 2.69 (0.87 - 3.51) | 3.35 | 5.8 | 3.8 | A | |
| | 9 9 12 - | 2.80 | 2.80 | 3.39 | - | 9.00 (3.3 - 10.1) | 2.67 (0.87 - 3.48) | 3.37 | 5.8 | 3.8 | A | |
| | 9 9 14 - | 2.66 | 2.66 | 3.87 | - | 9.20 (3.3 - 10.3) | 2.63 (0.87 - 3.48) | 3.50 | 5.8 | 3.8 | A | |
| | 9 9 18 - | 2.49 | 2.49 | 4.52 | - | 9.50 (3.7 - 11.4) | 2.44 (0.97 - 3.48) | 3.89 | 5.8 | 3.8 | A | |
| | 9 9 24 - | 2.25 | 2.25 | 5.11 | - | 9.60 (3.7 - 11.7) | 2.45 (0.97 - 3.57) | 3.92 | 5.8 | 3.8 | A | |
| | 9 12 12 - | 2.65 | 3.22 | 3.22 | - | 9.10 (3.3 - 10.3) | 2.65 (0.87 - 3.52) | 3.43 | 5.8 | 3.8 | A | |
| | 9 12 14 - | 2.53 | 3.07 | 3.69 | - | 9.30 (3.3 - 10.5) | 2.61 (0.87 - 3.52) | 3.56 | 5.8 | 3.8 | A | |
| | 9 12 18 - | 2.36 | 2.86 | 4.29 | - | 9.50 (3.7 - 11.4) | 2.43 (0.97 - 3.47) | 3.91 | 5.8 | 3.8 | A | |
| | 9 12 24 - | 2.14 | 2.59 | 4.86 | - | 9.60 (3.7 - 11.8) | 2.44 (0.97 - 3.55) | 3.93 | 5.8 | 3.8 | A | |
| | 9 14 14 - | 2.38 | 3.46 | 3.46 | - | 9.30 (3.7 - 10.7) | 2.58 (0.97 - 3.46) | 3.60 | 5.8 | 3.8 | A | |
| | 9 14 18 - | 2.22 | 3.23 | 4.04 | - | 9.50 (3.7 - 11.6) | 2.41 (0.97 - 3.51) | 3.94 | 5.8 | 3.8 | A | |
| | 9 14 24 - | 2.03 | 2.95 | 4.62 | - | 9.60 (4.3 - 11.9) | 2.42 (1.12 - 3.57) | 3.97 | 5.8 | 3.8 | A | |
| | 9 18 18 - | 2.07 | 3.76 | 3.76 | - | 9.60 (4.3 - 12.0) | 2.40 (1.12 - 3.52) | 4.00 | 5.8 | 3.8 | A | |
| | 12 12 12 - | 3.07 | 3.07 | 3.07 | - | 9.20 (3.3 - 10.3) | 2.63 (0.87 - 3.49) | 3.50 | 5.8 | 3.8 | A | |
| | 12 12 14 - | 2.91 | 3.49 | 3.49 | - | 9.30 (3.3 - 10.6) | 2.59 (0.87 - 3.49) | 3.59 | 5.8 | 3.8 | A | |
| | 12 12 18 - | 2.71 | 2.71 | 4.07 | - | 9.50 (3.7 - 11.6) | 2.42 (0.97 - 3.52) | 3.93 | 5.8 | 3.8 | A | |
| | 12 12 24 - | 2.48 | 2.48 | 4.65 | - | 9.60 (3.7 - 11.8) | 2.43 (0.97 - 3.54) | 3.95 | 5.8 | 3.8 | A | |
| | 12 14 14 - | 2.76 | 3.32 | 3.32 | - | 9.40 (3.7 - 10.8) | 2.40 (0.97 - 3.50) | 3.92 | 5.8 | 3.8 | A | |
| | 12 14 18 - | 2.57 | 3.08 | 3.85 | - | 9.50 (3.7 - 11.6) | 2.40 (0.97 - 3.49) | 3.96 | 5.8 | 3.8 | A | |
| | 12 18 18 - | 2.40 | 3.60 | 3.60 | - | 9.60 (4.3 - 12.0) | 2.40 (1.12 - 3.52) | 4.00 | 5.8 | 3.8 | A | |
| | 7 7 7 7 7 | 2.35 | 2.35 | 2.35 | 2.35 | 9.40 (1.8 - 10.8) | 2.43 (0.58 - 3.47) | 3.87 | 6.2 | 4.0 | A+ | |
| | 7 7 7 9 9 | 2.27 | 2.27 | 2.27 | 2.27 | 9.50 (1.8 - 10.9) | 2.42 (0.58 - 3.51) | 3.88 | 6.2 | 4.0 | A+ | |
| | 7 7 7 12 12 | 2.14 | 2.14 | 3.06 | 9.50 (1.8 - 11.1) | 2.41 (0.58 - 3.55) | 3.94 | 6.2 | 4.0 | A+ | | |
| | 7 7 7 14 14 | 2.04 | 2.04 | 3.49 | 9.60 (3.3 - 11.3) | 2.38 (0.87 - 3.56) | 4.03 | 6.2 | 4.0 | A+ | | |
| | 7 7 7 18 18 | 1.87 | 1.87 | 4.00 | 9.60 (3.3 - 12.0) | 2.27 (0.87 - 3.56) | 4.23 | 6.2 | 4.0 | A+ | | |
| | 7 7 9 9 9 | 2.18 | 2.18 | 2.57 | 9.50 (3.3 - 10.9) | 2.41 (0.87 - 3.44) | 3.94 | 6.2 | 4.0 | A+ | | |
| | 7 7 9 9 12 | 2.06 | 2.06 | 2.43 | 9.50 (3.3 - 11.1) | 2.40 (0.87 - 3.54) | 3.96 | 6.2 | 4.0 | A+ | | |
| | 7 7 9 9 14 | 1.96 | 2.31 | 3.36 | 9.60 (3.3 - 11.4) | 2.38 (0.87 - 3.54) | 4.03 | 6.2 | 4.0 | A+ | | |
| | 7 7 9 9 18 | 1.80 | 2.13 | 3.87 | 9.60 (3.7 - 12.0) | 2.27 (0.97 - 3.55) | 4.23 | 6.2 | 4.0 | A+ | | |
| | 7 7 12 12 12 | 1.98 | 2.82 | 2.82 | 9.60 (3.7 - 11.3) | 2.39 (0.87 - 3.57) | 4.02 | 6.2 | 4.0 | A+ | | |
| | 7 7 12 12 14 | 1.87 | 2.67 | 3.20 | 9.60 (3.3 - 11.5) | 2.36 (0.87 - 3.58) | 4.07 | 6.2 | 4.0 | A+ | | |
| | 7 7 12 12 18 | 1.72 | 2.46 | 3.69 | 9.60 (3.7 - 12.0) | 2.27 (0.97 - 3.58) | 4.23 | 6.2 | 4.0 | A+ | | |
| | 7 7 14 14 14 | 1.77 | 1.77 | 3.03 | 9.60 (3.7 - 11.8) | 2.34 (0.97 - 3.58) | 4.10 | 6.2 | 4.0 | A+ | | |
| | 7 7 14 18 18 | 1.64 | 2.81 | 3.51 | 9.60 (3.7 - 12.0) | 2.27 (0.97 - 3.56) | 4.23 | 6.2 | 4.0 | A+ | | |
| | 7 9 9 9 9 | 2.09 | 2.47 | 2.47 | 9.50 (3.3 - 11.2) | 2.40 (0.87 - 3.54) | 4.00 | 6.2 | 4.0 | A+ | | |
| | 7 9 9 9 12 | 2.01 | 2.36 | 2.36 | 9.60 (3.3 - 11.3) | 2.39 (0.87 - 3.58) | 4.02 | 6.2 | 4.0 | A+ | | |
| | 7 9 9 9 14 | 1.89 | 2.23 | 2.23 | 9.60 (3.7 - 11.5) | 2.37 (0.97 - 3.58) | 4.05 | 6.2 | 4.0 | A+ | | |
| | 7 9 9 9 18 | 1.75 | 2.06 | 3.74 | 9.60 (3.7 - 12.0) | 2.27 (0.97 - 3.58) | 4.23 | 6.2 | 4.0 | A+ | | |
| | 7 9 9 12 12 | 1.91 | 2.25 | 2.72 | 9.60 (3.3 - 11.4) | 2.38 (0.87 - 3.58) | 4.03 | 6.2 | 4.0 | A+ | | |
| | 7 9 9 12 14 | 1.80 | 2.13 | 2.58 | 9.60 (3.7 - 11.6) | 2.35 (0.97 - 3.58) | 4.09 | 6.2 | 4.0 | A+ | | |
| | 7 9 9 12 18 | 1.67 | 1.97 | 2.39 | 9.60 (3.7 - 12.0) | 2.27 (0.97 - 3.58) | 4.23 | 6.2 | 4.0 | A+ | | |
| | 7 9 9 14 14 | 1.71 | 2.02 | 2.94 | 9.60 (3.7 - 11.8) | 2.33 (0.97 - 3.58) | 4.12 | 6.2 | 4.0 | A+ | | |
| | 7 9 9 14 18 | 1.59 | 1.87 | 2.73 | 9.60 (4.3 - 12.0) | 2.27 (1.12 - 3.58) | 4.23 | 6.2 | 4.0 | A+ | | |
| | 7 12 12 12 12 | 1.81 | 2.59 | 2.59 | 9.60 (3.7 - 11.5) | 2.37 (0.87 - 3.58) | 4.05 | 6.2 | 4.0 | A+ | | |
| | 7 12 12 12 14 | 1.72 | 2.46 | 2.46 | 9.60 (3.7 - 11.7) | 2.34 (0.97 - 3.58) | 4.10 | 6.2 | 4.0 | A+ | | |
| | 7 12 12 12 18 | 1.60 | 2.29 | 2.29 | 9.60 (3.7 - 12.0) | 2.27 (0.97 - 3.56) | 4.23 | 6.2 | 4.0 | A+ | | |
| | 7 12 12 14 14 | 1.64 | 2.34 | 2.81 | 9.60 (3.7 - 11.9) | 2.32 (0.97 - 3.58) | 4.14 | 6.2 | 4.0 | A+ | | |
| | 9 9 9 9 9 | 2.40 | 2.40 | 2.40 | 9.60 (3.7 - 11.3) | 2.40 (0.97 - 3.58) | 4.00 | 6.2 | 4.0 | A+ | | |
| | 9 9 9 9 12 | 2.28 | 2.28 | 2.76 | 9.60 (3.7 - 11.4) | 2.38 (0.97 - 3.58) | 4.03 | 6.2 | 4.0 | A+ | | |
| | 9 9 9 9 14 | 2.16 | 2.16 | 3.14 | 9.60 (3.7 - 11.6) | 2.36 (0.97 - 3.58) | 4.07 | 6.2 | 4.0 | A+ | | |
| | 9 9 9 9 18 ^{*1} | 1.99 | 1.99 | 3.62 | 9.60 (4.3 - 12.0) | 2.27 (1.12 - 3.58) | 4.23 | 6.2 | 4.0 | A+ | | |
| | 9 9 9 12 12 | 2.17 | 2.17 | 2.63 | 9.60 (3.7 - 11.5) | 2.37 (0.97 - 3.58) | 4.05 | 6.2 | 4.0 | A+ | | |
| | 9 9 9 12 14 | 2.06 | 2.06 | 2.49 | 9.60 (3.7 - 11.7) | 2.35 (0.97 - 3.58) | 4.09 | 6.2 | 4.0 | A+ | | |
| | 9 9 9 12 18 | 1.91 | 2.31 | 3.47 | 9.60 (4.3 - 12.0) | 2.27 (1.12 - 3.58) | 4.23 | 6.2 | 4.0 | A+ | | |
| | 9 9 9 14 14 | 1.96 | 2.84 | 2.84 | 9.60 (4.3 - 11.9) | 2.33 (1.12 - 3.58) | 4.12 | 6.2 | 4.0 | A+ | | |
| | 9 9 12 12 12 | 2.07 | 2.51 | 2.51 | 9.60 (3.7 - 11.6) | 2.36 (0.97 - 3.58) | 4.07 | 6.2 | 4.0 | A+ | | |
| | 9 9 12 12 14 | 1.97 | 2.39 | 2.39 | 9.60 (3.7 - 11.8) | 2.34 (0.97 - 3.58) | 4.10 | 6.2 | 4.0 | A+ | | |
| | 9 9 12 12 18 | 1.87 | 2.27 | 2.73 | 9.60 (4.3 - 11.6) | 2.31 (1.12 - 3.58) | 4.16 | 6.2 | 4.0 | A+ | | |
| | 12 12 12 12 12 | 2.40 | 2.40 | 2.40 | 9.60 (3.7 - 11.6) | 2.35 (0.97 - 3.58) | 4.09 | 6.2 | 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.

•3 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 a 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.

Multi Combination Table

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 | | | |
| 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 | 6.59 | - | - | - | 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 ^{±1} 14 ^{±1} 14 ^{±1} - - - - | - | - | - | - | 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 ^{±1} 14 ^{±1} 14 ^{±1} - - - - | - | - | - | - | 3.52 | 4.10 | 4.10 | - | - | - | 11.72 | 3.91 | |
| | 12 12 24 - - - - - | - | - | - | - | 3.52 | 3.52 | 7.03 | - | - | - | 14.07 | 5.20 | |
| 3 Room | 12 12 18 - - - - - | - | - | - | - | 3.52 | 3.52 | 5.27 | - | - | - | 12.31 | 4.24 | |
| | 9 24 24 - - - - - | - | - | - | - | 2.46 | 6.54 | 6.54 | - | - | - | 15.54 | 5.90 | |
| | 9 18 24 - - - - - | - | - | - | - | 2.64 | 5.27 | 7.03 | - | - | - | 14.94 | 5.65 | |
| | 9 18 18 - - - - - | - | - | - | - | 2.64 | 5.27 | 5.27 | - | - | - | 13.18 | 4.73 | |
| | 9 14 24 - - - - - | - | - | - | - | 2.64 | 4.10 | 7.03 | - | - | - | 13.77 | 5.05 | |
| | 9 14 18 - - - - - | - | - | - | - | 2.64 | 4.10 | 5.27 | - | - | - | 12.01 | 4.08 | |
| | 9 12 24 - - - - - | - | - | - | - | 2.64 | 3.52 | 7.03 | - | - | - | 13.19 | 4.73 | |
| | 9 12 18 - - - - - | - | - | - | - | 2.64 | 3.52 | 5.27 | - | - | - | 11.43 | 3.74 | |
| | 9 9 24 - - - - - | - | - | - | - | 2.64 | 2.64 | 7.03 | - | - | - | 12.31 | 4.24 | |
| | 7 24 24 - - - - - | - | - | - | - | 1.93 | 6.64 | 6.64 | - | - | - | 15.21 | 5.90 | |
| | 7 18 24 - - - - - | - | - | - | - | 2.05 | 5.27 | 7.03 | - | - | - | 14.35 | 5.35 | |
| | 7 18 18 - - - - - | - | - | - | - | 2.05 | 5.27 | 5.27 | - | - | - | 12.59 | 4.41 | |
| | 7 14 24 - - - - - | - | - | - | - | 2.05 | 4.10 | 7.03 | - | - | - | 13.18 | 4.73 | |
| | 7 14 18 - - - - - | - | - | - | - | 2.05 | 4.10 | 5.27 | - | - | - | 11.42 | 3.74 | |
| | 7 12 24 - - - - - | - | - | - | - | 2.05 | 3.52 | 7.03 | - | - | - | 12.60 | 4.41 | |
| | 7 9 24 - - - - - | - | - | - | - | 2.05 | 2.64 | 7.03 | - | - | - | 11.72 | 3.91 | |
| | 14 14 14 18 - - - | - | - | - | - | 3.60 | 3.60 | 4.63 | - | - | - | 15.45 | 5.89 | |
| | 14 14 14 14 - - - | - | - | - | - | 3.84 | 3.84 | 3.84 | - | - | - | 15.37 | 5.90 | |
| | 12 14 18 18 - - - | - | - | - | - | 3.04 | 3.54 | 4.55 | - | - | - | 15.68 | 5.87 | |
| | 12 14 14 18 - - - | - | - | - | - | 3.15 | 3.67 | 4.72 | - | - | - | 15.21 | 5.90 | |
| | 12 14 14 14 - - - | - | - | - | - | 3.35 | 3.90 | 3.90 | - | - | - | 15.04 | 5.90 | |
| | 12 12 18 18 - - - | - | - | - | - | 3.09 | 3.09 | 4.63 | - | - | - | 15.45 | 5.89 | |
| | 12 12 14 24 - - - | - | - | - | - | 3.04 | 3.04 | 3.54 | - | - | - | 15.69 | 5.87 | |
| | 12 12 14 18 - - - | - | - | - | - | 3.30 | 3.30 | 3.84 | - | - | - | 15.38 | 5.90 | |
| | 12 12 14 14 - - - | - | - | - | - | 3.52 | 3.52 | 4.10 | - | - | - | 15.24 | 5.79 | |
| | 12 12 12 24 - - - | - | - | - | - | 3.09 | 3.09 | 6.18 | - | - | - | 15.45 | 5.89 | |
| | 12 12 12 18 - - - | - | - | - | - | 3.35 | 3.35 | 5.01 | - | - | - | 15.05 | 5.90 | |
| | 12 12 12 14 - - - | - | - | - | - | 3.52 | 3.52 | 4.10 | - | - | - | 14.66 | 5.50 | |
| | 12 12 12 12 - - - | - | - | - | - | 3.52 | 3.52 | 3.52 | - | - | - | 14.08 | 5.20 | |
| | 9 14 18 18 - - - | - | - | - | - | 2.34 | 3.64 | 4.67 | - | - | - | 15.33 | 5.89 | |
| | 9 14 14 24 - - - | - | - | - | - | 2.30 | 3.57 | 3.57 | - | - | - | 15.57 | 5.88 | |
| | 9 14 14 18 - - - | - | - | - | - | 2.49 | 3.87 | 3.87 | - | - | - | 15.21 | 5.90 | |
| | 9 14 14 14 - - - | - | - | - | - | 2.64 | 4.10 | 4.10 | - | - | - | 14.94 | 5.65 | |
| | 9 12 18 18 - - - | - | - | - | - | 2.46 | 3.28 | 4.90 | - | - | - | 15.54 | 5.90 | |
| | 9 12 14 24 - - - | - | - | - | - | 2.34 | 3.12 | 6.23 | - | - | - | 15.33 | 5.89 | |
| | 9 12 14 18 - - - | - | - | - | - | 2.53 | 3.37 | 3.93 | - | - | - | 14.87 | 5.90 | |
| | 9 12 14 14 - - - | - | - | - | - | 2.64 | 3.52 | 4.10 | - | - | - | 14.36 | 5.35 | |
| | 9 12 12 24 - - - | - | - | - | - | 2.46 | 3.28 | 3.28 | - | - | - | 15.55 | 5.90 | |
| | 9 12 12 18 - - - | - | - | - | - | 2.64 | 3.52 | 3.52 | - | - | - | 14.95 | 5.65 | |
| | 9 12 12 14 - - - | - | - | - | - | 2.64 | 3.52 | 4.10 | - | - | - | 13.78 | 5.05 | |
| | 9 12 12 12 - - - | - | - | - | - | 2.64 | 3.52 | 3.52 | - | - | - | 13.20 | 4.73 | |
| | 9 9 18 24 - - - | - | - | - | - | 2.32 | 2.32 | 4.63 | - | - | - | 15.45 | 5.89 | |
| | 9 9 18 18 - - - | - | - | - | - | 2.51 | 2.51 | 5.01 | - | - | - | 15.04 | 5.90 | |
| | 9 9 14 24 - - - | - | - | - | - | 2.47 | 2.47 | 3.84 | - | - | - | 15.38 | 5.90 | |
| | 9 9 14 18 - - - | - | - | - | - | 2.64 | 2.64 | 4.10 | - | - | - | 14.65 | 5.50 | |
| | 9 9 14 14 - - - | - | - | - | - | 2.64 | 2.64 | 4.10 | - | - | - | 13.48 | 4.89 | |
| | 9 9 12 24 - - - | - | - | - | - | 2.51 | 2.51 | 3.35 | - | - | - | 15.05 | 5.90 | |
| | 9 9 12 18 - - - | - | - | - | - | 2.64 | 2.64 | 3.52 | - | - | - | 14.07 | 5.20 | |
| | 9 9 12 14 - - - | - | - | - | - | 2.64 | 2.64 | 3.52 | - | - | - | 12.90 | 4.57 | |
| | 9 9 12 12 - - - | - | - | - | - | 2.64 | 2.64 | 3.52 | - | - | - | 12.32 | 4.24 | |
| | 9 9 9 24 - - - | - | - | - | - | 2.64 | 2.64 | 7.03 | - | - | - | 14.95 | 5.65 | |
| | 9 9 9 18 - - - | - | - | - | - | 2.64 | 2.64 | 5.27 | - | - | - | 13.19 | 4.73 | |
| | 9 9 9 14 - - - | - | - | - | - | 2.64 | 2.64 | 4.10 | - | - | - | 12.02 | 4.08 | |
| | 9 9 9 12 - - - | - | - | - | - | 2.64 | 2.64 | 3.52 | - | - | - | 11.44 | 3.74 | |
| | 7 18 18 18 - - - | - | - | - | - | 1.79 | 4.59 | 4.59 | - | - | - | 15.56 | 5.88 | |
| | 7 14 18 18 - - - | - | - | - | - | 1.91 | 3.82 | 4.91 | - | - | - | 15.54 | 5.90 | |
| | 7 14 14 24 - - - | - | - | - | - | 1.82 | 3.64 | 3.64 | - | - | - | 15.33 | 5.89 | |
| | 7 14 14 18 - - - | - | - | - | - | 1.96 | 3.93 | 3.93 | - | - | - | 14.87 | 5.90 | |
| | 7 14 14 14 - - - | - | - | - | - | 2.05 | 4.10 | 4.10 | - | - | - | 14.35 | 5.35 | |
| | 7 12 18 24 - - - | - | - | - | - | 1.79 | 3.07 | 4.59 | - | - | - | 15.57 | 5.88 | |
| | 7 12 18 18 - - - | - | - | - | - | 1.93 | 3.32 | 6.12 | - | - | - | 15.21 | 5.90 | |
| | 7 12 14 24 - - - | - | - | - | - | 2.05 | 3.52 | 3.52 | - | - | - | 15.54 | 5.90 | |
| | 7 12 14 18 - - - | - | - | - | - | 2.05 | 3.52 | 4.10 | - | - | - | 15.33 | 5.89 | |
| | 7 12 14 14 - - - | - | - | - | - | 2.05 | 3.52 | 3.52 | - | - | - | 14.36 | 5.35 | |
| | 7 9 18 24 - - - | - | - | - | - | 1.84 | 2.36 | 4.72 | - | - | - | 15.21 | 5.90 | |
| | 7 9 18 18 - - - | - | - | - | - | 2.05 | 2.64 | 5.27 | - | - | - | 15.23 | 5.79 | |
| | 7 9 14 24 - - - | - | - | - | - | 1.95 | 2.51 | 3.90 | - | - | - | 15.04 | 5.90 | |
| | 7 9 14 18 - - - | - | - | - | - | 2.05 | 2.64 | 4.10 | - | - | - | 14.06 | 5.20 | |
| | 7 9 12 24 - - - | - | - | - | - | 2.05 | 2.64 | 3.52 | - | - | - | 15.24 | 5.79 | |
| | 7 9 12 18 - - - | - | - | - | - | 2.05 | 2.64 | 3.52 | - | - | - | 13.48 | 4.89 | |
| | 7 9 12 14 - - - | - | - | - | - | 2.05 | 2.64 | 3.52 | - | - | - | 12.31 | 4.24 | |
| | 7 9 12 12 - - - | - | - | - | - | 2.05 | 2.64 | 3.52 | - | - | - | 11.73 | 3.91 | |
| | 7 9 9 24 - - - | - | - | - | - | 2.05 | 2.64 | 7.03 | - | - | - | 14.36 | 5.35 | |
| | 7 9 9 18 - - - | - | - | - | - | 2.05 | 2.64 | 5.27 | - | - | - | 12.60 | 4.41 | |
| | 7 9 9 14 - - - | - | - | - | - | 2.05 | 2.64 | 4.10 | - | - | - | 11.43 | 3.74 | |
| | 7 7 24 24 - - - | - | - | - | - | 1.77 | 1.77 | 6.07 | - | - | - | 15.68 | 5.87 | |
| | 7 7 18 24 - - - | - | - | - | - | 1.92 | 1.92 | | | | | | | |

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 | | |
| 4 Room | 7 7 14 18 - - - - | 2.05 | 2.05 | 4.10 | 5.27 | - | - | - | - | 13.47 | 4.89 | | |
| | 7 7 14 14 - - - - | 2.05 | 2.05 | 4.10 | 4.10 | - | - | - | - | 12.30 | 4.24 | | |
| | 7 7 12 24 - - - - | 2.05 | 2.05 | 3.52 | 7.03 | - | - | - | - | 14.65 | 5.50 | | |
| | 7 7 12 18 - - - - | 2.05 | 2.05 | 3.52 | 5.27 | - | - | - | - | 12.89 | 4.57 | | |
| | 7 7 12 14 - - - - | 2.05 | 2.05 | 3.52 | 4.10 | - | - | - | - | 11.72 | 3.91 | | |
| | 7 7 9 24 - - - - | 2.05 | 2.05 | 2.64 | 7.03 | - | - | - | - | 13.77 | 5.05 | | |
| | 7 7 9 18 - - - - | 2.05 | 2.05 | 2.64 | 5.27 | - | - | - | - | 12.01 | 4.08 | | |
| | 7 7 7 24 - - - - | 2.05 | 2.05 | 2.05 | 7.03 | - | - | - | - | 13.18 | 4.73 | | |
| | 7 7 7 18 - - - - | 2.05 | 2.05 | 2.05 | 5.27 | - | - | - | - | 11.42 | 3.74 | | |
| | 12 12 12 12 14 - - | 3.04 | 3.04 | 3.04 | 3.04 | 3.54 | - | - | - | 15.69 | 5.87 | | |
| | 12 12 12 12 12 - - | 3.09 | 3.09 | 3.09 | 3.09 | - | - | - | - | 15.46 | 5.89 | | |
| | 9 12 12 14 14 - - | 2.30 | 3.07 | 3.07 | 3.57 | 3.57 | - | - | - | 15.57 | 5.88 | | |
| | 9 12 12 12 14 - - | 2.34 | 3.12 | 3.12 | 3.63 | - | - | - | - | 15.34 | 5.89 | | |
| | 9 12 12 12 12 - - | 2.46 | 3.27 | 3.27 | 3.27 | - | - | - | - | 15.55 | 5.90 | | |
| | 9 9 14 14 14 - - | 2.32 | 2.32 | 3.60 | 3.60 | - | - | - | - | 15.45 | 5.89 | | |
| | 9 9 12 14 18 - - | 2.28 | 2.28 | 3.04 | 3.54 | 4.55 | - | - | - | 15.69 | 5.87 | | |
| | 9 9 12 14 14 - - | 2.36 | 2.36 | 3.15 | 3.67 | 3.67 | - | - | - | 15.21 | 5.90 | | |
| | 9 9 12 12 18 - - | 2.32 | 2.32 | 3.09 | 3.09 | 4.63 | - | - | - | 15.45 | 5.89 | | |
| | 9 9 12 12 14 - - | 2.47 | 2.47 | 3.30 | 3.30 | 3.84 | - | - | - | 15.38 | 5.90 | | |
| | 9 9 12 12 12 - - | 2.51 | 2.51 | 3.34 | 3.34 | 3.34 | - | - | - | 15.05 | 5.90 | | |
| | 9 9 9 14 18 - - | 2.34 | 2.34 | 2.34 | 3.64 | 4.67 | - | - | - | 15.33 | 5.89 | | |
| | 9 9 9 14 14 - - | 2.49 | 2.49 | 2.49 | 3.87 | 3.87 | - | - | - | 15.21 | 5.90 | | |
| | 9 9 9 12 18 - - | 2.46 | 2.46 | 2.46 | 3.28 | 4.90 | - | - | - | 15.55 | 5.90 | | |
| | 9 9 9 12 14 - - | 2.53 | 2.53 | 3.37 | 3.93 | - | - | - | - | 14.88 | 5.90 | | |
| | 9 9 9 12 12 - - | 2.64 | 2.64 | 2.64 | 3.52 | 3.52 | - | - | - | 14.96 | 5.65 | | |
| | 9 9 9 9 24 - - | 2.32 | 2.32 | 2.32 | 6.18 | - | - | - | - | 15.45 | 5.89 | | |
| | 9 9 9 9 18 - - | 2.51 | 2.51 | 2.51 | 5.01 | - | - | - | - | 15.05 | 5.90 | | |
| | 9 9 9 9 14 - - | 2.64 | 2.64 | 2.64 | 4.10 | - | - | - | - | 14.66 | 5.50 | | |
| | 9 9 9 9 12 - - | 2.64 | 2.64 | 2.64 | 3.52 | - | - | - | - | 14.08 | 5.20 | | |
| | 9 9 9 9 9 - - | 2.64 | 2.64 | 2.64 | 2.64 | 2.64 | - | - | - | 13.20 | 4.73 | | |
| | 7 12 14 14 14 - - | 1.79 | 3.07 | 3.57 | 3.57 | 3.57 | - | - | - | 15.57 | 5.88 | | |
| | 7 12 12 14 14 - - | 1.82 | 3.12 | 3.12 | 3.64 | 3.64 | - | - | - | 15.33 | 5.89 | | |
| | 7 12 12 12 18 - - | 1.79 | 3.07 | 3.07 | 4.59 | - | - | - | - | 15.57 | 5.88 | | |
| | 7 12 12 12 14 - - | 1.91 | 3.28 | 3.28 | 3.82 | - | - | - | - | 15.55 | 5.90 | | |
| | 7 12 12 12 12 - - | 1.93 | 3.32 | 3.32 | 3.32 | - | - | - | - | 15.22 | 5.90 | | |
| | 7 9 14 14 18 - - | 1.77 | 2.28 | 3.54 | 3.54 | 4.55 | - | - | - | 15.68 | 5.87 | | |
| | 7 9 14 14 14 - - | 1.84 | 2.36 | 3.67 | 3.67 | - | - | - | - | 15.21 | 5.90 | | |
| | 7 9 12 14 18 - - | 1.80 | 2.32 | 3.09 | 3.60 | 4.63 | - | - | - | 15.45 | 5.89 | | |
| | 7 9 12 12 14 - - | 1.92 | 2.47 | 3.30 | 3.84 | - | - | - | - | 15.38 | 5.90 | | |
| | 7 9 12 12 18 - - | 1.83 | 2.36 | 3.15 | 4.72 | - | - | - | - | 15.21 | 5.90 | | |
| | 7 9 12 12 14 - - | 1.95 | 2.51 | 3.35 | 3.90 | - | - | - | - | 15.05 | 5.90 | | |
| | 7 9 9 12 12 - - | 2.05 | 2.64 | 3.52 | 3.52 | - | - | - | - | 15.25 | 5.79 | | |
| | 7 9 9 18 18 - - | 1.79 | 2.30 | 2.30 | 4.59 | 4.59 | - | - | - | 15.57 | 5.88 | | |
| | 7 9 9 14 18 - - | 1.91 | 2.46 | 2.46 | 4.90 | - | - | - | - | 15.54 | 5.90 | | |
| | 7 9 9 14 14 - - | 1.96 | 2.53 | 2.53 | 3.93 | 3.93 | - | - | - | 14.87 | 5.90 | | |
| | 7 9 9 12 24 - - | 1.79 | 2.30 | 2.30 | 6.12 | - | - | - | - | 15.57 | 5.88 | | |
| | 7 9 9 12 18 - - | 1.93 | 2.49 | 2.49 | 3.32 | 4.97 | - | - | - | 15.21 | 5.90 | | |
| | 7 9 9 12 14 - - | 2.05 | 2.64 | 3.52 | 4.10 | - | - | - | - | 14.95 | 5.65 | | |
| | 7 9 9 12 12 - - | 2.05 | 2.64 | 3.52 | 3.52 | - | - | - | - | 14.37 | 5.35 | | |
| | 7 9 9 9 24 - - | 1.83 | 2.36 | 2.36 | 2.36 | 6.29 | - | - | - | 15.21 | 5.90 | | |
| | 7 9 9 9 18 - - | 2.05 | 2.64 | 2.64 | 2.64 | 5.27 | - | - | - | 15.24 | 5.79 | | |
| | 7 9 9 9 14 - - | 2.05 | 2.64 | 2.64 | 4.10 | - | - | - | - | 14.07 | 5.20 | | |
| | 7 9 9 9 12 - - | 2.05 | 2.64 | 2.64 | 3.52 | - | - | - | - | 13.49 | 4.89 | | |
| | 7 9 9 9 9 - - | 2.05 | 2.64 | 2.64 | 2.64 | - | - | - | - | 12.61 | 4.41 | | |
| 5 Room | 7 7 14 14 18 - - | 1.80 | 1.80 | 3.60 | 3.60 | 4.63 | - | - | - | 15.45 | 5.89 | | |
| | 7 7 14 14 14 - - | 1.92 | 1.92 | 3.84 | 3.84 | 3.84 | - | - | - | 15.37 | 5.90 | | |
| | 7 7 12 18 18 - - | 1.77 | 1.77 | 3.04 | 4.55 | 4.55 | - | - | - | 15.68 | 5.87 | | |
| | 7 7 12 14 18 - - | 1.84 | 1.84 | 3.15 | 3.67 | 4.72 | - | - | - | 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 | 3.04 | 6.07 | - | - | - | 15.69 | 5.87 | | |
| | 7 7 12 12 14 - - | 2.05 | 2.05 | 3.52 | 3.52 | 4.10 | - | - | - | 15.24 | 5.79 | | |
| | 7 7 12 12 12 - - | 2.05 | 2.05 | 3.52 | 3.52 | - | - | - | - | 14.66 | 5.50 | | |
| | 7 7 9 18 18 - - | 1.82 | 1.82 | 2.34 | 4.67 | 4.67 | - | - | - | 15.33 | 5.89 | | |
| | 7 7 9 14 24 - - | 1.79 | 1.79 | 2.30 | 3.57 | 6.12 | - | - | - | 15.57 | 5.88 | | |
| | 7 7 9 14 18 - - | 1.93 | 1.93 | 2.49 | 3.87 | 4.97 | - | - | - | 15.21 | 5.90 | | |
| | 7 7 9 14 14 - - | 2.05 | 2.05 | 2.05 | 4.10 | 4.10 | - | - | - | 14.94 | 5.65 | | |
| | 7 7 9 12 24 - - | 1.82 | 1.82 | 2.34 | 3.12 | 6.23 | - | - | - | 15.33 | 5.89 | | |
| | 7 7 9 12 18 - - | 1.96 | 1.96 | 2.53 | 3.37 | 5.05 | - | - | - | 14.87 | 5.90 | | |
| | 7 7 9 12 14 - - | 2.05 | 2.05 | 2.64 | 3.52 | 4.10 | - | - | - | 14.36 | 5.35 | | |
| | 7 7 9 12 12 - - | 2.05 | 2.05 | 2.64 | 3.52 | 3.52 | - | - | - | 13.78 | 5.05 | | |
| | 7 7 9 9 24 - - | 1.92 | 1.92 | 2.47 | 2.47 | 6.59 | - | - | - | 15.38 | 5.90 | | |
| | 7 7 9 9 18 - - | 2.05 | 2.05 | 2.64 | 2.64 | 5.27 | - | - | - | 14.65 | 5.50 | | |
| | 7 7 9 9 14 - - | 2.05 | 2.05 | 2.05 | 2.64 | 4.10 | - | - | - | 13.48 | 4.89 | | |
| | 7 7 9 9 12 - - | 2.05 | 2.05 | 2.64 | 2.64 | 3.52 | - | - | - | 12.90 | 4.57 | | |
| | 7 7 9 9 9 - - | 2.05 | 2.05 | 2.64 | 2.64 | 2.64 | - | - | - | 12.02 | 4.08 | | |
| | 7 7 7 18 18 - - | 1.91 | 1.91 | 1.91 | 4.91 | 4.91 | - | - | - | 15.54 | 5.90 | | |
| | 7 7 7 14 24 - - | 1.82 | 1.82 | 1.82 | 3.64 | 6.24 | - | - | - | 15.33 | 5.89 | | |
| | 7 7 7 14 18 - - | 1.96 | 1.96 | 1.96 | 3.93 | 5.05 | - | - | - | 14.87 | 5.90 | | |
| | 7 7 7 14 14 - - | 2.05 | 2.05 | 2.05 | 4.10 | 4.10 | - | - | - | 14.35 | 5.35 | | |
| | 7 7 7 12 24 - - | 1.91 | 1.91 | 1.91 | 3.28 | 6.54 | - | - | - | 15.54 | 5.90 | | |
| | 7 7 7 12 18 - - | 2.05 | 2.05 | 2.05 | 3.52 | 5.27 | - | - | - | 14.94 | 5.65 | | |
| | 7 7 7 12 14 - - | 2.05 | 2.05 | 2.05 | 3.52 | 4.10 | - | - | - | 13.77 | 5.05 | | |
| | 7 7 7 12 12 - - | 2.05 | 2.05 | 2.05 | 3.52 | 3.52 | - | - | - | 13.19 | 4.73 | | |
| | 7 7 7 9 24 - - | 1.95 | 1.95 | 1.95 | 2.51 | 6.68 | - | - | - | 15.04 | 5.90 | | |
| | 7 7 7 9 18 - - | 2.05 | 2.05 | 2.05 | 2.64 | 5.27 | - | - | - | 14.06 | 5.20 | | |
| | 7 7 7 9 14 - - | 2.05 | 2.05 | 2.05 | 2.64 | 4.10 | - | - | - | 12.89 | 4.57 | | |
| | 7 7 7 9 12 - - | 2.05 | 2.05 | 2.05 | 2.64 | 3.52 | - | - | - | 12.31 | 4.24 | | |
| | 7 7 7 9 9 - - | 2.05 | 2.05 | 2.05 | 2.64 | 2.64 | - | - | - | 11.43 | 3.74 | | |
| | 7 7 7 7 24 - - | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 7.03 | - | - | - | 15.23 | 5.79 | |
| | 7 7 7 7 18 - - | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 5.27 | - | - | - | 13.47 | 4.89 | |
| | 7 7 7 7 14 - - | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 4.10 | - | - | - | 12.30 | 4.24 | |
| | 7 7 7 7 12 - - | 2.05 | 2.05 | 2.05 | 2.05 | 2.05 | 3.52 | - | - | - | 11.72 | 3.91 | |
| | 9 9 9 9 12 14 - - | 2.28 | 2.28 | 2.28 | | | | | | | | | |

Multi Combination Table

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 | |
| 6 Room | 7 | 9 | 9 | 9 | 9 | 18 | - | - | 1.79 | 2.30 | 2.30 | 2.30 | 4.59 | - | - | 15.57 | 5.88 |
| | 7 | 9 | 9 | 9 | 9 | 12 | - | - | 1.93 | 2.49 | 2.49 | 2.49 | 3.32 | - | - | 15.22 | 5.90 |
| | 7 | 9 | 9 | 9 | 9 | 9 | - | - | 2.05 | 2.64 | 2.64 | 2.64 | 2.64 | - | - | 15.25 | 5.79 |
| | 7 | 7 | 12 | 12 | 12 | 12 | - | - | 1.77 | 1.77 | 3.04 | 3.04 | 3.04 | - | - | 15.69 | 5.87 |
| | 7 | 7 | 9 | 12 | 12 | 14 | - | - | 1.79 | 1.79 | 2.30 | 3.07 | 3.07 | 3.57 | - | 15.57 | 5.88 |
| | 7 | 7 | 9 | 12 | 12 | 12 | - | - | 1.82 | 1.82 | 2.34 | 3.12 | 3.12 | 3.12 | - | 15.34 | 5.89 |
| 7 Room | 7 | 7 | 9 | 9 | 14 | 14 | - | - | 1.80 | 1.80 | 2.32 | 2.32 | 3.60 | - | - | 15.45 | 5.89 |
| | 7 | 7 | 9 | 9 | 12 | 18 | - | - | 1.77 | 1.77 | 2.28 | 2.28 | 3.04 | 4.55 | - | 15.69 | 5.87 |
| | 7 | 7 | 9 | 9 | 12 | 14 | - | - | 1.83 | 1.83 | 2.36 | 2.36 | 3.15 | 3.67 | - | 15.21 | 5.90 |
| | 7 | 7 | 9 | 9 | 12 | 12 | - | - | 1.92 | 1.92 | 2.47 | 2.47 | 3.30 | 3.30 | - | 15.38 | 5.90 |
| | 7 | 7 | 9 | 9 | 18 | - | - | - | 1.82 | 1.82 | 2.34 | 2.34 | 4.67 | - | - | 15.33 | 5.89 |
| | 7 | 7 | 9 | 9 | 9 | 14 | - | - | 1.93 | 1.93 | 2.49 | 2.49 | 2.49 | 3.87 | - | 15.21 | 5.90 |
| 8 Room | 7 | 7 | 9 | 9 | 9 | 12 | - | - | 1.96 | 1.96 | 2.53 | 2.53 | 2.53 | 3.37 | - | 14.88 | 5.90 |
| | 7 | 7 | 9 | 9 | 9 | 9 | - | - | 2.05 | 2.05 | 2.64 | 2.64 | 2.64 | - | - | 14.66 | 5.50 |
| | 7 | 7 | 7 | 12 | 14 | 14 | - | - | 1.79 | 1.79 | 1.79 | 3.07 | 3.57 | 3.57 | - | 15.57 | 5.88 |
| | 7 | 7 | 7 | 12 | 12 | 14 | - | - | 1.82 | 1.82 | 1.82 | 3.12 | 3.12 | 3.64 | - | 15.33 | 5.89 |
| | 7 | 7 | 7 | 12 | 12 | 12 | - | - | 1.91 | 1.91 | 1.91 | 3.28 | 3.28 | - | - | 15.55 | 5.90 |
| | 7 | 7 | 7 | 9 | 14 | 18 | - | - | 1.77 | 1.77 | 1.77 | 2.28 | 3.54 | 4.55 | - | 15.68 | 5.87 |

Note: •Cooling capacity is based on 27°CDB/19°CWB(indoor temperature),35°CDB(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

| AOYG45LBT8 | Combination of indoor unit | HEATING OPERATION | | | | | | | | | | Input power | |
|------------|----------------------------|-------------------|--------|--------|--------|--------|--------|--------|--------|-------|------|-------------|--|
| | | Heating Capacity | | | | | | | | | | | |
| | | Room 1 | Room 2 | Room 3 | Room 4 | Room 5 | Room 6 | Room 7 | Room 8 | Total | KW | | |
| 2 Room | 24 24 - - - - - - | 7.91 | 7.91 | - | - | - | - | - | - | 15.82 | 5.07 | | |
| | 18 24 - - - - - - | 5.86 | 7.91 | - | - | - | - | - | - | 13.77 | 4.21 | | |
| 3 Room | 18 18 24 - - - - - - | 5.32 | 5.32 | 7.18 | - | - | - | - | - | 17.82 | 5.98 | | |
| | 18 18 18 - - - - - - | 5.79 | 5.79 | 5.79 | - | - | - | - | - | 17.38 | 5.43 | | |
| | 14 24 24 - - - - - - | 4.26 | 7.02 | 7.02 | - | - | - | - | - | 18.31 | 5.98 | | |
| | 14 18 24 - - - - - - | 4.59 | 5.61 | 7.57 | - | - | - | - | - | 17.77 | 5.70 | | |
| | 14 18 18 - - - - - - | 4.78 | 5.84 | 5.84 | - | - | - | - | - | 16.46 | 5.11 | | |
| | 14 14 24 - - - - - - | 4.75 | 4.75 | 7.82 | - | - | - | - | - | 17.32 | 5.23 | | |
| | 14 14 18 - - - - - - | 4.80 | 4.80 | 5.86 | - | - | - | - | - | 15.46 | 4.75 | | |
| | 14*1 14*1 14*1 - - - - - - | 4.80 | 4.80 | 4.80 | - | - | - | - | - | 14.40 | 4.21 | | |
| | 12 24 24 - - - - - - | 3.58 | 7.15 | 7.15 | - | - | - | - | - | 17.89 | 5.98 | | |
| | 12 18 24 - - - - - - | 3.84 | 5.68 | 7.67 | - | - | - | - | - | 17.19 | 5.43 | | |
| | 12 18 18 - - - - - - | 3.96 | 5.86 | 5.86 | - | - | - | - | - | 15.68 | 5.07 | | |
| | 12 14 24 - - - - - - | 3.94 | 4.78 | 7.87 | - | - | - | - | - | 16.59 | 5.11 | | |
| | 12 14 18 - - - - - - | 3.96 | 4.80 | 5.86 | - | - | - | - | - | 14.62 | 4.46 | | |
| | 12*1 14*1 14*1 - - - - - - | 3.96 | 4.80 | 4.80 | - | - | - | - | - | 13.56 | 4.00 | | |
| | 12 12 24 - - - - - - | 3.96 | 3.96 | 7.91 | - | - | - | - | - | 15.83 | 5.07 | | |
| | 12 12 18 - - - - - - | 3.96 | 3.96 | 5.86 | - | - | - | - | - | 13.78 | 4.21 | | |
| | 9 24 24 - - - - - - | 2.85 | 7.54 | 7.54 | - | - | - | - | - | 17.93 | 5.87 | | |
| | 9 18 24 - - - - - - | 2.97 | 5.83 | 7.87 | - | - | - | - | - | 16.67 | 5.16 | | |
| | 9 18 18 - - - - - - | 2.99 | 5.86 | 5.86 | - | - | - | - | - | 14.71 | 4.60 | | |
| | 9 14 24 - - - - - - | 2.99 | 4.80 | 7.91 | - | - | - | - | - | 15.70 | 4.91 | | |
| | 9 14 18 - - - - - - | 2.99 | 4.80 | 5.86 | - | - | - | - | - | 13.65 | 4.10 | | |
| | 9 12 24 - - - - - - | 2.99 | 3.96 | 7.91 | - | - | - | - | - | 14.86 | 4.60 | | |
| | 9 12 18 - - - - - - | 2.99 | 3.96 | 5.86 | - | - | - | - | - | 12.81 | 3.90 | | |
| | 9 9 24 - - - - - - | 2.99 | 2.99 | 7.91 | - | - | - | - | - | 13.89 | 4.21 | | |
| | 7 24 24 - - - - - - | 2.28 | 7.61 | 7.61 | - | - | - | - | - | 17.51 | 5.56 | | |
| | 7 18 24 - - - - - - | 2.37 | 5.85 | 7.90 | - | - | - | - | - | 16.12 | 5.08 | | |
| | 7 18 18 - - - - - - | 2.37 | 5.86 | 5.86 | - | - | - | - | - | 14.09 | 4.33 | | |
| | 7 14 24 - - - - - - | 2.37 | 4.80 | 7.91 | - | - | - | - | - | 15.08 | 4.60 | | |
| | 7 14 18 - - - - - - | 2.37 | 4.80 | 5.86 | - | - | - | - | - | 13.03 | 3.90 | | |
| | 7 12 24 - - - - - - | 2.37 | 3.96 | 7.91 | - | - | - | - | - | 14.24 | 4.33 | | |
| | 7 9 24 - - - - - - | 2.37 | 2.99 | 7.91 | - | - | - | - | - | 13.27 | 4.00 | | |
| 4 Room | 14 14 14 18 - - - - - - | 4.30 | 4.30 | 4.30 | 5.24 | - | - | - | - | 18.13 | 5.98 | | |
| | 14 14 14 14 - - - - - - | 4.55 | 4.55 | 4.55 | 4.55 | - | - | - | - | 18.20 | 5.70 | | |
| | 12 14 18 18 - - - - - - | 3.53 | 4.28 | 5.22 | 5.22 | - | - | - | - | 18.24 | 5.98 | | |
| | 12 14 14 18 - - - - - - | 3.61 | 4.38 | 4.38 | 5.34 | - | - | - | - | 17.71 | 5.98 | | |
| | 12 14 14 14 - - - - - - | 3.80 | 4.61 | 4.61 | 4.61 | - | - | - | - | 17.62 | 5.43 | | |
| | 12 12 18 18 - - - - - - | 3.59 | 3.59 | 5.32 | 5.32 | - | - | - | - | 17.82 | 5.98 | | |
| | 12 12 14 24 - - - - - - | 3.52 | 3.52 | 4.26 | 7.02 | - | - | - | - | 18.32 | 5.98 | | |
| | 12 12 14 18 - - - - - - | 3.79 | 3.79 | 4.59 | 5.61 | - | - | - | - | 17.77 | 5.70 | | |
| | 12 12 14 14 - - - - - - | 3.92 | 3.92 | 4.75 | 4.75 | - | - | - | - | 17.33 | 5.23 | | |
| | 12 12 12 24 - - - - - - | 3.58 | 3.58 | 3.58 | 7.15 | - | - | - | - | 17.90 | 5.98 | | |
| | 12 12 12 18 - - - - - - | 3.84 | 3.84 | 3.84 | 5.68 | - | - | - | - | 17.20 | 5.43 | | |
| | 12 12 12 14 - - - - - - | 3.94 | 3.94 | 3.94 | 4.78 | - | - | - | - | 16.60 | 5.11 | | |
| | 12 12 12 12 - - - - - - | 3.96 | 3.96 | 3.96 | 3.96 | - | - | - | - | 15.84 | 5.07 | | |
| | 9 14 18 18 - - - - - - | 2.72 | 4.37 | 5.33 | 5.33 | - | - | - | - | 17.76 | 5.98 | | |
| | 9 14 14 24 - - - - - - | 2.66 | 4.27 | 4.27 | 7.04 | - | - | - | - | 18.25 | 5.98 | | |
| | 9 14 14 18 - - - - - - | 2.87 | 4.60 | 4.60 | 5.62 | - | - | - | - | 17.68 | 5.56 | | |
| | 9 14 14 14 - - - - - - | 2.96 | 4.75 | 4.75 | 4.75 | - | - | - | - | 17.22 | 5.16 | | |
| | 9 12 18 18 - - - - - - | 2.86 | 3.78 | 5.60 | 5.60 | - | - | - | - | 17.84 | 5.87 | | |
| | 9 12 14 24 - - - - - - | 2.71 | 3.59 | 4.35 | 7.17 | - | - | - | - | 17.83 | 5.98 | | |
| | 9 12 14 18 - - - - - - | 2.90 | 3.85 | 4.66 | 5.69 | - | - | - | - | 17.11 | 5.32 | | |
| | 9 12 14 14 - - - - - - | 2.98 | 3.94 | 4.78 | 4.78 | - | - | - | - | 16.48 | 5.08 | | |
| | 9 12 12 24 - - - - - - | 2.85 | 3.77 | 3.77 | 7.54 | - | - | - | - | 17.94 | 5.87 | | |
| | 9 12 12 18 - - - - - - | 2.97 | 3.94 | 3.94 | 5.83 | - | - | - | - | 16.67 | 5.16 | | |
| | 9 12 12 14 - - - - - - | 2.99 | 3.96 | 4.80 | - | - | - | - | - | 15.71 | 4.91 | | |
| | 9 9 18 24 - - - - - - | 2.71 | 2.71 | 5.30 | 7.16 | - | - | - | - | 14.87 | 4.60 | | |
| | 9 9 18 18 - - - - - - | 2.90 | 2.90 | 5.68 | 5.68 | - | - | - | - | 17.17 | 5.43 | | |
| | 9 9 14 24 - - - - - - | 2.86 | 2.86 | 4.58 | 7.55 | - | - | - | - | 17.85 | 5.70 | | |
| | 9 9 14 18 - - - - - - | 2.98 | 2.98 | 4.78 | 5.83 | - | - | - | - | 16.56 | 5.11 | | |
| | 9 9 14 14 - - - - - - | 2.99 | 2.99 | 4.80 | - | - | - | - | - | 15.58 | 4.75 | | |
| | 9 9 12 24 - - - - - - | 2.89 | 2.89 | 3.83 | 7.65 | - | - | - | - | 17.27 | 5.43 | | |
| | 9 9 12 18 - - - - - - | 2.99 | 2.99 | 3.96 | 5.86 | - | - | - | - | 15.80 | 5.07 | | |
| | 9 9 12 14 - - - - - - | 2.99 | 2.99 | 3.96 | 4.80 | - | - | - | - | 14.74 | 4.46 | | |
| | 9 9 12 12 - - - - - - | 2.99 | 2.99 | 3.96 | 3.96 | - | - | - | - | 13.90 | 4.21 | | |
| | 9 9 9 24 - - - - - - | 2.97 | 2.97 | 2.97 | 7.86 | - | - | - | - | 16.77 | 5.16 | | |
| | 9 9 9 18 - - - - - - | 2.99 | 2.99 | 2.99 | 5.86 | - | - | - | - | 14.83 | 4.60 | | |
| | 9 9 9 14 - - - - - - | 2.99 | 2.99 | 2.99 | 4.80 | - | - | - | - | 13.77 | 4.10 | | |
| | 9 9 9 12 - - - - - - | 2.99 | 2.99 | 2.99 | 3.96 | - | - | - | - | 12.93 | 3.90 | | |
| | 7 18 18 - - - - - - | 2.14 | 5.28 | 5.28 | 5.28 | - | - | - | - | 17.98 | 5.98 | | |
| | 7 14 18 18 - - - - - - | 2.26 | 4.57 | 5.58 | 5.58 | - | - | - | - | 17.99 | 5.87 | | |
| | 7 14 14 24 - - - - - - | 2.14 | 4.33 | 4.33 | 7.14 | - | - | - | - | 17.94 | 5.98 | | |
| | 7 14 14 18 - - - - - - | 2.29 | 4.65 | 4.65 | 5.67 | - | - | - | - | 17.26 | 5.32 | | |
| | 7 14 14 14 - - - - - - | 2.36 | 4.77 | 4.77 | 4.77 | - | - | - | - | 16.67 | 5.08 | | |
| | 7 12 18 24 - - - - - - | 2.13 | 3.56 | 5.26 | 7.10 | - | - | - | - | 18.05 | 5.98 | | |
| | 7 12 18 18 - - - - - - | 2.29 | 3.82 | 5.65 | 5.65 | - | - | - | - | 17.41 | 5.56 | | |
| | 7 12 14 24 - - - - - - | 2.25 | 3.76 | 4.56 | 7.52 | - | - | - | - | 18.09 | 5.87 | | |
| | 7 12 14 18 - - - - - - | 2.35 | 3.93 | 4.77 | 5.82 | - | - | - | - | 16.87 | 5.16 | | |
| | 7 12 14 14 - - - - - - | 2.37 | 3.96 | 4.80 | 4.80 | - | - | - | - | 15.93 | 4.91 | | |
| | 7 12 12 24 - - - - - - | 2.28 | 3.81 | 3.81 | 7.61 | - | - | - | - | 17.51 | 5.56 | | |
| | 7 12 12 18 - - - - - - | 2.37 | 3.96 | 3.96 | 5.85 | - | - | - | - | 16.13 | 5.08 | | |
| | 7 12 12 14 - - - - - - | 2.37 | 3.96 | 4.80 | - | - | - | - | - | 15.09 | 4.60 | | |
| | 7 9 18 24 - - - - - - | 2.25 | 2.84 | 5.56 | 7.51 | - | - | - | - | 14.25 | 4.33 | | |
| | 7 9 18 18 - - - - - - | 2.35 | 2.97 | 5.81 | 5.81 | - | - | - | - | 18.15 | 5.98 | | |
| | 7 9 14 24 - - - - - - | 2.29 | 2.88 | 4.63 | 7.63 | - | - | - | - | 16.95 | 5.23 | | |
| | 7 9 14 18 - - - - - - | 2.37 | 2.99 | 4.80 | 4.86 | - | - | - | - | 17.42 | 5.43 | | |
| | 7 9 12 24 - - - - - - | 2.35 | 2.96 | 3.92 | 7.84 | - | - | - | - | 17.08 | 5.23 | | |
| | 7 9 12 18 - - - - - - | 2.37 | 2.99 | 3.96 | 5.86 | - | - | - | - | 15.18 | 4.75 | | |
| | 7 9 12 14 - - - - - - | 2.37 | 2.99 | 3.96 | 4.80 | - | - | - | - | 14.12 | 4.21 | | |
| | 7 9 12 12 - - - - - - | 2.37 | 2.99 | 3.96 | - | - | - | - | - | 13.28 | 4.00 | | |
| | 7 9 9 24 - - - - - - | 2.37 | 2.98 | 2.98 | 7.89 | - | - | - | - | 16.23 | 5.08 | | |
| | 7 9 9 18 - - - - - - | 2.37 | 2.99 | 2.99 | 5.86 | - | - | - | - | 14.21 | 4.33 | | |
| | 7 9 9 14 - - - - - - | 2.37 | 2.99 | 2.99 | 4.80 | - | - | - | - | 13.15 | 3.90 | | |
| | 7 7 24 24 - - - - - - | 2.11 | 2.11 | 7.03 | 7.03 | - | - | - | -</td | | | | |

Multi Combination Table

8 Rooms Multi heating

| AOYG45LBT8 | Combination of indoor unit | | | | | | | | HEATING OPERATION | | | | | | | | 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 | | |
| 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 | |
| 5 Room | 7 | 7 | 12 | 14 | - | - | - | - | 2.37 | 2.37 | 3.96 | 4.80 | - | - | - | - | 13.50 | 4.00 | |
| | 7 | 7 | 9 | 24 | - | - | - | - | 2.37 | 2.37 | 2.99 | 7.91 | - | - | - | - | 15.64 | 4.91 | |
| | 7 | 7 | 9 | 18 | - | - | - | - | 2.37 | 2.37 | 2.99 | 5.86 | - | - | - | - | 13.59 | 4.10 | |
| | 7 | 7 | 7 | 24 | - | - | - | - | 2.37 | 2.37 | 2.37 | 7.91 | - | - | - | - | 15.02 | 4.60 | |
| 6 Room | 7 | 7 | 7 | 18 | - | - | - | - | 2.37 | 2.37 | 5.86 | - | - | - | - | - | 12.97 | 3.90 | |
| | 12 | 12 | 12 | 12 | 14 | - | - | - | 3.51 | 3.51 | 3.51 | 3.51 | 4.26 | - | - | - | - | 18.32 | 5.98 |
| | 12 | 12 | 12 | 12 | 12 | - | - | - | 3.58 | 3.58 | 3.58 | 3.58 | - | - | - | - | 17.90 | 5.98 | |
| | 9 | 12 | 12 | 14 | 14 | - | - | - | 2.66 | 3.52 | 3.52 | 4.27 | - | - | - | - | 18.26 | 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

| AOYG45LBT8 | Combination of indoor unit | HEATING OPERATION | | | | | | | | | | 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 | KW | KW | KW | | | | | | |
| 7 | 9 | 9 | 9 | 9 | 9 | 18 | - | - | 2.12 | 2.68 | 2.68 | 5.25 | - | - | 18.10 | 5.98 | | |
| 7 | 9 | 9 | 9 | 9 | 9 | 12 | - | - | 2.28 | 2.87 | 2.87 | 3.81 | - | - | 17.57 | 5.56 | | |
| 7 | 9 | 9 | 9 | 9 | 9 | 9 | - | - | 2.35 | 2.96 | 2.96 | 2.96 | - | - | 17.16 | 5.23 | | |
| 7 | 7 | 12 | 12 | 12 | 12 | 12 | - | - | 2.11 | 2.11 | 3.52 | 3.52 | - | - | 18.29 | 5.98 | | |
| 7 | 7 | 9 | 12 | 12 | 12 | 14 | - | - | 2.11 | 2.11 | 2.66 | 3.53 | 4.28 | - | - | 18.23 | 5.98 | |
| 7 | 7 | 9 | 12 | 12 | 12 | 12 | - | - | 2.15 | 2.15 | 2.71 | 3.60 | 3.60 | - | - | 17.81 | 5.98 | |
| 7 | 7 | 9 | 9 | 14 | 14 | 14 | - | - | 2.12 | 2.12 | 2.67 | 4.29 | 4.29 | - | - | 18.16 | 5.98 | |
| 7 | 7 | 9 | 9 | 12 | 18 | - | - | 2.11 | 2.11 | 2.66 | 3.52 | 5.21 | - | - | 18.27 | 5.98 | | |
| 7 | 7 | 9 | 9 | 12 | 14 | 14 | - | - | 2.16 | 2.16 | 2.72 | 3.61 | 4.37 | - | - | 17.74 | 5.98 | |
| 7 | 7 | 9 | 9 | 12 | 12 | - | - | 2.27 | 2.27 | 2.86 | 3.78 | 3.78 | - | - | 17.82 | 5.70 | | |
| 7 | 7 | 9 | 9 | 9 | 18 | - | - | 2.15 | 2.15 | 2.72 | 2.72 | 5.33 | - | - | 17.79 | 5.98 | | |
| 7 | 7 | 9 | 9 | 9 | 9 | 14 | - | - | 2.27 | 2.27 | 2.86 | 2.86 | 4.60 | - | - | 17.73 | 5.56 | |
| 7 | 7 | 9 | 9 | 9 | 9 | 12 | - | - | 2.30 | 2.30 | 2.90 | 2.90 | 3.84 | - | - | 17.15 | 5.32 | |
| 7 | 7 | 9 | 9 | 9 | 9 | 9 | - | - | 2.36 | 2.36 | 2.97 | 2.97 | 2.97 | - | - | 16.61 | 5.11 | |
| 7 | 7 | 7 | 12 | 14 | 14 | 14 | - | - | 2.10 | 2.10 | 2.10 | 3.51 | 4.26 | 4.26 | - | - | 18.34 | 5.98 |
| 7 | 7 | 7 | 12 | 12 | 14 | - | - | 2.14 | 2.14 | 2.14 | 3.58 | 3.58 | 4.34 | - | - | 17.92 | 5.98 | |
| 7 | 7 | 7 | 12 | 12 | 12 | - | - | 2.25 | 2.25 | 2.25 | 3.77 | 3.77 | 3.77 | - | - | 18.06 | 5.87 | |
| 7 | 7 | 7 | 9 | 14 | 18 | - | - | 2.10 | 2.10 | 2.10 | 2.65 | 4.25 | 5.19 | - | - | 18.38 | 5.98 | |
| 7 | 7 | 7 | 9 | 14 | 14 | - | - | 2.15 | 2.15 | 2.15 | 2.71 | 4.35 | 4.35 | - | - | 17.85 | 5.98 | |
| 7 | 7 | 7 | 9 | 12 | 18 | - | - | 2.14 | 2.14 | 2.14 | 2.70 | 3.57 | 5.28 | - | - | 17.96 | 5.98 | |
| 7 | 7 | 7 | 9 | 12 | 14 | - | - | 2.26 | 2.26 | 2.26 | 2.85 | 3.77 | 4.57 | - | - | 17.97 | 5.70 | |
| 7 | 7 | 7 | 9 | 12 | 12 | - | - | 2.29 | 2.29 | 2.29 | 2.89 | 3.82 | 3.82 | - | - | 17.39 | 5.43 | |
| 7 | 7 | 7 | 9 | 9 | 18 | - | - | 2.25 | 2.25 | 2.25 | 2.84 | 2.84 | 5.57 | - | - | 18.03 | 5.87 | |
| 7 | 7 | 7 | 9 | 9 | 14 | - | - | 2.29 | 2.29 | 2.29 | 2.89 | 4.64 | 4.64 | - | - | 17.30 | 5.32 | |
| 7 | 7 | 7 | 9 | 9 | 12 | - | - | 2.35 | 2.35 | 2.35 | 2.97 | 2.97 | 3.93 | - | - | 16.92 | 5.16 | |
| 7 | 7 | 7 | 9 | 9 | 9 | - | - | 2.37 | 2.37 | 2.37 | 2.99 | 2.99 | 2.99 | - | - | 16.07 | 5.07 | |
| 7 | 7 | 7 | 7 | 14 | 18 | - | - | 2.13 | 2.13 | 2.13 | 2.13 | 4.31 | 5.26 | - | - | 18.07 | 5.98 | |
| 7 | 7 | 7 | 7 | 14 | 14 | - | - | 2.25 | 2.25 | 2.25 | 2.25 | 4.56 | 4.56 | - | - | 18.12 | 5.70 | |
| 7 | 7 | 7 | 7 | 12 | 18 | - | - | 2.17 | 2.17 | 2.17 | 2.17 | 3.62 | 5.36 | - | - | 17.65 | 5.98 | |
| 7 | 7 | 7 | 7 | 12 | 14 | - | - | 2.28 | 2.28 | 2.28 | 2.28 | 3.81 | 4.62 | - | - | 17.54 | 5.43 | |
| 7 | 7 | 7 | 7 | 12 | 12 | - | - | 2.35 | 2.35 | 2.35 | 2.35 | 3.92 | 3.92 | - | - | 17.23 | 5.23 | |
| 7 | 7 | 7 | 7 | 9 | 24 | - | - | 2.12 | 2.12 | 2.12 | 2.12 | 2.67 | 7.06 | - | - | 18.19 | 5.98 | |
| 7 | 7 | 7 | 7 | 9 | 18 | - | - | 2.28 | 2.28 | 2.28 | 2.28 | 2.87 | 5.63 | - | - | 17.60 | 5.56 | |
| 7 | 7 | 7 | 7 | 9 | 14 | - | - | 2.35 | 2.35 | 2.35 | 2.35 | 4.76 | 4.76 | - | - | 17.11 | 5.16 | |
| 7 | 7 | 7 | 7 | 9 | 12 | - | - | 2.36 | 2.36 | 2.36 | 2.36 | 2.98 | 3.95 | - | - | 16.38 | 5.08 | |
| 7 | 7 | 7 | 7 | 9 | 9 | - | - | 2.37 | 2.37 | 2.37 | 2.37 | 2.99 | 2.99 | - | - | 15.46 | 4.75 | |
| 7 | 7 | 7 | 7 | 7 | 24 | - | - | 2.14 | 2.14 | 2.14 | 2.14 | 2.14 | 7.16 | - | - | 17.88 | 5.98 | |
| 7 | 7 | 7 | 7 | 7 | 18 | - | - | 2.30 | 2.30 | 2.30 | 2.30 | 2.30 | 5.68 | - | - | 17.18 | 5.32 | |
| 7 | 7 | 7 | 7 | 7 | 14 | - | - | 2.36 | 2.36 | 2.36 | 2.36 | 4.78 | 4.78 | - | - | 16.57 | 5.08 | |
| 7 | 7 | 7 | 7 | 7 | 12 | - | - | 2.37 | 2.37 | 2.37 | 2.37 | 3.96 | - | - | 15.81 | 4.91 | | |
| 7 | 7 | 7 | 7 | 7 | 9 | - | - | 2.37 | 2.37 | 2.37 | 2.37 | 2.99 | - | - | 14.84 | 4.46 | | |
| 7 | 7 | 7 | 7 | 7 | 7 | - | - | 2.37 | 2.37 | 2.37 | 2.37 | 2.37 | - | - | 14.22 | 4.21 | | |
| 7 | 9 | 9 | 9 | 9 | 9 | 9 | - | 2.12 | 2.67 | 2.67 | 2.67 | 2.67 | 2.67 | - | - | 18.16 | 5.98 | |
| 7 | 7 | 9 | 9 | 9 | 9 | 12 | - | 2.10 | 2.10 | 2.65 | 2.65 | 2.65 | 3.51 | - | - | 18.33 | 5.98 | |
| 7 | 7 | 9 | 9 | 9 | 9 | 9 | - | 2.15 | 2.15 | 2.71 | 2.71 | 2.71 | 2.71 | - | - | 17.85 | 5.98 | |
| 7 | 7 | 7 | 9 | 9 | 9 | 14 | - | 2.09 | 2.09 | 2.09 | 2.63 | 2.63 | 4.23 | - | - | 18.40 | 5.98 | |
| 7 | 7 | 7 | 9 | 9 | 9 | 12 | - | 2.13 | 2.13 | 2.13 | 2.69 | 2.69 | 3.56 | - | - | 18.02 | 5.98 | |
| 7 | 7 | 7 | 9 | 9 | 9 | 9 | - | 2.25 | 2.25 | 2.25 | 2.84 | 2.84 | 2.84 | - | - | 18.11 | 5.87 | |
| 7 | 7 | 7 | 7 | 9 | 12 | 12 | - | 2.11 | 2.11 | 2.11 | 2.11 | 2.67 | 3.53 | - | - | 18.20 | 5.98 | |
| 7 | 7 | 7 | 7 | 7 | 9 | 9 | - | 2.12 | 2.12 | 2.12 | 2.12 | 2.68 | 4.30 | - | - | 18.13 | 5.98 | |
| 7 | 7 | 7 | 7 | 7 | 9 | 12 | - | 2.16 | 2.16 | 2.16 | 2.16 | 2.73 | 3.61 | - | - | 17.71 | 5.98 | |
| 7 | 7 | 7 | 7 | 7 | 9 | 9 | - | 2.27 | 2.27 | 2.27 | 2.27 | 2.87 | 2.87 | - | - | 17.68 | 5.56 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 12 | - | 2.10 | 2.10 | 2.10 | 2.10 | 3.52 | 4.26 | - | - | 18.31 | 5.98 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 12 | - | 2.14 | 2.14 | 2.14 | 2.14 | 3.58 | 3.58 | - | - | 17.89 | 5.98 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 9 | - | 2.10 | 2.10 | 2.10 | 2.10 | 2.65 | 5.19 | - | - | 18.35 | 5.98 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 9 | - | 2.15 | 2.15 | 2.15 | 2.15 | 2.71 | 4.36 | - | - | 17.82 | 5.98 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 9 | - | 2.26 | 2.26 | 2.26 | 2.26 | 2.85 | 3.78 | - | - | 17.93 | 5.70 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 9 | - | 2.29 | 2.29 | 2.29 | 2.29 | 2.89 | 2.89 | - | - | 17.26 | 5.32 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 18 | - | 2.13 | 2.13 | 2.13 | 2.13 | 2.13 | 5.26 | - | - | 18.04 | 5.98 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 14 | - | 2.25 | 2.25 | 2.25 | 2.25 | 2.25 | 4.56 | - | - | 18.08 | 5.70 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 12 | - | 2.28 | 2.28 | 2.28 | 2.28 | 2.28 | 3.81 | - | - | 17.50 | 5.43 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 9 | - | 2.35 | 2.35 | 2.35 | 2.35 | 2.35 | 2.96 | - | - | 17.06 | 5.16 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | - | 2.36 | 2.36 | 2.36 | 2.36 | 2.36 | - | - | 16.52 | 5.08 | | |
| 7 | 7 | 7 | 7 | 7 | 7 | 9 | - | 2.09 | 2.09 | 2.09 | 2.09 | 2.64 | 2.64 | - | - | 18.40 | 5.98 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | - | 2.12 | 2.12 | 2.12 | 2.12 | 2.68 | 2.68 | - | - | 18.10 | 5.98 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | - | 2.11 | 2.11 | 2.11 | 2.11 | 3.52 | 3.52 | - | - | 18.28 | 5.98 | |
| 7 | 7 | 7 | 7 | 7 | 7 | 7 | - | 2.15 | 2.15 | 2.15 | 2.15 | 2.15 | 2.72 | - | - | 17.79 | 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.

Simultaneous Multi Twin / Triple

Model : AOYG36LATT [3phase]

AOYG45LATT [3phase]

AOYG54LATT [3phase]

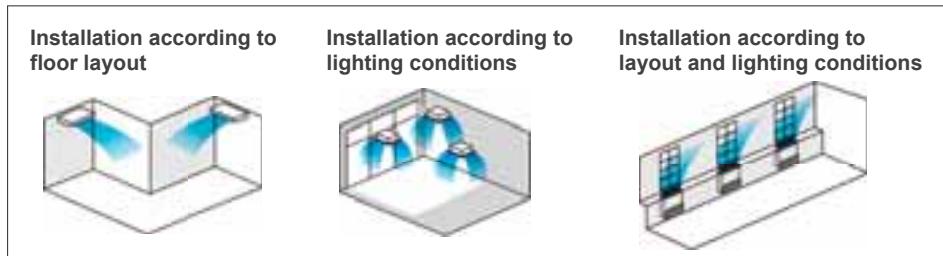
ALL
DC



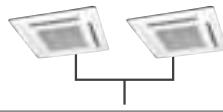
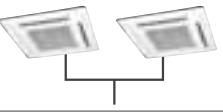
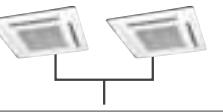
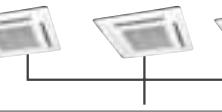
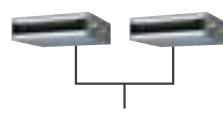
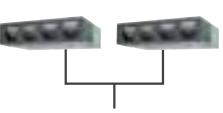
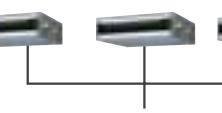
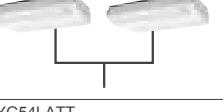
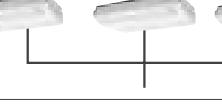
Features

Can support various installation scenes from office to commercial space by same place multi connection of up to 3 units.

Indoor units distributed layout according to the shape and number of people and lighting conditions of the room even on wide floors and atypical floors. Ideal comfortable air flow distribution can be realized.



Simultaneous Operation Multi type Indoor Unit Line up

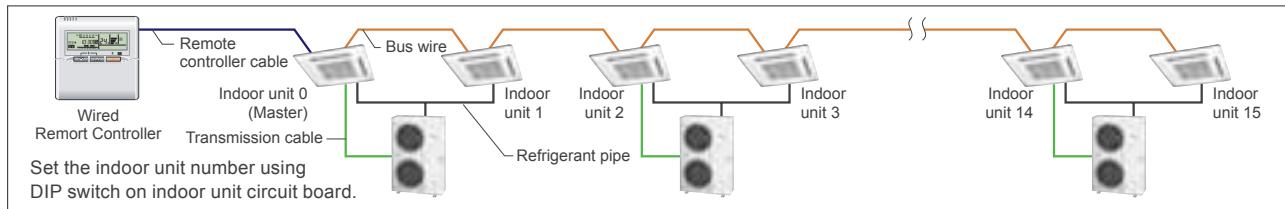
| | Twin | | | Triple |
|--------------|---|---|--|---|
| | 18x2 | 22x2 | 24x2 | 18x3 |
| Cassette | AUYG18LV×2  | AUYG22LV×2  | AUYG24LV×2  | AUYG18LV×3  |
| Duct | ARYG18LL×2  | ARYG22LM×2  | ARYG24LM×2  | ARYG18LL×3  |
| Ceiling | ABYG18LV×2  | ABYG22LV×2  | ABYG24LV×2  | ABYG18LV×3  |
| Outdoor unit | AOYG36LATT  | AOYG45LATT  | AOYG54LATT  |  |

Note: Combinations other than the above are not available.

Features

Simultaneous control

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



Specifications

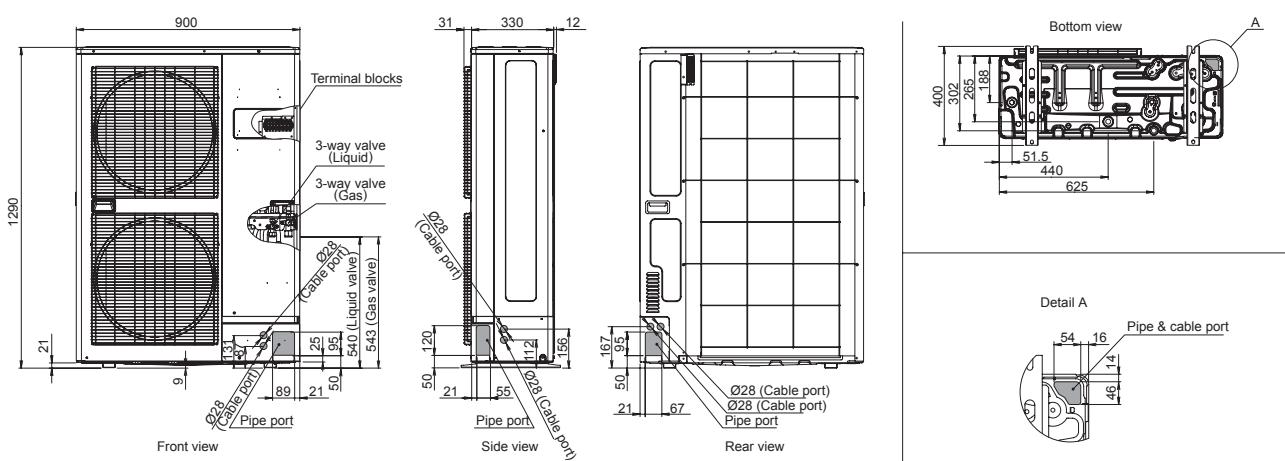
| Model No. | Indoor unit | Compact Cassette | | |
|------------------------------------|------------------|------------------|-------------------|---|
| | | AUYG18LVLB | AUYG22LVLA | AUYG24LVLA |
| Power Source | V/Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 |
| Air Flow (High) | Cooling H/M/L/Q | m³/h | 680/580/490/410 | 930/830/600/450 |
| Net Dimension H x W x D | | mm | 245x570x570 | 245x570x570 |
| Weight | | kg(lbs) | 15 (33) | 16 (35) |
| Cassette Grille | | | UTG-UFYD-W | UTG-UFYD-W |
| Model No. | Indoor unit | Duct | | Floor/Ceiling Universal |
| | | ARYG18LLTB | ARYG22LMLA | ARYG24LMLA |
| Power Source | V/Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 |
| Air Flow (High) | Cooling H/M/L/Q | m³/h | 940/880/820/750 | 1100/910/750/580 |
| Net Dimension H x W x D | | mm | 198 x 900 x 620 | 270 x 1135 x 700 |
| Weight | | kg(lbs) | 23 (51) | 38 (84) |
| Cassette Grille | | | | UTG-UFYD-W |
| Model No. | Outdoor unit | AOYG36LATT | | AOYG45LATT |
| | | 10.0 | 12.5 | 14.0 |
| Capacity | Cooling | kW | 11.2 | 14.5 |
| | Heating | | | 16.0 |
| Power source | V/Ø/Hz | 400/3/50 | 400/3/50 | 400/3/50 |
| Pdesign | Cooling | kW | 10.0 | - |
| | Heating (@-10°C) | | 10.0 | - |
| SEER | Cooling | W/W | 6.00 | - |
| SCOP | Heating | | 4.00 | - |
| Annual Energy Consumption | Cooling | kWh/a | 583 | - |
| | Heating | | 3499 | - |
| Energy Efficiency Class | Cooling | | A+ | - |
| | Heating | | A+ | - |
| Sound Pressure (High) | Cooling | dB(A) | 51 | 54 |
| Sound Power (High) | Heating | | 67 | - |
| Net Dimension H x W x D | | mm | 1290x900x330 | 1290x900x330 |
| Weight | | kg(lbs) | 104 (229) | 104 (229) |
| Piping Connections (Small / Large) | | mm | 9.52/15.88 | 9.52/15.88 |
| Max Pipe Length (Pre-Charge) | | m | 75(30) | 75(30) |
| Height Difference | | | 30 | 30 |
| Operation Range | Cooling | °CDB | -15 to 46 | -15 to 46 |
| | Heating | | -15 to 24 | -15 to 24 |
| Refrigerant | | | R410A | R410A |
| Separation tube | | | UTP-SX236A (Twin) | UTP-SX254A (Twin) / UTP-SX354A (Triple) |

*Different type and capacity indoor units can not be connected.

Dimensions

(Unit : mm)

Outdoor Unit : AOYG36LATT / AOYG45LATT / AOYG54LATT



OPTIONAL PARTS FOR SPLIT & MULTI SPLIT

Optional Parts List

| Type | | Wall Mounted | | | | | | Duct | | | | | | Cassette | | | Floor | Floor/Ceiling | Ceiling | | | | | |
|---------------------------|---|--|--|---------------------------------|---------------------------------|---------------------------|----------------|---|----------------|---|-----------------------|-----------------------------|--|-------------------------|--|--------------------------|---------------------------|---------------------------|--|--|--|--|--|--|
| | | Compact | | | Large | | | Slim | | Medium static | High static | | Compact | Large | | | | | | | | | | |
| | | ASYG 09/12 LTCA | ASYG 07/09/ 12/14 LUCA | ASYG 07/09/ 12/14 LMCA | ASYG 07/09/ 12/14 LLCC | ASYG 18LFCA/ 24LFCC | ASYG 30LFCA | ARYG 07/09 LLTA/ 12/14 LLTB | ARYG 18LLTB | ARYG 22/24/36/ 45LMLA/ 30/36 LMLE | ARYG 45/54 LHTA | ARYG60 72LHTA/ 90LHTA | AUYG 07/09 LVL/LA/ 12/14/18 LVLB | AUYG 22/24 LVL/LA | AUYG 30/36 LRLE/ 36/45/54 LRLA | AGYG 09/12/14 LVCA | ABYG 14LVTA/ 18LVTB | ABYG 22LVTA/ 24LVTA | ABYG 30/36 LRTE/ 36/45/54 LRTA | | | | | |
| Controllers | Wired Remote Controller | | UTY-RVNYM | | | UTY-RVNYM | | | UTY-RVNYM | | | | | | UTY-RVNYM | UTY-RVNYM | UTY-RVNYM | | | | | | | |
| | Simple Remote Controller | | UTY-RNNYM | | | UTY-RNNYM | | | UTY-RNNYM | | | | | | UTY-RNNYM | UTY-RNNYM | UTY-RNNYM | | | | | | | |
| Central Remote Controller | Central Remote Controller | For 8 Room | UTY-RSNYM | | | UTY-RSNYM | | | UTY-RSNYM | | | | | | UTY-RSNYM | UTY-RSNYM | UTY-RSNYM | | | | | | | |
| | IR Receiver Kit with Wireless Remote Controller | For Duct For Cassette | UTY-DMMYM | | | UTY-DMMYM | UTY-DMMYM | | | UTY-LRHYM | UTY-LRHYM | | | UTY-LRHYA2 | | | | | | | | | | |
| Others | Remote Sensor Unit | | New amenity space can be offered by installing the Remote sensor. | | | | | | | | | | | | | | | | | | | | | |
| | Auto Louver Grille Kit | | | | | | | | | | | | | | | | | | | | | | | |
| | Long Life Filter | | | | | | | | | | | | | | | | | | | | | | | |
| | Flange | | | | | | | | | | | | | | | | | | | | | | | |
| | Drain Pump Unit | | | | | | | | | | | | | | | | | | | | | | | |
| | Wide Panel | | | | | | | | | | | | | | | | | | | | | | | |
| | Panel Spacer | Panel spacer | | | | | | | | | | | | | | | | | | | | | | |
| | Fresh Air Intake Kit | For Compact Cassette For Cassette | | | | | | | | | | | | | | | | | | | | | | |
| | Air Outlet Shutter Plate | For Compact Cassette For Cassette | | | | | | | | | | | | | | | | | | | | | | |
| | Insulation for High Humidity | For Compact Cassette | | | | | | | | | | | | | | | | | | | | | | |
| | Half Concealed Kit | | This kit is used to half conceal floor type indoor unit into the wall. | | | | | | | | | | | | | | | | | | | | | |
| | Remote controller holder | | UTZ-RXLA | | | | | | | | | | | | | | | | | | | | | |

Optional parts list (Communication devices)

| Type | | Indoor Unit | | | | | | | | | | | | Outdoor Unit | | | | | |
|----------------------|--------------------------|--|---------------------------------|---------------------------------|--------------------------------------|------------------------------------|---|---------------------------------------|---|---|-----------------------|--------------------------|---------------------------------|---|---------------------------|-----------------------------|-----------------------|--------------------------|--|
| | | Wall Mounted | | | Duct | | | Cassette | | Floor | Floor/Ceiling | Ceiling | Single-phase | | 3-phase | | | | |
| | | Compact | | Large | Slim | Medium static | High static | Compact | Large | | | | Single Split | | Single Split | | Simultaneous Multi | | |
| | | ASYG 09/12 LTCA | ASYG 07/09/ 12/14 LUCA | ASYG 07/09/ 12/14 LMCA | ASYG 18LFCA/ 24LFCC/ 30LFCA | ARYG 07/09LLTA/ 12/14/18LLTB | ARYG 22/24/36/ 45MLA 30/36 LMLE | ARYG 45/54/60 72LHTA/ 90LHTA | AUYG 07/09 LVLA 12/14/18 LVLB | AUYG 22/24 LRLE 36/45/54 LRLA | AUYG 30/36 LVCA | AGYG 09/12/14 LVCA | ABYG 14/22/24LVTA/ 18LVTB | ABYG 30/36 LRTE 36/45/54 LRTA | AOYG 45LETU/ 54LETU | AOYG 30/45/54/ 60LATT | AOYA 72/90 LALT | AOYG 36/45/54 LATT | |
| Interface | Wireless LAN Interface | | FJ-RC-WIFI-1 | | | | | | | | | | | | | | | | |
| | KNX® Interface | | FJ-RC-KNX-1i | | | | | | | | | | | | | | | | |
| | MODBUS® Interface | | FJ-RC-MBS-1 | | | | | | | | | | | | | | | | |
| Communication Kit | Communication Kit | | UTY-TWBXF | UTY-XCBXZ2 | | | | | | | | | | | | | | | |
| | For Compact Wall Mounted | | | | UTY-XWZX | | | | | UTY-XWZX | | | | UTY-XWZX | | | | | |
| | For Indoor Unit* | | | | | | | | | | | | | | | | | | |
| | For Indoor Unit* | | UTY-XWZX5 | | | | | | | | | | | | | | | | |
| | For Outdoor Unit | | | | | | | | | | | | | | | | | | |
| | For Outdoor Unit | | | | | | | | | | | | | | | | | | |
| | For Outdoor Unit | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| External Connect Kit | External Connect Kit | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |
| External Control Set | External Control Set | | | | | | | | | | | | | UTD-ECS5A | | | | | |
| | | For Indoor Unit (Duct type only) Use to connect with various peripheral devices and air conditioner PC board. | | | | | | | | | | | | | | | | | |

*Duct type is excluded.

Refrigerant Piping Parts

Connection Units

Separation Tube

UTP-SX236A / UTP-SX254A

For 3-phase simultaneous multi



UTP-SX354A

For 3-phase simultaneous multi



UTP-SX248A

For 8 Rooms Multi



Branch Box

UTP-PY03A / UTP-PY02A

For 8 Rooms Multi



3 zones type

2 zones type

OPTIONAL PARTS FOR SPLIT & MULTI SPLIT

Wired Remote Controller : UTY-RVNYM

Max. controllable
16 Indoor units

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 performance and compact size

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



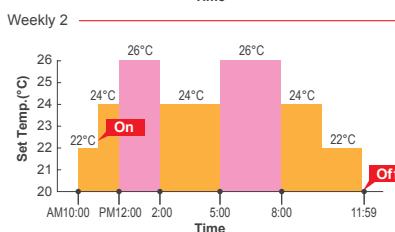
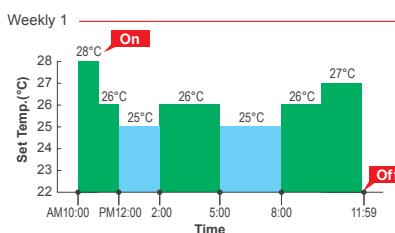
Various energy saving function

Auto OFF Timer

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

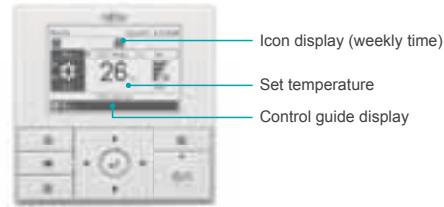
Weekly Timer function

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



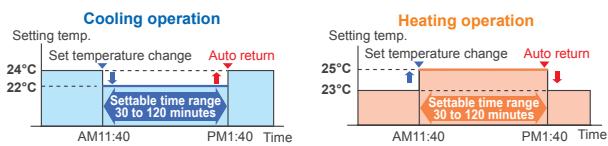
High visibility and Easy operation

- 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.



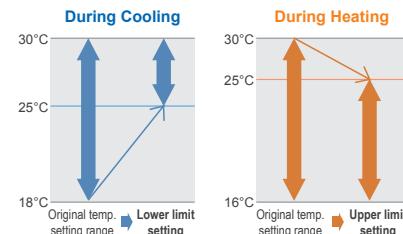
Set Temperature Auto Return

- The setting temperature automatically returns to the previously set temperature.
- The time range in which the set temperature can be changed is 30 to 120 minutes.



Set Temperature Upper and Lower Limit Setting

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



Specifications

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

* DC12 V is supplied by indoor unit.

Auto Louver Grille Kit : UTD-GXSA-W / UTD-GXSB-W / UTD-GXSC-W

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



Flexible Control

• Operation with indoor unit

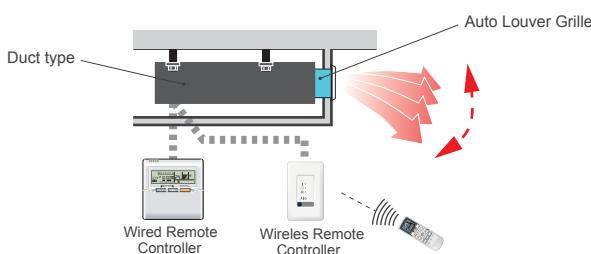
Auto Louver can be operated by synchronizing remote controller of indoor unit.

• UP and Down auto swing

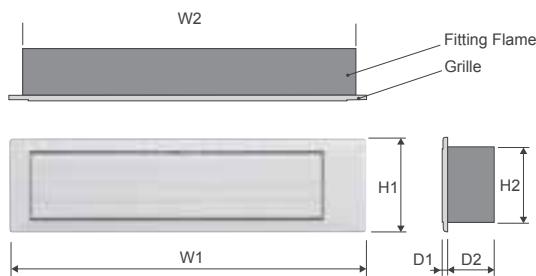
- Auto airflow direction and auto swing
- 4 steps selectable

• Auto-closing louver

When operation of indoor unit is stopped, the louver will automatically close.



Dimensions



| Unit: mm | | | | | | |
|------------|-------|-------|-----|-----|----|----|
| Model Name | W1 | W2 | H1 | H2 | D1 | D2 |
| UTD-GXSA-W | 683 | 645 | | | | |
| UTD-GXSB-W | 883 | 845 | 180 | 148 | 9 | 84 |
| UTD-GXSC-W | 1,083 | 1,045 | | | | |

Specifications

| Model name | | | UTD-GXSA-W | UTD-GXSB-W | UTD-GXSC-W | |
|------------------------------|--------------|-------------|--|--|---|--|
| Applicable Indoor Unit | | | ARYG07/09LLTA ARYG12/14LLTB ARXD04/07/09/12/14GALH (For VRF) | ARYG18LLTB ARXD18GALH (For VRF) | ARXD24GALH (For VRF) | |
| Power Supply | | | Connecting with Control box of indoor unit | | | |
| Fixing of Auto Louver Grille | | | Screw fixing to Flange or Square Duct | | | |
| Extension Square Duct Limit | | | 1.0m (Max. duct length between indoor unit and Grille) | | | |
| Net Dimension (H x W x D) | mm (inch) | | 180x683x(84+9) [7-3/32x26-7/8x(3-5/16+11/32)] | 180x883x(84+9) [7-3/32x34-3/4x(3-5/16+11/32)] | 180x1083x(84+9) [7-3/32x42-5/8x(3-5/16+11/32)] | |
| Weight | Net | kg (lb.) | 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 (°F) | 18 to 32 (64 to 90) | | | |
| | | % RH | 80% or less | | | |
| | | Heating | 16 to 30 (60 to 88) | | | |

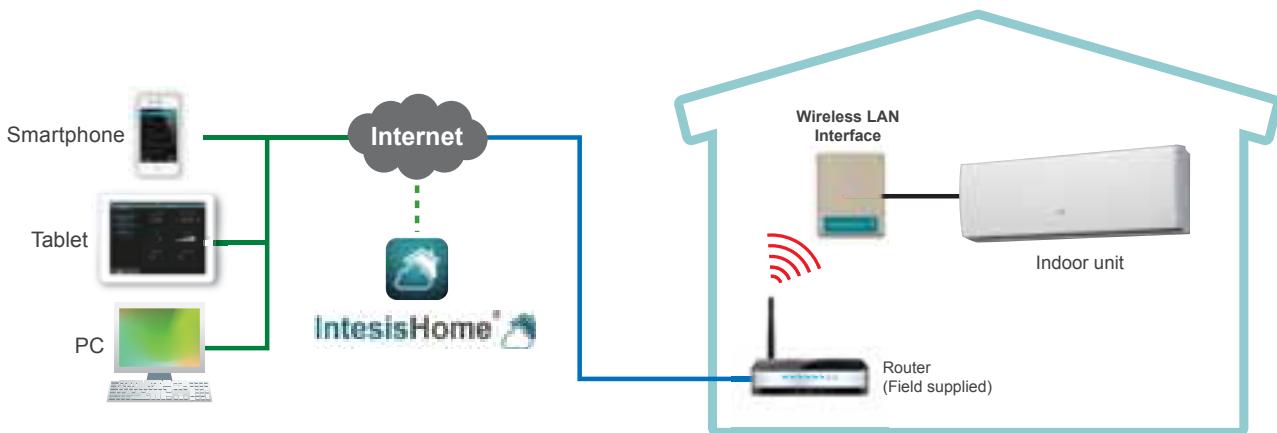
OPTIONAL PARTS FOR SPLIT & MULTI SPLIT

NEW Wireless LAN Interface : FJ-RC-WIFI-1

IntesisHome



- 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



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)
- Schedulable functionalities (ON/OFF, Modes, Set point temperature, Fan Speed, Louver position)
- Set temperature limitation (future release)
- Multiple Scenes & Timers and Calendar function

Notifications and history

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

Specifications

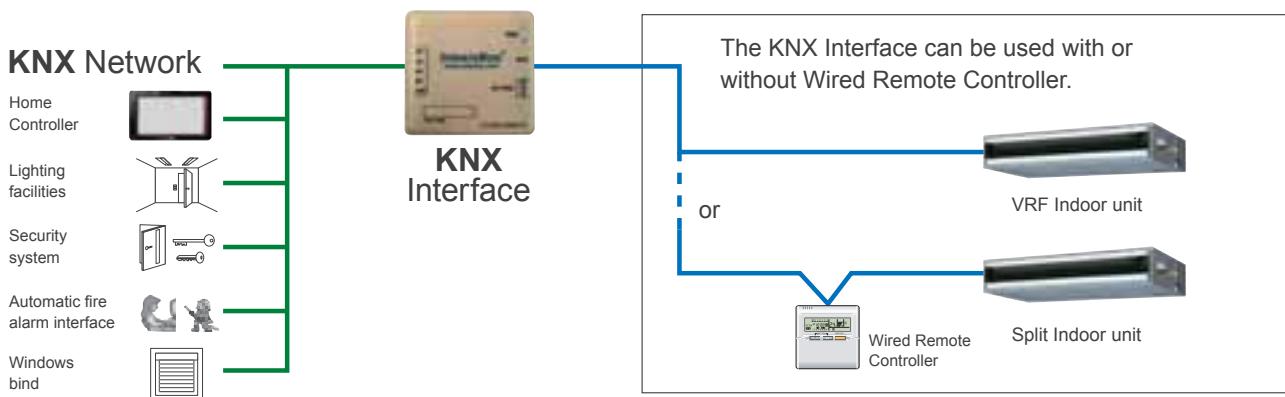
| | |
|-----------------------------|--------------|
| Model name | FJ-RC-WIFI-1 |
| Dimensions (H x W x D) (mm) | 70x108x28 |
| Weight (g) | 80 |

NEW 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.

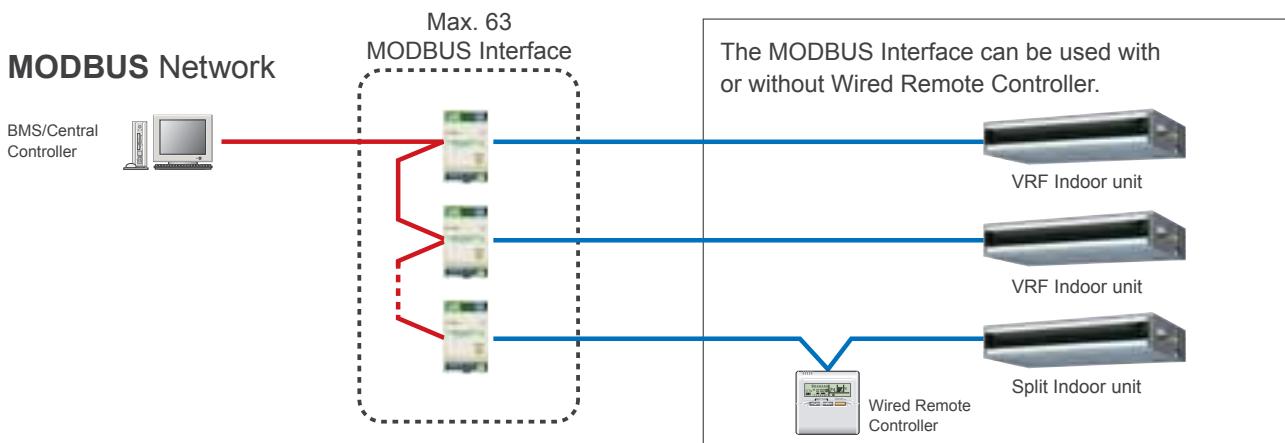


NEW MODBUS® Interface : FJ-RC-MBS-1



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.



Specifications

| Model name | FJ-RC-MBS-1 | FJ-RC-KNX-1i |
|-----------------------------|-------------|--------------|
| Dimensions (H x W x D) (mm) | 93x53x58 | 70x70x28 |
| Weight (g) | 85 | 70 |

OPTIONAL PARTS FOR SPLIT & MULTI SPLIT

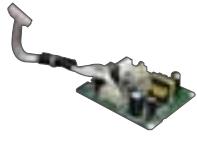
Controllers

For Individual & Centralized Control

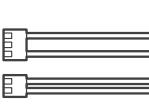
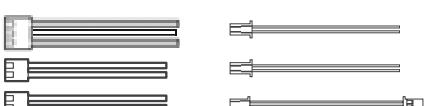
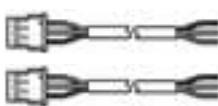
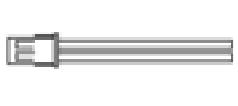
| | | | |
|---|---|--|---|
| Wired Remote Controller UTY-RVNYM | Wired Remote Controller UTY-RNNYM | Simple Remote Controller UTY-RSNYM | Central Remote Controller UTY-DMMYM For 8 Rooms Multi |
|  |  |  |  |

Communication devices

Interface

| | | | |
|--|--|--|--|
| Wireless LAN Interface NEW FJ-RC-WIFI-1 | KNX® Interface NEW FJ-RC-KNX-1i | MODBUS® Interface NEW FJ-RC-MBS-1 | Communication Kit UTY-TWBXF / UTY-XCBXZ2 For Compact Wall Mounted type |
|  |  |  |  |

External Connect Kit / External Control set

| | | |
|---|---|---|
| External Connect Kit For Indoor Unit | External Control Set For Indoor Unit | |
|  UTY-XWZX |  UTD-ECS5A | |
| External Connect Kit For Outdoor unit | | |
|  UTY-XWZXZ2 |  UTY-XWZXZ3 |  UTY-XWZXZ4 |

Function list

| | | For Indoor unit | | | For Outdoor unit | | |
|--------|-------------------|-----------------|------------|-----------|------------------|------------|------------|
| | | UTY-XWZX | UTY-XWZXZ5 | UTD-ECS5A | UTY-XWZXZ2 | UTY-XWZXZ3 | UTY-XWZXZ4 |
| Input | Control | ● | ● | ● | — | — | — |
| | Peak cut | — | — | — | ● | ● | — |
| | Low noise | — | — | — | ● | ● | — |
| | Priority | — | — | — | — | ● | — |
| | Emergency stop | — | — | — | — | ● | — |
| Output | Operation status | ● | ● | ● | ● | ● | — |
| | Error status | — | ● | ●*1 | ● | ● | — |
| | Fresh air control | — | — | ● | — | — | — |
| | Auxiliary heater | — | — | ●*2 | — | — | — |
| | Preparation | — | — | ●*2 | — | — | — |
| | Base heater | — | — | — | — | — | ● |

* 1 : Duct type does not have this function.

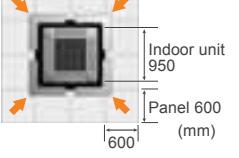
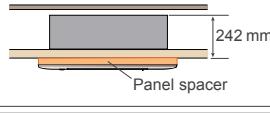
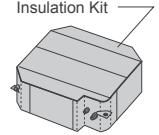
* 2 : Cassette and Ceiling type does not have this function.

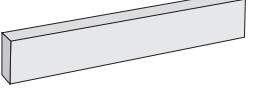
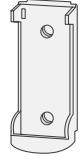
Others

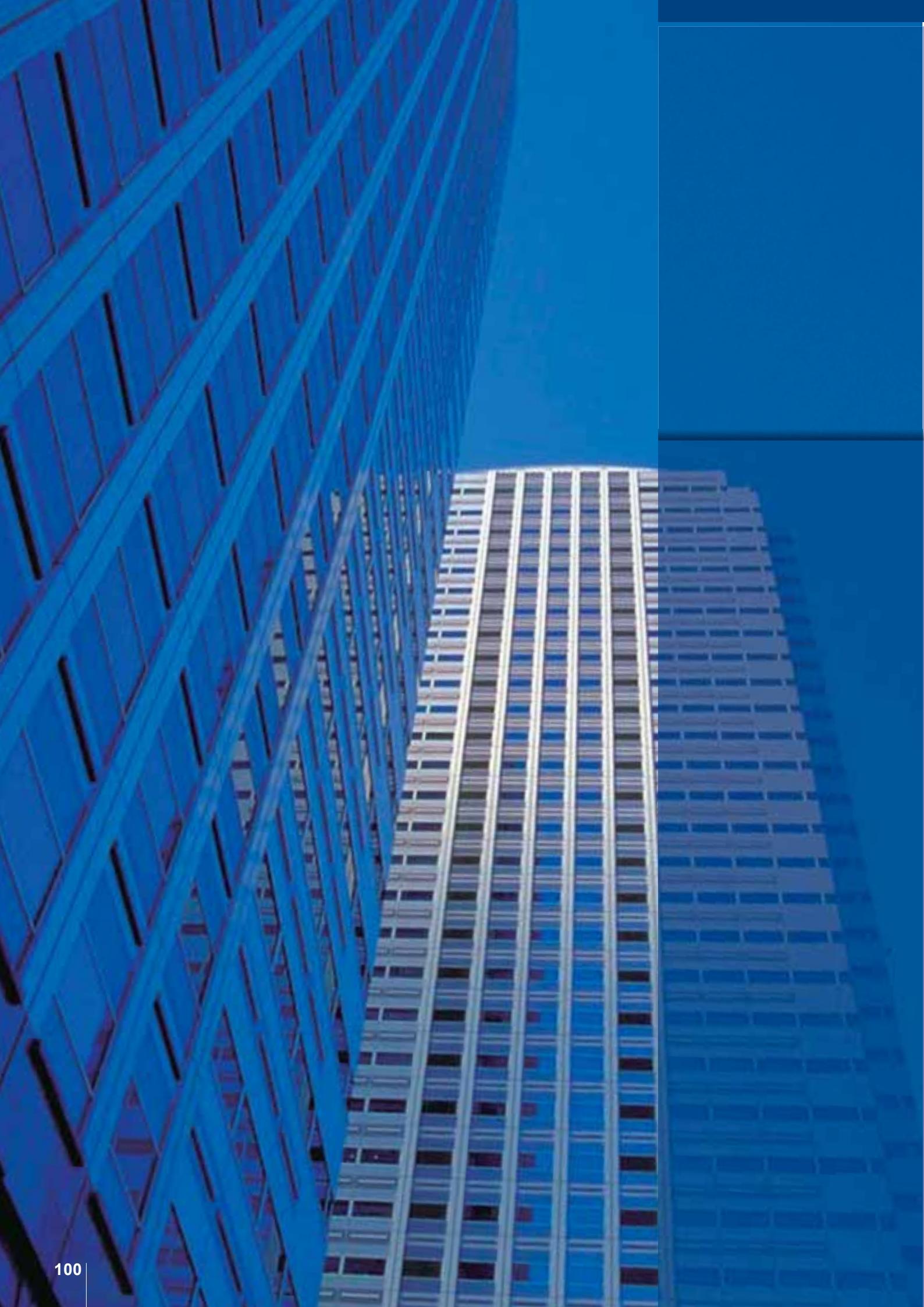
For Duct type

| | | | |
|---|--|--|--|
| Remote Sensor Unit UTY-XSZX New amenity space can be offered by installing the Remote sensor.  | IR Receiver Kit UTY-LRHYM  +  | Auto Louver Grille Kit UTD-GXSA-W For 07 / 09 / 12 / 14 type UTD-GXSB-W For 18 type  | Long-Life Filter UTD-LF60KA UTD-LF25NA   UTD-LF60KA UTD-LF25NA |
| Flange UTD-RF204 (Round) UTD-SF045T (Square)  (Round)  (Square) | Drain Pump Unit UTZ-PX1NBA For Medium Static Pressure Duct  | | |
| | | | |

For Cassette type

| | | | |
|--|---|---|--|
| IR Receiver Kit UTY-LRHYA2  | Wide Panel UTG-AGYA-W  Indoor unit 950 Panel 600 (mm) 600 | Cassette Grille UTG-UFYD-W For Compact Cassette type  | Cassette Grille UTG-UGYA-W  |
| Panel Spacer UTG-BGYA-W  242 mm Panel spacer | Fresh Air Intake Kit UTZ-VXAA For Compact Cassette type  | Fresh Air Intake Kit UTZ-VXGA  | Insulation Kit For High Humidity UTZ-KXGA / UTZ-KXGC For Compact Cassette type / Cassette type  Insulation Kit |
| Air Outlet Shutter Plate UTR-YDZB For Compact Cassette type Shuts the air outlet when only using as 3 blow out.  | Air Outlet Shutter Plate UTR-YDZC Shuts the air outlet when only using as 3 blow out.  | | |
| | | | |

| For Floor type | For Wall Mounted type | For Ceiling type | Service & Maintenance |
|---|--|--|--|
| Half Concealed Kit UTR-STA This kit is used to half conceal floor type indoor unit into the wall.  | Remote Controller Holder UTZ-RXLA For ASYG07 / 09 / 12LLCC  | Drain Pump Unit UTR-DPB24T  | Service Monitoring Tool NEW UTY-ASSX  |



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.



- 102** AIRSTAGE™ Outline
- 104** AIRSTAGE™ Features
- 110** AIRSTAGE™ J-IIS Heat pump type
- 114** AIRSTAGE™ J-II Heat pump type
- 118** AIRSTAGE™ V-II Heat pump type
- 126** AIRSTAGE™ VR-II Heat recovery type
- 134** AIRSTAGE™ Indoor Units
- 140** Controller
- 154** Adaptor & Convertor
- 160** Service & Maintenance
- 162** VENTILATION
- 168** Optional Parts for VRF

V R F



Fujitsu General provides multi air conditioning systems for buildings AIRSTAGE™ Series matched to the size and application of the property

A pleasant air conditioned environment matched to the needs is created by combining a wide variety of outdoor units, indoor units, and controllers.



Outdoor Units Line-up

Page 110~

Heat Pump type for heating or cooling operation

NEW



Systems for large homes to medium sized offices, shops

4HP, 5HP, 6HP 3 models

AIRSTAGE™ J-II S

Heat Pump type for heating or cooling operation



Systems for large homes to medium sized offices, shops

4HP, 5HP, 6HP 3 models

AIRSTAGE™ J-II



Indoor Units & Ventilations Line-up

Page 134~

Capacity range 1.1 kW to 25.0 kW (J-II can be connected up to 14.0 kW.)



Compact Cassette



Cassette



Low Static Pressure Duct



Slim Duct (With drain pump)



Medium Static Pressure Duct



High Static Pressure Duct



Floor / Ceiling



Ceiling



Wall Mounted (EEV internal / EEV external)



Wall Mounted

NEW Outdoor Air Unit 3 models Page 166~



Heat Pump type for heating or cooling operation



Systems for large offices, hotels, and large composite facilities

8HP-48HP 33models

- Space saving combination : 8HP to 48HP / 21 models
- Energy efficiency combination : 16HP to 44HP / 12 models

AIRSTAGE™ V-II

Heat Recovery type for simultaneous heating and cooling operation



Systems compatible with individual operation mode control, as well as large offices, hotels, and large composite facilities

8HP-48HP 34models

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

AIRSTAGE™ VR-II



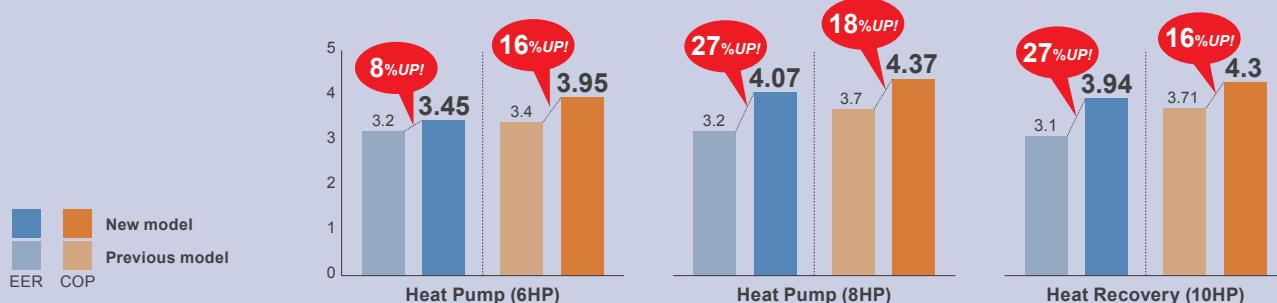
Various Easy-to-use Controllers Page 140~

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



Highly Energy Efficiency

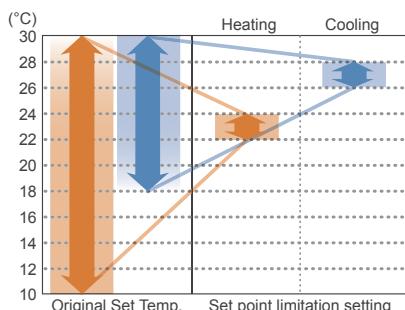
Efficiency is improved significantly by using DC twin rotary compressor, inverter technology, and large heat exchanger



Energy Saving Function

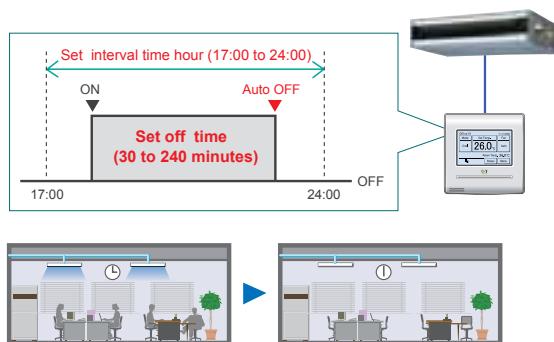
Room temperature set point limitation

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



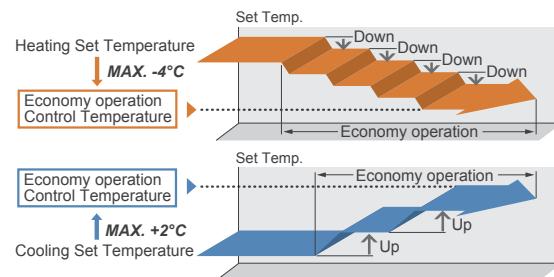
Auto-off timer

- 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.



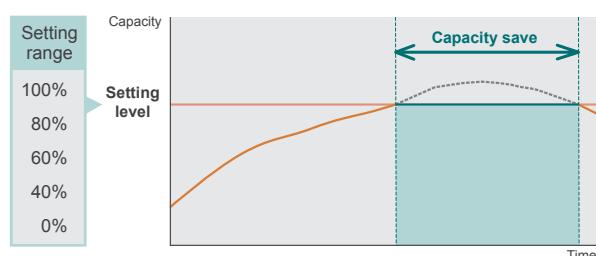
Economy operation

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



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.

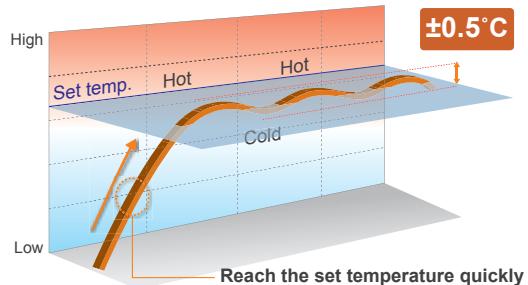




More Comfort

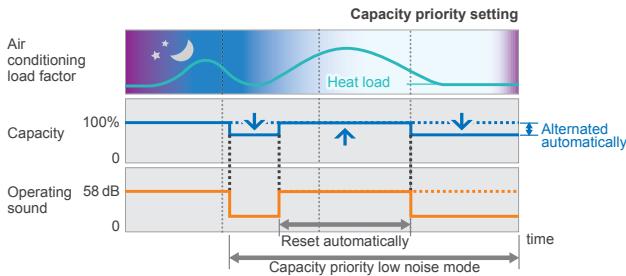
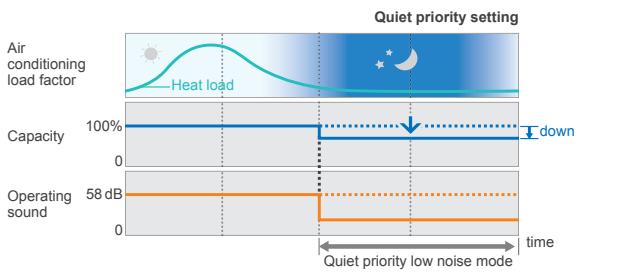
Precision refrigerant flow control

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



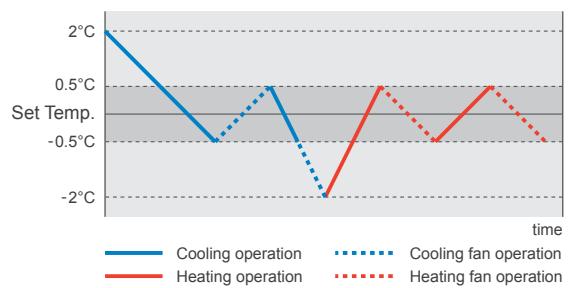
Quiet operation

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.

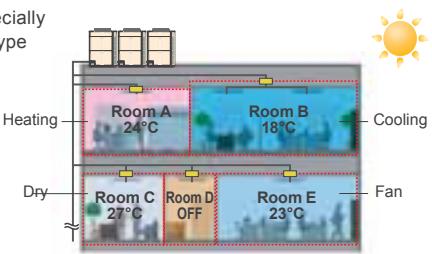


Auto changeover function

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



Suitable for especially
Heat Recovery type



Design Flexibility

High capacity connection

4HP-6HP



AIRSTAGE™ J-II series
Heat Pump type

| |
|--|
| Connectable indoor unit capacity range |
| 50% to 130% ^{*1} |
| Connectable indoor unit number |
| up to 8 |

8HP-48HP



AIRSTAGE™ V-II series
Heat Pump type

AIRSTAGE™ VR-II series
Heat Recovery type

| |
|--|
| Connectable indoor unit capacity range |
| 50% to 150% ^{*1} |
| Connectable indoor unit number |
| up to 48 |

| |
|--|
| Connectable indoor unit capacity range |
| 50% to 150% ^{*1} |
| Connectable indoor unit number |
| up to 64 |

4HP-6HP



AIRSTAGE™ J-IIS series
Heat Pump type

| |
|---|
| Connectable indoor unit capacity range |
| 50% ^{*2} to 130% ^{*1} |
| Connectable indoor unit number |
| up to 9 |

*1. Conditions of maximum connectable indoor unit capacity ratio is as the chart below.
*2. Only 4HP is 46%

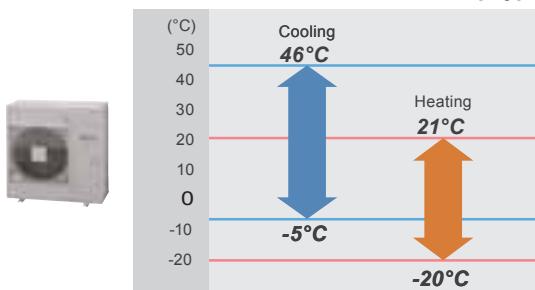
| Outdoor unit capacity | Maximum connectable indoor unit capacity ratio | |
|-----------------------|--|----------------------------------|
| | Without 1.1 kW models | With 1.1 kW models ^{*3} |
| 8HP-48HP | 150% | 130% |
| 4HP-6HP | 130% | 120% |

*3. In the case of connectable indoor units, 1.1 kW models and Cassette and/or Duct type of 9.0 kW class or more, maximum connectable indoor unit capacity ratio is 110%.

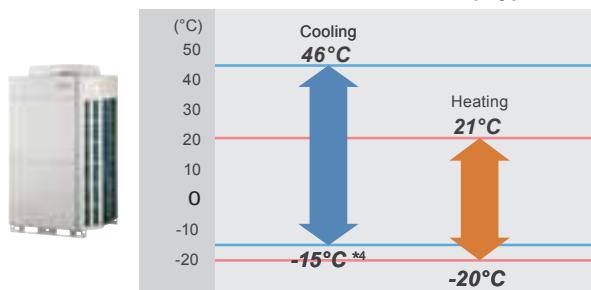
Wide operating range

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

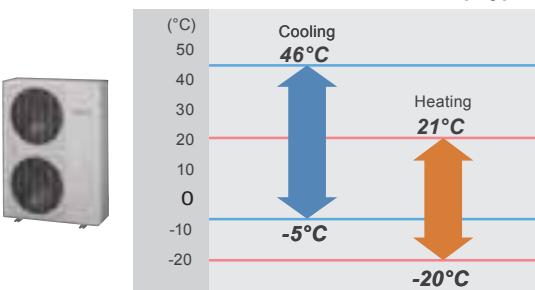
AIRSTAGE™ J-IIS series Heat Pump type



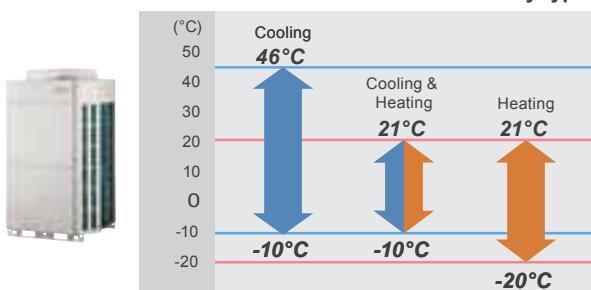
AIRSTAGE™ V-II series Heat Pump type



AIRSTAGE™ J-II series Heat Pump type



AIRSTAGE™ VR-II series Heat Recovery type

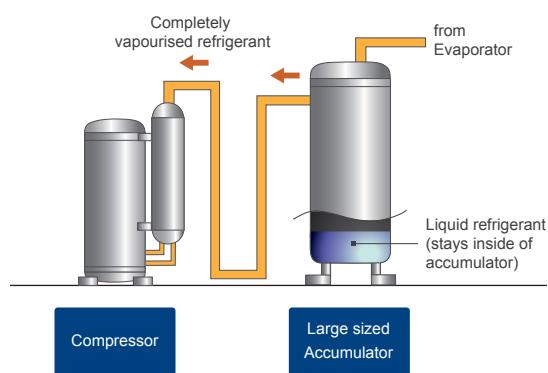


*4. Note : When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.

High Reliability

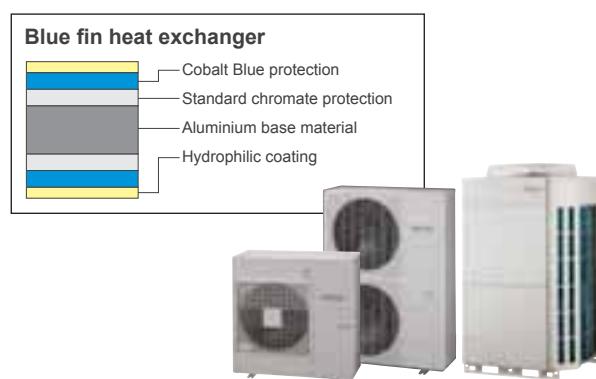
Liquid flow back protection

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



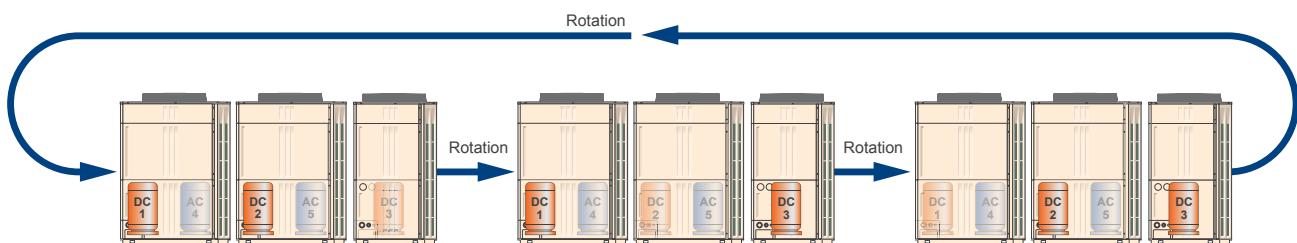
Adoption of blue fin heat exchanger

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



Life-extending operation^{*5}

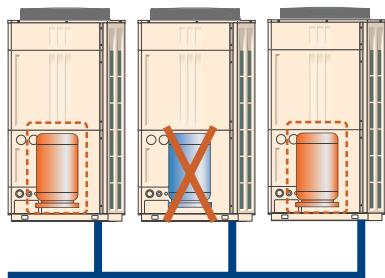
The compressor starting order is rotated so that the running time is shared.



Backup operation^{*5}

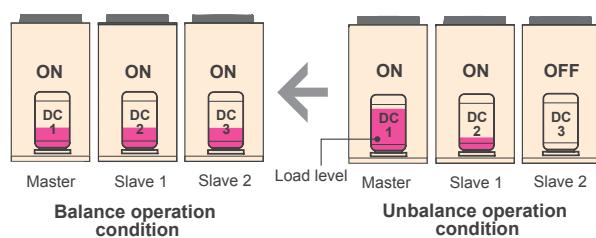
If one compressor fails, backup operation will be performed by the remaining compressors*.

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



Advanced refrigerant control^{*5}

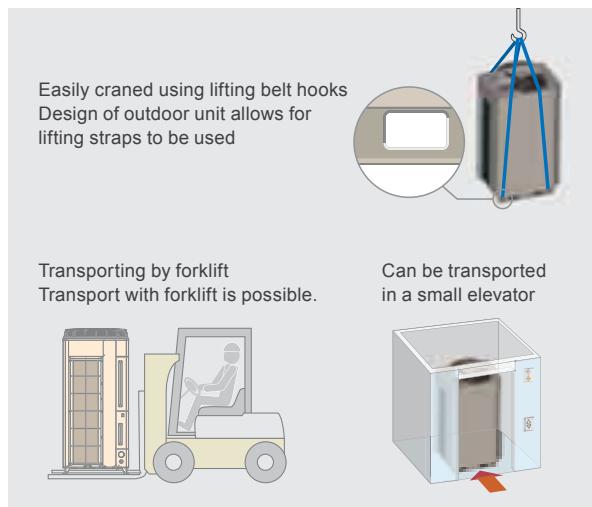
Innovative compressor control logic has been introduced in order to balance the refrigerant mass flow rate of each outdoor unit by controlling the inverter speed.



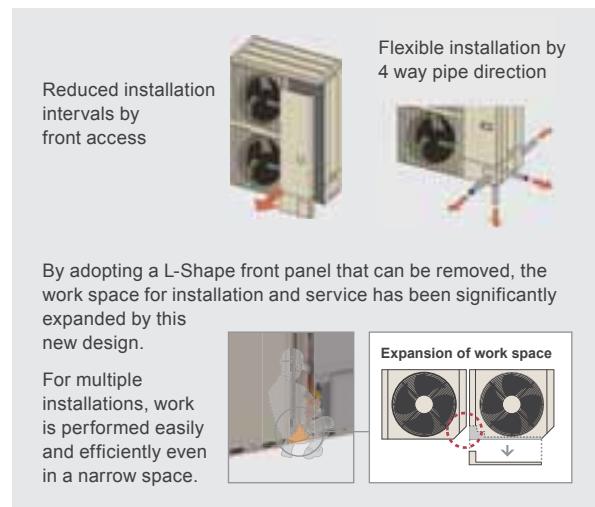
^{*5}. Not available for AIRSTAGE™ J-II and J-III series

Easy Installation

Easily transported



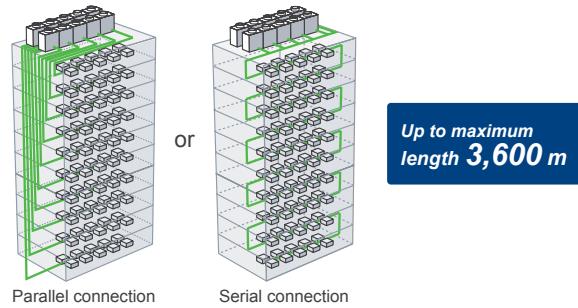
Easy access



Simple wiring work

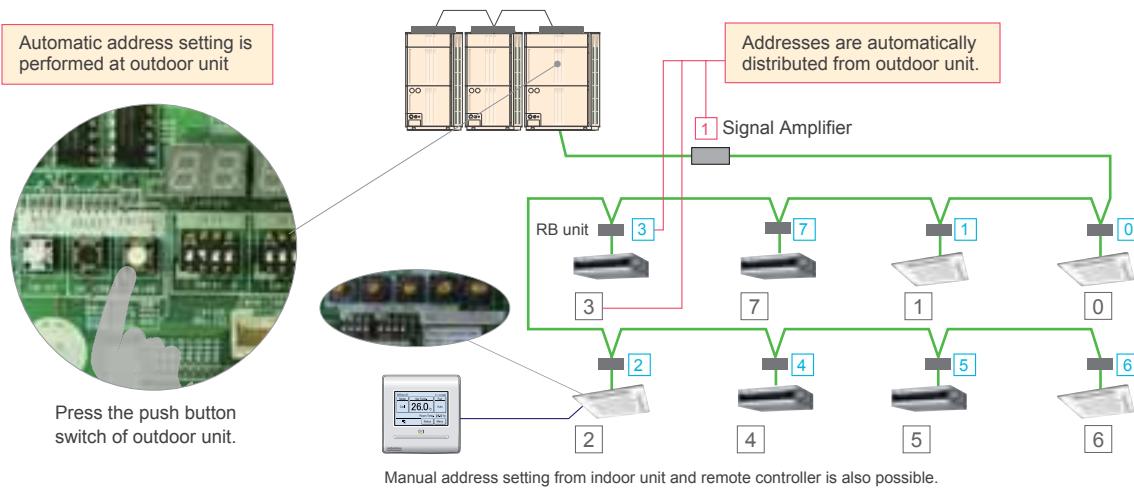
Installation of the wiring systems is made easier as the communication wiring can be installed continuously between the indoor, outdoor and RB units.

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

Movable PCB panel
Easier for maintenance work behind the PCB

Easy to read 7-segment LED :
Confirm detailed operational and error status without using any specific equipment.

7-segment LED

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

Error and quantity annunciation

Error code

Abnormal indoor unit address

• 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.

Wired Remote Controller

System number
001: Controller
002: Indoor unit Error code
Unit number

Simple Remote Controller

Remote controller address Error code

Wired Remote Controller (Touch panel)

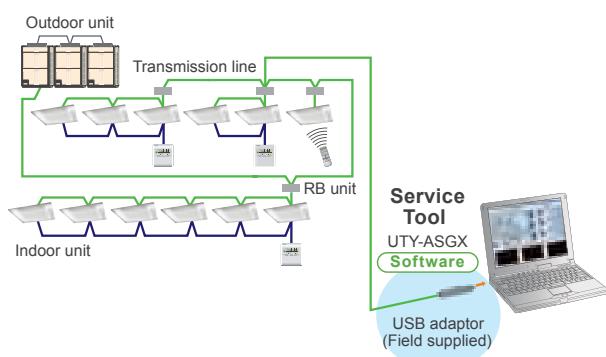
Error status / Error history

| Date | Type | Address | Code |
|-----------|--------|---------|------|
| 2012/8/1 | Normal | 002-01 | 141 |
| 2012/7/30 | Normal | 002-02 | 143 |
| 2012/7/29 | Normal | 002-03 | 143 |
| 2012/7/29 | Normal | 002-04 | 143 |
| 2012/7/29 | Normal | 002-05 | 141 |
| 2012/7/29 | Normal | 002-06 | 141 |
| 2012/7/29 | Normal | 002-07 | 141 |
| 2012/7/29 | Normal | 002-08 | 141 |

Error diagnosis by Service Tool

Connection to Service Tool

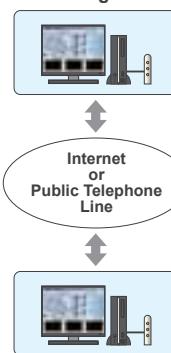
- Detail operation status and recent error history can be checked and analyzed by using the Service Tool.
- Last 5 min. operation memory can be also be recorded.



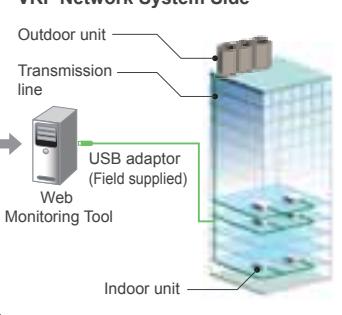
Remote monitoring

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

Monitoring Side



VRF Network System Side



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

NEW Heat pump : AJY040LCLAH / AJY045LCLAH / AJY054LCLAH

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



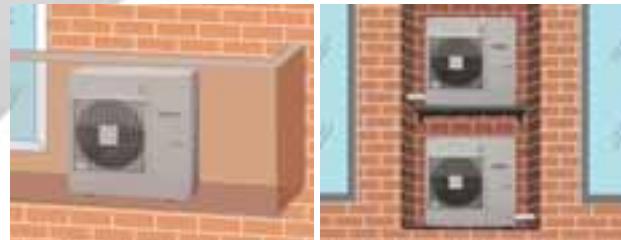
Features

It Can be Easily Carried and Installed Obscure Place



Small and light weight outdoor unit

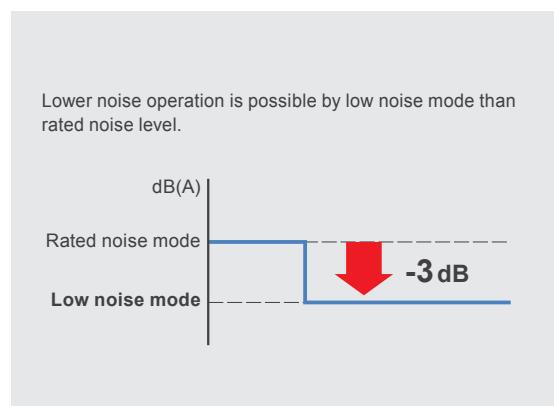
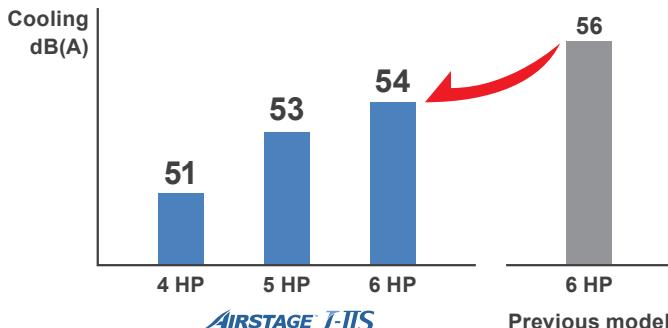
This model is much more compact than conventional 6HP comparable outdoor units. Even when installed on the balcony it fits within the height of the fence. The compact size with a height of less than 1 m allows it to be installed under windows and in tight spaces



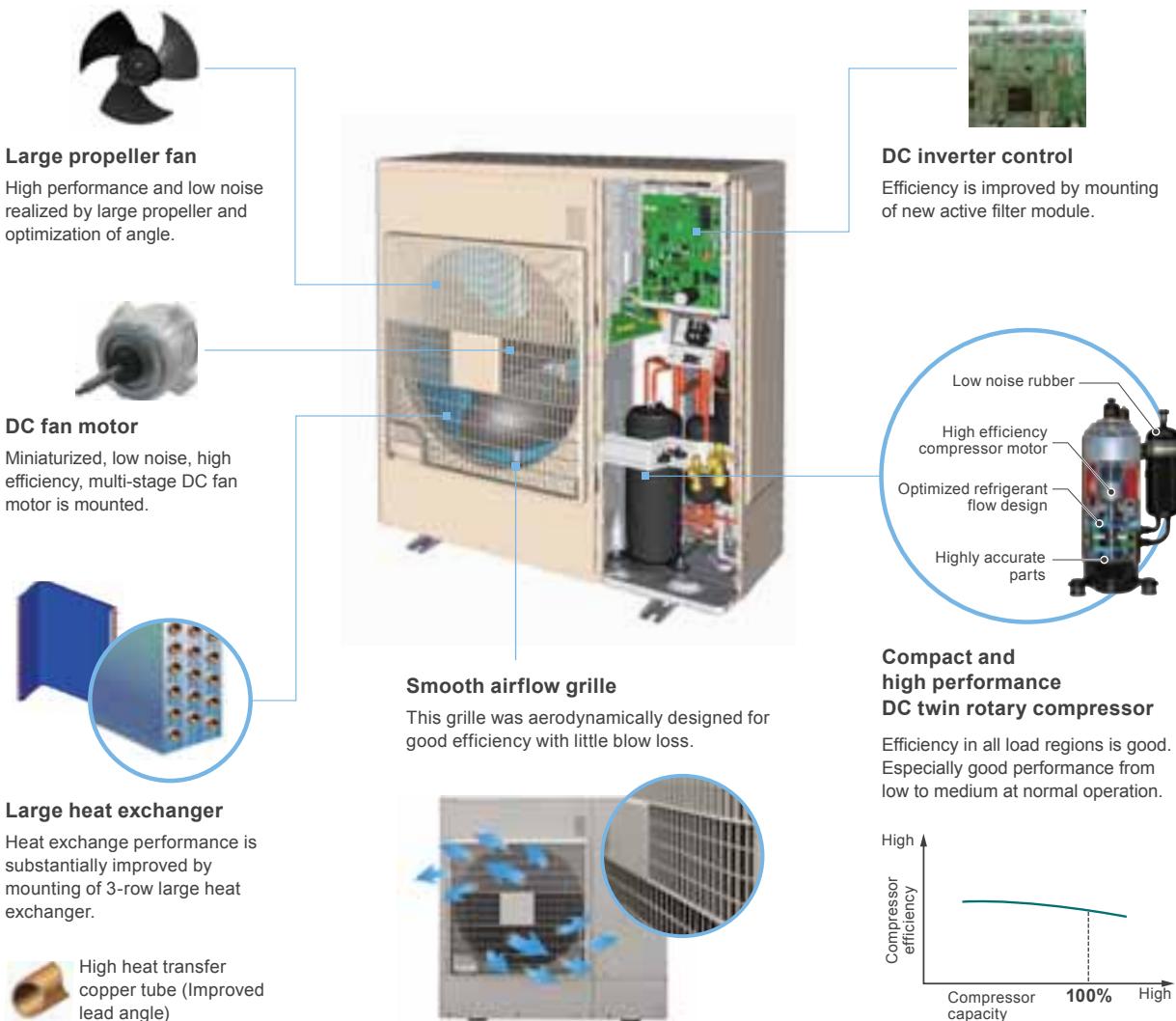
Features

Low sound level design

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



Advanced high efficiency technology



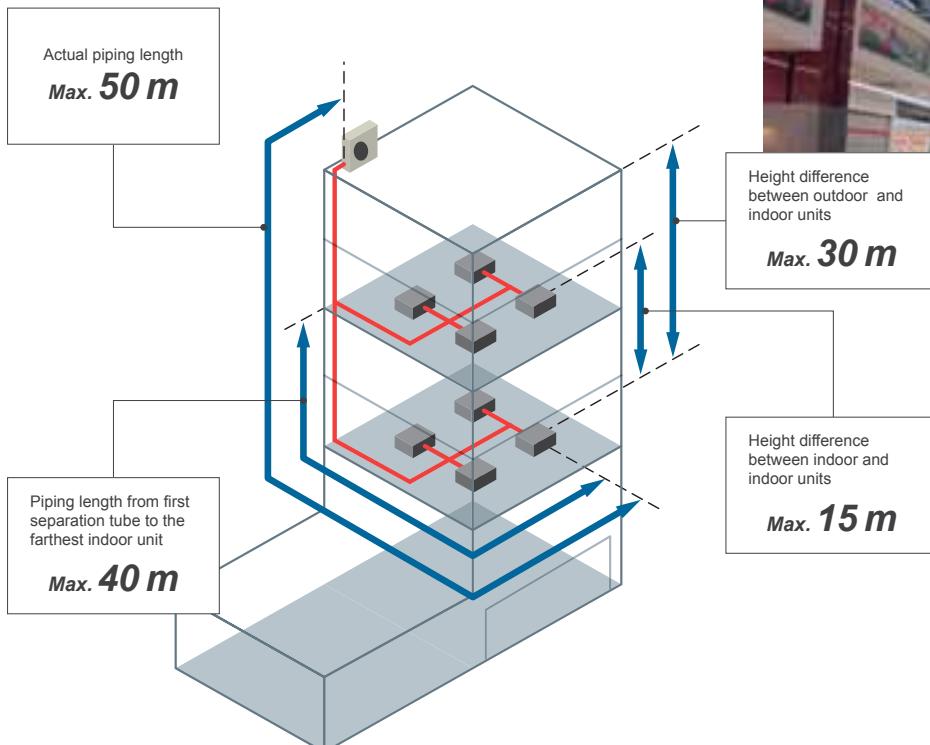
Features

Long piping length

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

Total pipe length

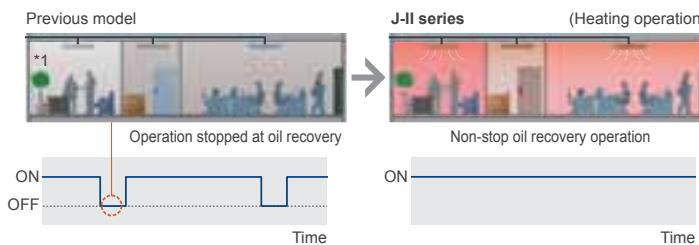
Max. 80m



More Comfort

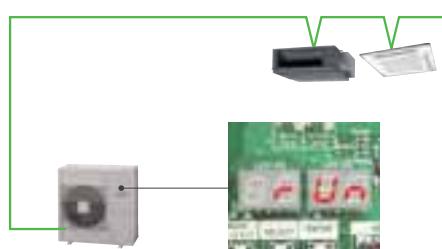
Non-stop oil recovery operation

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.



Specifications

| Rating capacity range | HP | 4 | 5 | 6 |
|---------------------------------|----------------|-------------|-------------|-------------|
| Model name | | AJY040LCLAH | AJY045LCLAH | AJY054LCLAH |
| Maximum connectable indoor unit | | 7 | 8 | 8 |
| Power source | V/Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 |
| Capacity | Cooling kW | 12.1 | 14.0 | 15.1 |
| | Heating kW | 13.6 | 16.0 | 16.5 |
| Input power | Cooling kW | 3.44 | 4.43 | 5.32 |
| | Heating kW | 3.09 | 3.93 | 4.26 |
| EER | Cooling W/W | 3.52 | 3.16 | 2.84 |
| COP | Heating W/W | 4.40 | 4.07 | 3.87 |
| Airflow rate | m³/h | 4,040 | 4,200 | 4,200 |
| Sound Pressure level | Cooling dB (A) | 51 | 53 | 54 |
| | Heating dB (A) | 54 | 55 | 56 |
| Heat exchanger fin | | Blue fin | Blue fin | Blue fin |
| Dimensions | Height mm | 998 | 998 | 998 |
| | Width mm | 970 | 970 | 970 |
| | Depth mm | 370 | 370 | 370 |
| Weight | kg | 86 | 86 | 87 |
| Connection Pipe diameter | Liquid mm | ø9.52 | ø9.52 | ø9.52 |
| | Gas mm | ø15.88 | ø15.88 | ø15.88 |
| Total pipe length | m | 80 | 80 | 80 |
| Max. Height difference | | 30 | 30 | 30 |
| Operation Range | Cooling °C | -5 to 46 | -5 to 46 | -5 to 46 |
| | Heating °C | -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.

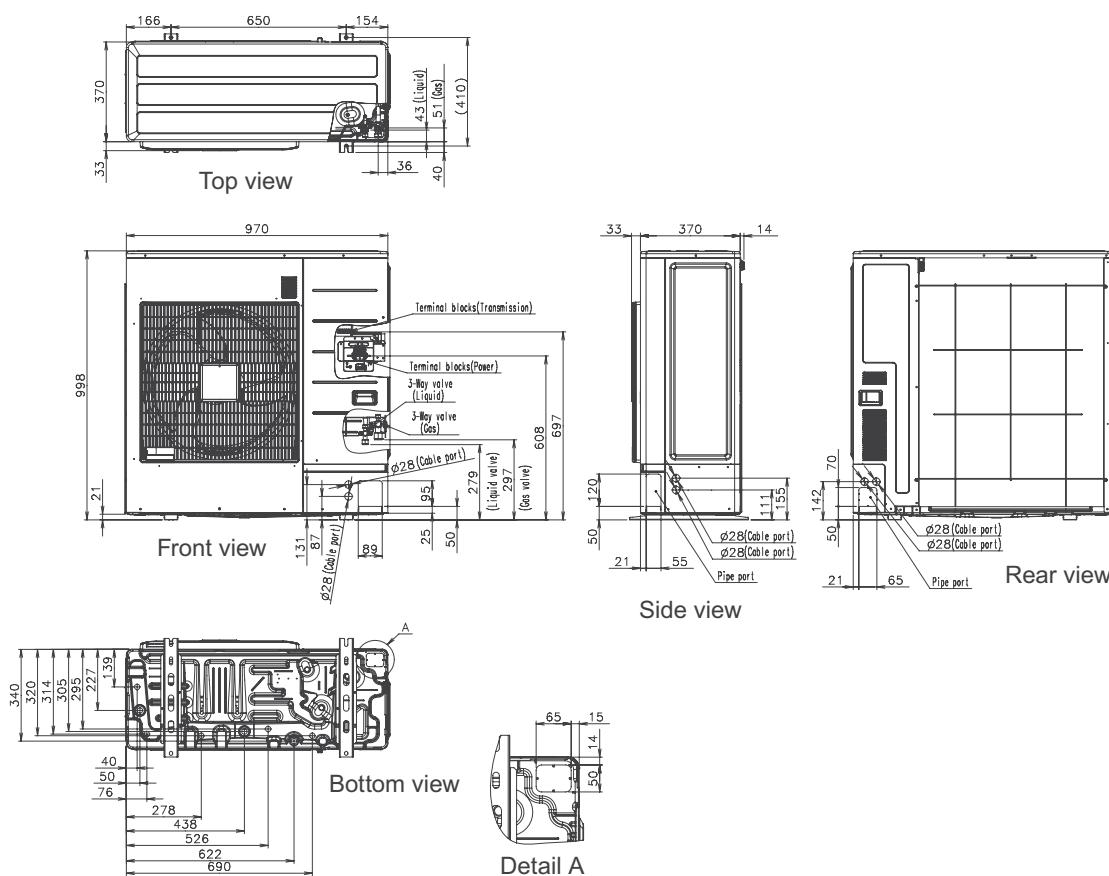
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

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

Dimensions

(Unit : mm)

Model : AJY040LCLAH / AJY045LCLAH / AJY054LCLAH



Heat pump : AJYA40LALH / AJYA45LALH / AJYA54LALH

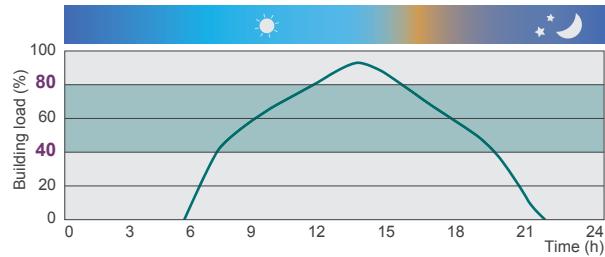
Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and stores to large houses.



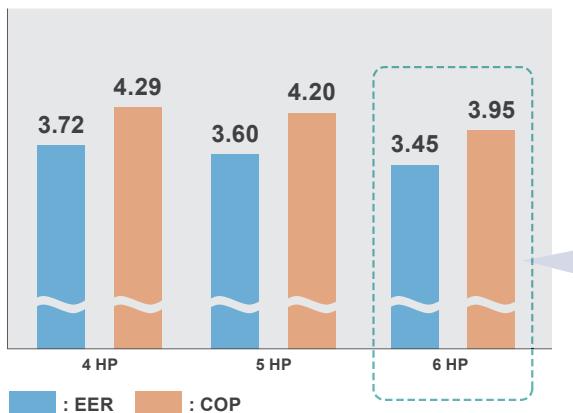
Features

The building load is in the range of 40 % to 80 %. Therefore, most air conditioners do not operate at maximum load, but operate at low to medium loads. Especially, for multi system, operation performance at partial load is important because air conditioners do not always operate at full load all the time. Aiming at energy saving performance matched to actual operation, Fujitsu General has developed a high performance air conditioner corresponding not only during the rated performance at 100 % load, but also at low to medium load

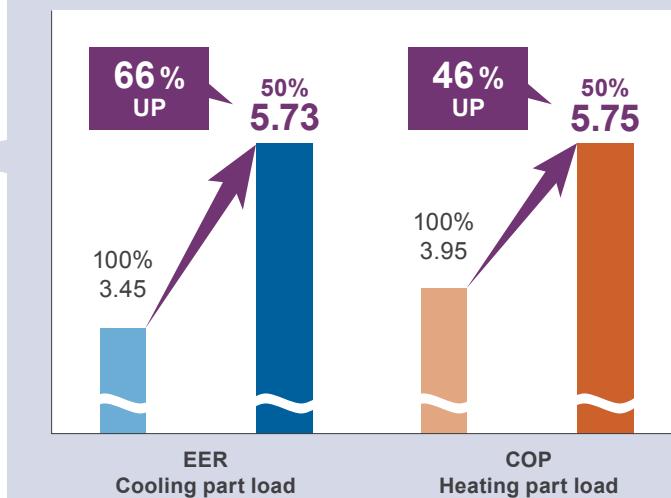
Load curve (a typical office building)



High EER / COP



High part load performance (6HP class)

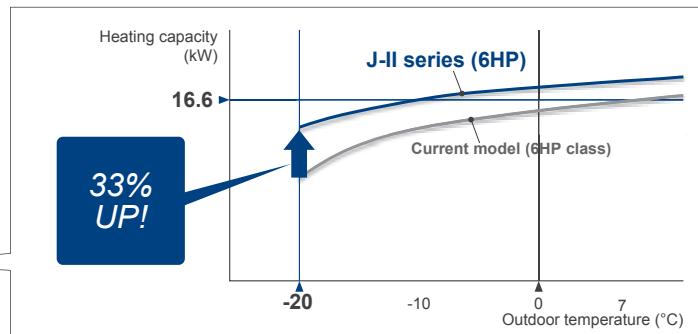


Conditions : Connected indoor units: AUXA30GALH+AUXD24GALH
 Cooling : indoor temp. of 27°CDB / 19°CWB, outdoor temp. of 35°CDB / 24°CWB
 Heating : indoor temp. of 20°CDB / 15°CWB, outdoor temp. of 7°CDB / 6°CWB

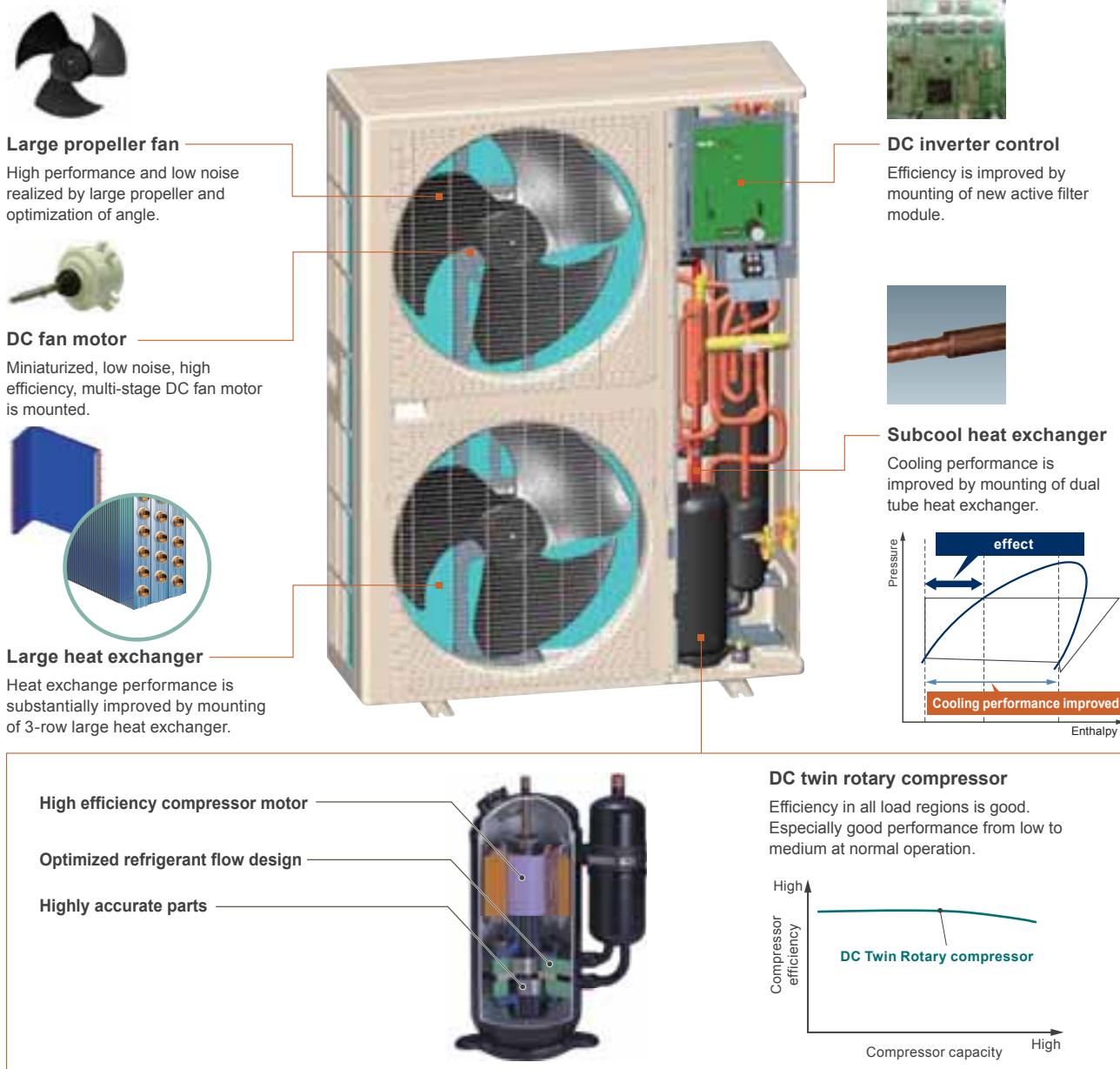
Features

Powerful Heating

Heating capacity is improved at low outdoor temperature by our advanced technology.



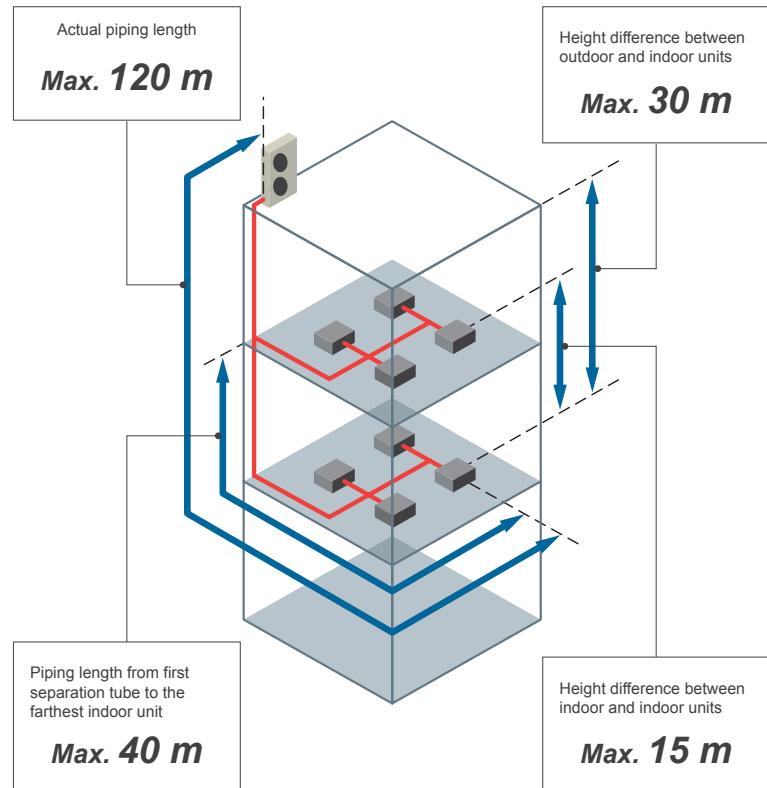
Advanced high efficiency technology



Features

Long Piping Length

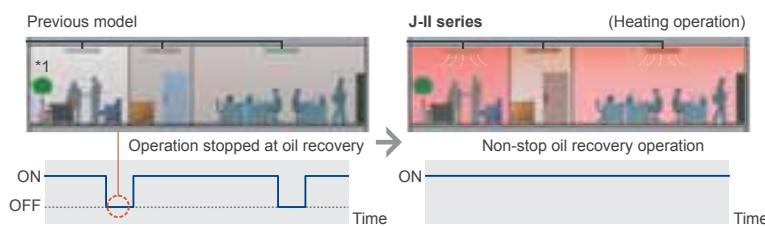
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 180 m. This opens up new possibilities in system design.

Total pipe length
Max. 180 m


More Comfort

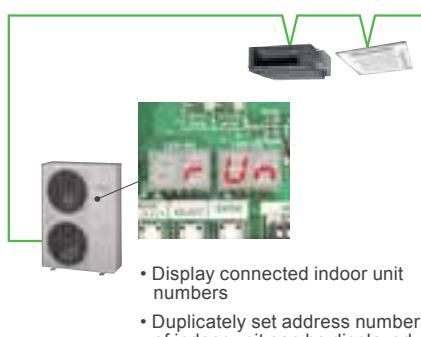
Non-stop oil recovery operation

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.



Specifications

| Rating Capacity range | HP | 4 | 5 | 6 |
|---------------------------------|----------------|------------|------------|------------|
| Model name | | AJYA40LALH | AJYA45LALH | AJYA54LALH |
| Maximum Connectable Indoor Unit | | 7 | 8 | 9 |
| Power source | V/Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 |
| Capacity | Cooling kW | 12.1 | 14.0 | 15.5 |
| | Heating kW | 13.6 | 16.0 | 18.0 |
| Input power | Cooling kW | 3.25 | 3.89 | 4.49 |
| | Heating kW | 3.17 | 3.81 | 4.56 |
| EER | Cooling W/W | 3.72 | 3.60 | 3.45 |
| COP | Heating W/W | 4.29 | 4.20 | 3.95 |
| Air flow rate | m³/h | 6,200 | 6,400 | 6,900 |
| Sound pressure level | Cooling dB (A) | 50 | 51 | 53 |
| | Heating dB (A) | 52 | 53 | 55 |
| Heat exchanger fin | | Blue fin | Blue fin | Blue fin |
| Dimensions | Height mm | 1,334 | 1,334 | 1,334 |
| | Width mm | 970 | 970 | 970 |
| | Depth mm | 370 | 370 | 370 |
| Weight | kg | 117 | 117 | 117 |
| Refrigerant charge | kg | 4.8 | 5.3 | 5.3 |
| Connection pipe diameter | Liquid mm | ø9.52 | ø9.52 | ø9.52 |
| | Gas mm | ø15.88 | ø15.88 | ø19.05 |
| Operation range | Cooling °C | -5 to 46 | -5 to 46 | -5 to 46 |
| | Heating °C | -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.

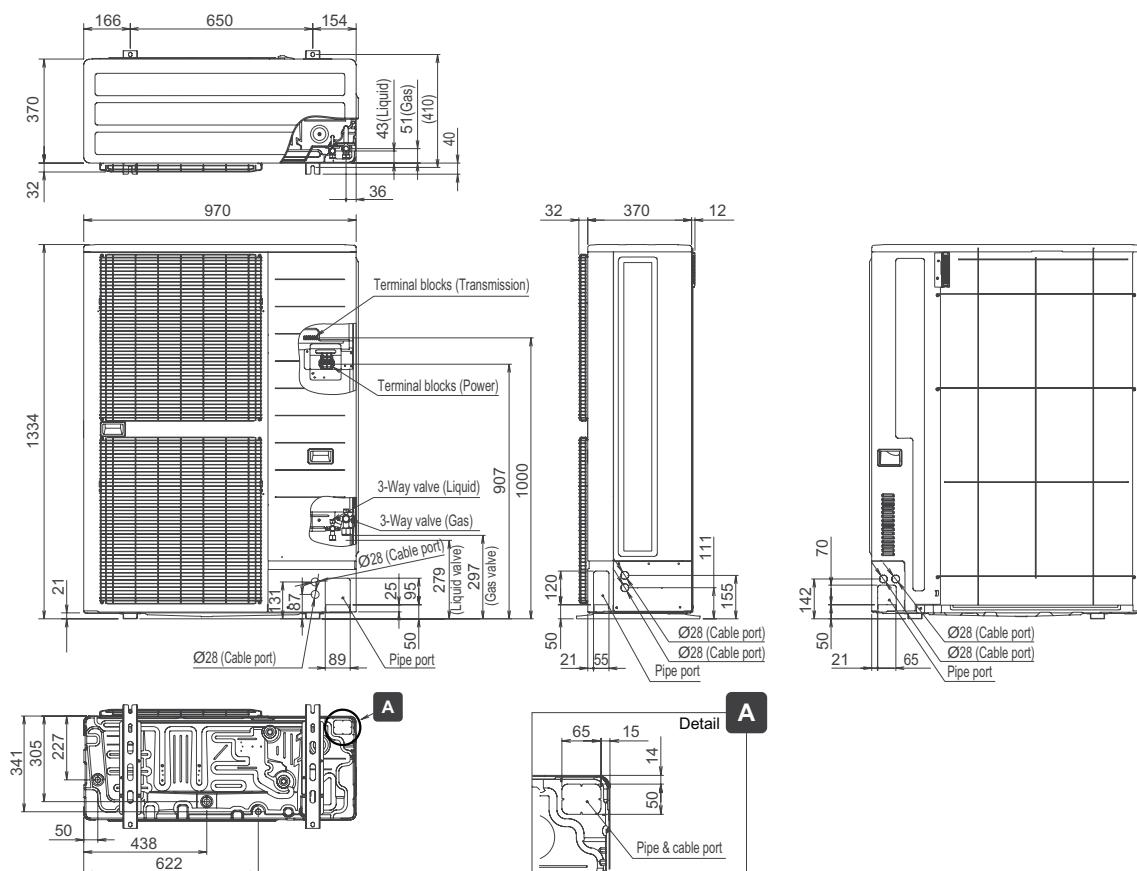
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

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

Dimensions

(Unit : mm)

Model : AJYA40LALH / AJYA45LALH / AJYA54LALH



Heat pump

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

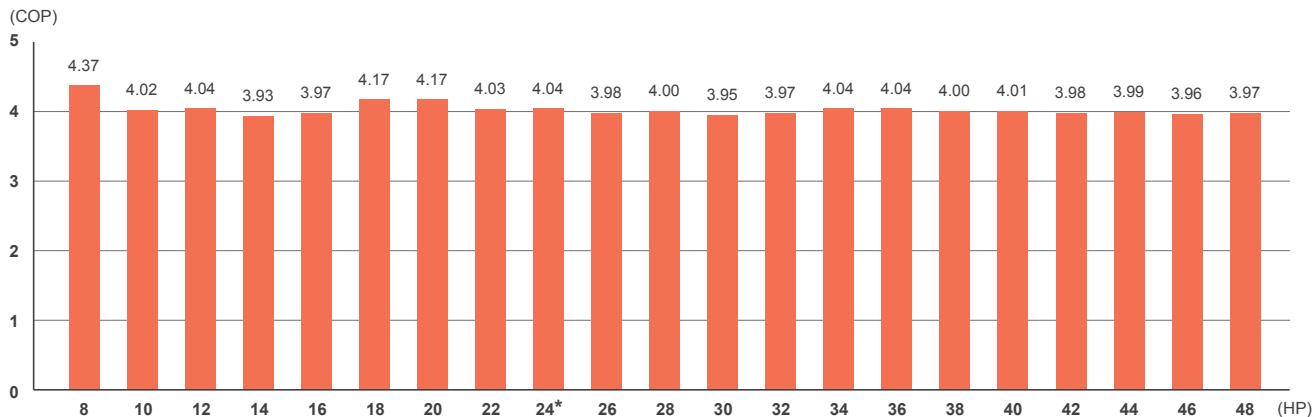


Features

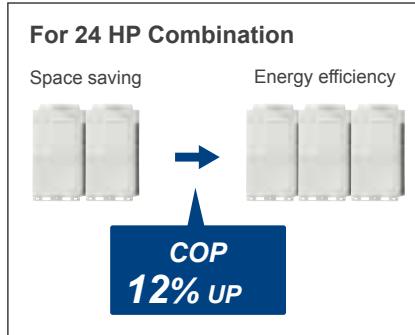
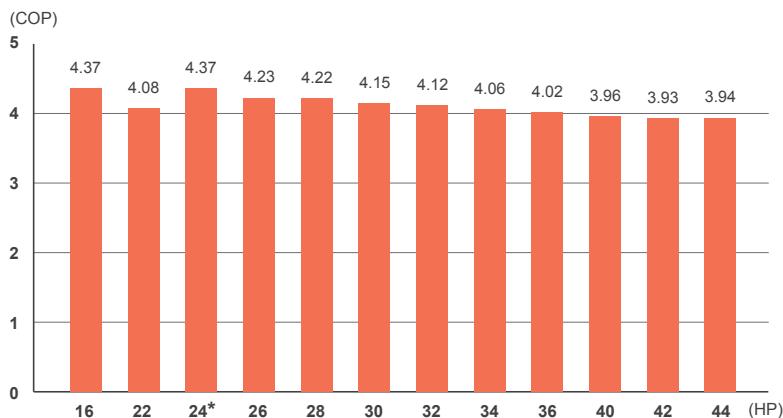
Efficiency in actual operation

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

Space saving combination

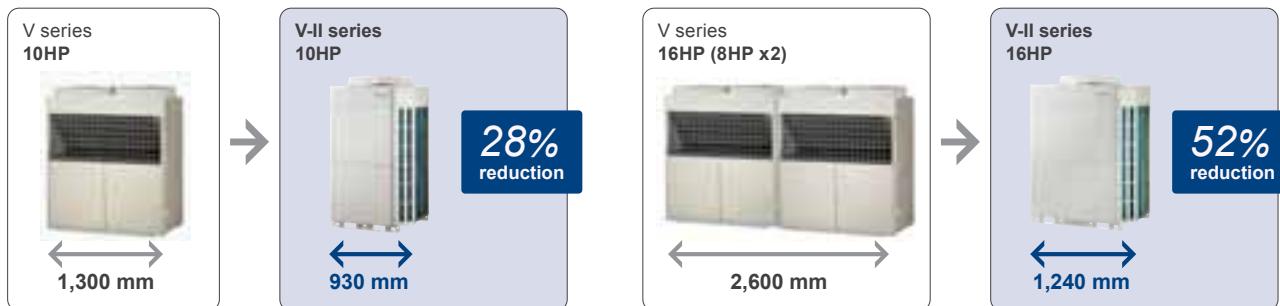


Energy efficiency combination

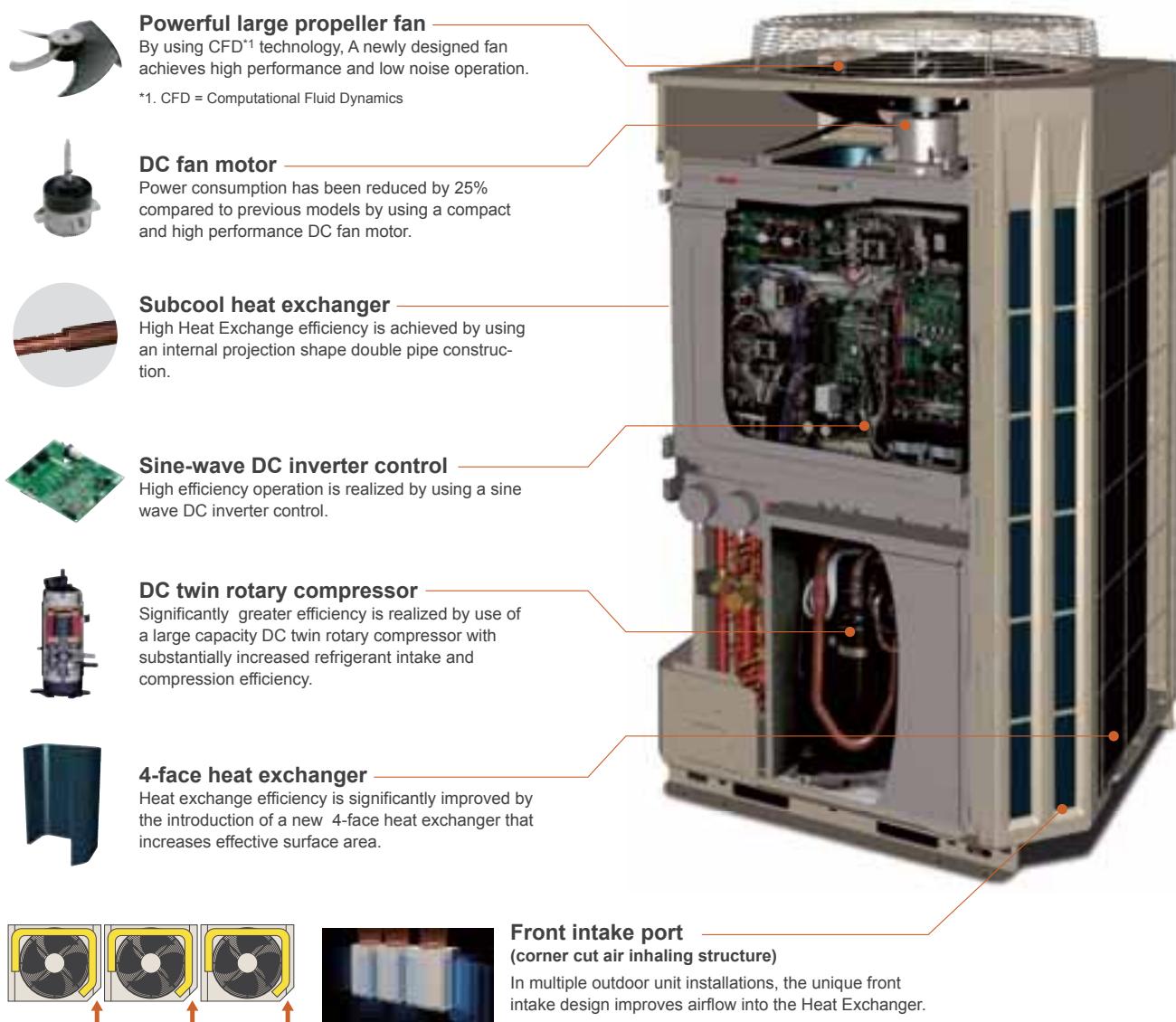


Space saving and compact size

Compact size has been achieved by significantly reducing the width of the outdoor units compared to previous models.



Energy saving technology that boosted operation efficiency

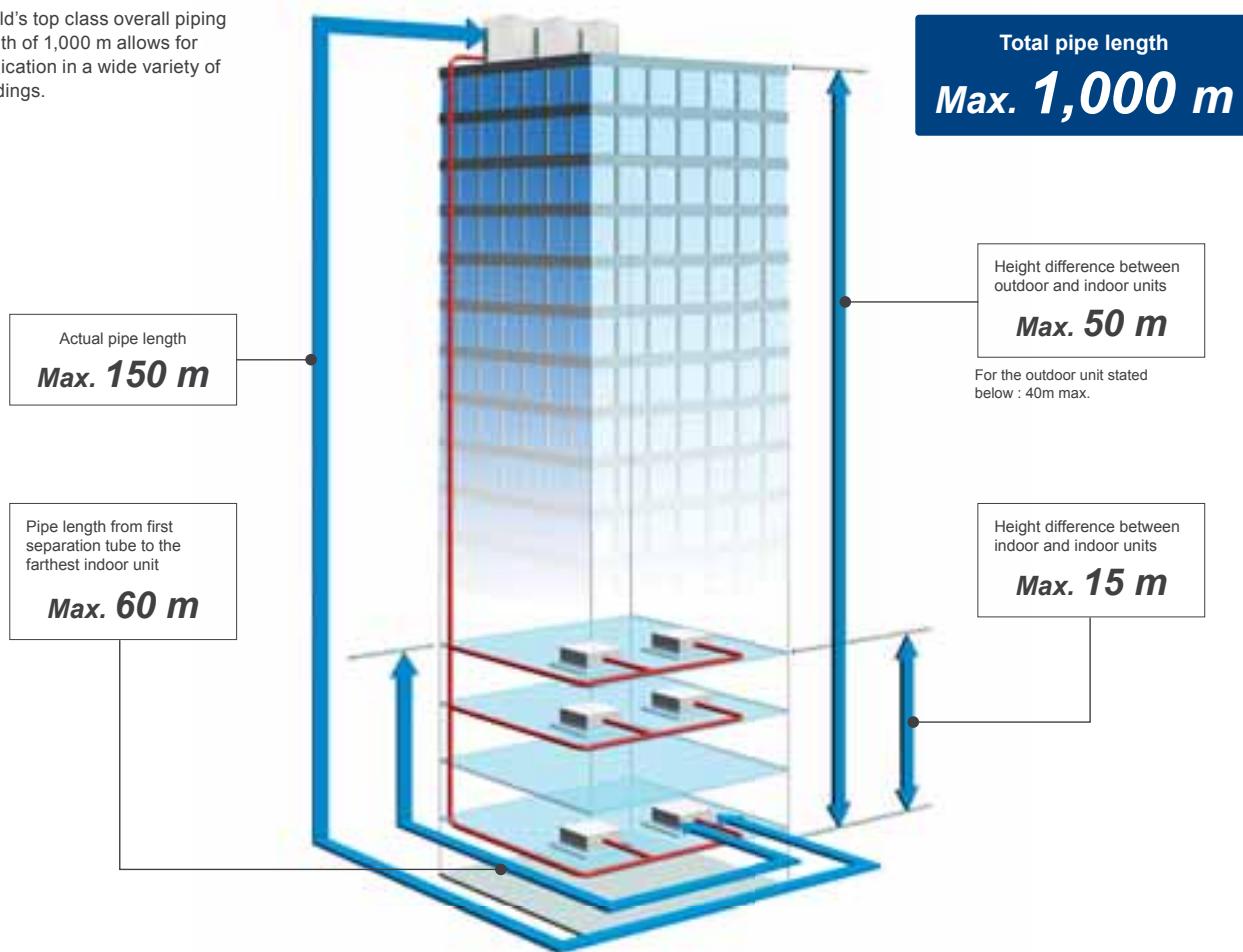


Features

Design Flexibility

Overall piping length 1,000 m

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



High static pressure of 80 Pa

The outdoor unit can have a condenser hood easily connected with a static pressure of 80Pa standard. This allows outdoor units to be installed within plant rooms in high rise buildings.

Powerful discharge with an external static pressure of 80 Pa.

80 Pa
as standard

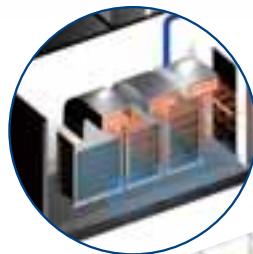
Previous model



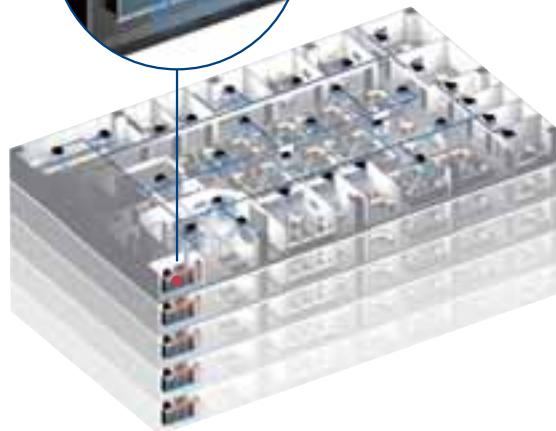
V-II series



Large diameter fan and DC motor has been utilized allowing an external static pressure of 80 Pa. This is approximately 2.6 times greater than the previous model.



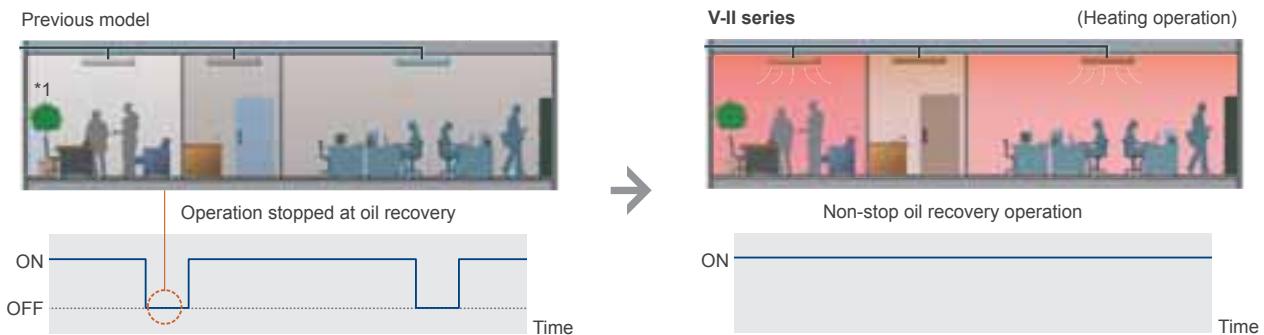
Installation Example



More Comfort

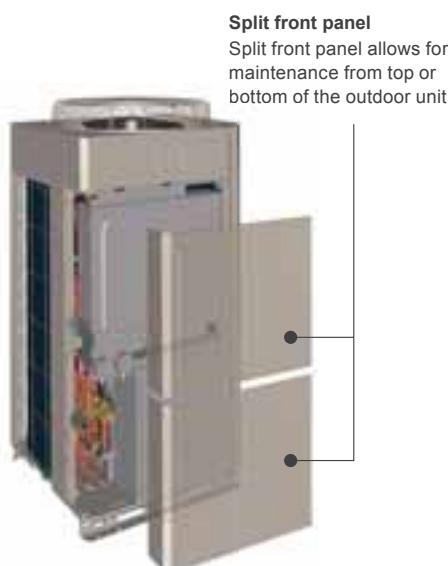
Non-stop oil recovery operation

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



Easy Service & Maintenance

Maintenance of electrical components, valves, and compressor parts from the front is possible.



Split front panel

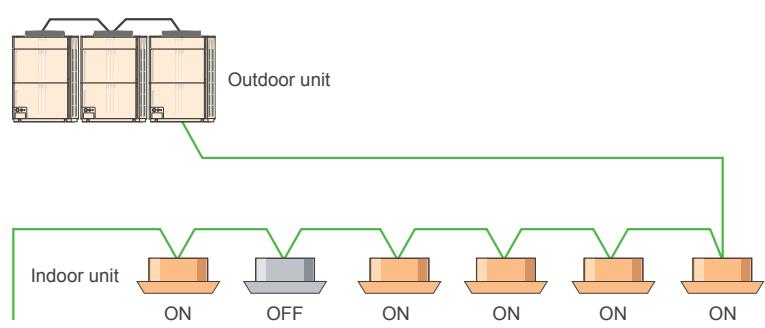
Split front panel allows for maintenance from top or bottom of the outdoor unit

Continuous operation during maintenance

Non-stop operation

When servicing a specific indoor unit, maintenance can be performed even without turning off the other indoor units.

*Note: VR-II Series and J-II Series are not available.



Outdoor units lineup

•Combinations other than the followings are not recommended.

Space saving combination

| 22.4 kW (8HP) | 28.0 kW (10HP) | 33.5 kW (12HP) | 40.0 kW (14HP) | 45.0 kW (16HP) |
|--|--|--|--|--|
| AJY172LALH UNIT : AJY172LALH | AJY190LALH UNIT : AJY190LALH | AJY108LALH UNIT : AJY108LALH | AJY126LALH UNIT : AJY126LALH | AJY144LALH UNIT : AJY144LALH |
| 50.4 kW (18HP) AJY162LALH UNIT : AJY162LALH | 55.9 kW (20HP) AJY180LALH UNIT : AJY180LALH | 61.5 kW (22HP) AJY198LALH UNIT : AJY198LALH | 67.0 kW (24HP) AJY216LALH UNIT : AJY216LALH | 73.5 kW (26HP) AJY234LALH UNIT : AJY234LALH |
| 78.5 kW (28HP) AJY252LALH UNIT : AJY252LALH | 85.0 kW (30HP) AJY270LALH UNIT : AJY270LALH | 90.0 kW (32HP) AJY288LALH UNIT : AJY288LALH | 95.0 kW (34HP) AJY306LALH UNIT : AJY306LALH | 100.5 kW (36HP) AJY324LALH UNIT : AJY324LALH |
| 107.0 kW (38HP) AJY342LALH UNIT : AJY342LALH | 112.0 kW (40HP) AJY360LALH UNIT : AJY360LALH | 118.5 kW (42HP) AJY378LALH UNIT : AJY378LALH | 123.5 kW (44HP) AJY396LALH UNIT : AJY396LALH | 130.0 kW (46HP) AJY414LALH UNIT : AJY414LALH |
| 135.0 kW (48HP) AJY432LALH UNIT : AJY432LALH | | | | |

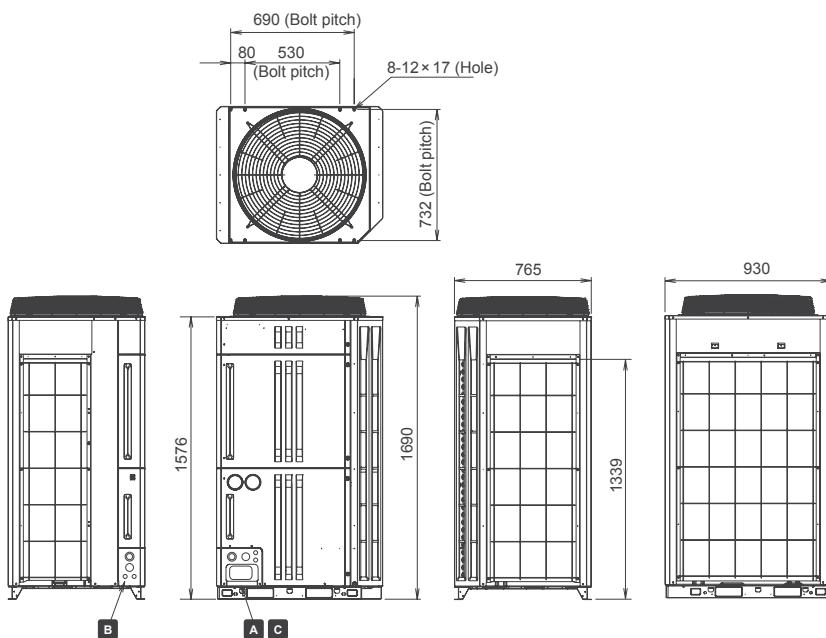
Energy efficiency combination

| 44.8 kW (16HP) | 62.4 kW (22HP) | 67.2 kW (24HP) | 72.8 kW (26HP) | 78.3 kW (28HP) |
|--|--|---|--|--|
| AJY144LALHH UNIT : AJY144LALHH | AJY198LALHH UNIT : AJY198LALHH | AJY216LALHH UNIT : AJY216LALHH | AJY234LALHH UNIT : AJY234LALHH | AJY252LALHH UNIT : AJY252LALHH |
| 84.8 kW (30HP) AJY270LALHH UNIT : AJY270LALHH | 89.8 kW (32HP) AJY288LALHH UNIT : AJY288LALHH | 95.9 kW (34HP) AJY306LALHH UNIT : AJY306LALHH | 102.4 kW (36HP) AJY324LALHH UNIT : AJY324LALHH | 113.5 kW (40HP) AJY360LALHH UNIT : AJY360LALHH |
| 120.0 kW (42HP) AJY378LALHH UNIT : AJY378LALHH | 125.0 kW (44HP) AJY396LALHH UNIT : AJY396LALHH | | | |

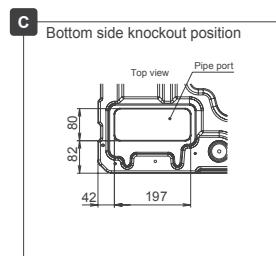
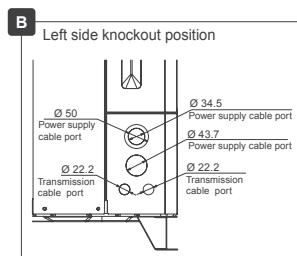
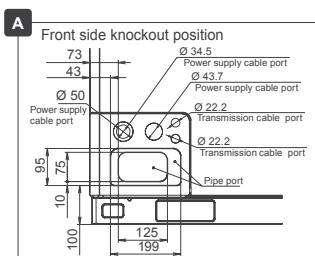
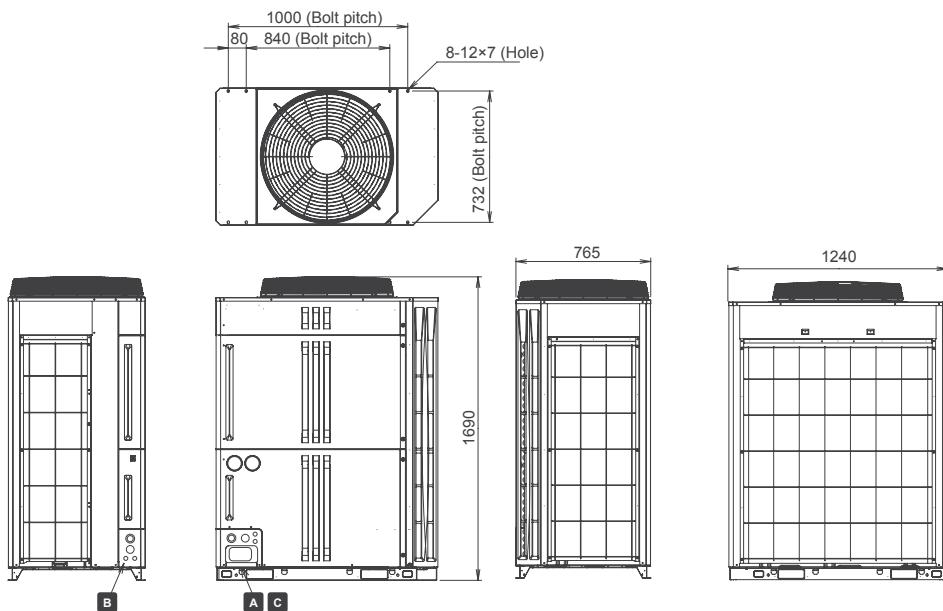
Dimensions

(Unit : mm)

8,10,12HP : AJYA72LALH / AJYA90LALH / AJY108LALH



14,16HP : AJY126LALH / AJY144LALH



Outdoor units specifications

Space Saving Combination

| Rating Capacity range | HP | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
|-----------------------------------|----------------|-----------------------------|-------------|-------------|-------------|-------------|-------------|---------------|---------------|-------------------|
| | | | | | | | | | | |
| Model name | | AJY-A72LALH | AJY-A90LALH | AJY-108LALH | AJY-126LALH | AJY-144LALH | AJY-162LALH | AJY-180LALH | AJY-198LALH | AJY-216LALH |
| Unit 1 | | AJY-A72LALH | AJY-A90LALH | AJY-108LALH | AJY-126LALH | AJY-144LALH | AJY-A90LALH | AJY-108LALH | AJY-108LALH | AJY-108LALH |
| Unit 2 | | | | | | | AJY-A72LALH | AJY-A72LALH | | |
| Unit 3 | | | | | | | | AJY-A90LALH | AJY-108LALH | |
| Maximum Connectable Indoor Unit*1 | | 15 | 16 | 17 | 21 | 24 | 32 | 32 | 32 | 35 |
| Indoor unit connectable capacity | Cooling 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 | 28.0-83.8 | 30.8-92.2 | 33.5-100.5 |
| Power source | | 3-phase 4 wire, 400 V, 50Hz | | | | | | | | |
| Capacity | Cooling kW | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.4 | 55.9 | 61.5 | 67.0 |
| | Heating kW | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 56.5 | 62.5 | 69.0 | 75.0 |
| Input power | Cooling kW | 5.51 | 7.73 | 9.62 | 11.53 | 14.17 | 13.24 | 15.13 | 17.35 | 19.24 |
| | Heating kW | 5.72 | 7.83 | 9.28 | 11.45 | 12.60 | 13.55 | 15.00 | 17.11 | 18.56 |
| EER | Cooling W/W | 4.07 | 3.62 | 3.48 | 3.47 | 3.18 | 3.81 | 3.69 | 3.54 | 3.48 |
| COP | Heating W/W | 4.37 | 4.02 | 4.04 | 3.93 | 3.97 | 4.17 | 4.17 | 4.03 | 4.04 |
| Air flow rate | High m³/h | 11,100 | 11,100 | 11,100 | 13,000 | 13,000 | 11,100 x 2 | 11,100 x 2 | 11,100 x 2 | 11,100 x 2 |
| Sound pressure level*2 | Cooling dB (A) | 56 | 58 | 58 | 60 | 61 | 60 | 60 | 61 | 61 |
| | Heating dB (A) | 58 | 59 | 60 | 61 | 61 | 62 | 62 | 63 | 63 |
| Maximum external static pressure | Pa | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Compressor motor output | kW | 3.9 | 3.9 | 3.9 + 4.5 | 3.9 + 4.5 | 3.9 + 4.5 | 3.9 x 2 | 3.9 x 2 + 4.5 | 3.9 x 2 + 4.5 | 3.9 x 2 + 4.5 x 2 |
| Heat exchanger fin | | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| Dimensions | Height mm | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| | Width mm | 930 | 930 | 930 | 1,240 | 1,240 | 930 x 2 | 930 x 2 | 930 x 2 | 930 x 2 |
| | Depth mm | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | kg | 220 | 220 | 275 | 303 | 303 | 220 + 220 | 275 + 220 | 275 + 220 | 275 + 275 |
| Refrigerant charge | kg | 11.2 | 11.2 | 11.8 | 11.8 | 11.8 | 11.2 x 2 | 11.8 + 11.2 | 11.8 + 11.2 | 11.8 x 2 |
| Connection pipe diameter | Liquid mm | 12.70 | 12.70 | 12.70 | 12.70 | 12.70 | 15.88 | 15.88 | 15.88 | 15.88 |
| | Gas mm | 22.22 | 22.22 | 28.58 | 28.58 | 28.58 | 28.58 | 34.92 | 34.92 | 34.92 |
| Operation range | Cooling °C | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -15 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 |
| | Heating °C | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |

Energy Efficiency Combination

| Rating Capacity range | HP | 16 | 22 | 24 | 26 | 28 | 30 |
|-----------------------------------|----------------|-----------------------------|-----------------|-----------------|-----------------|-----------------|---------------------|
| | | | | | | | |
| Model name | | AJY-144LALHH | AJY-198LALHH | AJY-216LALHH | AJY-234LALHH | AJY-252LALHH | AJY-270LALHH |
| Unit 1 | | AJY-A72LALH | AJY-126LALH | AJY-A72LALH | AJY-A90LALH | AJY-108LALH | AJY-126LALH |
| Unit 2 | | | | AJY-A72LALH | AJY-A72LALH | AJY-A72LALH | AJY-A72LALH |
| Unit 3 | | | | AJY-A72LALH | AJY-A72LALH | AJY-A72LALH | AJY-A72LALH |
| Maximum Connectable Indoor Unit*1 | | 30 | 33 | 36 | 39 | 42 | 45 |
| Indoor unit connectable capacity | Cooling kW | 22.4-67.2 | 31.2-93.6 | 33.6-100.8 | 36.4-109.2 | 39.2-117.4 | 42.4-127.2 |
| Power source | | 3-phase 4 wire, 400 V, 50Hz | | | | | |
| Capacity | Cooling kW | 44.8 | 62.4 | 67.2 | 72.8 | 78.3 | 84.8 |
| | Heating kW | 50.0 | 70.0 | 75.0 | 81.5 | 87.5 | 95.0 |
| Input power | Cooling kW | 11.02 | 17.04 | 16.53 | 18.75 | 20.64 | 22.55 |
| | Heating kW | 11.44 | 17.17 | 17.16 | 19.27 | 20.72 | 22.89 |
| EER | Cooling W/W | 4.07 | 3.66 | 4.07 | 3.88 | 3.79 | 3.76 |
| COP | Heating W/W | 4.37 | 4.08 | 4.37 | 4.23 | 4.22 | 4.15 |
| Air flow rate | High m³/h | 11,100 x 2 | 13,000 + 11,100 | 11,100 x 3 | 11,100 x 3 | 11,100 x 3 | 13,000 + 11,000 x 2 |
| Sound pressure level*2 | Cooling dB (A) | 59 | 61 | 61 | 62 | 62 | 63 |
| | Heating dB (A) | 59 | 62 | 61 | 62 | 63 | 63 |
| Maximum external static pressure | Pa | 80 | 80 | 80 | 80 | 80 | 80 |
| Compressor motor output | kW | 3.9 x 2 | 3.9 x 2 + 4.5 | 3.9 x 3 | 3.9 x 3 | 3.9 x 3 + 4.5 | 3.9 x 3 + 4.5 |
| Heat exchanger fin | | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| Dimensions | Height mm | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| | Width mm | 930 x 2 | 930 + 1,240 | 930 x 3 | 930 x 3 | 930 x 3 | 930 x 2 + 1,240 |
| | Depth mm | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | kg | 220 + 220 | 303 + 220 | 220 + 220 + 220 | 220 + 220 + 220 | 275 + 220 + 220 | 303 + 220 + 220 |
| Refrigerant charge | kg | 11.2 x 2 | 11.8 + 11.2 | 11.2 x 3 | 11.2 x 3 | 11.8 + 11.2 x 2 | 11.8 + 11.2 x 2 |
| Connection pipe diameter | Liquid mm | 12.70 | 15.88 | 15.88 | 15.88 | 15.88 | 19.05 |
| | Gas mm | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 |
| Operation range | Cooling °C | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 |
| | Heating °C | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |

Note : Specifications are based on the following conditions.

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

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

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

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.

| 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
|-----------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| | | | | | | | | | | | |
| AJY234LALH | AJY252LALH | AJY270LALH | AJY288LALH | AJY306LALH | AJY324LALH | AJY342LALH | AJY360LALH | AJY378LALH | AJY396LALH | AJY414LALH | AJY432LALH |
| AJY126LALH AJY108LALH | AJY144LALH AJY108LALH | AJY144LALH AJY126LALH | AJY144LALH AJY144LALH | AJY108LALH AJY108LALH | AJY108LALH AJY108LALH | AJY126LALH AJY108LALH | AJY144LALH AJY108LALH | AJY144LALH AJY108LALH | AJY144LALH AJY108LALH | AJY144LALH AJY108LALH | AJY144LALH AJY144LALH |
| 39 | 42 | 45 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 | 48 |
| 36.8-110.2 | 39.3-117.7 | 42.5-127.5 | 45.0-135.0 | 47.5-142.5 | 50.3-150.7 | 53.5-160.5 | 56.0-168.0 | 59.3-177.7 | 61.8-185.2 | 65.0-195.0 | 67.5-202.5 |
| 3-phase 4 wire, 400 V, 50Hz | | | | | | | | | | | |
| 73.5 | 78.5 | 85.0 | 90.0 | 95.0 | 100.5 | 107.0 | 112.0 | 118.5 | 123.5 | 130.0 | 135.0 |
| 82.5 | 87.5 | 95.0 | 100.0 | 106.5 | 112.5 | 120.0 | 125.0 | 132.5 | 137.5 | 145.0 | 150.0 |
| 21.15 | 23.79 | 25.70 | 28.34 | 26.97 | 28.86 | 30.77 | 33.41 | 35.32 | 37.96 | 39.87 | 42.51 |
| 20.73 | 21.88 | 24.05 | 25.20 | 26.39 | 27.84 | 30.01 | 31.16 | 33.33 | 34.48 | 36.65 | 37.80 |
| 3.48 | 3.30 | 3.31 | 3.18 | 3.52 | 3.48 | 3.48 | 3.35 | 3.36 | 3.25 | 3.26 | 3.18 |
| 3.98 | 4.00 | 3.95 | 3.97 | 4.04 | 4.04 | 4.00 | 4.01 | 3.98 | 3.99 | 3.96 | 3.97 |
| 13,000 + 11,100 | 13,000 + 11,100 | 13,000 x 2 | 13,000 x 2 | 11,100 x 3 | 11,100 x 3 | 13,000 + 11,100 x 2 | 13,000 + 11,100 x 2 | 13,000 x 2 + 11,100 | 13,000 x 2 + 11,100 | 13,000 x 3 | 13,000 x 3 |
| 62 | 63 | 64 | 64 | 63 | 63 | 64 | 64 | 65 | 65 | 65 | 66 |
| 64 | 64 | 64 | 64 | 64 | 65 | 65 | 65 | 65 | 66 | 66 | 66 |
| 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| 3.9 x 2 + 4.5 x 2 | 3.9 x 2 + 4.5 x 2 | 3.9 x 2 + 4.5 x 2 | 3.9 x 2 + 4.5 x 2 | 3.9 x 3 + 4.5 x 2 | 3.9 x 3 + 4.5 x 3 |
| Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| 930 + 1,240 | 930 + 1,240 | 1,240 x 2 | 1,240 x 2 | 930 x 3 | 930 x 3 | 930 x 2 + 1,240 | 930 x 2 + 1,240 | 930 + 1,240 x 2 | 930 + 1,240 x 2 | 1,240 x 3 | 1,240 x 3 |
| 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| 303 + 275 | 303 + 275 | 303 + 303 | 296 + 296 | 275 + 275 + 220 | 275 + 275 + 275 | 303 + 275 + 275 | 303 + 275 + 275 | 303 + 303 + 275 | 303 + 303 + 275 | 303 + 303 + 303 | 303 + 303 + 303 |
| 11.8 x 2 | 11.8 x 2 | 11.8 x 2 | 11.8 x 2 | 11.8 x 2 + 11.2 | 11.8 x 3 |
| 15.88 | 15.88 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 |
| 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 |
| -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 | -5 to 46 |
| -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |

| 32 | 34 | 36 | 40 | 42 | 44 |
|--|--|--|--|--|--|
| | | | | | |
| AJY288LALHH | AJY306LALHH | AJY324LALHH | AJY360LALHH | AJY378LALHH | AJY396LALHH |
| AJY108LALH AJY108LALH AJY108LALH | AJY126LALH AJY126LALH AJY126LALH | AJY126LALH AJY126LALH AJY126LALH | AJY126LALH AJY126LALH AJY126LALH | AJY126LALH AJY126LALH AJY126LALH | AJY144LALH AJY144LALH AJY144LALH |
| 48 | 48 | 48 | 48 | 48 | 48 |
| 44.7-134.1 | 48.0-143.8 | 51.2-153.6 | 56.8-170.2 | 60.0-180.0 | 62.5-187.5 |
| 3-phase 4 wire, 400 V, 50Hz | | | | | |
| 89.4 | 95.9 | 102.4 | 113.5 | 120.0 | 125.0 |
| 100.0 | 107.5 | 115.0 | 127.5 | 135.0 | 140.0 |
| 24.75 | 26.66 | 28.57 | 32.68 | 34.59 | 37.23 |
| 24.28 | 26.45 | 28.62 | 32.18 | 34.35 | 35.50 |
| 3.61 | 3.60 | 3.58 | 3.47 | 3.47 | 3.36 |
| 4.12 | 4.06 | 4.02 | 3.96 | 3.93 | 3.94 |
| 11,100 x 3 | 13,000 + 11,100 x 2 | 13,000 x 2 + 11,100 | 13,000 x 2 + 11,100 | 13,000 x 3 | 13,000 x 3 |
| 62 | 63 | 64 | 64 | 65 | 65 |
| 64 | 64 | 65 | 65 | 66 | 66 |
| 80 | 80 | 80 | 80 | 80 | 80 |
| 3.9 x 3 + 4.5 x 2 | 3.9 x 3 + 4.5 x 2 | 3.9 x 3 + 4.5 x 2 | 3.9 x 3 + 4.5 x 3 | 3.9 x 3 + 4.5 x 3 | 3.9 x 3 + 4.5 x 3 |
| Blue fin |
| 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| 930 x 3 | 930 x 2 + 1,240 | 930 + 1,240 x 2 | 930 + 1,240 x 2 | 1,240 x 3 | 1,240 x 3 |
| 765 | 765 | 765 | 765 | 765 | 765 |
| 275 + 275 + 220 | 303 + 275 + 220 | 303 + 303 + 220 | 303 + 303 + 275 | 303 + 303 + 303 | 303 + 303 + 303 |
| 11.8 x 2 + 11.2 | 11.8 x 2 + 11.2 | 11.8 x 2 + 11.2 | 11.8 x 3 | 11.8 x 3 | 11.8 x 3 |
| 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 |
| 34.92 | 34.92 | 41.27 | 41.27 | 41.27 | 41.27 |
| -5 to 46 |
| -20 to 21 |

*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.

NEW Heat Recovery

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



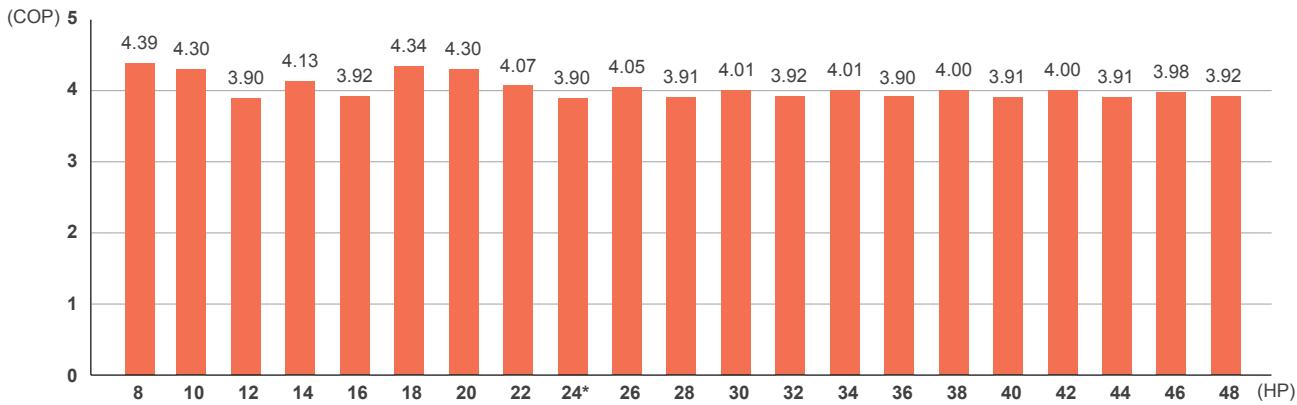
Features

High Efficiency

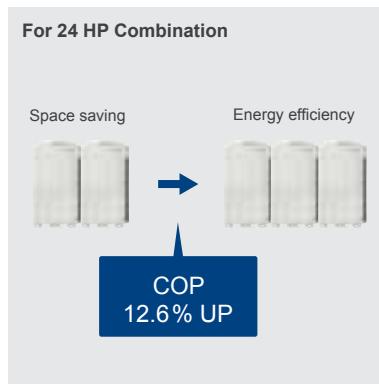
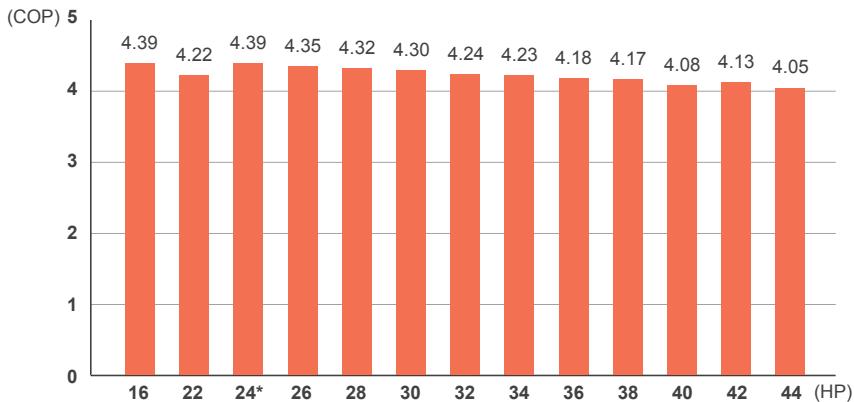
Efficiency in actual operation

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

Space saving combination



Energy efficiency combination



Energy saving technology that boosted operation efficiency



Powerful large propeller fan

By using CFD¹ technology, a newly designed fan achieves high performance and low noise operation.

*1. CFD = Computational Fluid Dynamics



3 phase DC fan motor

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



Subcool heat exchanger

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



Sine-wave DC inverter control

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



High efficient compressor

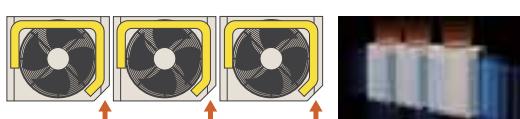
Large capacity DC inverter compressor

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



4-face heat exchanger

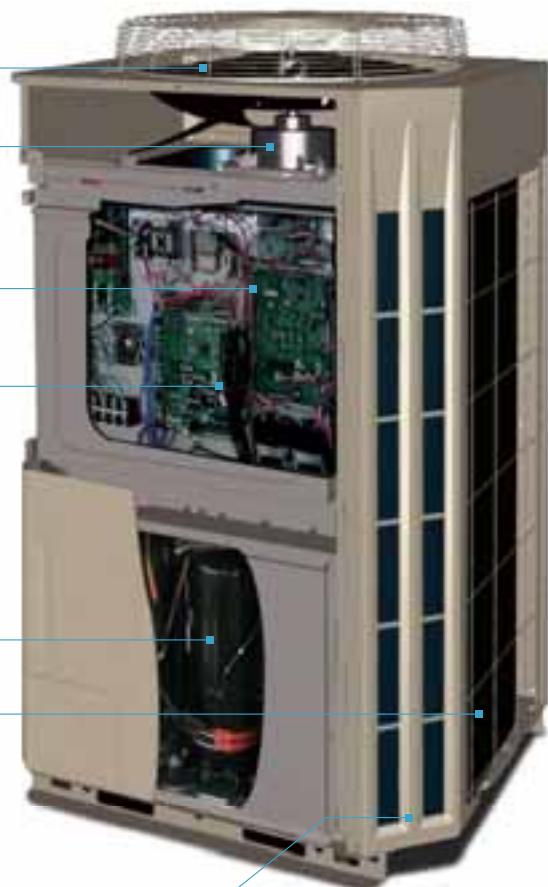
Heat exchange efficiency is significantly improved by the introduction of a new 4-face heat exchanger that increases effective surface area.



Front intake port

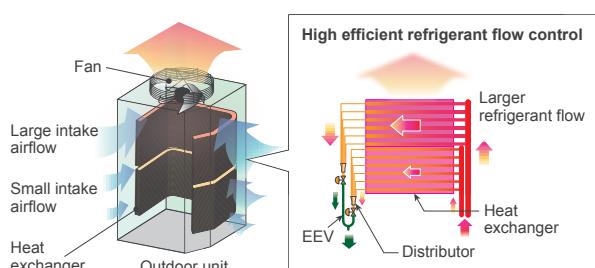
(corner cut air inhaling structure)

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



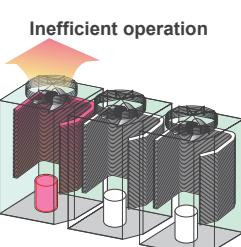
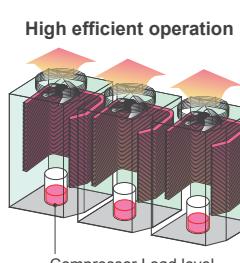
Ideal heat exchanger path control

Heat exchanger is split into top and bottom. Heat exchange efficiency is improved by optimum heat exchanger path refrigerant control. Refrigerant is more distributed at the top side heat exchanger with a large intake airflow.



Sophisticated operation control

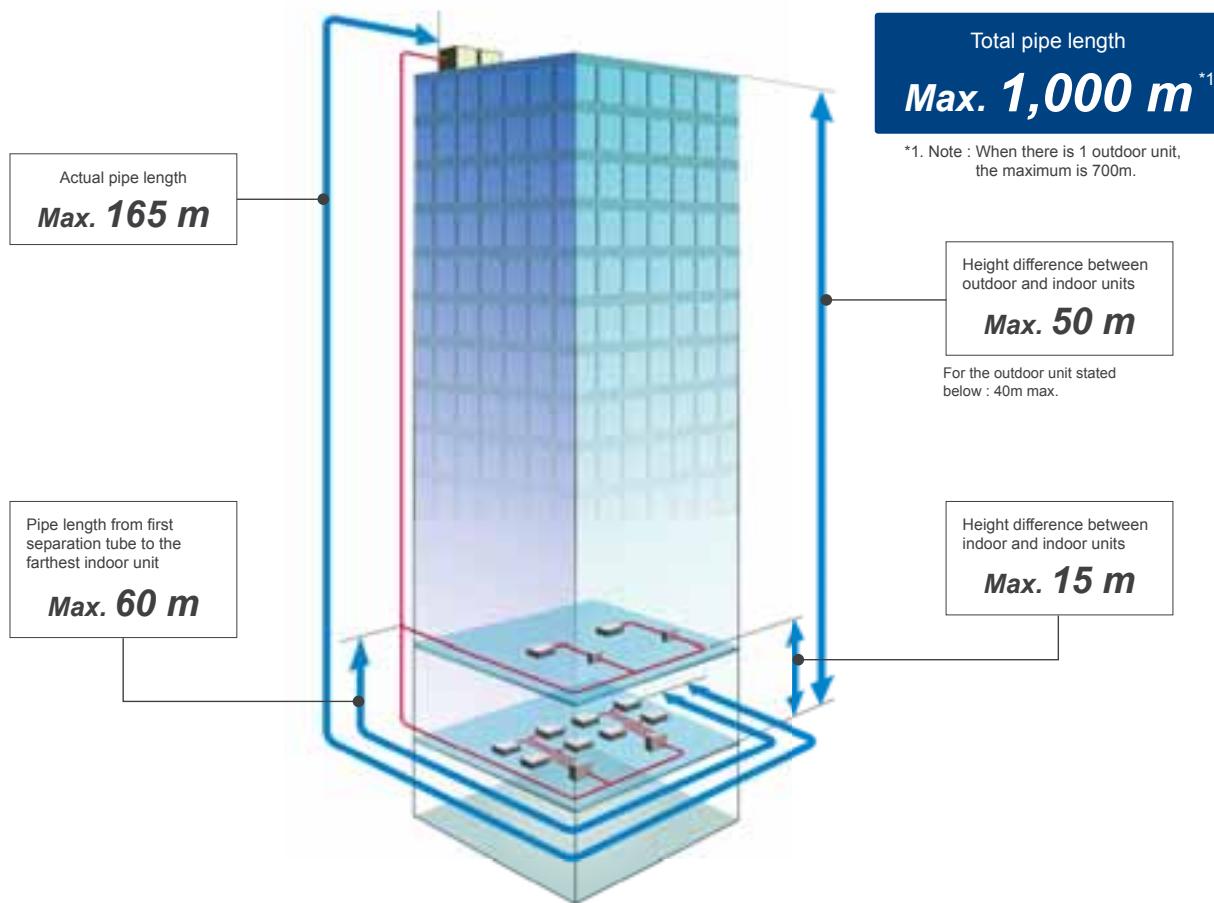
When multiple outdoor units are connected, sophisticated operation is performed by each compressor. Efficiency is improved by all compressors at part load and distributing refrigerant to all of the heat exchangers rather than to one compressor.



Features

Design Flexibility

Overall piping length 1,000 m



High static pressure of 80Pa

Large diameter fan and 3 phase DC motor has been utilized allowing an external static pressure of 80 Pa. This allows outdoor units to be installed on balconies, etc. on each floor in high rise buildings.

Powerful discharge with an external static pressure of 80 Pa.

80 Pa
as standard

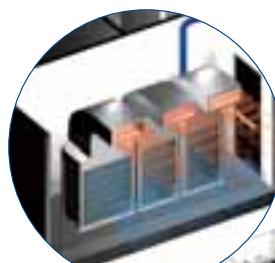
Previous model



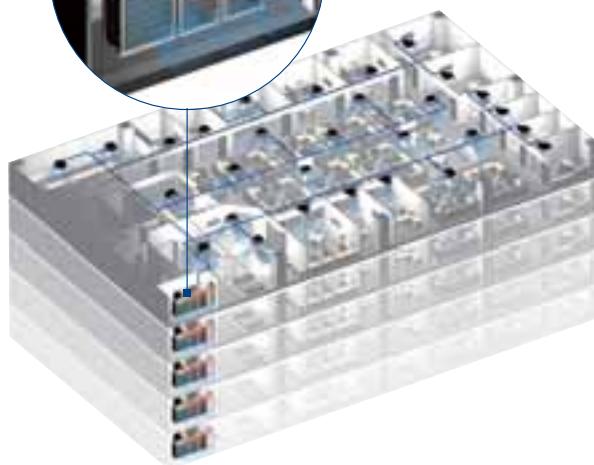
V-II series



Large diameter fan and DC motor has been utilized allowing an external static pressure of 80Pa. This is approximately 2.6 times greater than the previous model.

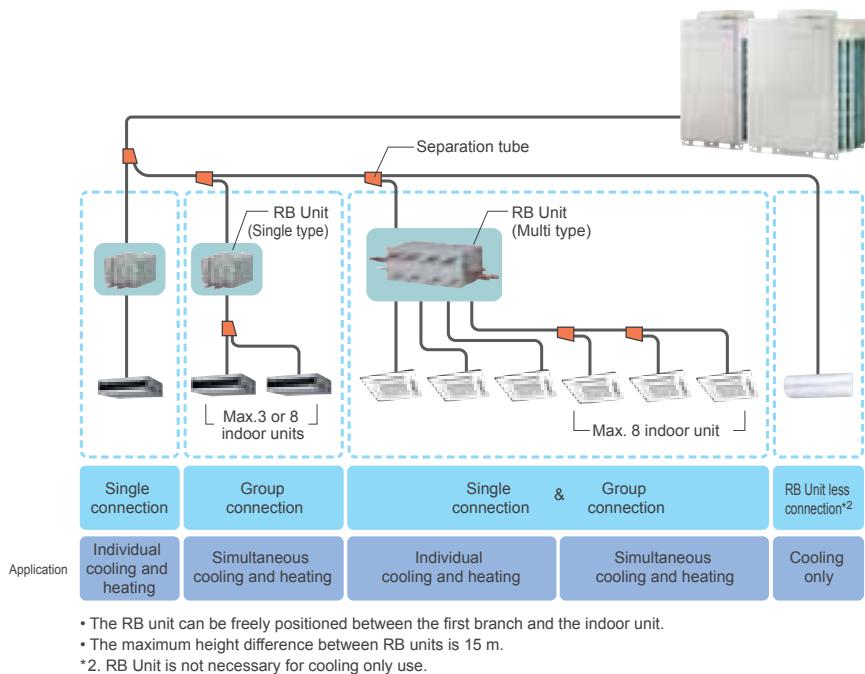


Installation Example



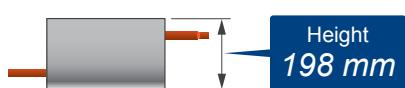
Flexible piping connection

A more flexible refrigerant piping work is possible by the use of various piping and RB Unit connections, for adjustments to the floor layout and building structure.



Easy Installation & Maintenance

Flexible installation of RB unit



- Small & slim design saves space
- A drain pipe is not required
- The control box position can be changed to meet the installation conditions

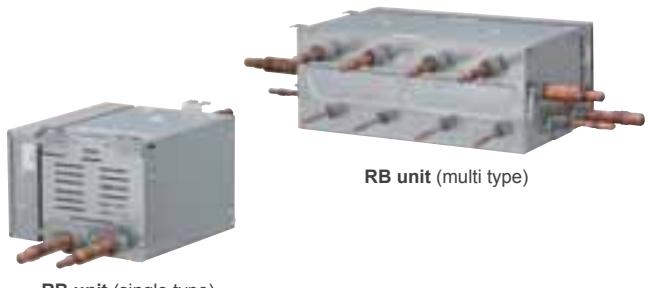
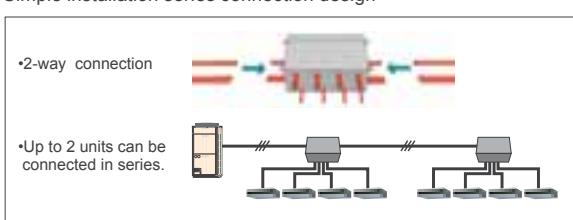


Installation possible from either side for freedom of the control box



Installation possible on the upper-side for use in narrow space

- Small design saves space
- A drain pipe is not required
- Simple installation series connection design



RB unit (single type)

RB unit (multi type)

Easy to maintenance in a narrow space

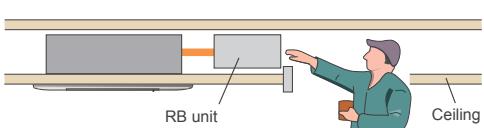


- Maintenance can be performed from the side.



- Electric box can be temporarily fixed by sliding down.

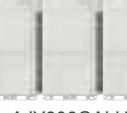
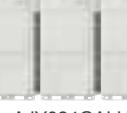
- Parts can be replaced easily even at narrow space in the ceiling.



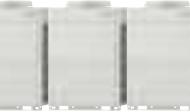
Outdoor units lineup

•Combinations other than the followings are not recommended.

Space saving combination

| 22.4 kW (8HP) | 28.0 kW (10HP) | 33.5 kW (12HP) | 40.0 kW (14HP) | 45.0 kW (16HP) |
|--|--|--|---|--|
|  AJY72GALH UNIT : AJYA72GALH |  AJY90GALH UNIT : AJYA90GALH |  AJY108GALH UNIT : AJY108GALH |  AJY126GALH UNIT : AJY126GALH |  AJY144GALH UNIT : AJY144GALH |
|  AJY162GALH UNIT : AJYA90/A72GALH |  AJY180GALH UNIT : AJYA90/A90GALH |  AJY198GALH UNIT : AJY108/A90GALH |  AJY216GALH UNIT : AJY108/108GALH |  AJY234GALH UNIT : AJY144/A90GALH |
|  AJY252GALH UNIT : AJY144/108GALH |  AJY270GALH UNIT : AJY144/126GALH |  AJY288GALH UNIT : AJY144/144GALH |  AJY306GALH UNIT : AJY108/108/A90GALH |  AJY324GALH UNIT : AJY108/108/108GALH |
|  AJY342GALH UNIT : AJY144/108/A90GALH |  AJY360GALH UNIT : AJY144/108/108GALH |  AJY378GALH UNIT : AJY144/144/A90GALH |  AJY396GALH UNIT : AJY144/144/108GALH |  AJY414GALH UNIT : AJY144/144/126GALH |
|  AJY432GALH UNIT : AJY144/144/144GALH | | | | |

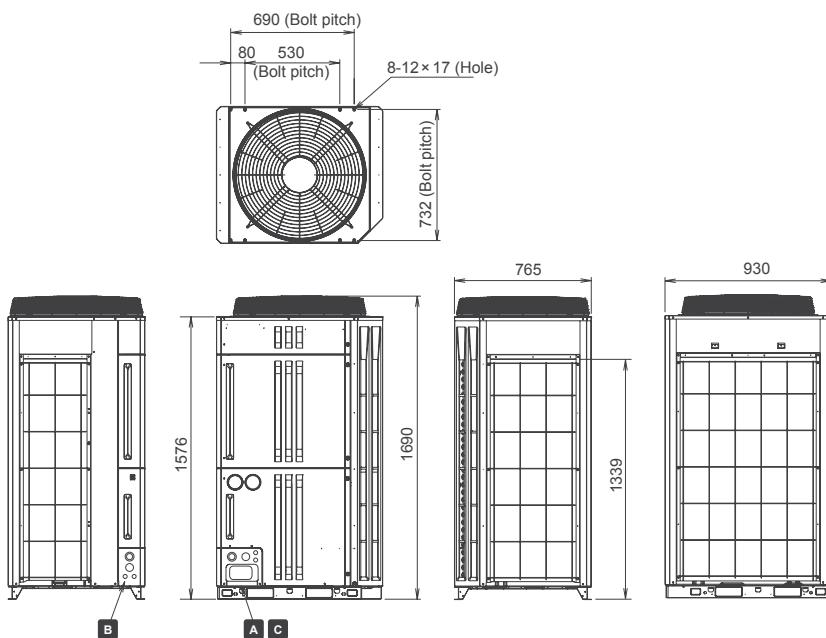
Energy efficiency combination

| 44.8 kW (16HP) | 62.4 kW (22HP) | 67.2 kW (24HP) | 72.8 kW (26HP) | 78.4 kW (28HP) |
|---|---|---|--|---|
|  AJY144GALHH UNIT : AJYA72/A72GALH |  AJY198GALHH UNIT : AJY126/A72GALH |  AJY216GALHH UNIT : AJYA72/A72/A72GALH |  AJY234GALHH UNIT : AJYA90/A72/A72GALH |  AJY252GALHH UNIT : AJYA90/A90/A72GALH |
|  AJY270GALHH UNIT : AJY190/A90/A90GALH |  AJY288GALHH UNIT : AJY126/A90/A72GALH |  AJY306GALHH UNIT : AJY126/A90/A90GALH |  AJY324GALHH UNIT : AJY126/126/A72GALH |  AJY342GALHH UNIT : AJY126/126/A90GALH |
|  AJY360GALHH UNIT : AJY144/126/A90GALH |  AJY378GALHH UNIT : AJY126/126/126GALH |  AJY396GALHH UNIT : AJY144/126/126GALH | | |

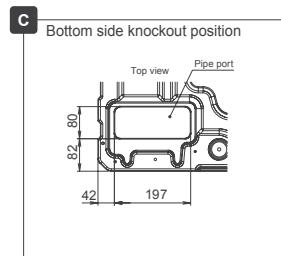
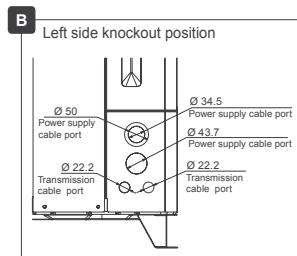
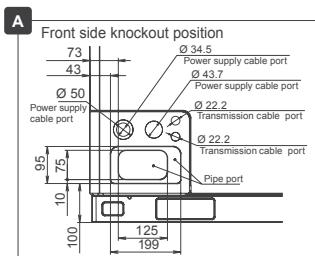
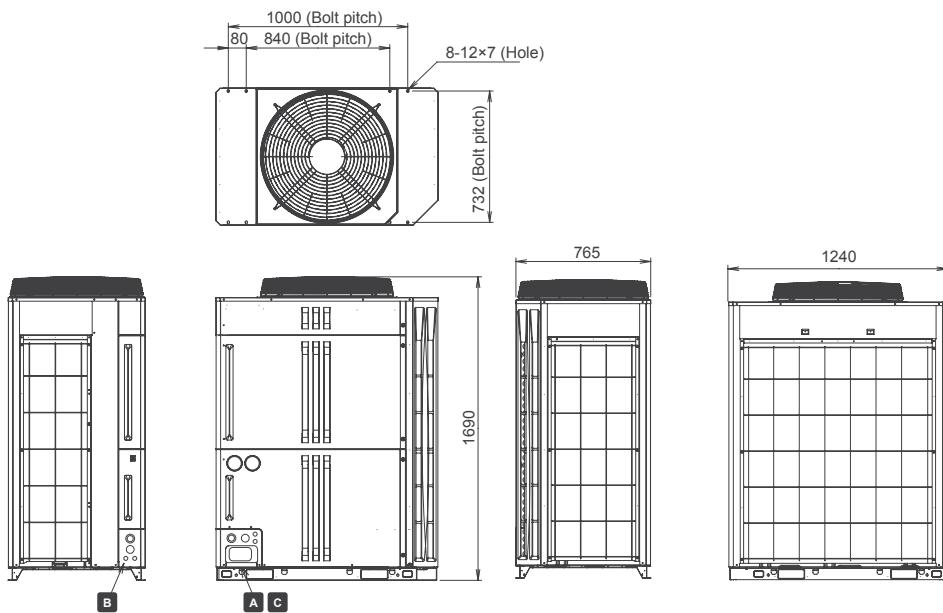
Dimensions

(Unit : mm)

8,10,12HP : AJYA72GALH / AJYA90GALH / AJY108GALH



14,16HP : AJY126GALH / AJY144GALH



Outdoor units specifications

Space Saving Combination

| Rating Capacity range | HP | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
|---|-----------------|------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | | | | | | | | | | |
| Set Model name | | AJYA72GALH | AJYA90GALH | AJY108GALH | AJY126GALH | AJY144GALH | AJY162GALH | AJY180GALH | AJY198GALH | AJY216GALH |
| Unit 1 | | AJYA72GALH | AJYA90GALH | AJY108GALH | AJY126GALH | AJY144GALH | AJYA90GALH | AJYA90GALH | AJY108GALH | AJY108GALH |
| Unit 2 | | | | | | | AJYA90GALH | AJYA90GALH | | |
| Unit 3 | | | | | | | AJYA72GALH | AJYA90GALH | | |
| Maximum Connectable Indoor Unit ^{*1} | | 15 | 16 | 17 | 21 | 24 | 27 | 30 | 32 | 35 |
| 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 |
| Power source | | 3-phase 4 wire , 400 V, 50Hz | | | | | | | | |
| Capacity | Cooling | kW | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50.4 | 56.0 | 61.5 |
| | Heating | | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 56.5 | 63.0 | 67.0 |
| Input power | Cooling | kW | 5.45 | 7.11 | 9.75 | 11.34 | 13.61 | 12.56 | 14.22 | 16.86 |
| | Heating | | 5.70 | 7.33 | 9.62 | 10.90 | 12.77 | 13.03 | 14.66 | 19.50 |
| EER | Cooling | W/W | 4.11 | 3.94 | 3.44 | 3.53 | 3.31 | 4.01 | 3.94 | 3.44 |
| COP | Heating | W/W | 4.39 | 4.30 | 3.90 | 4.13 | 3.92 | 4.34 | 4.30 | 3.90 |
| Air flow late | | m³/h | 11,100 | 11,100 | 11,100 | 13,000 | 13,000 | 11,100×2 | 11,100×2 | 11,100×2 |
| Sound pressure level ^{*2} | Cooling | dB(A) | 56 | 58 | 59 | 60 | 61 | 60 | 61 | 62 |
| | Heating | | 58 | 59 | 61 | 61 | 61 | 62 | 62 | 64 |
| Maximum external static pressure | Pa | | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| Compresor motor output | kW | | 7.5 | 7.5 | 7.5 | 11.0 | 11.0 | 7.5×2 | 7.5×2 | 7.5×2 |
| Heat exchanger fin | | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| Dimensions | Height | mm | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| | Width | | 930 | 930 | 930 | 1,240 | 1,240 | 930×2 | 930×2 | 930×2 |
| | Depth | | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | kg | | 262 | 262 | 262 | 286 | 286 | 262×2 | 262×2 | 262×2 |
| Refrigerant charge | kg | | 11.8 | 11.8 | 11.8 | 11.8 | 11.8 | 11.8×2 | 11.8×2 | 11.8×2 |
| Connection pipe diameter | Liquid | mm | 12.70 | 12.70 | 12.70 | 12.70 | 12.70 | 15.88 | 15.88 | 15.88 |
| | Discharge Gas | | 15.88 | 19.05 | 19.05 | 22.22 | 22.22 | 22.22 | 22.22 | 28.58 |
| | Suction Gas | | 22.22 | 22.22 | 28.58 | 28.58 | 28.58 | 28.58 | 34.92 | 34.92 |
| Operation range | Cooling | °CDB | -10 to 46 |
| | Heating | | -20 to 21 |
| | Cooling/Heating | | -10 to 21 |

Energy Efficiency Combination

| Rating Capacity range | HP | 16 | 22 | 24 | 26 | 28 | 30 | |
|---|-----------------|------------------------------|-------------|---------------|-------------|-------------|-------------|-----------|
| | | | | | | | | |
| Set Model name | | AJY144GALHH | AJY198GALHH | AJY216GALHH | AJY234GALHH | AJY252GALHH | AJY270GALHH | |
| Unit 1 | | AJYA72GALH | AJY126GALH | AJYA72GALH | AJYA90GALH | AJYA90GALH | AJYA90GALH | |
| Unit 2 | | | AJYA72GALH | AJYA72GALH | AJYA72GALH | AJYA72GALH | AJYA90GALH | |
| Unit 3 | | | | AJYA72GALH | AJYA72GALH | AJYA72GALH | AJYA90GALH | |
| Maximum Connectable Indoor Unit ^{*1} | | 24 | 33 | 36 | 39 | 42 | 45 | |
| 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 | |
| Power source | | 3-phase 4 wire , 400 V, 50Hz | | | | | | |
| Capacity | Cooling | kW | 44.8 | 62.4 | 67.2 | 72.8 | 78.4 | 84.0 |
| | Heating | | 50.0 | 70.0 | 75.0 | 81.5 | 88.0 | 94.5 |
| Input power | Cooling | kW | 10.90 | 16.79 | 16.35 | 18.01 | 19.67 | 21.33 |
| | Heating | | 11.40 | 16.60 | 17.10 | 18.73 | 20.36 | 21.99 |
| EER | Cooling | W/W | 4.11 | 3.72 | 4.11 | 4.04 | 3.99 | 3.94 |
| COP | Heating | W/W | 4.39 | 4.22 | 4.39 | 4.35 | 4.32 | 4.30 |
| Air flow late | | m³/h | 11,100×2 | 13,000+11,100 | 11,100×3 | 11,100×3 | 11,100×3 | 11,100×3 |
| Sound pressure level ^{*2} | Cooling | dB(A) | 59 | 61 | 61 | 62 | 62 | 63 |
| | Heating | | 61 | 63 | 63 | 63 | 63 | 64 |
| Maximum external static pressure | Pa | | 80 | 80 | 80 | 80 | 80 | 80 |
| Compresor motor output | kW | | 7.5×2 | 11.0+7.5 | 7.5×3 | 7.5×3 | 7.5×3 | 7.5×3 |
| Heat exchanger fin | | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| Dimensions | Height | mm | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| | Width | | 930×2 | 1,240+930 | 930×3 | 930×3 | 930×3 | 930×3 |
| | Depth | | 765 | 765 | 765 | 765 | 765 | 765 |
| Weight | kg | | 262×2 | 286+262 | 262×3 | 262×3 | 262×3 | 262×3 |
| Refrigerant charge | kg | | 11.8×2 | 11.8×2 | 11.8×3 | 11.8×3 | 11.8×3 | 11.8×3 |
| Connection pipe diameter | Liquid | mm | 12.70 | 15.88 | 15.88 | 15.88 | 15.88 | 19.05 |
| | Discharge Gas | | 22.22 | 28.58 | 28.58 | 28.58 | 28.58 | 28.58 |
| | Suction Gas | | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 |
| Operation range | Cooling | °CDB | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 |
| | Heating | | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |
| | Cooling/Heating | | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 |

Note : Specifications are based on the following conditions.

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

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

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

When cooling operation 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.

| 26 | 28 | 30 | 32 | 34 | 36 | 38 | 40 | 42 | 44 | 46 | 48 |
|------------------------------|--------------------------|--------------------------|--------------------------|--|--|--|--|--|--|--|--|
| | | | | | | | | | | | |
| AJY234GALH | AJY252GALH | AJY270GALH | AJY288GALH | AJY306GALH | AJY324GALH | AJY342GALH | AJY360GALH | AJY378GALH | AJY396GALH | AJY414GALH | AJY432GALH |
| AJY144GALH AJYA90GALH | AJY144GALH AJY108GALH | AJY144GALH AJY126GALH | AJY144GALH AJY144GALH | AJY108GALH AJY108GALH AJYA90GALH | AJY108GALH AJY108GALH AJY108GALH | AJY144GALH AJY108GALH AJYA90GALH | AJY144GALH AJY108GALH AJYA90GALH | AJY144GALH AJY144GALH AJY108GALH | AJY144GALH AJY144GALH AJY108GALH | AJY144GALH AJY144GALH AJY126GALH | AJY144GALH AJY144GALH AJY144GALH |
| 39 | 42 | 45 | 48 | 50 | 53 | 57 | 60 | 63 | 64 | 64 | 64 |
| 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 |
| 3-phase 4 wire , 400 V, 50Hz | | | | | | | | | | | |
| 73.0 | 78.5 | 85.0 | 90.0 | 95.0 | 100.5 | 106.5 | 112.0 | 118.0 | 123.5 | 130.0 | 135.0 |
| 81.5 | 87.5 | 95.0 | 100.0 | 106.5 | 112.5 | 119.0 | 125.0 | 131.5 | 137.5 | 145.0 | 150.0 |
| 20.72 | 23.36 | 24.95 | 27.22 | 26.61 | 29.25 | 30.47 | 33.11 | 34.33 | 36.97 | 38.56 | 40.83 |
| 20.10 | 22.39 | 23.67 | 25.54 | 26.57 | 28.86 | 29.72 | 32.01 | 32.87 | 35.16 | 36.44 | 38.31 |
| 3.52 | 3.36 | 3.41 | 3.31 | 3.57 | 3.44 | 3.50 | 3.38 | 3.44 | 3.34 | 3.37 | 3.31 |
| 4.05 | 3.91 | 4.01 | 3.92 | 4.01 | 3.90 | 4.00 | 3.91 | 4.00 | 3.91 | 3.98 | 3.92 |
| 13,000+11,100 | 13,000+11,100 | 13,000×2 | 13,000×2 | 11,100×3 | 11,100×3 | 13,000+11,100×2 | 13,000+11,100×2 | 13,000×2+11,100 | 13,000×2+11,100 | 13,000×3 | 13,000×3 |
| 63 | 63 | 64 | 64 | 63 | 64 | 64 | 65 | 65 | 65 | 65 | 66 |
| 63 | 64 | 64 | 64 | 65 | 66 | 65 | 66 | 65 | 66 | 66 | 66 |
| 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| 11.0+7.5 | 11.0+7.5 | 11.0×2 | 11.0×2 | 7.5×3 | 7.5×3 | 11.0+7.5×2 | 11.0+7.5×2 | 11.0×2+7.5 | 11.0×2+7.5 | 11.0×3 | 11.0×3 |
| Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin | Blue fin |
| 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| 1,240+930 | 1,240+930 | 1,240×2 | 1,240×2 | 930×3 | 930×3 | 1,240+930×2 | 1,240+930×2 | 1,240×2+930 | 1,240×2+930 | 1,240×3 | 1,240×3 |
| 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| 286+262 | 286+262 | 286×2 | 286×2 | 286×3 | 286×3 | 286+262×2 | 286+262×2 | 286×2+262 | 286×2+262 | 286×3 | 286×3 |
| 11.8×2 | 11.8×2 | 11.8×2 | 11.8×2 | 11.8×3 | 11.8×3 | 11.8×3 | 11.8×3 | 11.8×3 | 11.8×3 | 11.8×3 | 11.8×3 |
| 15.88 | 15.88 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 |
| 28.58 | 28.58 | 28.58 | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 | 34.92 |
| 34.92 | 34.92 | 34.92 | 34.92 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 |
| -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 | -10 to 46 |
| -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 | -20 to 21 |
| -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 | -10 to 21 |

| 32 | 34 | 36 | 38 | 40 | 42 | 44 |
|--|--|--|--|--|--|--|
| | | | | | | |
| AJY288GALHH | AJY306GALHH | AJY324GALHH | AJY342GALHH | AJY360GALHH | AJY378GALHH | AJY396GALHH |
| AJY126GALH AJYA90GALH AJYA72GALH | AJY126GALH AJYA90GALH AJYA72GALH | AJY126GALH AJY126GALH AJYA90GALH | AJY126GALH AJY126GALH AJYA90GALH | AJY126GALH AJY126GALH AJYA90GALH | AJY126GALH AJY126GALH AJY126GALH | AJY144GALH AJY126GALH AJY126GALH |
| 48 | 51 | 54 | 57 | 60 | 64 | 64 |
| 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 |
| 3-phase 4 wire , 400 V, 50Hz | | | | | | |
| 90.4 | 96.0 | 102.4 | 108.0 | 113.0 | 120.0 | 125.0 |
| 101.5 | 108.0 | 115.0 | 121.5 | 126.5 | 135.0 | 140.0 |
| 23.90 | 25.56 | 28.13 | 29.79 | 32.06 | 34.02 | 36.29 |
| 23.93 | 25.56 | 27.50 | 29.13 | 31.00 | 32.70 | 34.57 |
| 3.78 | 3.76 | 3.64 | 3.63 | 3.52 | 3.53 | 3.44 |
| 4.24 | 4.23 | 4.18 | 4.17 | 4.08 | 4.13 | 4.05 |
| 13,000+11,100×2 | 13,000+11,100×2 | 13,000×2+11,100 | 13,000×2+11,100 | 13,000×2+11,100 | 13,000×3 | 13,000×3 |
| 63 | 64 | 64 | 64 | 65 | 65 | 65 |
| 64 | 65 | 65 | 65 | 66 | 66 | 66 |
| 80 | 80 | 80 | 80 | 80 | 80 | 80 |
| 11.0+7.5×2 | 11.0+7.5×2 | 11.0×2+7.5 | 11.0×2+7.5 | 11.0×2+7.5 | 11.0×3 | 11.0×3 |
| Blue fin |
| 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 | 1,690 |
| 1,240+930×2 | 1,240+930×2 | 1,240×2+930 | 1,240×2+930 | 1,240×2+930 | 1,240×3 | 1,240×3 |
| 765 | 765 | 765 | 765 | 765 | 765 | 765 |
| 286+262×2 | 286+262×2 | 286×2+262 | 286×2+262 | 286×2+262 | 286×3 | 286×3 |
| 11.8×3 | 11.8×3 | 11.8×3 | 11.8×3 | 11.8×3 | 11.8×3 | 11.8×3 |
| 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 | 19.05 |
| 28.58 | 28.58 | 28.58 | 34.92 | 34.92 | 34.92 | 34.92 |
| 34.92 | 34.92 | 41.27 | 41.27 | 41.27 | 41.27 | 41.27 |
| -10 to 46 |
| -20 to 21 |
| -10 to 21 |

*1 Minimum connectable indoor unit number is 2.

*2 The noise value is the value when measured in an anechoic room.

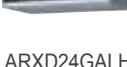
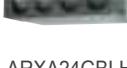
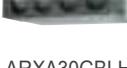
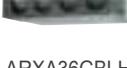
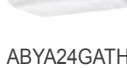
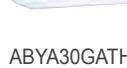
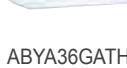
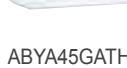
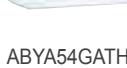
When measured in the actual installed state, surrounding noise and reflections are received and the measured value is usually larger than the indicated value.

Indoor Unit Lineup

12 Types, 55 Models, Capacity range from 1.1 kW to 25.0 kW

| Capacity range (kW) | | 1.1 | 2.2 | 2.8 | 3.6 | 4.5 |
|---------------------|--|---|---|--|---|---|
| Model code | | 4 | 7 | 9 | 12 | 14 |
| Cassette | Compact Cassette |  |  |  |  |  |
| | Cassette | | | | | |
| Duct | Low Static Pressure Duct | |  |  |  |  |
| | Slim Duct (With drain pump) |  |  |  |  |  |
| | Medium Static Pressure Duct | | | | | |
| | High Static Pressure Duct | | | | | |
| Floor | Floor (*Same as Ceiling models) | | | |  |  |
| | Concealed Floor (*Same as Low Static Pressure Duct models) | |  |  |  |  |
| | Slim Concealed Floor (*Same as Slim Duct models) |  |  |  |  |  |
| Ceiling | Ceiling | | | |  |  |
| Wall Mounted | Wall Mounted |  |  |  |  |  |
| | Wall Mounted (EEV external) |  |  |  |  |  |

With this model, connection of EV kit is necessary.

| 5.6 | 7.1 | 9.0 | 11.2 | 12.5 | 14.0 | 18.0 | 22.4 | 25.0 |
|---|---|---|---|---|---|---|---|------|
| 18 | 24 | 30 | 36 | 45 | 54 | 60 | 72 | 90 |
|  |  | | | | | | | |
| AUXB18GALH | AUXB24GALH | | | | | | | |
|  |  |  |  |  |  | | | |
| AUXD18GALH | AUXD24GALH | AUXA30GALH | AUXA36GALH | AUXA45GALH | AUXA54GALH | | | |
|  | | | | | | | | |
| ARXB18GALH | | | | | | | | |
|  |  | | | | | | | |
| ARXD18GALH | ARXD24GALH | | | | | | | |
| |  |  |  |  | | | | |
| | ARXA24GBLH | ARXA30GBLH | ARXA36GBLH | ARXA45GBLH | | | | |
| | |  |  | |  |  |  | |
| | | ARXC36GATH | ARXC45GATH | | ARXC60GATH* | ARXC72GATH* | ARXC90GATH* | |
|  |  | | | | | | | |
| ABYA18GATH | ABYA24GATH | | | | | | | |
|  | | | | | | | | |
| ARXB18GALH | | | | | | | | |
|  |  | | | | | | | |
| ARXD18GALH | ARXD24GALH | | | | | | | |
|  |  |  |  |  |  | | | |
| ABYA18GATH | ABYA24GATH | ABYA30GATH | ABYA36GATH | ABYA45GATH | ABYA54GATH | | | |
|  |  |  | | | | | | |
| ASYA18GACH | ASYA24GACH | ASYA30GACH | | | | | | |

*: ARXC60/72/90LATH cannot be connected to J-IIS and J-II series.

Indoor Units Specifications

Compact Cassette



| Model name | | | AUXB04GALH | AUXB07GALH | AUXB09GALH | AUXB12GALH | AUXB14GALH | AUXB18GALH | AUXB24GALH | | |
|--------------------------|------------------------|--------------|------------------------------|-----------------|------------|------------|------------|------------|------------|--|--|
| Power source | | | V/Ø/Hz | 230/1/50 | | | | | | | |
| Capacity | Cooling | kW | 1.1 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | | |
| | Heating | | 1.3 | 2.8 | 3.2 | 4.1 | 5.0 | 6.3 | 8.0 | | |
| Input power | | | W | 23 | 25 | 25 | 29 | 35 | 36 | | |
| Airflow rate | High | m³/h | 530 | 540 | 550 | 600 | 680 | 710 | 1,030 | | |
| | Med | | 420/450*1 | 450 | 450 | 530 | 590 | 580 | 830 | | |
| | Low | | 300/350*1 | 350 | 350 | 390 | 390 | 400 | 450 | | |
| Sound pressure level | High | dB(A) | 34 | 34 | 35 | 37 | 38 | 41 | 50 | | |
| | Med | | 28/30*1 | 30 | 30 | 34 | 34 | 35 | 44 | | |
| | Low | | 21/25*1 | 25 | 25 | 27 | 27 | 27 | 30 | | |
| Dimensions (H x W x D) | | | mm | 245 x 570 x 570 | | | | | | | |
| Weight | | | kg | 15 | | | | 17 | | | |
| Connection pipe diameter | Liquid (Flare) | mm | ø6.35 | | | | ø9.52 | | | | |
| | Gas (Flare) | | ø12.70 | | | | ø15.88 | | | | |
| | Drain hose | | VP [ø25 (I.D.) ; ø32 (O.D.)] | | | | | | | | |
| Cassette Grille | Model name | UTG-UFCY-C-W | | | | | | | | | |
| | Dimensions (H x W x D) | mm | 50 x 700 x 700 | | | | 2.6 | | | | |
| | Weight | kg | | | | | | | | | |

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.

Cassette



| Model name | | | AUXD18GALH | AUXD24GALH | AUXA30GALH | AUXA36GALH | AUXA45GALH | AUXA54GALH | | | | | |
|--------------------------|------------------------|------------|----------------|-----------------|------------|------------|--------------------------------|-----------------|--|--|--|--|--|
| Power source | | | V/Ø/Hz | 230/1/50 | | | | | | | | | |
| Capacity | Cooling | kW | 5.6 | 7.1 | 9.0 | 11.2 | 12.5 | 14.0 | | | | | |
| | Heating | | 6.3 | 8.0 | 10.0 | 12.5 | 14.0 | 16.0 | | | | | |
| Input power | | | W | 39 | 46 | 59 | 80 | 99 | | | | | |
| Airflow rate | High | m³/h | 1,150 | 1,280 | 1,600 | 1,800 | 1,900 | 2,000 | | | | | |
| | Med | | 940 | 1,040 | 1,300 | 1,300 | 1,370 | 1,370 | | | | | |
| | Low | | 870 | 870 | 1,100 | 1,100 | 1,100 | 1,100 | | | | | |
| Sound pressure level | High | dB(A) | 36 | 38 | 40 | 44 | 46 | 47 | | | | | |
| | Med | | 30 | 33 | 38 | 38 | 39 | 39 | | | | | |
| | Low | | 29 | 29 | 33 | 33 | 33 | 33 | | | | | |
| Dimensions (H x W x D) | | | mm | 246 x 840 x 840 | | | | 288 x 840 x 840 | | | | | |
| Weight | | | kg | 22 | | | | 27 | | | | | |
| Connection pipe diameter | Liquid (Flare) | mm | ø9.52 | | | | ø19.05 | | | | | | |
| | Gas (Flare) | | ø15.88 | | | | VP25 [ø25 (I.D.) ; ø32 (O.D.)] | | | | | | |
| | Drain hose | | | | | | | | | | | | |
| Cassette Grille | Model name | UTG-UGYA-W | | | | | | | | | | | |
| | Dimensions (H x W x D) | mm | 50 x 950 x 950 | | | | 5.5 | | | | | | |
| | Weight | kg | | | | | | | | | | | |

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].

Low Static Pressure Duct / Concealed Floor



| Model name | | | ARXB07GALH | ARXB09GALH | ARXB12GALH | ARXB14GALH | ARXB18GALH | | |
|--------------------------|----------------|--------|--------------------------------|------------|-----------------|------------|------------|--|--|
| Power source | | V/Ø/Hz | 230/1/50 | | | | | | |
| Capacity | Cooling | kW | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | | |
| | Heating | | 2.8 | 3.2 | 4.0 | 5.0 | 6.3 | | |
| Input power | | W | 46 | 55 | 63 | 90 | 96 | | |
| Airflow rate | High | | 370 | 440 | 590 | 800 | 890 | | |
| | Med | m³/h | 310 | 370 | 500 | 750 | 810 | | |
| | Low | | 280 | 340 | 450 | 700 | 730 | | |
| Static pressure range | | Pa | 0 to 50 | 0 to 50 | 0 to 50 | 0 to 50 | 0 to 50 | | |
| Standard static pressure | | | 25 | 25 | 25 | 25 | 25 | | |
| Sound pressure level | High | | 29 | 31 | 30 | 33 | 36 | | |
| | Med | dB(A) | 26 | 29 | 28 | 32 | 34 | | |
| | Low | | 24 | 27 | 25 | 30 | 30 | | |
| Dimensions (H x W x D) | | mm | 217 x 663 x 595 | | 217 x 953 x 595 | | | | |
| Weight | | kg | 15 | | 22 | | 23 | | |
| Connection pipe diameter | Liquid (Flare) | | ø6.35 | | | | | | |
| | Gas (Flare) | mm | ø12.70 | | | | | | |
| | Drain hose | | VP25 [ø25 (I.D.) ; ø32 (O.D.)] | | | | | | |

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.

Slim Duct / Slim Concealed Floor



| Model name | | | ARXD04GALH | ARXD07GALH | ARXD09GALH | ARXD12GALH | ARXD14GALH | ARXD18GALH | ARXD24GALH | | |
|--------------------------|----------------|--------|--------------------------------|------------|------------|------------|-----------------|-------------------|------------|--|--|
| Power source | | V/Ø/Hz | 230/1/50 | | | | | | | | |
| Capacity | Cooling | kW | 1.1 | 2.2 | 2.8 | 3.6 | 4.5 | 5.6 | 7.1 | | |
| | Heating | | 1.3 | 2.8 | 3.2 | 4.0 | 5.0 | 6.3 | 8.0 | | |
| Input power | | W | 40 | 44 | 50 | 54 | 92 | 83 | 122 | | |
| Airflow rate | High | | 510 | 550 | 600 | 600 | 800 | 940 | 1,330 | | |
| | Med | m³/h | 400/470*1 | 490 | 550 | 510 | 710 | 840 | 1,240 | | |
| | Low | | 320/440*1 | 440 | 480 | 450 | 610 | 750 | 1,100 | | |
| Static pressure range | | Pa | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 90 | 0 to 50 | | |
| Standard static pressure | | | 25 | 25 | 25 | 25 | 25 | 25 | 25 | | |
| Sound pressure level | High | | 26 | 28 | 29 | 30 | 34 | 34 | 35 | | |
| | Med | dB(A) | 21/25*1 | 25 | 26 | 27 | 32 | 32 | 32 | | |
| | Low | | 20/22*1 | 22 | 24 | 24 | 28 | 28 | 29 | | |
| Dimensions (H x W x D) | | mm | 198 x 700 x 620 | | | | 198 x 900 x 620 | 198 x 1,100 x 620 | | | |
| Weight | | kg | 17 | | 18 | | 22 | 26 | | | |
| Connection pipe diameter | Liquid (Flare) | | ø6.35 | | | | | ø9.52 | | | |
| | Gas (Flare) | mm | ø12.70 | | | | | ø15.88 | | | |
| | Drain hose | | VP25 [ø25 (I.D.) ; ø32 (O.D.)] | | | | | | | | |

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.

*1: This value is under cooling operation.

Medium Static Pressure Duct



| Model name | | | ARXA24GBLH | ARXA30GBLH | ARXA36GBLH | ARXA45GBLH | |
|--------------------------|----------------|--------|--------------------------------|------------|------------|------------|--|
| Power source | | V/Ø/Hz | 230/1/50 | | | | |
| Capacity | Cooling | kW | 7.1 | 9.0 | 11.2 | 12.5 | |
| | Heating | | 8.0 | 10.0 | 12.5 | 14.0 | |
| Input power | | W | 94 | 108 | 194 | 240 | |
| Airflow rate | High | | 1,280 | 1,410 | 1,840 | 1,970 | |
| | Med | m³/h | 990 | 1,280 | 1,600 | 1,860 | |
| | Low | | 840 | 1,150 | 1,470 | 1,640 | |
| Static pressure range | | Pa | 0 to 150 | 0 to 150 | 0 to 150 | 0 to 150 | |
| Standard static pressure | | | 40 | 50 | 50 | 60 | |
| Sound pressure level | High | | 31 | 34 | 37 | 41 | |
| | Med | dB(A) | 27 | 32 | 35 | 38 | |
| | Low | | 23 | 29 | 33 | 36 | |
| Dimensions (H x W x D) | | mm | 270 x 1,135 x 700 | | | | |
| Weight | | kg | 36 | | 40 | | |
| Connection pipe diameter | Liquid (Flare) | | ø9.52 | | | | |
| | Gas (Flare) | mm | ø15.88 | | | | |
| | Drain hose | | VP25 [ø25 (I.D.) ; ø32 (O.D.)] | | | | |

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.

Indoor Units Specifications

High Static Pressure Duct



| Model name | | | ARXC36GATH | ARXC45GATH | ARXC60GATH* | ARXC72GATH* | ARXC90GATH* | | |
|--------------------------|------------|--------|--------------------------------|------------|-------------|-------------------|-------------|--|--|
| Power source | | V/Ø/Hz | 230/1/50 | | | | | | |
| Capacity | Cooling | kW | 11.2 | 12.5 | 18.0 | 22.4 | 25.0 | | |
| | Heating | | 12.5 | 14.0 | 20.0 | 25.0 | 28.0 | | |
| Input power | | W | 405 | 715 | 730 | 1,110 | 1,250 | | |
| Airflow rate | High | m³/h | 2,600 | 3,500 | 3,500 | 3,900 | 4,300 | | |
| | Med | | 1,950 | 3,000 | 3,000 | 3,300 | 4,000 | | |
| | Low | | 1,450 | 2,460 | 2,460 | 3,000 | 3,500 | | |
| Static pressure range | | Pa | 100 to 200 | 100 to 250 | 100 to 250 | 50 to 300 | 100 to 300 | | |
| Standard static pressure | | | 100 | 100 | 100 | 260 | 250 | | |
| Sound pressure level | High | dB(A) | 45 | 49 | 49 | 51 | 53 | | |
| | Med | | 38 | 45 | 45 | 48 | 51 | | |
| | Low | | 32 | 42 | 42 | 45 | 49 | | |
| Dimensions (H x W x D) | | mm | 400 x 1,050 x 500 | | | 450 x 1,550 x 700 | | | |
| Weight | | kg | 43 | 46 | | 83 | 85 | | |
| Connection pipe diameter | Liquid | mm | ø9.52 (Flare) | | | ø12.70 (Brazing) | | | |
| | Gas | | ø19.05 (Flare) | | | ø22.22 (Brazing) | | | |
| | Drain hose | | VP25 [ø25 (I.D.) ; ø32 (O.D.)] | | | | | | |

Note : Specifications are based on the following conditions.

*: ARXC60/72/90LATH cannot be connected to J-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.

Floor / Ceiling



| Model name | | | ABYA12GATH | ABYA14GATH | ABYA18GATH | ABYA24GATH | |
|--------------------------|----------------|-------|--------------------------------|------------|------------|------------|--|
| Power source | V/Ø/Hz | | 230/1/50 | | | | |
| Capacity | Cooling | kW | 3.6 | 4.5 | 5.6 | 7.1 | |
| | Heating | | 4.0 | 5.0 | 6.3 | 8.0 | |
| Input power | | W | 30 | 42 | 74 | 99 | |
| Airflow rate | High | m³/h | 660 | 780 | 1,000 | 1,000 | |
| | Med | | 570 | 640 | 720 | 820 | |
| | Low | | 490 | 550 | 580 | 680 | |
| Sound pressure level | High | dB(A) | 36 | 40 | 46 | 47 | |
| | Med | | 32 | 36 | 39 | 42 | |
| | Low | | 28 | 34 | 35 | 37 | |
| Dimensions (H x W x D) | | mm | 199 x 990 x 655 | | | | |
| Weight | | kg | 25 | 26 | 26 | 27 | |
| Connection pipe diameter | Liquid (Flare) | mm | ø6.35 | | | ø9.52 | |
| | Gas (Flare) | | ø12.70 | | | ø15.88 | |
| | Drain hose | | VP25 [ø25 (I.D.) ; ø32 (O.D.)] | | | | |

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 | | | ABYA30GATH | ABYA36GATH | ABYA45GATH | ABYA54GATH | | | |
|--------------------------|----------------|-------|--------------------------------|------------|------------|------------|--|--|--|
| Power source | V/Ø/Hz | | 230/1/50 | | | | | | |
| Capacity | Cooling | kW | 9.0 | 11.2 | 12.5 | 14.0 | | | |
| | Heating | | 10.0 | 12.5 | 14.0 | 16.0 | | | |
| Input power | | W | 66 | 85 | 131 | 180 | | | |
| Airflow rate | High | m³/h | 1,630 | 1,690 | 2,010 | 2,270 | | | |
| | Med | | 1,370 | 1,400 | 1,600 | 1,780 | | | |
| | Low | | 1,140 | 1,170 | 1,230 | 1,280 | | | |
| Sound pressure level | High | dB(A) | 42 | 45 | 48 | 51 | | | |
| | Med | | 38 | 38 | 42 | 45 | | | |
| | Low | | 33 | 34 | 35 | 36 | | | |
| Dimensions (H x W x D) | | mm | 240 x 1,660 x 700 | | | | | | |
| Weight | | kg | 46 | 48 | | | | | |
| Connection pipe diameter | Liquid (Flare) | mm | ø9.52 | | | ø9.52 | | | |
| | Gas (Flare) | | ø15.88 | | | ø19.05 | | | |
| | Drain hose | | VP25 [ø25 (I.D.) ; ø32 (O.D.)] | | | | | | |

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 | | V/Ø/Hz | ASYA04GACH | ASYA07GACH | ASYA09GACH | ASYA12GACH | ASYA14GACH | ASYE04GACH | ASYE07GACH | ASYE09GACH | ASYE12GACH | ASYE14GACH |
|-----------------------------|----------------|----------|---------------------------------|------------|------------|------------|---------------------------------|------------|------------|------------|------------|------------|
| Power source | | 230/1/50 | | | | 230/1/50 | | | | 230/1/50 | | |
| Capacity | Cooling | kW | 1.1 | 2.2 | 2.8 | 3.6 | 4.5 | 1.1 | 2.2 | 2.8 | 3.6 | 4.5 |
| | Heating | | 1.3 | 2.8 | 3.2 | 4.1 | 5.0 | 1.3 | 2.8 | 3.2 | 4.1 | 5.0 |
| Input power | | W | 13 | 17 | 18 | 22 | 34 | 12 | 15 | 16 | 21 | 34 |
| Airflow rate | High | m³/h | 450 | 490 | 500 | 560 | 670 | 450 | 490 | 500 | 560 | 680 |
| | Med | | 370/440*1 | 450 | 450 | 480 | 490 | 370/440*1 | 450 | 450 | 480 | 490 |
| | Low | | 320/420*1 | 370/420*1 | 370/420*1 | 420 | 420 | 300/420*1 | 370/420*1 | 370/420*1 | 420 | 420 |
| Sound pressure level | High | dB(A) | 33 | 35 | 36 | 39 | 44 | 32 | 34 | 35 | 38 | 43 |
| | Med | | 27/32*1 | 33 | 33 | 35 | 37 | 26/31*1 | 32 | 32 | 34 | 35 |
| | Low | | 22/31*1 | 27/31*1 | 27/31*1 | 31 | 32 | 19/30*1 | 26/30*1 | 26/30*1 | 30 | 30 |
| Dimensions (H x W x D) | | mm | 275 x 790 x 215 | | | | 275 x 790 x 215 | | | | | |
| Weight | | kg | 9 | | | | 9 | | | | | |
| Connection pipe diameter | Liquid (Flare) | mm | ø6.35 | | | | ø6.35 | | | | | |
| | Gas (Flare) | | ø12.70 | | | | ø12.70 | | | | | |
| | Drain hose | | ø13.8(I.D.) ; ø15.8-ø16.7(O.D.) | | | | ø13.8(I.D.) ; ø15.8-ø16.7(O.D.) | | | | | |
| 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].

*1 : This value is under cooling operation.

Wall Mounted



| Model name | | V/Ø/Hz | ASYA18GACH | ASYA24GACH | ASYA30GACH | |
|-----------------------------|----------------|----------|-------------------------|------------|------------|--|
| Power source | | 230/1/50 | | 230/1/50 | | |
| Capacity | Cooling | kW | 5.6 | 7.1 | 8.0 | |
| | Heating | | 6.3 | 8.0 | 9.0 | |
| Input power | | W | 32 | 60 | 91 | |
| Airflow rate | High | m³/h | 840 | 1,100 | 1,240 | |
| | Med | | 770 | 910 | 980 | |
| | Low | | 690 | 730 | 770 | |
| Sound pressure level | High | dB(A) | 41 | 48 | 52 | |
| | Med | | 39 | 43 | 45 | |
| | Low | | 35 | 35 | 35 | |
| Dimensions (H x W x D) | | mm | 320 x 998 x 228 | | | |
| Weight | | kg | 15 | | | |
| Connection pipe diameter | Liquid (Flare) | mm | ø9.52 | | | |
| | Gas (Flare) | | ø15.88 | | | |
| | Drain hose | | ø12 (I.D.) ; ø16 (O.D.) | | | |

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].

Controller

Control system overview

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

Air Conditioning Individual Control

**Wired Remote Controller (Touch panel)
UTY-RNRY**



**Wired Remote Controller
NEW UTY-RLRY**



**Simple Remote Controller
UTY-RSKY**



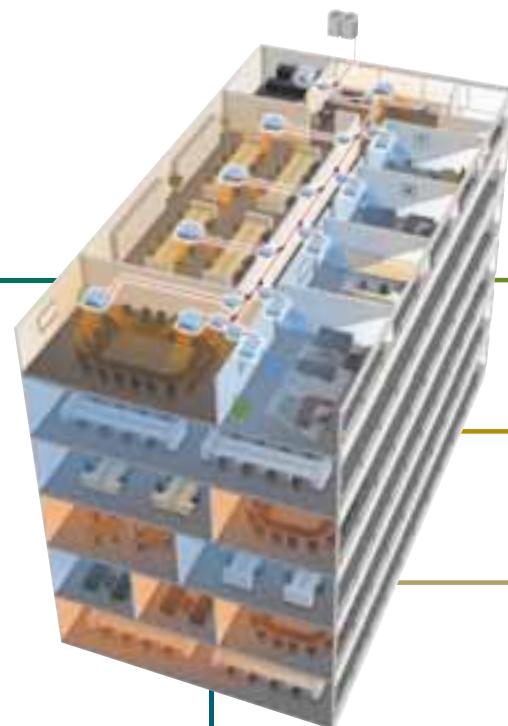
**Simple Remote Controller
UTY-RHKY**
Without operation mode



**Wireless Remote Controller
UTY-LNHY**

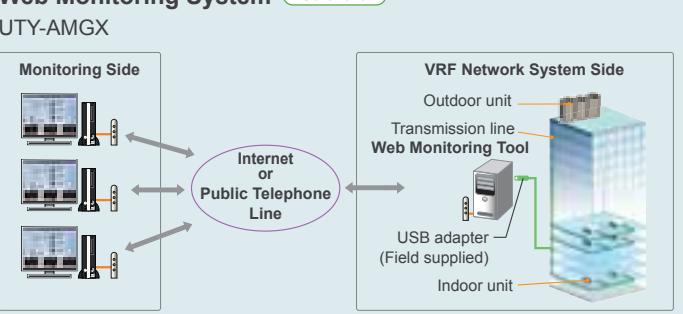


For All AIRSTAGE™ series



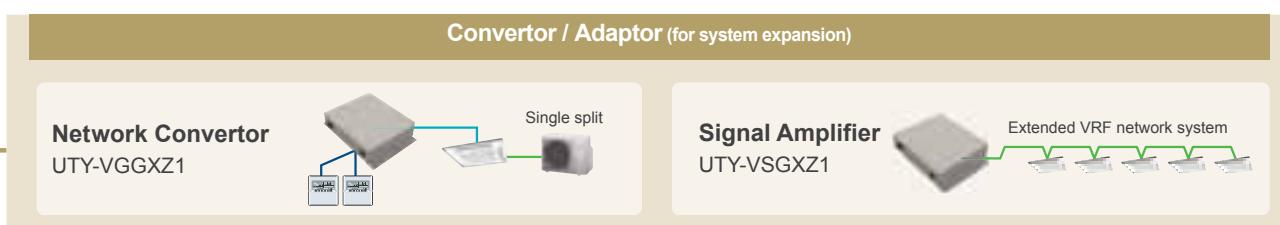
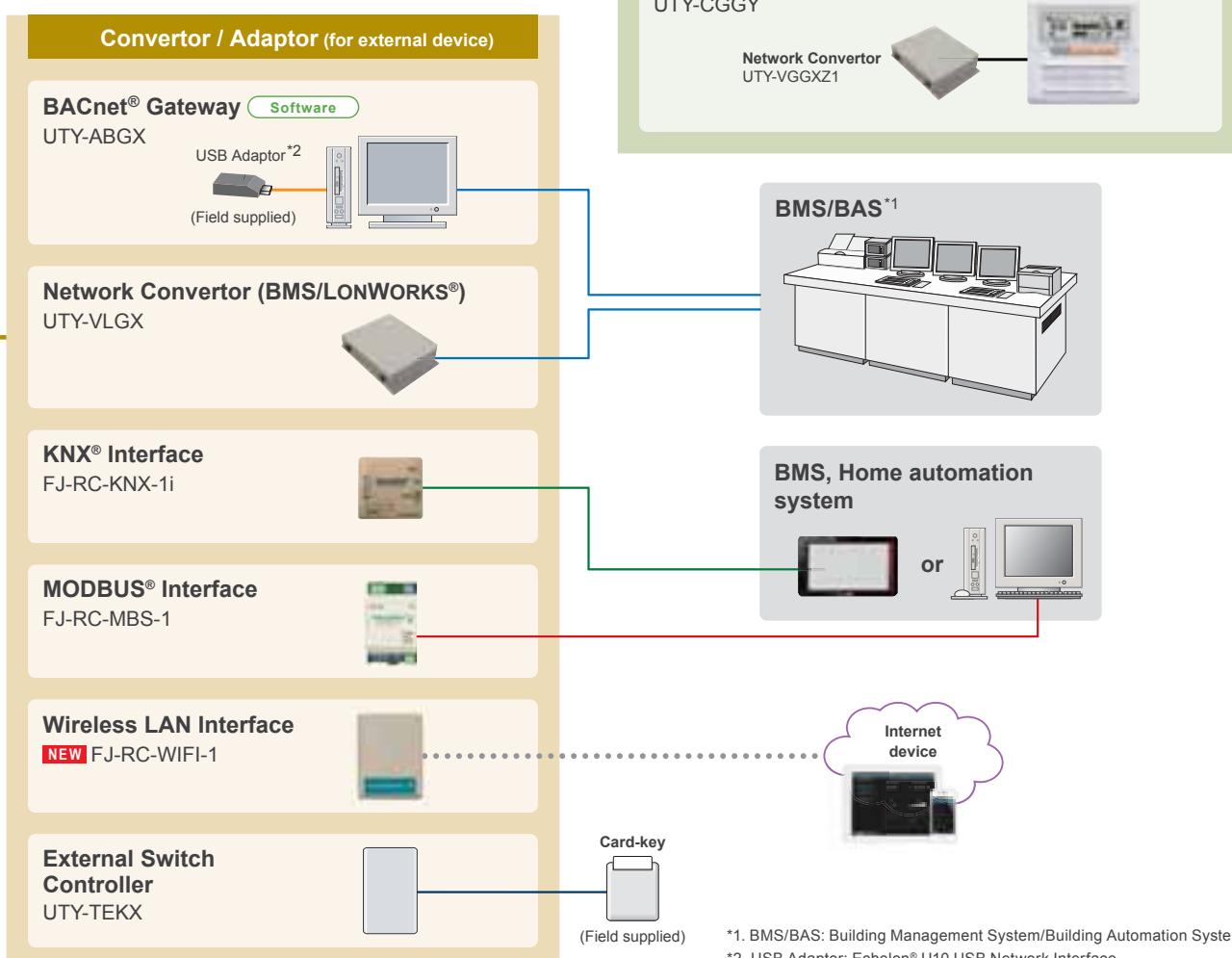
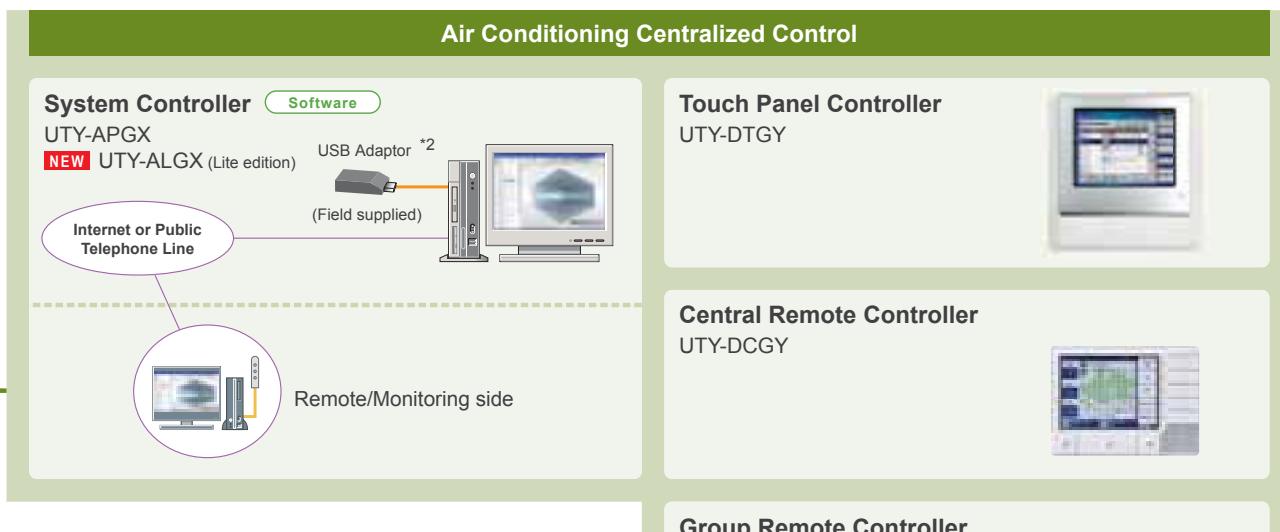
Service & Maintenance Tool

Web Monitoring System Software
UTY-AMGX



Service Tool Software
UTY-ASGX





Controller

Comparison table of Controllers

| Item | Wired Remote Controller (Touch panel) | Wired Remote Controller | Simple Remote Controller | Simple Remote Controller ^{*1} | Wireless Remote Controller | Group Remote Controller | Central Remote Controller | Touch Panel Controller | System Controller Lite Software | System Controller Software |
|--|---------------------------------------|-------------------------|--------------------------|--|----------------------------|-------------------------|---------------------------|------------------------|---------------------------------|----------------------------|
| Model name | UTY-RNRY | UTY-RLRY | UTY-RSKY | UTY-RHKY | UTY-LNHY | UTY-CGGY | UTY-DCGY | UTY-DTGY | UTY-ALGX | UTY-APGX |
| Max. controllable remote controller groups | 1 | 1 | 1 | 1 | 1 | 8 | 100 | 400 | 400 | 1600 |
| Max. controllable indoor units | 16 | 16 | 16 | 16 | 16 | 128 | 100 | 400 | 400 | 1600 |
| Max. controllable groups | — | — | — | — | — | — | 16 | 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 | ● | ● | — | — | ● | — | ● | ● | ● |
| | Group setting | — | — | — | — | — | — | ● | ● | ● |
| | RC prohibition | — | — | — | — | — | — | ● | ● | ● |
| | Anti freeze setting | ● | — | — | — | — | ● | ● | ● | ● |
| | Economy mode setting | ● | ● | — | — | ● | — | ● | ● | ● |
| | Failure | ● | ● | ● | ● | — | ● | ● | ● | ● |
| | Defrosting | ● | ● | ● | ● | — | — | ● | ● | ● |
| Display | Current time | ● | ● | — | — | ● | ● | ● | ● | ● |
| | Day of week | ● | ● | — | — | — | ● | — | ● | ● |
| | R.C. prohibition | ● | ● | ● | ● | — | ● | ● | ● | ● |
| | Cooling/heating priority | ● | ● | ● | ● | — | ● | ● | ● | ● |
| | Address display | ● | ● | ● | ● | — | ● | ● | ● | ● |
| | Room temp | ● | — | — | — | — | — | — | — | — |
| | Multi language | ● | — | — | — | — | — | ● | ● | ● |
| | Summer time | ● | — | — | — | — | — | ● | ● | ● |
| | Name registration | ● | — | — | — | — | — | ● | ● | ● |
| | Backlight | ● | — | ● | ● | — | — | ● | ● | — |
| | 2D floor layout / 3D building display | — | — | — | — | — | — | — | — | ● |
| Timer | Period | Week | Week | — | — | — | Week | Week | Year | Year |
| | Schedule timer | 8 | 4 | — | — | — | 4 | 20 | 20 | 144 |
| | On/off, Temp, Mode, Times per day | — | — | — | — | — | — | — | — | 144 |
| | On/off timer | ● | ● | — | — | ● | — | — | — | — |
| | Sleep timer | — | — | — | — | ● | — | — | — | — |
| | Program timer | — | — | — | — | ● | — | — | — | — |
| | Auto off timer | ● | ● | — | — | — | — | — | — | — |
| | Day off | ● | ● | — | — | — | — | ● | ● | ● |
| Control | Min. unit of timer setting (Minutes) | 10 • 30 | 30 | 30 | 30 | 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 | Password setting | Password setting | Password setting |
| | | | | | | | | | | |

*1 "Operation mode" setting is not available for this model.

*2 This function is available only through external input control.

● : Supported ○ : Optional function
— : Not supported yet

Max.
controllable
16
Indoor units

Wired Remote Controller (Touch Panel) : UTY-RNRY

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 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)
- 2-wire type



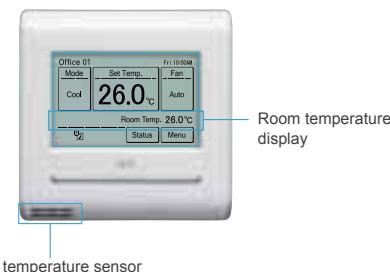
High performance and compact size

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



Accurate and comfortable control

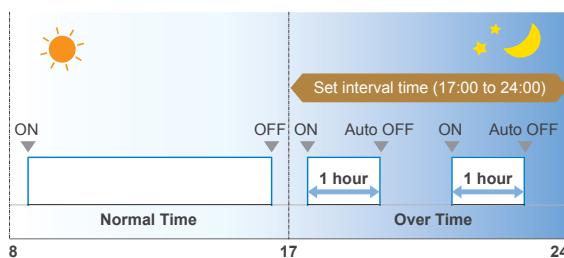
Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller.



Various energy saving control

Auto OFF timer

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

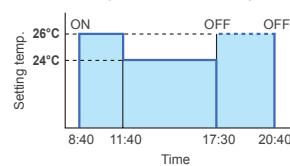


Ex.) At interval time hour (17:00 to 24:00) to prevent forgetting to turn off
Set off time : 1 hour

2 schedules Weekly Timer

- 2 schedules such as for the summer and winter can be set.
- 8 setting changeable per day of week (Setting items: On/Off, Temperature, Mode, Time)

Schedule 1 (Summer schedule)



Schedule 2 (Winter schedule)



Set Temperature Auto Return

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

Set Temperature Upper and Lower Limit Setting

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

Specifications

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

DC12 V is supplied by the indoor unit.

Controller

NEW Wired Remote Controller : UTY-RLRY

Max. controllable
16
Indoor units

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



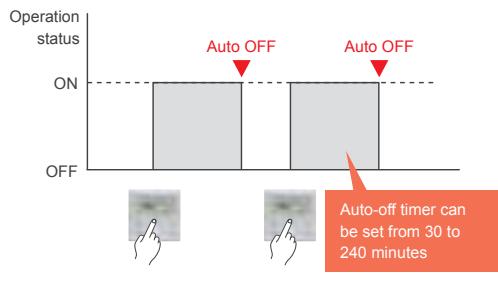
High performance and compact size

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



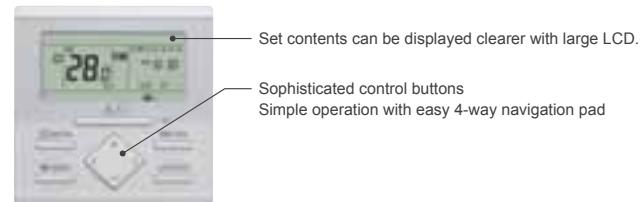
Auto-off timer

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



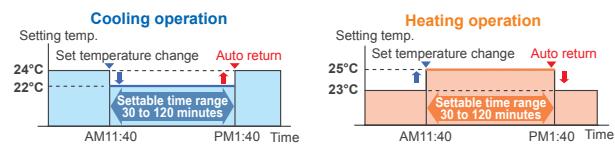
High visibility and easy operation

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



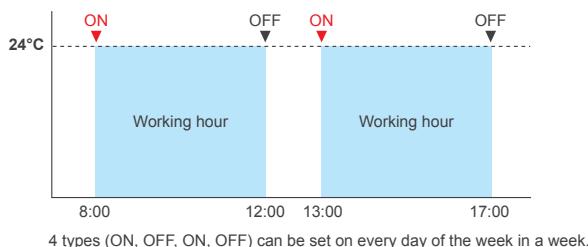
Set temperature auto return

- The setting temperature automatically returns to the previously set temperature.
- The time range in which the set temperature can be changed is 30 to 120 minutes.



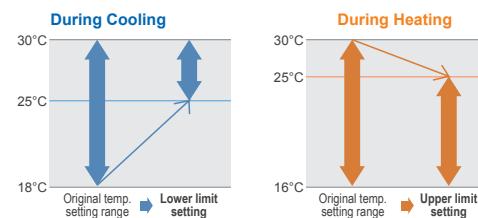
Weekly timer function

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



Set temperature upper and lower limit setting

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



Specifications

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

* DC12V is supplied by indoor unit.

Max.
controllable
16
Indoor units

Simple Remote Controller :

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

Compact remote controller provides access to basic functions

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



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.

Backlight

- Backlight enables easy operation in a darkened room.
- Backlight activates during all button operations, and lasts 10 seconds in Operation mode and 5 seconds in stop mode after a button is pressed.



Simple installation

Can be mounted on the European Mounting Box (Installation dimension: 60mm) or the JIS Built-in Box (Installation dimension: 83.5mm).



Functions

| Model | UTY-RSKY | UTY-RHKY |
|--------------------|----------|----------|
| Operation | | |
| On / Off | ● | ● |
| Fan control | ● | ● |
| Operation mode | ● | — *1 |
| Room temp. setting | ● | ● |

*1: "Operation mode" setting is not available. It is recommended to use together with other type controller.

Specifications

| Model name | UTY-RSKY | UTY-RHKY |
|-----------------------------|---------------|---------------|
| Power Source | DC 12 V | DC 12 V |
| Dimensions (H x W x D) (mm) | 120 x 75 x 14 | 120 x 75 x 14 |
| Weight (g) | 90 | 90 |

DC12 V is supplied by the indoor unit.

Controller

Wireless Remote Controller : UTY-LNHY

Max. controllable
16
Indoor units

Selectable
4
daily timers



Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

Built-in timers

Select from 4 different timer programs:

On / Off / Program / Sleep

Program timer: The program timer operates the ON and OFF timer once within a 24 hour period.

Sleep timer: The sleep timer function automatically corrects the set temperature according to the time setting to prevent excessive cooling or heating during sleep hours.

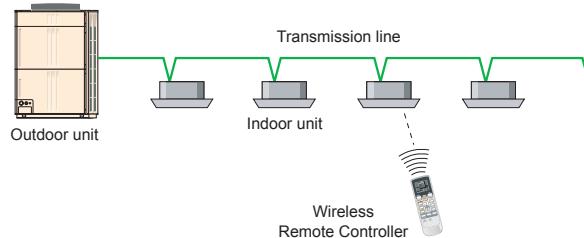
Easy installation and operation

- Code selector switch prevents indoor unit mix-up. (Up to 4 codes can be set.)

- Wide and precise transmitting range.

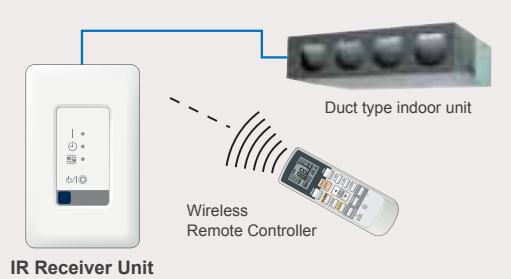
System addressing

During installation work, system addressing can be performed using the Wireless Remote Controller, thus eliminating manual switch setting.



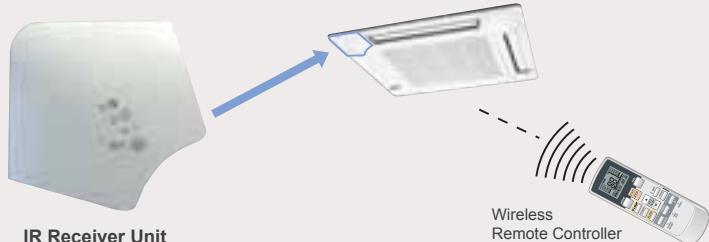
IR Receiver Unit : UTB-YWC

Necessary to control for all duct type by Wireless Remote Controller



IR Receiver Unit : UTY-LRHYB1

Cassette type indoor unit can be controlled with Wireless Remote Controller



Specifications

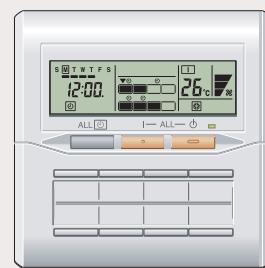
| Model name | UTY-LNHY | UTB-YWC | UTY-LRHYB1 |
|-----------------------------|------------------------------|---------------|----------------------|
| Battery | 1.5 V (R03 / LR03 / AAA) x 2 | DC 12 V | DC 12 V |
| Dimensions (H x W x D) (mm) | 170 x 56 x 19 | 145 x 90 x 30 | 193.9 x 193.9 x 31.2 |
| Weight (g) | 85 | 150 | 140 |

DC12 V is supplied by the indoor unit.

Group Remote Controller : UTY-CGGY

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 Convertor is required to connect Group Remote Controllers to a VRF network system. (Network Convertor allows up to 4 Group Remote Controllers)
- 3-wire type

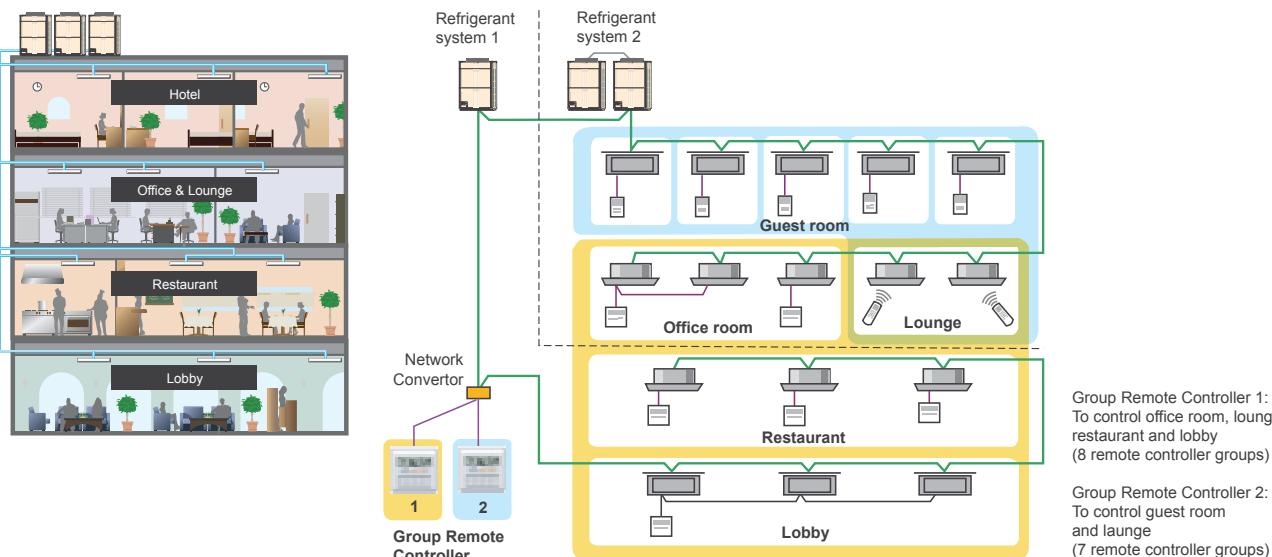


Max.controllable
64
group R.C.
in a VRF
network system

Max.
controllable
8
remote
controller groups

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.

- The timer can be set up for up to 4 times per day. (On / Off, operating mode, set temperature)
- Allows separate settings for each day of the week.

Specifications

| Model name | UTY-CGGY |
|-----------------------------|----------------|
| Power Supply | DC 12 V |
| Dimensions (H x W x D) (mm) | 120 x 120 x 18 |
| Weight (g) | 200 |

DC12 V is supplied by the indoor unit.

Controller

Central Remote Controller : UTY-DCGY

Central Remote Controller fits small- and medium-sized buildings and tenants.

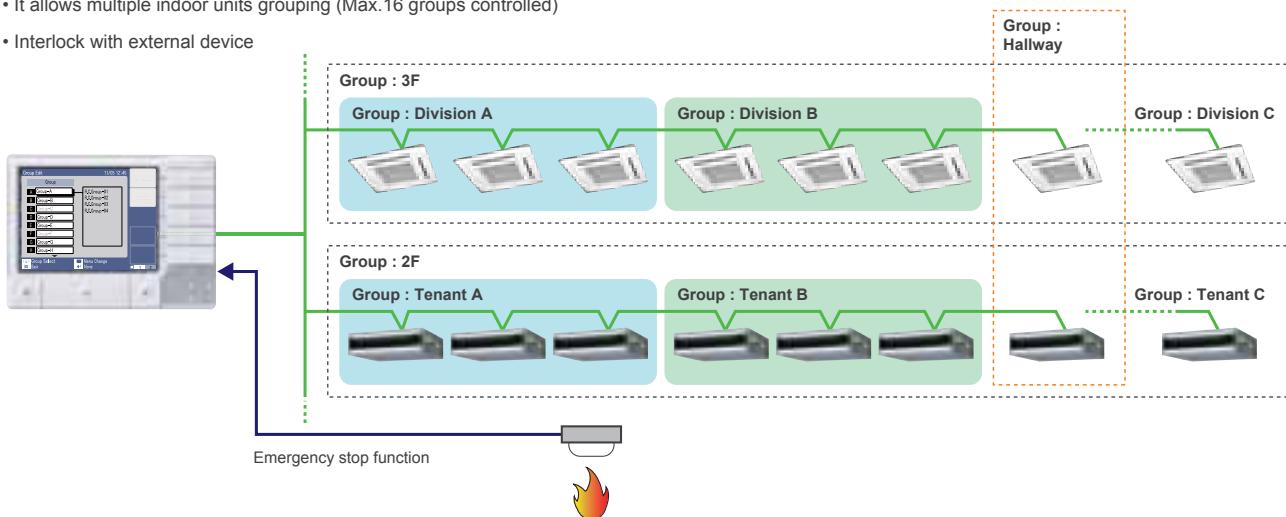
- Individual control and monitor of 100 indoor units
- 5 inch TFT color screen
- High visibility and easy operation
- External input / output contact
- Detachable power supply unit
- Corresponds to 7 different languages like English, Chinese, French, German, Spanish, Russian, Polish.
- 2-wire type

**Max. controllable
100
Indoor units**

**Max. controllable
16
groups**

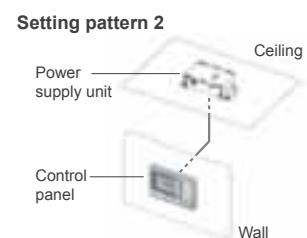
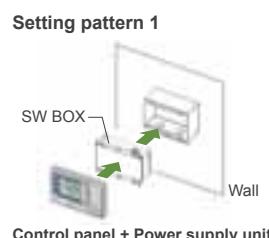
System overview

- It allows multiple indoor units grouping (Max.16 groups controlled)
- Interlock with external device



Easy Installation

- The control panel and power supply unit can be installed separately.
- For flexibility in installation, the Control panel can be built into the wall or fix on the wall.



Functions

- Diverse control of indoor units
- Automatic clock adjustment
- Weekly timer
- Error history

Specifications

| Model name | UTY-DCGY | |
|-----------------------------|------------------|----------------------------------|
| | Control Panel | Power Supply Unit |
| Power Supply | DC 5 V | 100-240 V, 50-60Hz, Single phase |
| Dimensions (H x W x D) (mm) | 120 x 162 x 25.7 | 99 x 135 x 39.2 |
| Weight (g) | 308 | 355 |

<PACKING LIST>

| | |
|--------------|--|
| Packing List | Control Panel / Power Supply Unit / Connecting cable, etc. |
|--------------|--|

Max.
controllable
400
Indoor units

Touch Panel Controller : UTY-DTGY

- Large-sized 7.5-inch TFT color
- LCD Easy finger touch operation
- Stylish shape and design to suit all application
- No additional component is required for installation
- Up to 400 indoor units can be controlled
- Selectable 2 display types (Icon / List) in monitoring mode
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.
- 2-wire type



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
- Up-to-date status display
- Background color identifies current control operation blue for monitoring, green for operational control

Functions



Individual control



Flexible grouping



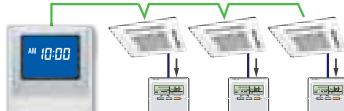
Schedule control



Indoor units operation monitoring

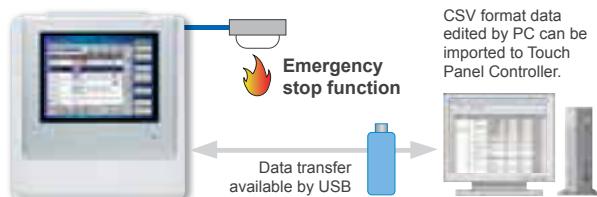
Automatic clock adjustment

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



Versatility

- **Emergency stop function:** Air conditioner can be turned off through the external input control
- The stored data can be transferred via USB port
- CSV format data edited by PC can be imported to Touch Panel Controller.



Specifications

| Model name | UTY-DTGY |
|-----------------------------|---------------------------------|
| Power Supply | 100-240 V 50/60Hz, Single phase |
| Dimensions (H x W x D) (mm) | 260 x 246 x 54 |
| Weight (g) | 2,150 |
| Interface | USB 2.0 |

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.



Controller

System Controller : UTY-APGX Software

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)




Max. controllable
4
VRF network systems

Max. controllable
400
outdoor units

Max. controllable
1,600
indoor units

System Controller Lite : UTY-ALGX Software NEW

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)




Max. controllable
1
VRF network systems

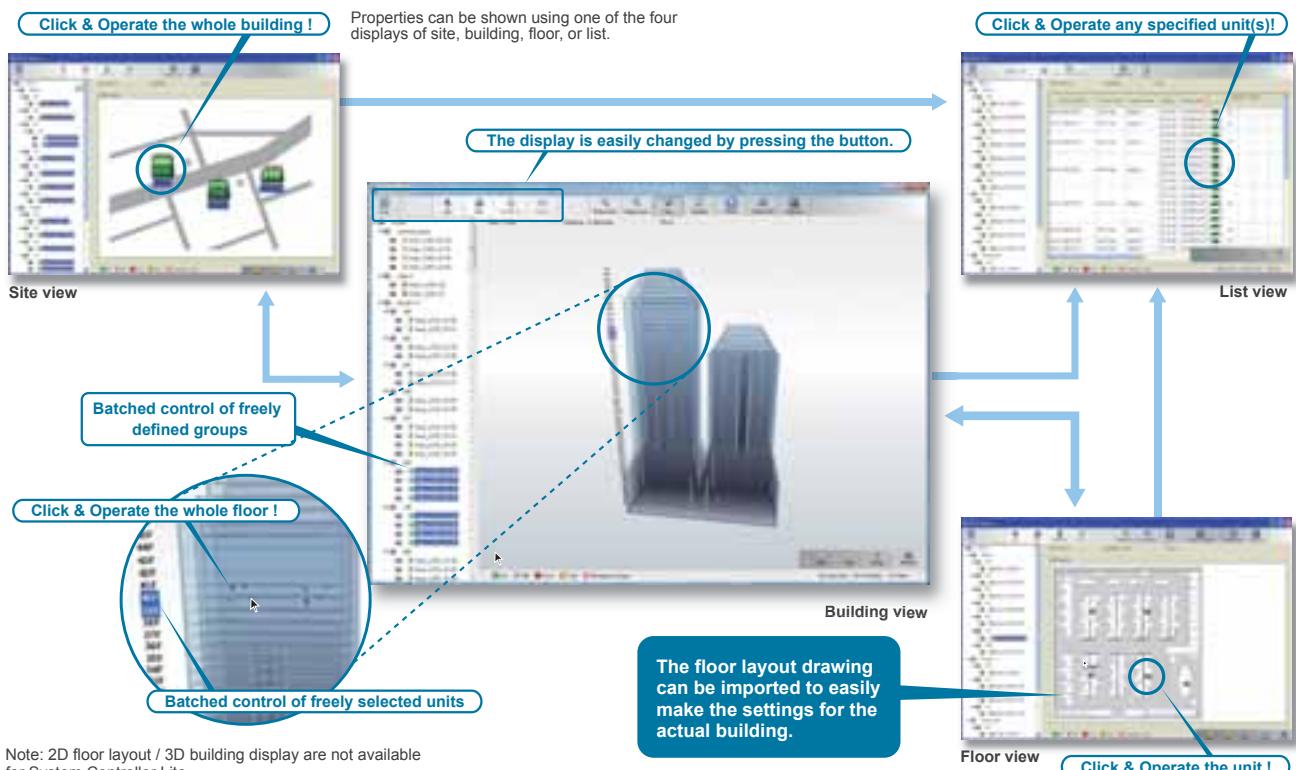
Max. controllable
100
outdoor units

Max. controllable
400
indoor units

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 hierarchical structure, such as by section, division or department is possible.



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

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



Remote controller prohibition

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



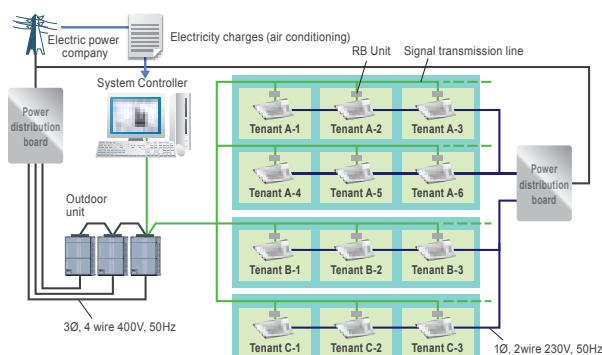
Electricity charge apportionment

Standard for System Controller

Option for System Controller Lite UTY-PLGXA1

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.

System Configuration Example



Error display & E-mail notification

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



Operating & control record

Displays the history of operation status and control.



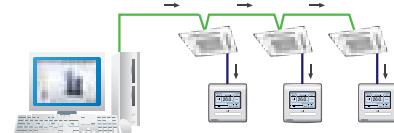
Data base import/export

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



Automatic clock adjustment

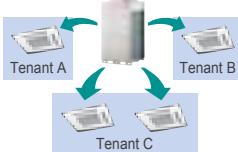
The time setting of each controller can be set in batch automatically.



Energy used by each unit is calculated

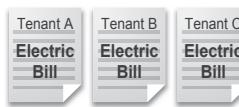


Energy apportioned by the outdoor unit to each indoor unit is calculated



Electricity charges by tenant are calculated

The distribution ratio for energy used by each indoor unit is calculated and the electricity charges for the energy used by each indoor unit are calculated from the total electricity charges.



The energy used by each indoor unit and the energy apportioned by the outdoor unit are added together to calculate the total amount of energy used.



Controller

Remote management

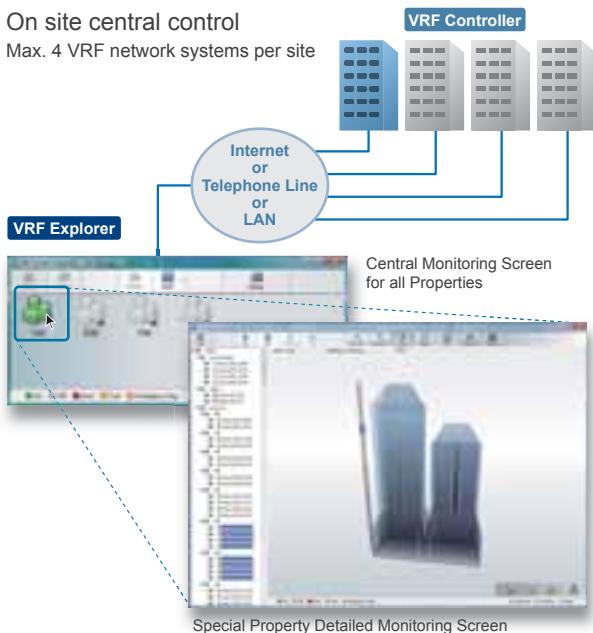
Standard for System Controller

Option for System Controller Lite UTY-PLGXR1

System Controller may be used on site or remotely over various networks for remote central control. System Controller requires 2 softwares working together. VRF Controller runs on site and communicate with VRF system. VRF Explorer runs remotely and provides user interface and communicate with the VRF Controller. VRF Controller and VRF Explorer program may run in a single PC or in different PCs separated by network. By using VRF Explorer software, one PC can perform central control of 10 VRF system sites with max. 20 buildings per site.

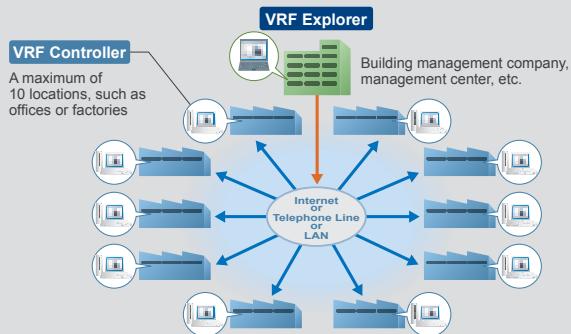
On site central control

Max. 4 VRF network systems per site

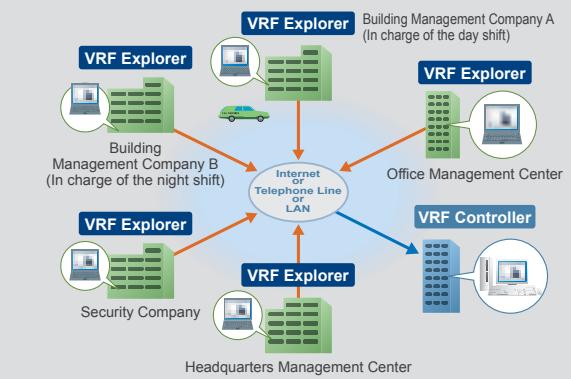


Remote central control

1 VRF Explorer can control or monitor up to 10 sites.



1 VRF Controller can be monitored from any number of VRF Explorers (Up to 5 connections simultaneously).

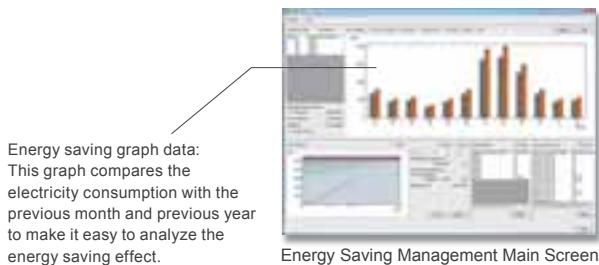


Energy saving management

Option for System Controller UTY-PEGX

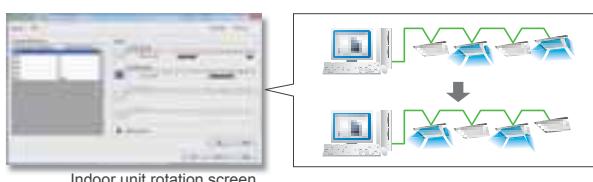
Option for System Controller Lite UTY-PLGXE1

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.



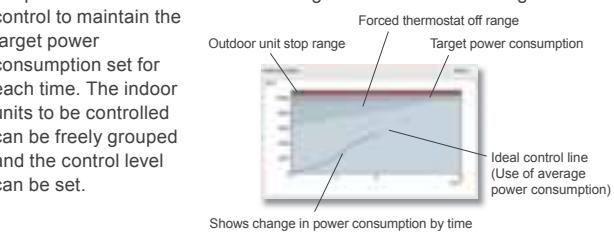
Indoor unit rotation operation

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 | | | |
|----------------------------------|--|---|--------------------|------------------------|----------------------|----------------------|----------------------|
| | | UTY-APGX | Option UTY-PEGX | UTY-ALGX | Option UTY-PLGXR1 | Option UTY-PLGXA1 | Option UTY-PLGXE1 |
| System specification | Max. VRF networks supported | 4 | - | 1 | - | - | - |
| | Max. indoor unit / remote controller groups per VRF network | 400 | - | 400 | - | - | - |
| | Max. outdoor units per System controller | 100 | - | 100 | - | - | - |
| | Max. indoor units / remote controller groups per System controller | 1600 | - | 400 | - | - | - |
| | Max. outdoor units per System controller | 400 | - | 100 | - | - | - |
| Site supervision | Multi site display | 10 | - | 10 | - | - | - |
| | Number of building / 1 site | 20 | - | - | - | - | - |
| | Number of floor per 1 site | 200 | - | - | - | - | - |
| | Number of floor per 1 building | 50 | - | - | - | - | - |
| | 3D graphical layout view | ○ | - | - | - | - | - |
| | 2D graphical layout view | ○ | - | - | - | - | - |
| | List display | ○ | - | ○ | - | - | - |
| | Tree display | ○ | - | ○ | - | - | - |
| | Group display | ○ | - | ○ | - | - | - |
| Error management | Error notification | ○ | - | ○ | - | - | - |
| | Audible alarm | ○ | - | ○ | - | - | - |
| | Error e-mail notification | ○ | - | ○ | - | - | - |
| History | Error history | ○ | - | ○ | - | - | - |
| | Operation history | ○ | - | ○ | - | - | - |
| | Control history | ○ | - | ○ | - | - | - |
| Operation control | Individual control | On/Off | ○ | - | ○ | - | - |
| | | Operation mode | ○ | - | ○ | - | - |
| | | Room temperature | ○ | - | ○ | - | - |
| | | Fan speed | ○ | - | ○ | - | - |
| | | Air flow direction | ○ | - | ○ | - | - |
| | | Economy mode | ○ | - | ○ | - | - |
| | | Room temperature set point limitation | ○ | - | ○ | - | - |
| | | Test operation | ○ | - | ○ | - | - |
| | Individual management | Antifreeze | ○ | - | ○ | - | - |
| | | Remote control prohibition setting | ○ | - | ○ | - | - |
| Schedule | Temperature upper and lower limit setting | Temperature upper and lower limit setting | ○ | - | ○ | - | - |
| | | Filter sign reset | ○ | - | ○ | - | - |
| | | Other | ○ | - | ○ | - | - |
| | Other | Memory operation | ○ | - | ○ | - | - |
| | | Pattern operation | ○ | - | ○ | - | - |
| | | Annual Schedule | ○ | - | ○ | - | - |
| Remote management | Special day setting | Special day setting | ○ | - | ○ | - | - |
| | | On / off per day | 72 | - | 72 | - | - |
| | | On / off per week | 504 | - | 504 | - | - |
| | Day off | Day off | ○ | - | ○ | - | - |
| | | Min. unit of timer setting (Minutes) | 10 | - | 10 | - | - |
| | | Low noise mode Weekly schedule | ○ | - | ○ | - | - |
| Electricity charge apportionment | Remote monitoring | ○ | - | - | ○ | - | - |
| | Remote operation control | ○ | - | - | ○ | - | - |
| | Remote function setting | ○ | - | - | ○ | - | - |
| Energy saving management | 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 | - | ○ | - | - | ○ | - |
| Others | Indoor unit rotation | - | ○ | - | - | - | ○ |
| | Peak cut control | - | ○ | - | - | - | ○ |
| | Outdoor unit capacity save | - | ○ | - | - | - | ○ |
| Others | Record of energy saving operation | - | ○ | - | - | - | ○ |
| | Energy saving information | - | ○ | - | - | - | ○ |
| | Power consumption monitor | - | ○ | - | - | - | ○ |
| Others | Electricity meter supported | - | ○ | - | - | - | ○ |
| | Database import/export | ○ | - | ○ | - | - | - |
| | Automatic clock adjustment | ○ | - | ○ | - | - | - |
| Others | Multi language | 7 languages | - | 7 languages | - | - | - |

○: Available. - : Not available.

*: Power calculation application software is necessary, please contact the local FGL representative.

Personal computer system requirements

| | |
|------------------|--|
| Operating system | <ul style="list-style-type: none"> Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 Microsoft® Windows® 8 (32-bit or 64-bit), Windows® 8 Pro (32-bit or 64-bit) Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) <p>[Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish</p> |
| CPU | Intel® Core™ i3 2 GHz or higher |
| Memory | <ul style="list-style-type: none"> For Windows Vista® and Windows® 7 (32-bit): 2 GB or more For Windows® 7 (64-bit), Windows® 8, and Windows® 8.1: 4 GB or more |
| HDD | 40 GB or more of free space |
| Display | 1024 x 768 or higher resolution |
| Interface | <p>USB port is required for each of the followings for Server PC ;</p> <ul style="list-style-type: none"> Wibu Key (Software protection key) Echelon® U10 USB Network Interface (Required for each VRF Network) <p>Ethernet port is required for remote connection using internet.</p> |
| Accelerator | Microsoft® DirectX® 9.0c compatible |
| Software | Adobe® Reader® 9.0 or later |
| Optical drive | DVD-ROM drive |

Personal computer must be field supplied.

U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.

Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number : 75010R

PACKING LIST

| Type | For System controller | | For System controller Lite | | | |
|------------------------------------|-----------------------|----------------------------|----------------------------|---------------|----------------------------------|---------------|
| | System Controller | (Option) Energy manager | System Controller Lite | Remote access | Electricity charge apportionment | Energy saving |
| Model name | UTY-APGX | UTY-PEGX | UTY-ALGX | UTY-PLGXR1 | UTY-PLGXA1 | UTY-PLGXE1 |
| DVD-ROM | 1 | 1 | 1 | - | - | - |
| WibuKey*1(Software protection key) | 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 Wibu Key. However, WibuKey is not required for remote VRF Explorer software.

Adaptor & Convertor

BACnet® Gateway : UTY-ABGX Software

- 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-135-2004) 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.



DVD-ROM (Software)



Software Protection Key



BTL

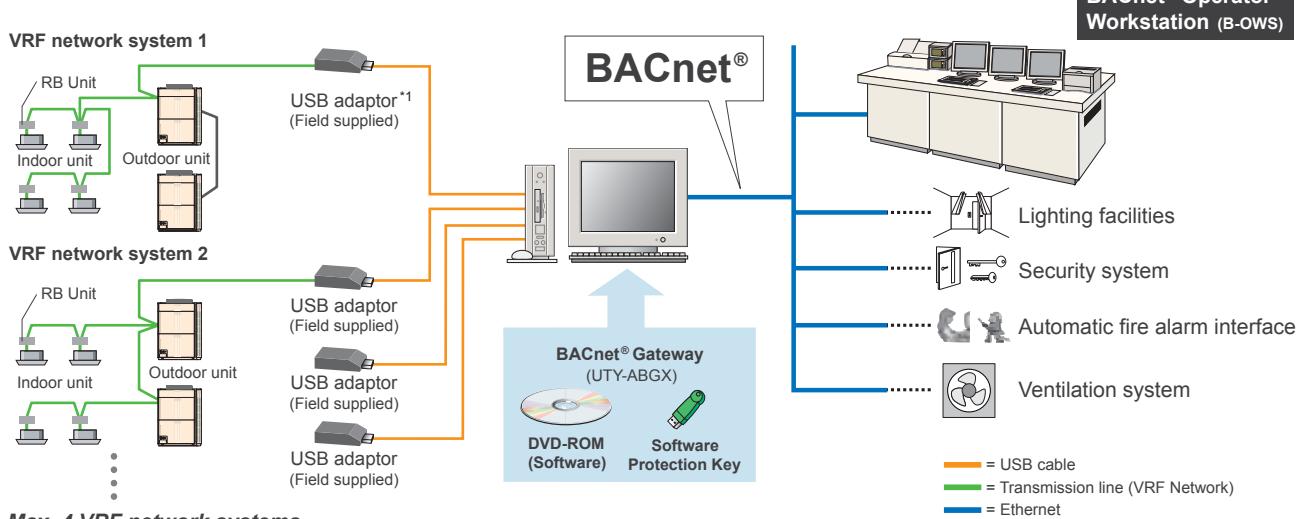
TESTED AND CERTIFIED
BY THE BILDERBERG
TESTING LABORATORY

Max. controllable
4
VRF network systems

Max. controllable
400
outdoor units

Max. controllable
1,600
indoor units

Installation example



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

Personal computer system requirements

| | | UTY-ABGX |
|------------------|--|---|
| Operating system | | <ul style="list-style-type: none"> Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP1 Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 Microsoft® Windows® 8 (32-bit or 64-bit), Windows® 8 Pro (32-bit or 64-bit) Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) <p>[Supported languages]</p> <p>English, Chinese, French, German, Russian, Spanish, and Polish</p> |
| CPU | | Intel® Core™ i3 2 GHz or higher |
| Memory | | <ul style="list-style-type: none"> For Windows Vista® and Windows® 7 (32-bit): 2 GB or more For Windows® 7 (64-bit), Windows® 8, and Windows® 8.1: 4 GB or more |
| HDD | | 40 GB or more of free space |
| Display | | 1024 x 768 or higher resolution |
| Interface | | <ul style="list-style-type: none"> Ethernet port (for getting access to the Internet using LAN) USB ports (Maximum of 5 ports) <ul style="list-style-type: none"> - 1 USB port is required for WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Required maximum USB port numbers depend on the applicable system configurations. |
| Software | | Adobe® Reader® 9.0 or later |
| Optical drive | | DVD-ROM drive |

<Packing list>

| Name and shape | Quantity | Application |
|--------------------------------------|----------|---|
| DVD-ROM | 1 | Includes the software and manuals for BACnet® Gateway. |
| WibuKey (Software protection key) | 1 | Software protection key to be connected to USB port on the BACnet®-installed PC. BACnet® Gateway runs only on a PC with WibuKey. |

Personal computer must be field supplied.

U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.

Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number : 75010R

Network Convertor for LonWORKS® : UTY-VLGX

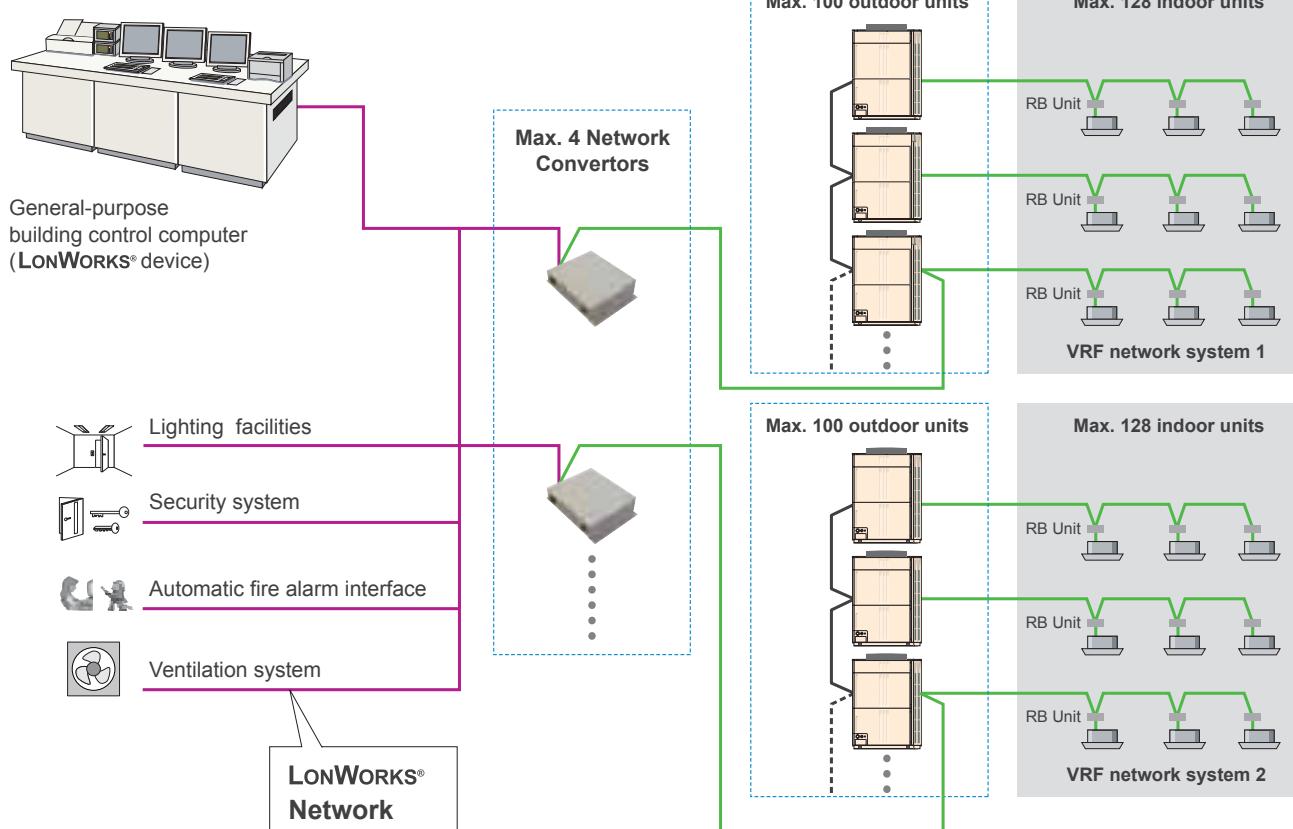


Max. controllable
4
units to BMS

Max. controllable
128
indoor units

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

Installation example



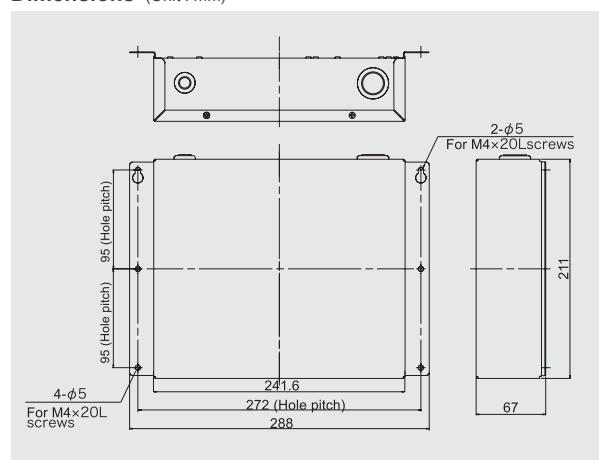
Specifications

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

Transmission specifications (BMS side)

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

Dimensions (Unit : mm)

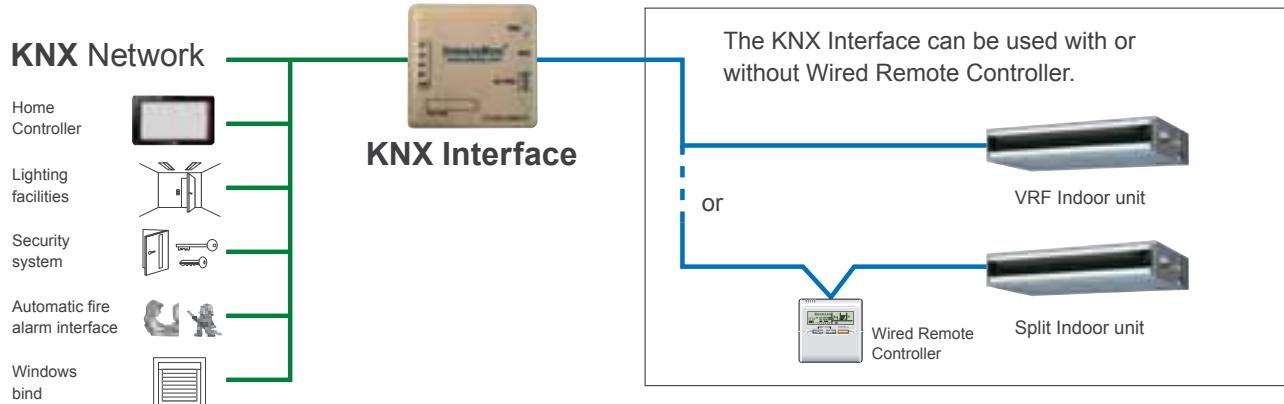


Adaptor & Convertor

KNX® Interface : FJ-RC-KNX-1i

The KNX Interface allows a complete integration of air conditioners with KNX Network systems.

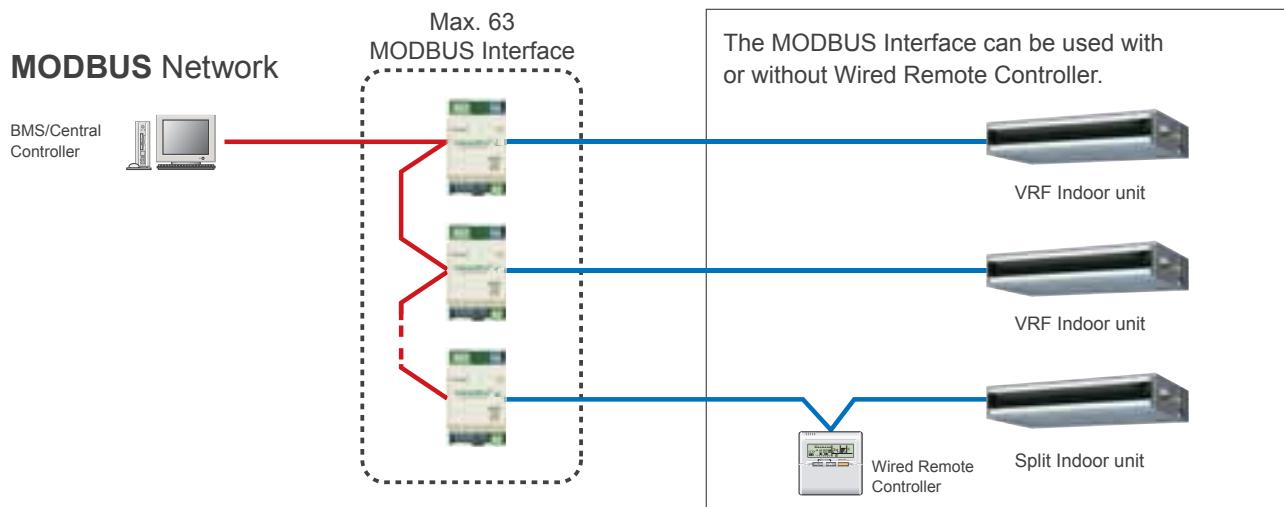
- Simple installation due to small and compact size.
- No separate external power supply required (just KNX bus power).
- Can be used for single indoor units and group controlled (up to 16) indoor units.



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.



Specifications

| Model name | FJ-RC-MBS-1 |
|-----------------------------|-------------|
| Dimensions (H x W x D) (mm) | 93x53x58 |
| Weight (g) | 85 |

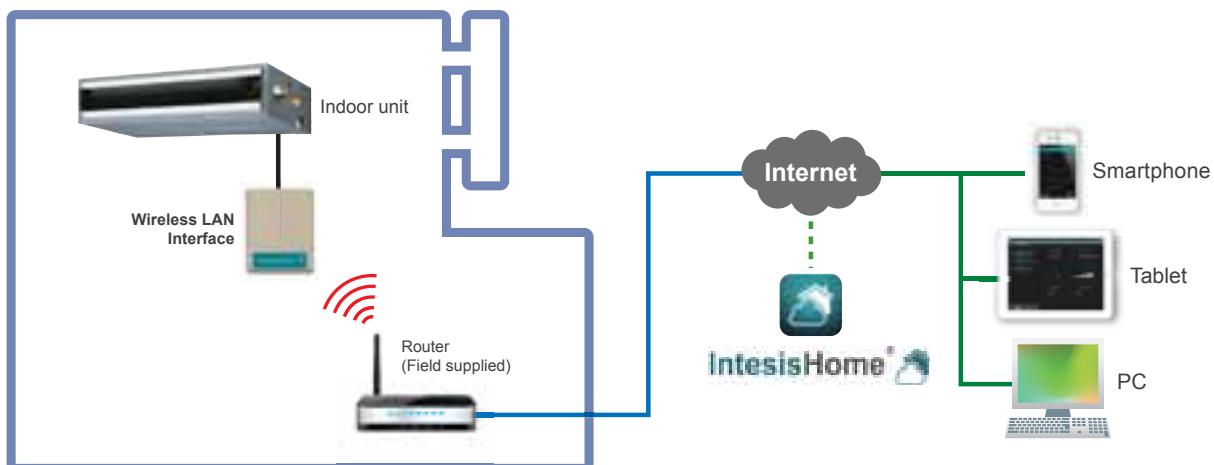
| Model name | FJ-RC-KNX-1i |
|-----------------------------|--------------|
| Dimensions (H x W x D) (mm) | 70x70x28 |
| Weight (g) | 70 |

NEW Wireless LAN Interface : FJ-RC-WIFI-1

IntesisHome 



- 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



Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Louver position (Airflow direction setting)
- Room temperature display
- Set temperature control
- Multi Language
- One Scene and Timer

Advanced control (Optional functions)

- Climate working modes (ECO, Comfort, Powerful) (future release)
- Schedulable functionalities (ON/OFF, Modes, Set point temperature, Fan Speed, Louver position)
- Set temperature limitation (future release)
- Multiple Scenes & Timers and Calendar function

Notifications and history

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

Specifications

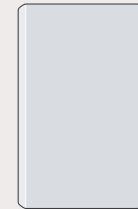
| | |
|-----------------------------|--------------|
| Model name | FJ-RC-WIFI-1 |
| Dimensions (H x W x D) (mm) | 70x108x28 |
| Weight (g) | 80 |

Adaptor & Convertor

External Switch Controller : UTY-TEKX

Air conditioner switching can be controlled by connecting other sensor switches

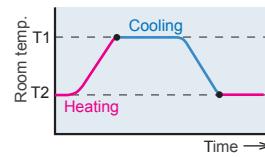
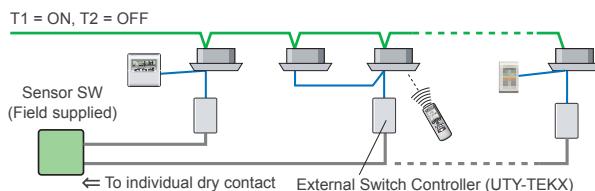
- In combination with a field supply Card-Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are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



Installation example

Auto mode operation, which switches the cooling and the heating automatically, is enabled by using the sensor switch and External Switch Controller.

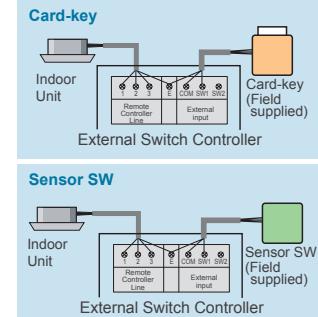
Note: All indoor units will operate in the same mode.



Note 1.
Please choose a thermosensor switch which can be set up for T1 and T2.

Note 2.
The remote controller's operation is prior to the auto mode operation.

Electrical wiring

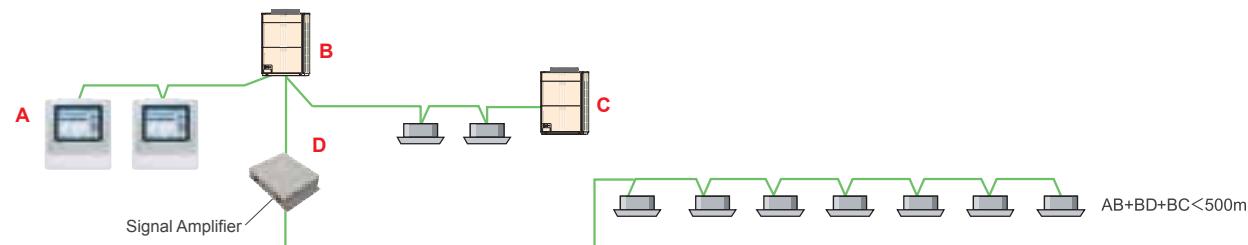


Signal Amplifier : UTY-VSGXZ1



- Transmission Line length can be extended up to 3,600m with multiple Signal Amplifiers.
- Up to 8 signal amplifiers can be installed in a VRF network system.
- A signal amplifier is required,
 - When the total wiring length of the transmission line exceeds 500m.
 - When the total number of units on the transmission line exceeds 64.

Installation example



Specifications

| Model name | UTY-TEKX |
|---------------------------------------|---------------|
| Power Supply | DC 12V |
| Dimensions (H x W x D) (mm) | 120 x 75 x 30 |
| Weight (g) | 100 |
| DC12V is supplied by the indoor unit. | |

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

Max.
controllable
16
Network
Convertor units

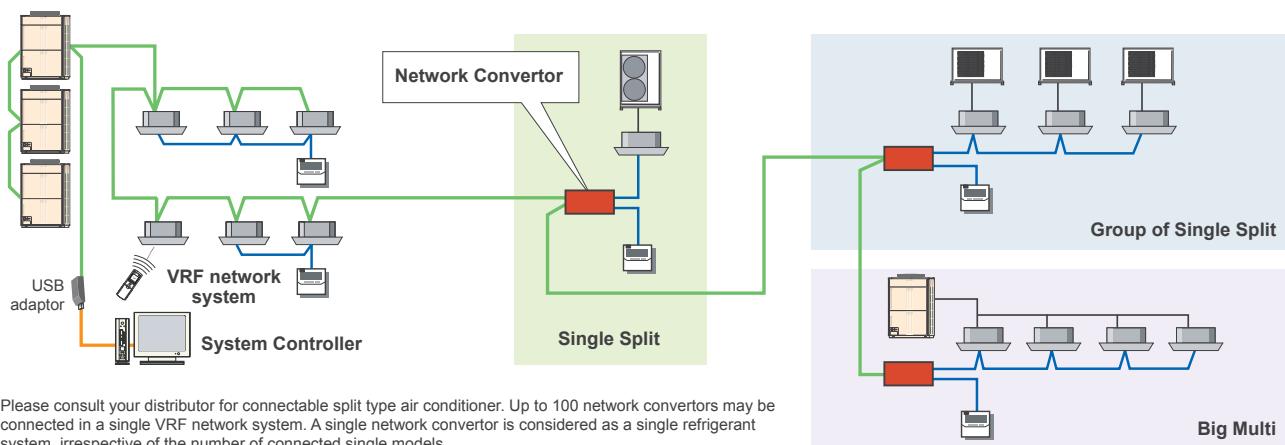
Network Convertor : UTY-VGGXZ1



- This network convertor is to be used for connecting single split system or group remote controller with the VRF network system.
- Please select the function by switching the dip switch during the installation.

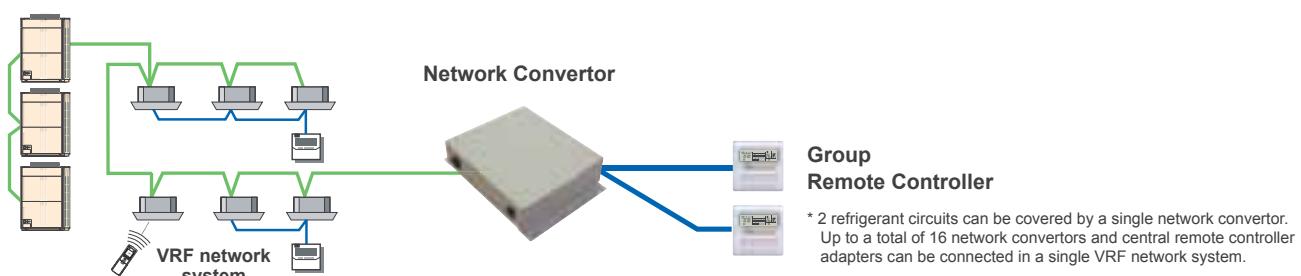
Installation example

- Split type systems can be controlled from a central remote controller or PC controller through connection to the VRF's network convertor.
- Standard remote controller and central remote controller provide On / Off control, master control, temperature and fan control, etc.
- A single network convertor can be used to connect and control up to 16 single units.



Used for connecting Group Remote Controller

4 group remote controllers can be connected to a single Network convertor.



Specifications

| | |
|-----------------------------|--------------------------------|
| Model name | UTY-VGGXZ1 |
| Power Supply | 208-240V 50/60Hz, Single phase |
| Power Consumption (W) | 6.5 |
| Dimensions (H x W x D) (mm) | 67 x 288 x 211 |
| Weight (g) | 1,500 |

Service & Maintenance

Service Tool : UTY-ASGX Software

Extensive monitoring and analysis functions for installation and maintenance

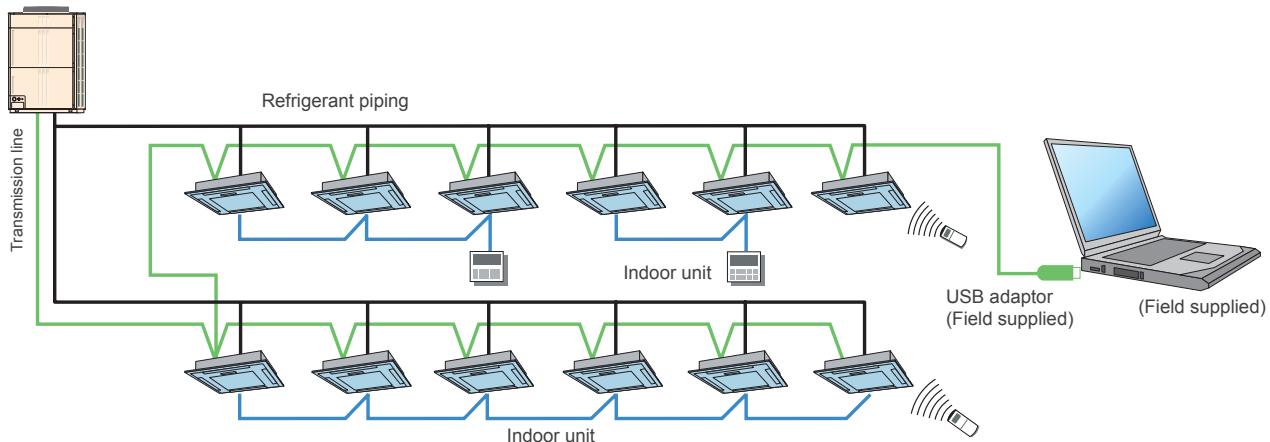
- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
- This software can be connected to any point of transmission line with USB adaptor (field supplied).



Max. Monitor and control
400
 indoor units

Max. Monitor and control
100
 outdoor units

Wiring connection



Functions

• Equipment Detail (Diagram)



- Equipment Detail (List)
- Error History
- Remote File Download
- System List
- Commissioning Tool

Personal computer system requirements

| | | UTY-ASGX |
|------------------|---|--|
| Operating system | | <ul style="list-style-type: none"> • Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8 Pro (32-bit or 64-bit) |
| CPU | 1 GHz or higher | |
| Memory | | <ul style="list-style-type: none"> • For Windows Vista®, Windows® 7 (32-bit), and Windows® 8 (32-bit): 1 GB or more • For Windows® 7 (64-bit) and Windows® 8.1 (64-bit): 2 GB or more |
| HDD | 10 GB or more of free space | |
| Display | 1024 x 768 or higher resolution | |
| Interface | | <ul style="list-style-type: none"> • 2 USB ports <ul style="list-style-type: none"> - 1 USB port is required for WibuKey connection - 1 USB port is required for Echelon® U10 USB Network Interface |
| Software | Internet Explorer® 8.0 or 9.0 or 10.0 / Adobe® Reader® 9.0 or later | |
| Optical drive | DVD-ROM drive | |

<Packing list>

| Name and shape | Quantity | Application |
|--------------------------------------|----------|---|
| DVD-ROM | 1 | Includes the software and manuals |
| WibuKey (Software protection key) | 1 | Software protection key to be connected to USB port on the Service Tool-installed PC. These products runs only on a PC with WibuKey. |

Personal computer must be field supplied.

U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.

Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number : 75010R

Web Monitoring Tool : UTY-AMGX Software

VRF network system can be supported
4

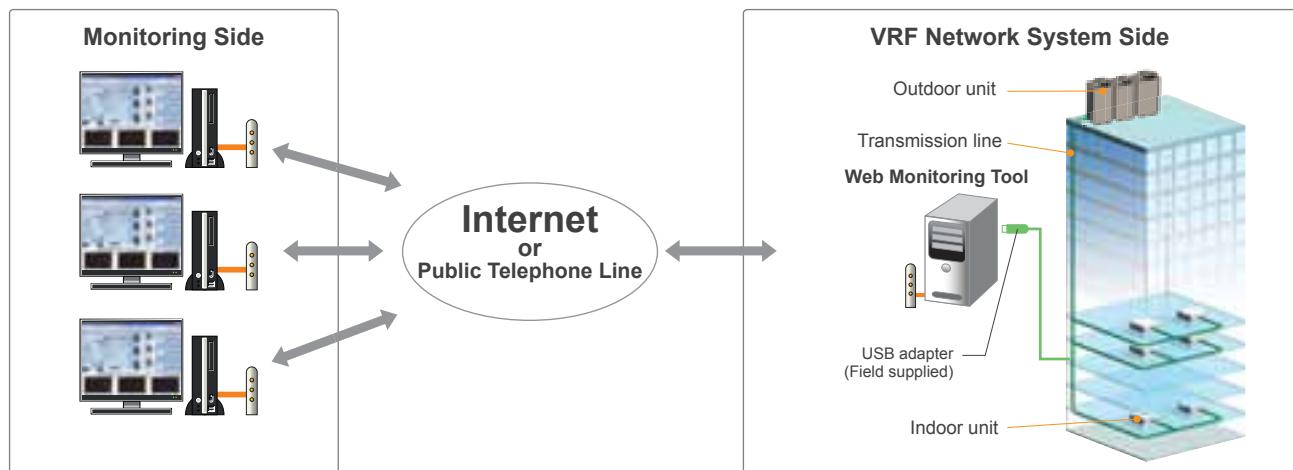
Product features

- 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.

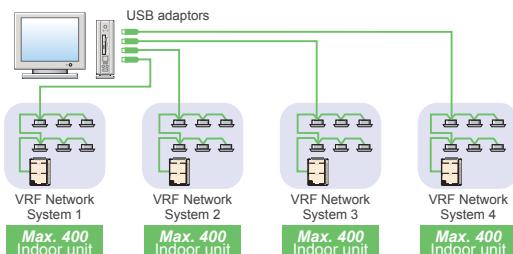
1,600
indoor units
can be
supported

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-AMGX |
|------------------|---|--|
| Operating system | | <ul style="list-style-type: none"> • Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8 Pro (32-bit or 64-bit) |
| CPU | 1 GHz or higher | |
| Memory | | <ul style="list-style-type: none"> • For Windows Vista®, Windows® 7 (32-bit), and Windows® 8 (32-bit): 1 GB or more • For Windows® 7 (64-bit) and Windows® 8 (64-bit): 2 GB or more |
| HDD | 40 GB or more of free space | |
| Display | 1024 x 768 or higher resolution | |
| Interface | | <ul style="list-style-type: none"> • Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) • USB ports (Maximum of 5 ports) <ul style="list-style-type: none"> - 1 USB port is required for WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface <p>* Required maximum USB port numbers depend on the applicable system configurations.</p> |
| Software | Internet Explorer® 8.0 or 9.0 or 10.0 / Adobe® Reader® 9.0 or later | |
| Optical drive | DVD-ROM drive | |

<Packing list>

| Name and shape | Quantity | Application |
|---------------------------------------|----------|---|
| DVD-ROM | 1 | Includes the software and manuals |
| Wibu Key (Software protection key) | 1 | Software protection key to be connected to USB port on the Service Tool-installed PC. These products runs only on a PC with WibuKey. |

Personal computer must be field supplied.

U10 USB Network Interface must be field supplied. Contact Echelon® Corporation or its local sales representative for detail.

Product Name : U10 USB Network Interface - TP/FT-10 Channel Model Number : 75010R



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."



164 Energy Recovery Ventilator

166 Outdoor Air Unit

168 DX-Kit for air handling applications

VENTILATION



Energy Recovery Ventilator

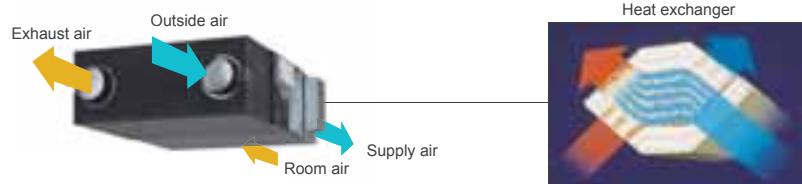
UTZ-BD025B / UTZ-BD035B / UTZ-BD050B / UTZ-BD080B / UTZ-BD100B

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



Features

Adopts a highly efficient counter-flow heat exchange element



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.

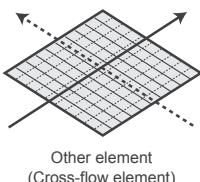
High Efficiency

Energy efficiency and ecology

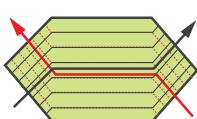
20%
Energy saving

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



Other element
(Cross-flow element)



Fujitsu element
(Counter-flow 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 remains unchanged.

More Comfort

Quiet operation

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

Design Flexibility

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 of buildings.

Features

Easy Installation and Maintenance

Slim shape and easier installation

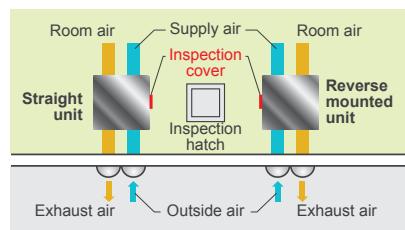
Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.



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.



Specifications

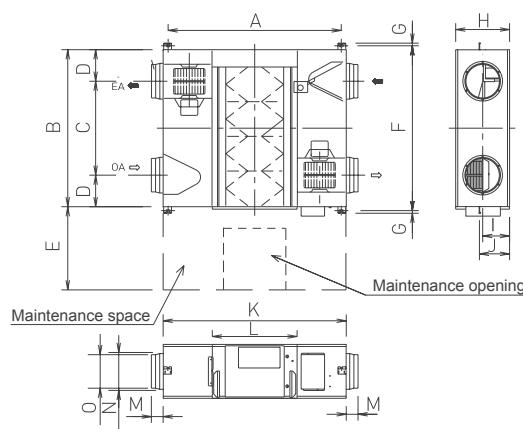
| Rated flow rate | | | 250 m³/h | 350 m³/h | 500 m³/h | 800 m³/h | 1000 m³/h |
|--------------------------------------|--------------------------|-----------------------|--------------------|--------------------|--------------------|------------------|--------------------|
| Model No. | | | UTZ-BD025B | UTZ-BD035B | UTZ-BD050B | UTZ-BD080B | UTZ-BD100B |
| Power source | | | | | 220 - 240V, 50Hz | | |
| 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 | m³/h | 250 / 250 / 190 | 350 / 350 / 240 | 500 / 500 / 440 | 800 / 800 / 630 | 1000 / 1000 / 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 |
| Sound pressure level | (Extra high)/High/Low | dB* | 31.5 / 30.5 / 26.5 | 33 / 31 / 25.5 | 37.5 / 35.5 / 32.5 | 37.5 / 37 / 34.5 | 38.5 / 37.5 / 34.5 |
| Normal Ventilation | Input power | (Extra high)/High/Low | W | 128 / 123 / 96 | 190 / 185 / 168 | 289 / 225 / 185 | 418 / 378 / 295 |
| | Air flow rate | (Extra high)/High/Low | m³/h | 250 / 250 / 190 | 350 / 350 / 240 | 500 / 500 / 440 | 800 / 800 / 630 |
| | External static pressure | (Extra high)/High/Low | Pa | 105 / 95 / 45 | 140 / 60 / 45 | 120 / 60 / 35 | 140 / 110 / 55 |
| | Sound pressure level | (Extra high)/High/Low | dB* | 31.5 / 30.5 / 26.5 | 33 / 31 / 25.5 | 38.5 / 38 / 32.5 | 37.5 / 37 / 34.5 |
| Dimensions | WxDxH | mm | 882 x 599 x 270 | 1050 x 804 x 317 | 1090 x 904 x 317 | 1322 x 884 x 388 | 1322 x 1134 x 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 centre of the unit.

Dimensions

Models : UTZ-BD025B / UTZ-BD035B / UTZ-BD050B / UTZ-BD080B / UTZ-BD100B

(Unit : mm)



| | UTZ-BD025B | UTZ-BD035B | UTZ-BD050B | UTZ-BD080B | UTZ-BD100B |
|---|------------|------------|------------|------------|------------|
| A | 810 | 978 | 1018 | 1250 | 1250 |
| B | 599 | 804 | 904 | 884 | 1134 |
| C | 315 | 580 | 640 | 428 | 678 |
| D | 142 | 112 | 132 | 228 | 228 |
| E | 600 | 600 | 600 | 600 | 600 |
| F | 655 | 860 | 960 | 940 | 1190 |
| 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 | 1050 | 1090 | 1322 | 1322 |
| L | 414 | 470 | 470 | 612 | 612 |
| M | 95 | 70 | 127 | 85 | 85 |
| N | 219 | 162 | 210 | 258 | 258 |
| O | 144 | 144 | 194 | 242 | 242 |

Outdoor Air Unit

NEW ARXH054GTAH / ARXH072GTAH / ARXH096GTAH

Production by order

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



ARXH054GTAH



ARXH072GTAH



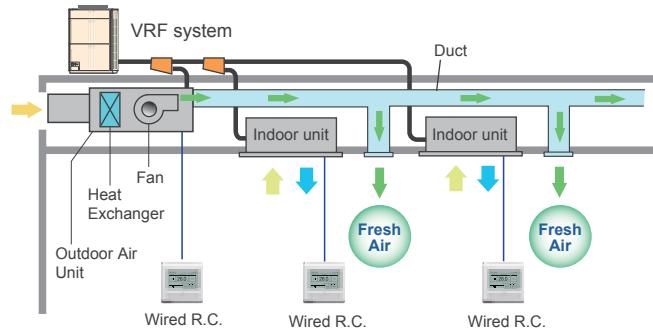
ARXH096GTAH

Features

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

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

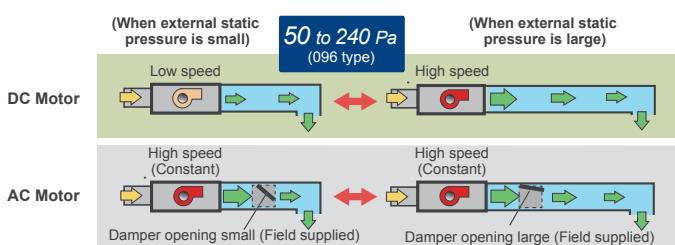
- *1. Connectable VRF series: J-II, J-II, V-II, VR-II
In J-II series alone, OAU is prohibit to connect under the ambient temperature of 40°C or higher.



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

High energy savings and flexible duct design by using DC motor

- Greatly reduces electricity consumption by adopting permanent magnet compared to when using an AC motor.
- Compared with AC motor, changing the speed makes it possible to respond flexibly to the external static pressure from 50 Pa to 240 Pa. Even if damper equipment is not used, static pressure can be adjusted and duct design is easy.
- Static pressure can be set easily using wired remote controller.



Top class compact design

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



Features

Various Controller

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

Individual Controller



Central Controller



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

Specifications

(Tentative)

| Model name | | ARXH054GTAH | ARXH072GTAH | ARXH096GTAH |
|--|---------------------|---------------|---------------|---------------|
| Power Source | V/Ø/Hz | 230/1/50 | 230/1/50 | 230/1/50 |
| Capacity | Cooling kW | 14.0 | 22.4 | 28.0 |
| | Heating kW | 8.9 | 13.9 | 17.4 |
| Input Power | Cooling/Heating W | 179 | 292 | 370 |
| Airflow Rate | m³/h | 1,080 | 1,680 | 2,100 |
| Static Pressure | Standard (range) Pa | 185 (50-185) | 200 (50-200) | 200 (50-240) |
| Sound Pressure Level | dB(A) | 42 | 44 | 47 |
| Dimensions (H x W x D) | mm | 425×1,367×572 | 425×1,367×572 | 450×1,583×700 |
| Weight | kg | 48 | 55 | 71 |
| Connection Pipe Diameter (Small / Large) | mm | Ø9.52/Ø19.05 | Ø12.70/Ø22.22 | Ø12.70/Ø22.22 |
| Operation Range | Cooling °CDB | 5 to 43 | 5 to 43 | 5 to 43 |
| | Heating °CDB | -7 to 21 | -7 to 21 | -7 to 21 |
| Refrigerant | | R410A | R410A | R410A |

Note : Specifications are based on the following conditions.

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

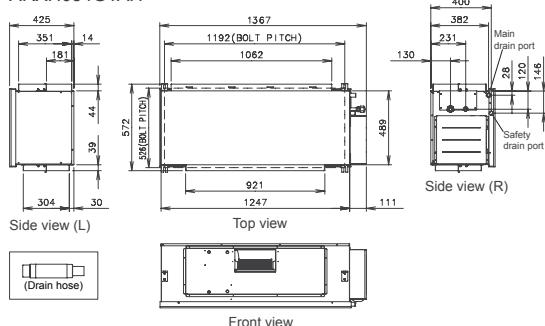
Pipe length : 7.5 m Voltage : 230 [V].

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

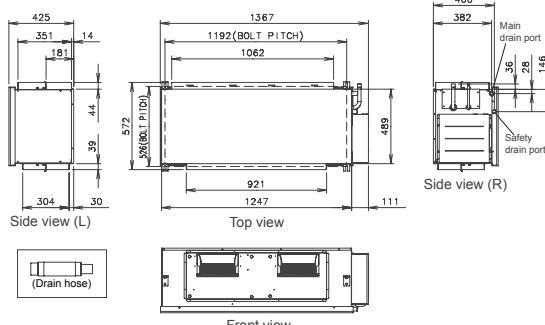
Dimensions Models : ARXH054GTAH/ARXH072GTAH/ARXH096GTAH

(Unit : mm)

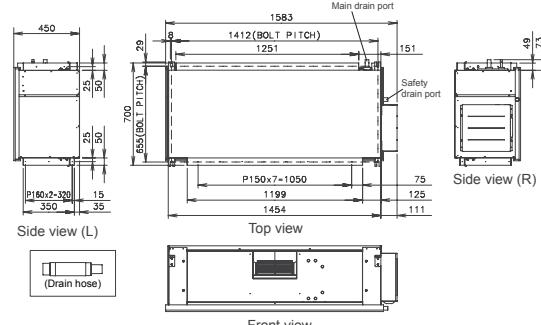
ARXH054GTAH



ARXH072GTAH



ARXH096GTAH



NEW Control unit : UTY-VDGX

Future Release

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

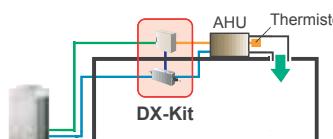
This kit can connect the general-purpose air handling unit (AHU) and the fan coil unit (FCU) to the VRF system.

It enables VRF system to control the operation of both air conditioner and ventilation.

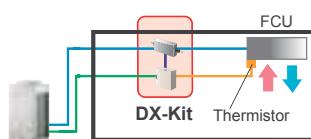


Features

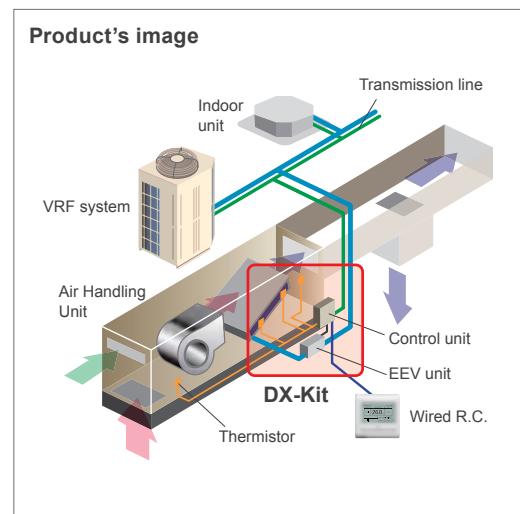
Multiple temperature sensors optimally control the air handling unit and fan coil unit.



In case of connecting the air handling unit, the supply air temperature is controlled optimally by the discharge temperature control.

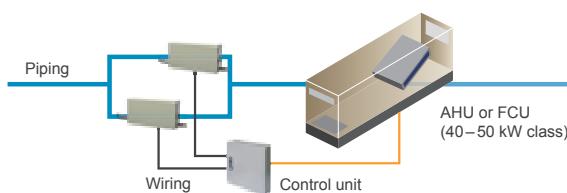


In case of connecting the fan coil unit, the room temperature is controlled optimally by the intake temperature control.



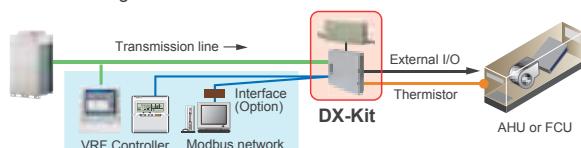
Supports a wide range of capacity classes

- 2 EEV units can be connected in parallel and up to 20 HP (50 kW) large capacity units can be connected.
- Connectable capacity range: 5 kW to 50 kW

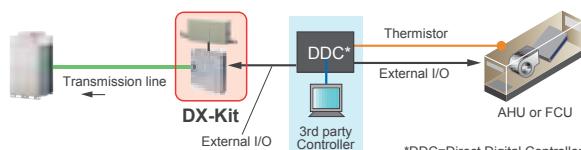


A variety of controls to match the application

- Central control using our VRF controllers or central management controllers



- Central control from external controllers



*DDC=Direct Digital Controller

Features

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

Installation Limitation

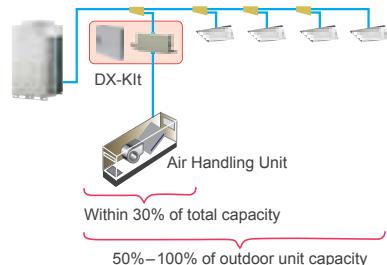
- Connectable VRF series : J-IIS, J-II, V-II, VR-II
- Connectable DX-Kit system capacity range : 50 to 100% of the outdoor unit capacity
- Connectable DX-Kit system capacity range with indoor units : 30% or less of the outdoor unit capacity
- Max. wiring length from control unit : 15 m
- Max. piping length between EEV unit and indoor unit : 5 m
- Outdoor installation : Control unit (IP54 class) and EEV unit can be installed at an outdoor space.

Connectable capacity

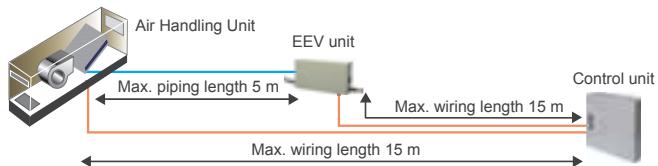
- Single connection



- Mixed connection



Piping and wiring length



Specifications

(Tentative)

| Connectable Capacity class | | 5.0kW | 6.3kW | 8.0kW | 10.0kW | 12.5kW | 14.0kW | 20.0kW | 25.0kW | 40.0kW | 50.0kW | |
|-----------------------------------|--------------------|--------------|------------|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Capacity | Cooling Heating | kW | 5.6 6.3 | 6.3 7.1 | 8.0 9.0 | 10.0 11.2 | 12.5 14.0 | 14.0 16.0 | 22.4 25.0 | 25.0 28.0 | 40.0 45.0 | 50.4 56.5 |
| Control unit | | UTY-VDGX | | | | | | | | | | |
| Power source | V/Ø/Hz | 230 / 1 / 50 | | | | | | | | | | |
| Dimensions (H × W × D) | mm | * | | | | | | | | | | |
| EEV unit | | UTP-VX30A | | | UTP-VX60A | | | UTP-VX90A | UTP-VX90A×2 | | | |
| Connection pipe diameter (Liquid) | mm | Ø9.53 | | | Ø12.7 | | | Ø12.7 | Ø12.7 | | | |
| Dimensions (H × W × D) | mm | * | | | | | | | | | | |

*Data were not available at time of production.

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].

OPTIONAL PARTS for VRF

Connection Units

Separation Tube

| | | | |
|---|---|--|---|
|  |  |  |  |
| Liquid Pipe | Liquid Pipe | Liquid Pipe | Liquid Pipe |
| UTP-AX054A | UTP-AX090A | UTP-AX180A | UTP-AX567A |
| Suction Gas Pipe | Suction Gas Pipe | Suction Gas Pipe | Suction Gas Pipe |
| Discharge Gas Pipe | Discharge Gas Pipe | Discharge Gas Pipe | Discharge Gas Pipe |
| Liquid Pipe | Liquid Pipe | Liquid Pipe | Liquid Pipe |
| UTP-BX090A | UTP-BX180A | | UTP-BX567A |

Header

Outdoor Unit Branch Kit

| | | |
|---|---|---|
|  |  |  |
| Liquid Pipe | Liquid Pipe | Liquid Pipe |
| UTR-H0906L / UTR-H1806L | UTR-H0908L / UTR-H1808L | UTP-CX567A |
| Suction Gas Pipe | Suction Gas Pipe | Suction Gas Pipe |
| Discharge Gas Pipe | Discharge Gas Pipe | Discharge Gas Pipe |
| Liquid Pipe | Liquid Pipe | Liquid Pipe |
| UTP-J0906A / UTP-J1806A | UTP-J0908A / UTP-J1808A | UTP-DX567A |

EV Kit

RB Unit

| | | |
|---|---|---|
|  |  |  |
| For Compact Wall Mounted type Model code ≤09 : UTR-EV09XB Model code ≥12 : UTR-EV14XB | Single type UTP-RX01AH / UTP-RX01BH / UTP-RX01CH | Multi type UTP-RX04BH |

Specifications

Separation Tube

| | | | | |
|--|----------------------------|--------------|--------------|--------------|
| Model name | UTP-AX054A (for J-II only) | 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-II) | 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 | ASYE04GACH ASYE07GACH ASYE09GACH | ASYE12GACH ASYE14GACH |

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 | 17 | 24 | 31 |
| Number of branches | | 1 | 1 | 1 |
| Maximum capacity of connectable indoor units (Q) | kW | Q ≥ 8.0 | Q ≤ 18.0 | Q ≤ 28.0 |
| Maximum capacity of connectable indoor units per branch (Q) | kW | Q ≥ 8.0 | Q ≤ 18.0 | Q ≤ 28.0 |
| Maximum number of connectable indoor units per branch | | 3 | 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.

OPTIONAL PARTS for VRF

Controllers

For Individual Control

Wired Remote Controller (Touch Panel)

UTY-RNRY



Wired Remote Controller

NEW UTY-RLRY



Simple Remote Controller

UTY-RSKY

With operation mode



Simple Remote Controller

UTY-RHKY

Without operation mode



Wireless Remote Controller

UTY-LNHY



IR Receiver Unit

UTB-YWC

For All Duct type



IR Receiver Unit

UTY-LRHYB1

For Cassette type



For Centralized Control

Group Remote Controller

UTY-CGGY



Central Remote Controller

UTY-DCGY



Touch Panel Controller

UTY-DTGY



System Controller Lite

Software

NEW UTY-ALGX



System Controller

Software

UTY-APGX

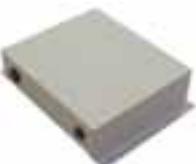


Convertors / Adaptors

For External device

| | | |
|---|---|---|
| BACnet® Gateway <small>(Software)</small> UTY-ABGX | Network Convertor for LonWORKS® UTY-VLGX | KNX® Interface FJ-RC-KNX-1i |
|  |  |  |
| MODBUS® Interface FJ-RC-MBS-1 | Wireless LAN Interface NEW FJ-RC-WIFI-1 | External Switch Controller UTY-TEKX |
|  |  |  |

For System expansion

| | |
|---|---|
| Network Convertor UTY-VGGXZ1 | Signal Amplifier UTY-VSGXZ1 |
|  |  |

Panels

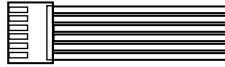
For Cassette type

| | |
|---|---|
| Cassette Grille UTG-UFYC-W For Compact Cassette type | Cassette Grille UTG-UGYA-W For Cassette type |
|  |  |

OPTIONAL PARTS for VRF

Others

Communication system: External Connect Kit

| For Indoor unit | For Outdoor unit | |
|--|--|--|
| UTY-XWZXZ7  | UTY-XWZXZD  | |
| UTY-XWZXZB  | UTY-XWZXZE  | |
| UTY-XWZXZC  | | |
| For RB unit | For Central Remote Controller | For Touch Panel Controller |
| UTY-XWZXZ6  | UTY-XWZXZ7  | UTY-XWZXZA  |
| UTY-XWZXZB  | UTY-XWZXZ8  | UTY-XWZXZA  |

Function list

| | Indoor unit | Outdoor unit | Controller | | Other |
|--------|---|--------------|------------------------------|------------------------------|------------------------------|
| | | | Central Remote Controller | Touch Panel Controller | |
| Input | Operation / Stop ● UTY-XWZXZD ○ UTY-XWZXZB | — | — | — | — |
| | All On / All Off | — | — | ● UTY-XWZXZ7 ○ UTY-XWZXZ8 | — |
| | Batch Stop | — | ● UTY-XWZXZ6 | — | — |
| | Forced Stop ● UTY-XWZXZD ○ UTY-XWZXZB | — | — | — | — |
| | Emergency Stop ● UTY-XWZXZD ○ UTY-XWZXZB | ● UTY-XWZXZ6 | ● UTY-XWZXZ7 ○ UTY-XWZXZ8 | — | — |
| | Forced Thermostat off ● UTY-XWZXZE ○ UTY-XWZXZ7 | — | — | — | — |
| | Low Noise Mode Operation | — | ● UTY-XWZXZ6 | — | — |
| | Cooling / Heating Priority | — | ● UTY-XWZXZ6*1 | — | ● UTY-XWZXZ6 ○ UTY-XWZXZB |
| | "Outdoor Unit Operation Peak Control" | — | ● UTY-XWZXZ6 | — | — |
| | "Power Usage Information from Electricity Meter" | — | ● UTY-XWZXZ6 | — | — |
| Output | Operation Status ● UTY-XWZXZC | ○ UTY-XWZXZ6 | ○ UTY-XWZXZA | ○ UTY-XWZXZA | — |
| | Error Status ● UTY-XWZXZC | ○ UTY-XWZXZ6 | ○ UTY-XWZXZA | ○ UTY-XWZXZA | — |
| | Indoor Unit Fun Operation Status ● UTY-XWZXZC | — | — | — | — |
| | Auxiliary Heater Output ● UTY-XWZXZC*2 | — | — | — | — |
| | Base Heater | — | ● UTY-XWZXZ9 | — | — |

*1. Heat Pump type only *2. Duct type only

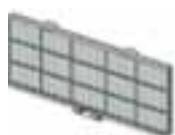
● : Dry Contact ○ : Apply Voltage

For Duct type

| |
|--|
| Flange (Round) UTD-RF204 For Medium Static Pressure Duct type / Ceiling type |
|  |

| |
|---|
| Flange (Square) UTD-SF045T For Medium Static Pressure Duct type |
|  |

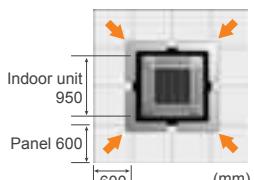
| |
|--|
| Remote Sensor Unit UTY-XSZX For All Duct type |
| New amenity space can be offered by installing the Remote sensor.  |

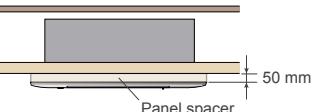
| |
|--|
| Long-Life Filter UTD-LF25NA For Medium Static Pressure Duct type |
|  |

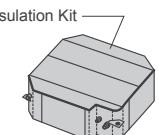
| |
|---|
| Auto Louver Grille Kit UTD-GXSA-W (for ARXD04/07/09/12/14GALH) UTD-GXSB-W (for ARXD18GALH) UTD-GXSC-W (for ARXD24GALH) For Slim Duct type |
|  |

| |
|--|
| Drain Pump Unit UTZ-PX1BBA For Low Static Pressure Duct type |
| UTZ-PX1NBA For Medium Static Pressure Duct type  |

For Cassette type

| |
|---|
| Wide Panel UTG-AGYA-W For Cassette type |
|  Indoor unit 950 Panel 600 600 (mm) |

| |
|---|
| Panel Spacer UTG-BGYA-W For Cassette type |
|  Panel spacer 50 mm |

| |
|--|
| Insulation Kit for High Humidity UTZ-KXGA For Cassette type UTZ-KXGB For Slim Cassette type UTZ-KXGC For Compact Cassette type |
|  |

| |
|---|
| Fresh Air Intake Kit UTZ-VXAA For Compact Cassette type |
|  |

| |
|--|
| Air Outlet Shutter Plate UTR-YDZB For Compact Cassette type |
| Shuts the air outlet when only using as 3 blow out.  |

| |
|--|
| Air Outlet Shutter Plate UTR-YDZC For Cassette type |
| Shuts the air outlet when only using as 3 blow out.  |

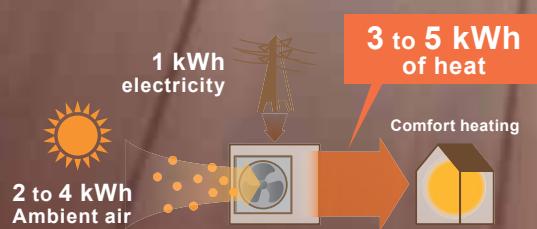
For Ceiling type

| |
|---|
| Drain Pump Unit UTR-DPB24T For Ceiling type |
|  |



WHAT'S A HEAT PUMP ?

Absorbing free energy from the atmosphere. Heat pump system requires only 1 kWh of electricity to generate 3 to 5 kW thermal energy.



WATERSTAGE™ makes an Economical
and Clean hot water heating system
by Heat Pump

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.



WATERSTAGE™

- 178** Split type
- 179** Split DHW Integrated type
- 180** Monobloc type
- 181** Smart & Comfort Control
- 182** Case studies
- 184** Optional parts
- 186** Installation Limitations
- 187** Dimensions
- 188** Specifications

AIR TO WATER



Split type

High power series

Hydraulic unit : WSYK140DC6 / [3phase] WSYK160DC9

Outdoor unit : WOYG112LCT / WOYG140LCT

[3phase] WOYK112LCT / WOYK140LCT / WOYK160LCT



Comfort series

Hydraulic unit : WSYA050DD6 / WSYA100DD6

Outdoor unit : WOYA060LDC / WOYA080LDC / WOYA100LDT



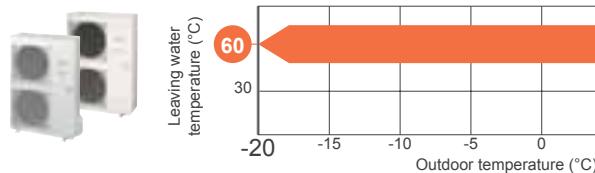
Features

High Efficiency & Comfort

High leaving water temperature

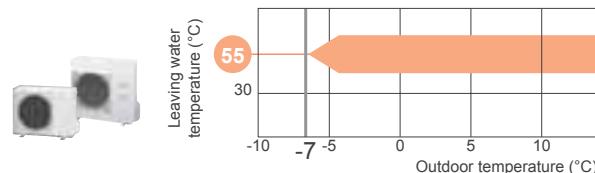
High power series : High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.

At -20°C outdoor temperature : 60°C Hot water



Comfort series : Maximum leaving water temperature is 55°C without backup heater. Hot water supply temperature can be maintained even at -7°C outdoor temperature.

At -7°C outdoor temperature : 55°C Hot water



* If you want to raise the hot water supply temperature, backup heaters can be used for auxiliary operation.

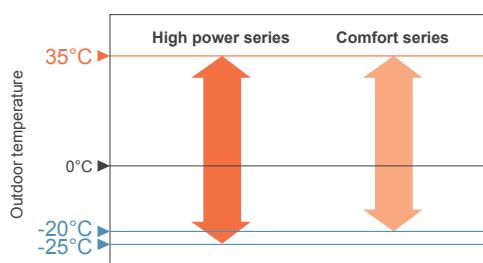
High COP

Air to water heat pumps work with much more efficiency and save more energy than a traditional heating system.



*The data refer to 16kW type Condition : Outdoor Temp. 7°C Heating Temp. 35°C.

Wide operation range



Split DHW Integrated type

High power series

Hydraulic unit : WGYG140DD6 / [3phase] WGYK160DD9

Outdoor unit : WOYG112LCT / WOYG140LCT

[3phase] WOYK112LCT / WOYK140LCT / WOYK160LCT



Comfort series

Hydraulic unit : WGYA050DD6 / WGYA100DD6

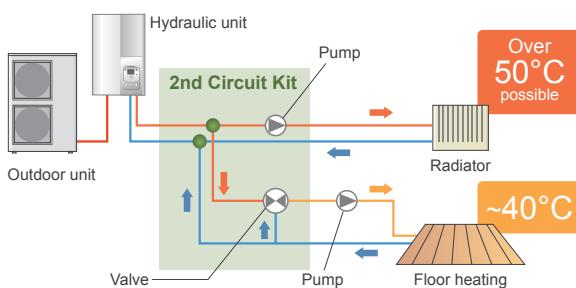
Outdoor unit : WOYA060LDC / WOYA080LDC / WOYA100LDT



Intelligent Control

2 Zone individual control*

2 Zone individual control (2 under floor heating zones or under floor heating + radiator zone, etc.)*

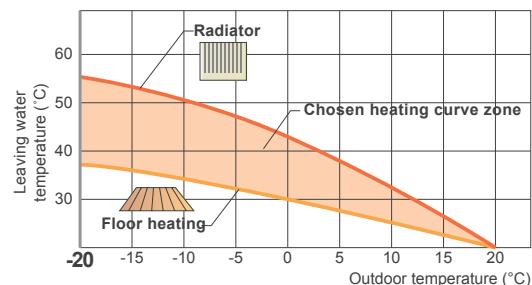


*Optional parts are required.

Automatic heating curve control

Automatic temperature regulation in accordance with heating curve
(Depends on heating terminal and outdoor temperature)

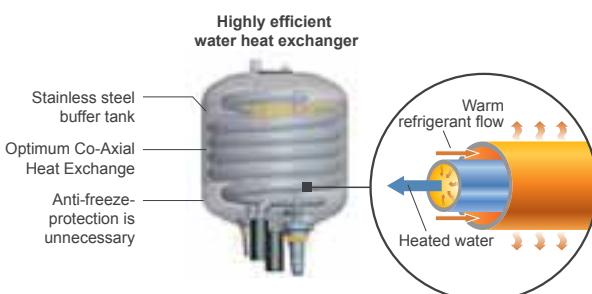
Automatic temperature control with heating curve



High Reliability

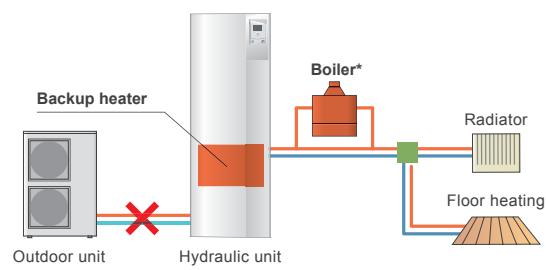
High durability

- Corrosion protected
- No flow switch and no filter necessary



Emergency operation

System can continuously supply hot water by built in back up heater or boiler, as emergency, even if an error has occurred.



*When additional boiler is connected

Monobloc type

Compact series

Monobloc unit : WPYA080LE / WPYA100LE

Control box : UTW-SCBYA



Control box



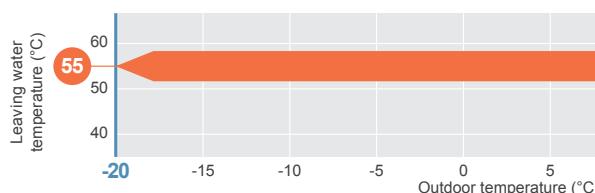
Features

Compact & High Performance

High leaving water temperature

High leaving water temperature of 55°C is kept even when outdoor temperature is down to -20°C without using backup heaters.

No
backup
heater



High COP

High COP is realized by using a DC twin rotary compressor, inverter technology, and high efficient water heat exchanger.



*Condition: Outdoor Temp. 7°C Heating Temp. 35°C.

Compact & light weight design



Weight
74 kg

Intelligent Control

Wired remote controller (control box) is adopted as standard.



Control box

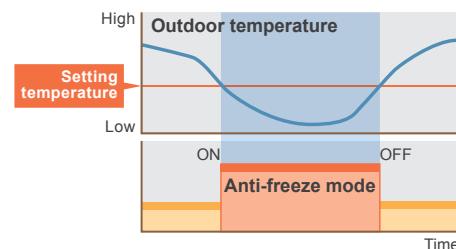
And more

- Automatic heating curve control
- Cooling operation is possible
- Anti-Legionella function
- Possible to docking the boiler or electric heater for backup (Field supplied)

High Reliability

Anti-freeze function

Water circulation and compression can be automatically performed at low outdoor temperature. Freezing of circulated water can be prevented.



Easy installation & maintenance

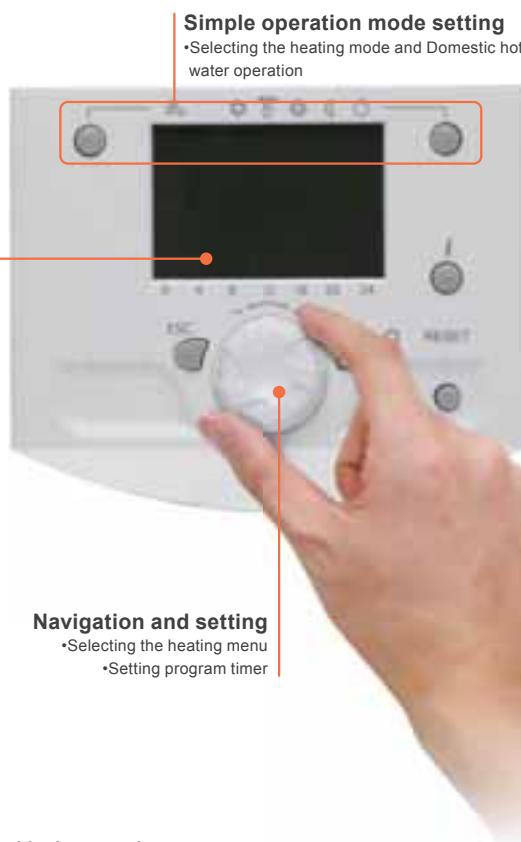
- No installation of refrigerant circuit connections.
- Easy access for maintenance operations

Smart & Comfort Control

Comfort



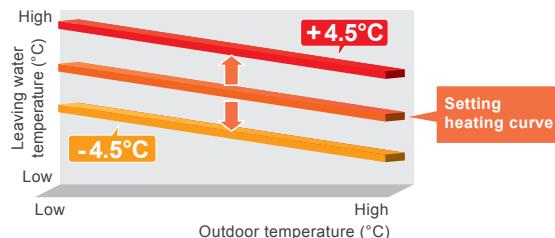
Large LCD panel
• Operation status display
• Error display
• Plain text



Automatic heating curve operation

Automatic heating curve control based on outdoor temperature and setting room temperature.

This can be adjusted when too warm or too cold.



Energy Saving

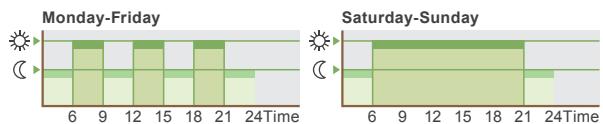
Programmable timer

- The setting of timer operation can easily be adjusted.
- Changing the heating mode linked with time is possible.

| Heating mode | |
|--------------|---|
| Auto | Automatic mode Comfort/Reduce mode switching automatically according to outdoor temperature |
| | Reduce mode Constant reduce temperature |
| | Comfort mode Constant comfort temperature |
| | Protection mode Stand-by mode with anti-frost protection |

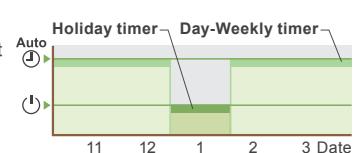
Day-Weekly timer setting

- The day-weekly timer can be set up for up to 3 times per day.
- Allows separate settings for each day of the week.



Holiday timer setting

- The holiday timer can be set up for up to 8 periods.
- If you are absent for a long time in the winter, freezing of room can be prevented.



Safety Function

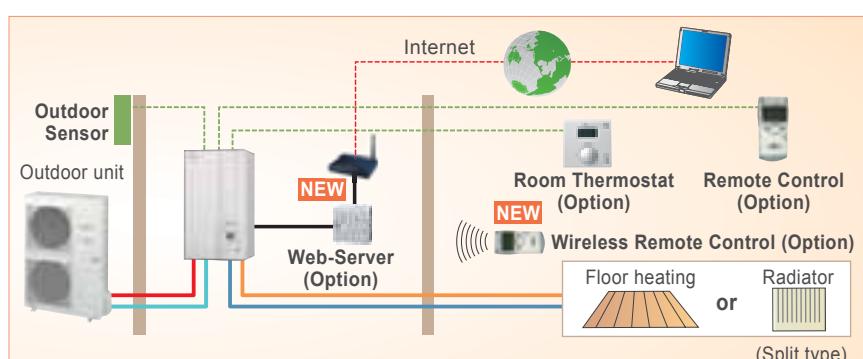
Auto-changeover

If the cooling operation function is set, the system can automatically switch to cooling or heating, depending on the outdoor temperature to provide all-season comfortable air conditioner.

Extendibility

Remote control-extension

Various remote controls are available on your hands. Remote control is also available via Web. All kinds of life styles are supported.

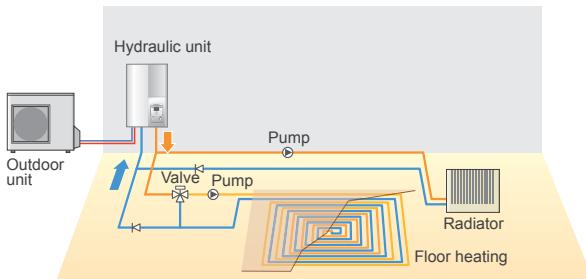


Case studies

Split Case studies

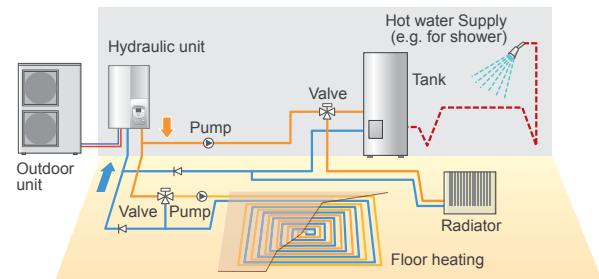
2 emitter simultaneous heating (Individual control)

Floor heating + Radiator

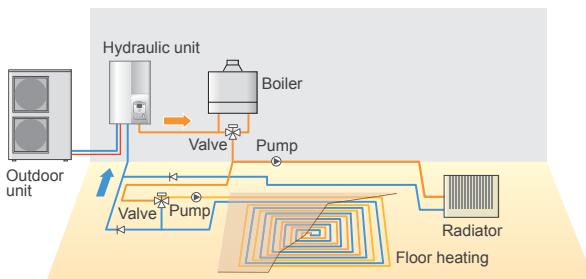


3 types of heat distribution

Floor heating + Radiator + Domestic Hot Water

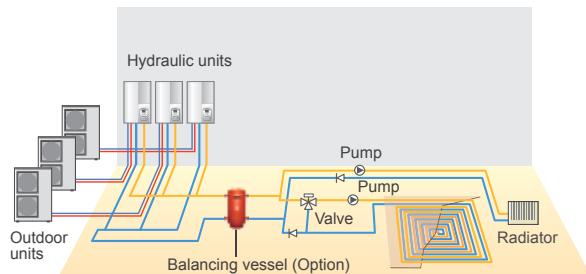


Boiler connected to heating (Boiler + Heating)

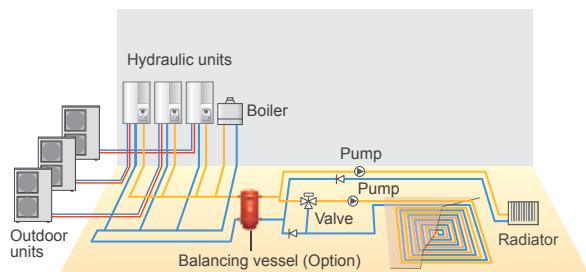


Split Cascade System Case studies

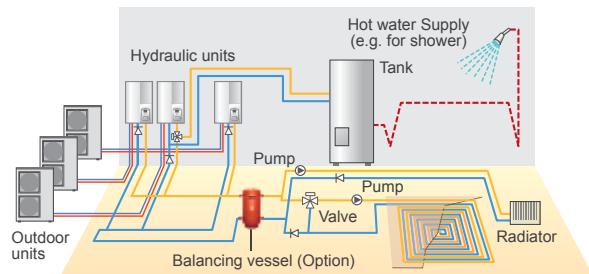
2 emitter simultaneous heating (Individual control)



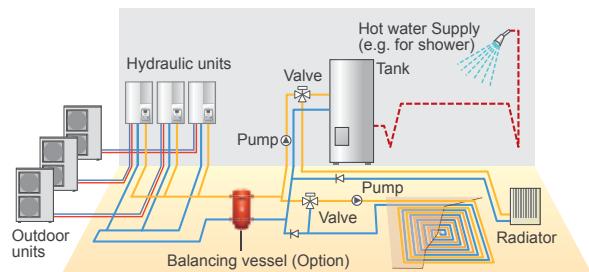
Boiler connected to heating (Boiler + Heating)



2 emitter simultaneous heating & Domestic Hot Water (type A)



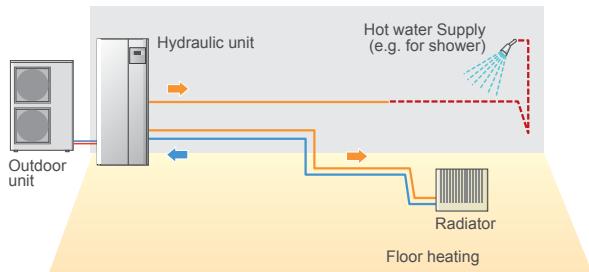
2 emitter simultaneous heating & Domestic Hot Water (type B)



Split DHW integrated Case studies

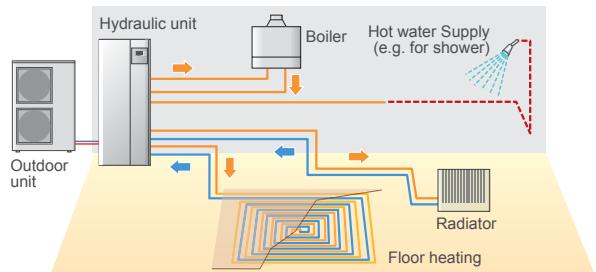
Single heating & Domestic Hot Water

Radiator + Domestic Hot Water



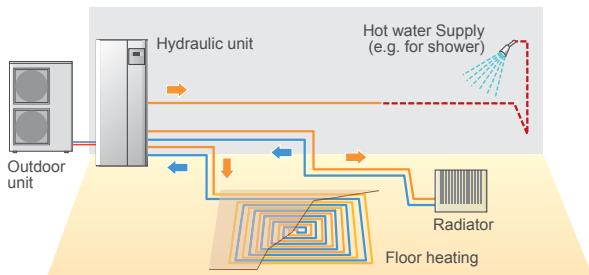
Boiler connected to heating (Boiler + Heating) & Domestic Hot Water

Radiator + Domestic Hot Water



2 emitter simultaneous heating (Individual control) & Domestic Hot Water

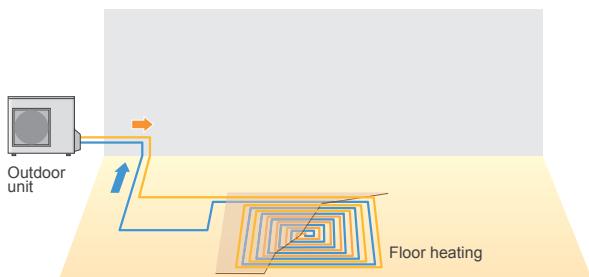
Radiator + Domestic Hot Water



Monobloc Case studies

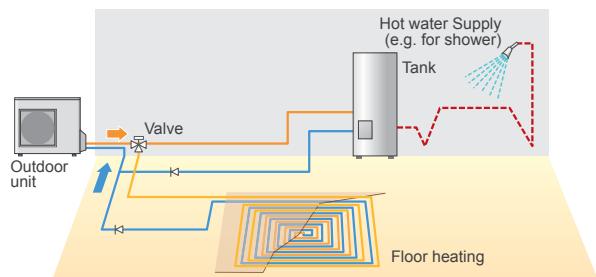
Single heating system

Floor heating



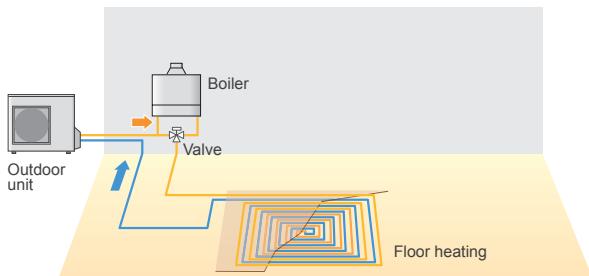
2 types of heat distribution

Floor heating + Domestic Hot Water



Boiler connected to heating (Boiler + Heating)

Floor heating



Optional parts

| Product Name | Model Name | Split | | | | | | | | Monobloc | | Split DHW integrated type | | | | | | | | |
|--------------------------------------|------------------------|------------|----|----|----|---------|---|---|---|----------|---|---------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| | | High Power | | | | Comfort | | | | Compact | | High Power | | | | Comfort | | | | |
| | | 1Ø | | 3Ø | | 1Ø | | | | 1Ø | | 1Ø | | 3Ø | | 1Ø | | | | |
| | | 11 | 14 | 11 | 14 | 16 | 5 | 6 | 8 | 10 | 8 | 10 | 11 | 14 | 11 | 14 | 16 | 5 | 6 | 8 |
| 2nd Circuit Kit | UTW-KZSXE | ● | ● | ● | ● | ● | ● | ● | ● | ● | — | — | — | — | — | — | — | — | — | — |
| | UTW-KZDXE | — | — | — | — | — | — | — | — | — | — | — | ● | ● | ● | ● | ● | ● | ● | ● |
| Boiler Connection kit | UTW-KBSXD | ● | ● | ● | ● | ● | ● | ● | ● | ● | — | — | — | — | — | — | — | — | — | — |
| | UTW-KBDXD | — | — | — | — | — | — | — | — | — | — | — | ● | ● | ● | ● | ● | ● | ● | ● |
| Balancing vessel | UTW-TEVXA | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| DHW kit | UTW-KDWXA | — | — | — | — | — | — | — | — | — | ● | ● | — ¹ |
| | UTW-KDWXD | ● | ● | ● | ● | ● | ● | ● | ● | ● | — | — | — ¹ |
| DHW Expansion Vessel kit | UTW-KDEXE | — | — | — | — | — | — | — | — | — | — | — | ● | ● | ● | ● | ● | ● | ● | ● |
| DHW tank | 200 Liter 300 Liter | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | — ¹ | — ¹ | — ¹ | — ¹ | — ¹ | — ¹ | — ¹ | — ¹ | — ¹ |
| | 300 Liter | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | — ¹ |
| Circulating pump | UTW-PHFXD | ● | ● | ● | ● | ● | ● | — | — | — | — | — | ● | ● | ● | ● | ● | — | — | — |
| Swimming Pool kit | UTW-KSPXA | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | UTW-KSPXD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | — | — | ● | ● | ● | ● | ● | ● | ● |
| Heat Exchanger for swimming pool kit | UTW-ESPXA | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Cooling kit | UTW-KCLXD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | — ² | — ² | ● | ● | ● | ● | ● | ● | ● |
| Regulation Extension Kit | UTW-KREXD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | — | — | ● | ● | ● | ● | ● | ● | ● |
| Solar Regulation Kit | UTW-KSRXE | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | — | — | — | — | — | — | — | — | — |
| Mode Exchange Kit | UTW-KMEXE | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Low Noise Kit | UTW-KLNXE | ● | ● | ● | ● | ● | ● | ● | — | — | — | — | ● | ● | ● | ● | ● | — | — | — |
| HMI Kit | UTW-KHMXE ⁵ | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | — | — | ● | ● | ● | ● | ● | ● | ● |

| Product Name | Model Name | Split | | | | | | | | Monobloc | Split DHW integrated type | | | | | | | | | |
|-------------------------------------|--------------|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|---|
| | | High Power | | | | Comfort | | | | Compact | High Power | | | | Comfort | | | | | |
| | | 1Ø | | 3Ø | | 1Ø | | 1Ø | | 3Ø | | 1Ø | | 3Ø | | 1Ø | | | | |
| | | 11 | 14 | 11 | 14 | 16 | 5 | 6 | 8 | 10 | 8 | 10 | 11 | 14 | 11 | 14 | 16 | 5 | 6 | 8 |
| Remote Controller | Wired | UTW-C75XA | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Wireless | UTW-C75XA-E ^{*5} | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Room Thermostat | Wired | UTW-C55XA | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Wireless | UTW-C58XD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Outdoor Sensor Transmitter | Wireless | UTW-MOSXD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| RF Modules | for X60-Port | UTW-M60XD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | for BSB-Port | UTW-MRCXD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Web server | Web server | UTW-KWSXD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | Web server | UTW-KW1XD UTW-KW4XD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Cascade Master Kit (incl. LPB Clip) | | UTW-KCMXE | ● | ● | ● | ● | ● | — | — | — | ● | — | — | — | — | — | — | — | — | — |
| Cascade Slave Kit (incl. LPB Clip) | | UTW-KCSXE | ● | ● | ● | ● | ● | ● | — | — | ● | — | — | — | — | — | — | — | — | — |
| LPB Clip | | UTW-KL1XD | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | — | — | ● | ● | ● | ● | ● | ● |
| Base Heater | | UTZ-HAMXE | — | — | — | — | — | — | — | — | — | ● | ● | — | — | — | — | — | — | — |
| Service Tool (incl. OCI700 adaptor) | | UTW-KSTXD | ● ^{*3} | ● ^{*3} | ● ^{*3} | ● ^{*3} | ● ^{*3} | ● ^{*3} | ● ^{*3} | ● ^{*3} | ● ^{*3} | |
| Service Tool Software | | UTW-KPSXD | ● ^{*4} | ● ^{*4} | ● ^{*4} | ● ^{*4} | ● ^{*4} | ● ^{*4} | ● ^{*4} | ● ^{*4} | ● ^{*4} | |

*1: DHW operation is possible without DHW Kit and DHW Tank.

● : Available — : Not Available

*2: Cooling operation is possible without cooling kit

*3: UTW-KL1XD is required for the connection.

*4: UTW-KSTXD(OCI700 adaptor not included), UTW-KW1XD or UTW-KW4XD is required for the connection.

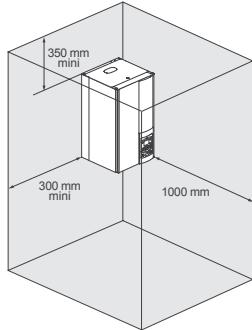
*5: Eastern European Language(English, Czech Republic, Slovakia, Poland, Turkey, Hungary, Russia, Slovenia, Greece, Serbia)

Installation Limitations

Equipment Installation

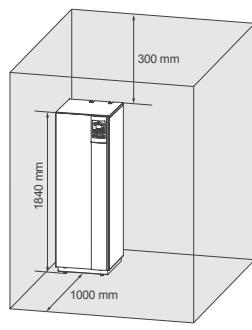
Split type Hydraulic unit

- Hydraulic unit is to be hang on the wall
- Weight < 60 kg (including water)
- Space for maintenance should be respected



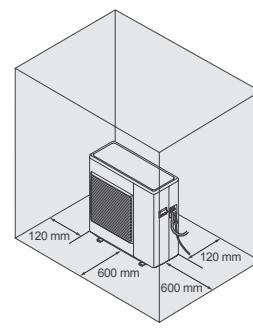
Split DHW integrated type Hydraulic unit

- Floor stand
- Weight 366 kg (including water)
- Space for maintenance should be respected.



Monobloc type Outdoor unit

- Floor stand
- Weight 74 kg (without water)
- Distances for maintenance should be kept



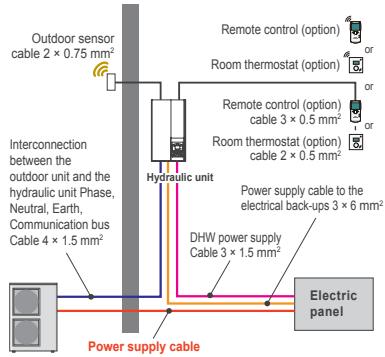
Piping and Wiring

Split type

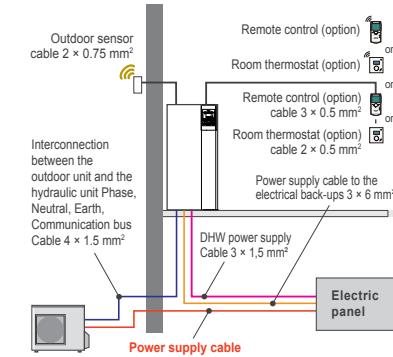
| Series | Capacity range(kW) | H (m) | L (m) |
|---------|--------------------|----------|-------|
| Comfort | 5 | ± 15 | 5-20 |
| | 6 | | |
| | 8 | | |
| | 10 | | |
| | 11 | | |
| | 14 | | |
| | 16 | | |

Electrical wiring

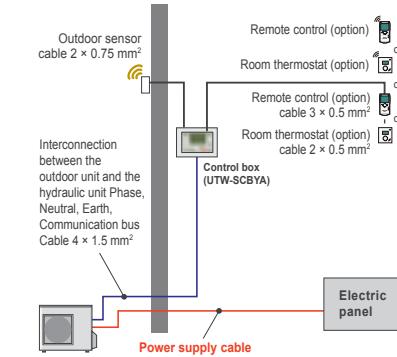
Split type



Split DHW integrated type



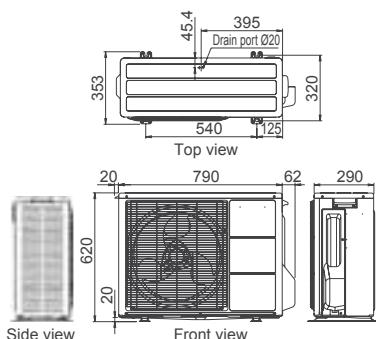
Monobloc type



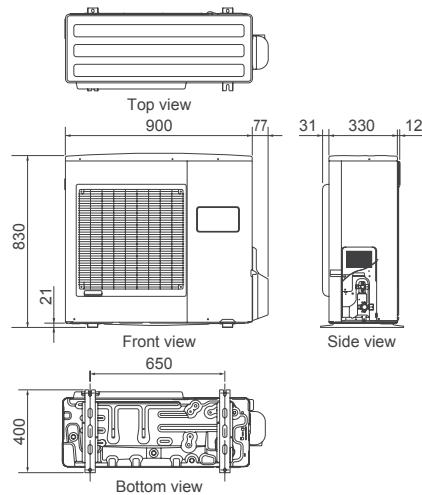
Dimensions

SPLIT TYPE

Outdoor Units Comfort series :
WOYA060LDC / WOYA080LDC



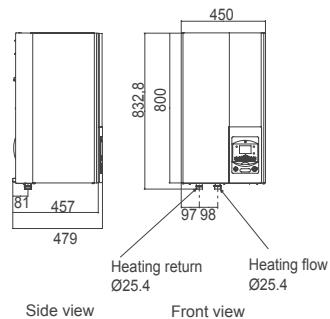
WOYA100LDT



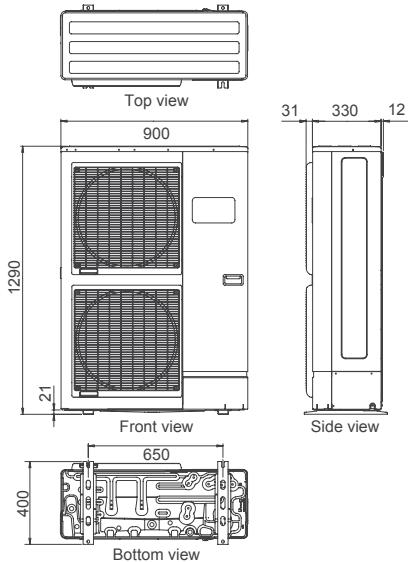
Hydraulic units Split type

High Power series :
WSYG140DC6 / WSYK160DC9

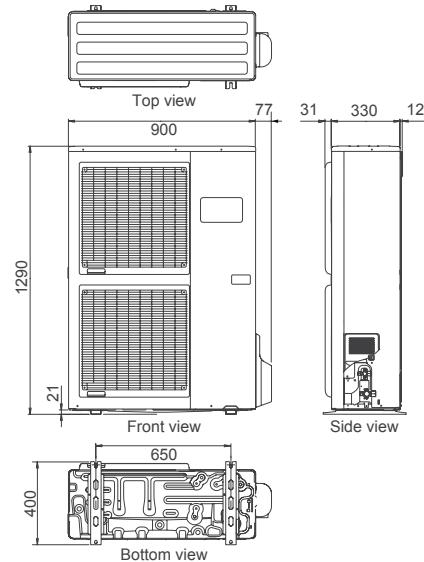
Hydraulic units Split type
Comfort series :
WSYA050DD6 / WSYA100DD6



Outdoor Units High Power series :
WOYK112LCT / WOYK140LCT / WOYK160LCT

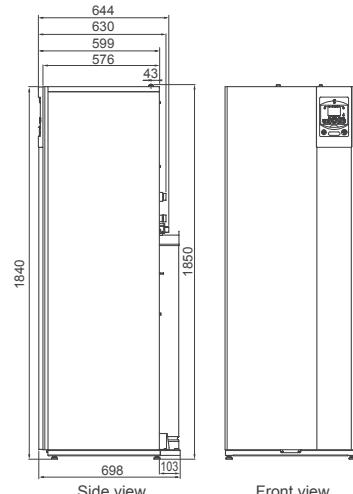


Outdoor Units High Power series :
WOYG112LCT / WOYG140LCT



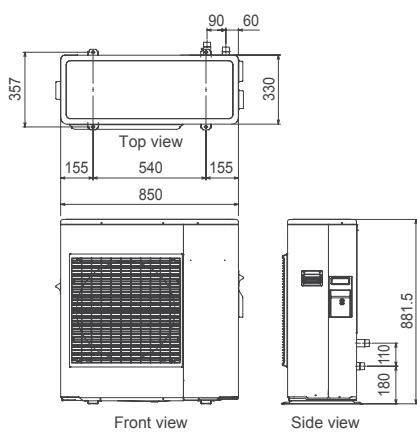
Hydraulic units Split DHW
integrated type High Power series :
WGYG140DD6 / WGYK160DD9

Hydraulic units Split DHW
integrated type Comfort series :
WGYA050DD6 / WGYA100DD6

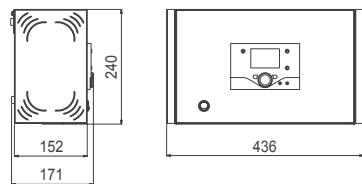


MONOBLOC TYPE

Compact series :
WPYA080LE / WPYA100LE



Control Box :
UTW-SCBYA



Specifications

Split type

| Series name | | | High Power series | | | | | Comfort series | | | | |
|--------------------------------------|---------------------|-----------|-------------------|------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|--|
| Capacity range (kW) | | | 11 | 14 | 11 | 14 | 16 | 5 | 6 | 8 | 10 | |
| +7°C / +35°C floor heating *1 | Heating capacity | kW | 10.80 | 13.50 | 10.80 | 13.50 | 15.17 | 4.50 | 6.00 | 7.50 | 10.00 | |
| | Input power | | 2.54 | 3.23 | 2.51 | 3.20 | 3.70 | 0.996 | 1.41 | 1.84 | 2.49 | |
| | COP | | 4.25 | 4.18 | 4.30 | 4.22 | 4.10 | 4.52 | 4.27 | 4.08 | 4.02 | |
| +2°C / +35°C floor heating *1 | Heating capacity | kW | 10.77 | 12.00 | 10.77 | 13.00 | 13.50 | 4.50 | 4.95 | 5.65 | 7.70 | |
| | Input power | | 3.44 | 3.87 | 3.40 | 4.15 | 4.34 | 1.39 | 1.53 | 1.78 | 2.47 | |
| | COP | | 3.13 | 3.10 | 3.17 | 3.13 | 3.11 | 3.24 | 3.24 | 3.17 | 3.12 | |
| -7°C / +35°C floor heating *1 | Heating capacity | kW | 10.80 | 12.00 | 10.80 | 13.00 | 13.50 | 4.10 | 4.60 | 5.70 | 7.40 | |
| | Input power | | 4.32 | 5.08 | 4.28 | 5.18 | 5.40 | 1.47 | 1.74 | 2.23 | 2.97 | |
| | COP | | 2.50 | 2.36 | 2.52 | 2.51 | 2.50 | 2.79 | 2.64 | 2.56 | 2.49 | |
| +7°C / +45°C radiators *1 | Heating capacity | kW | 9.23 | 11.54 | 10.10 | 12.60 | 13.00 | 4.50 | 5.10 | 6.20 | 8.27 | |
| | Input power | | 2.84 | 3.72 | 3.01 | 3.81 | 4.00 | 1.30 | 1.50 | 1.87 | 2.53 | |
| | COP | | 3.25 | 3.10 | 3.35 | 3.30 | 3.25 | 3.46 | 3.40 | 3.31 | 3.27 | |
| -7°C / +45°C radiators *1 | Heating capacity | kW | 9.16 | 11.45 | 10.02 | 12.50 | 13.00 | 4.10 | 4.45 | 5.05 | 7.40 | |
| | Input power | | 4.58 | 5.92 | 4.63 | 6.00 | 6.37 | 1.86 | 2.04 | 2.47 | 3.70 | |
| | COP | | 2.00 | 1.93 | 2.16 | 2.08 | 2.04 | 2.20 | 2.18 | 2.04 | 2.00 | |
| Backup heater | Capacity | kW×pcs. | 6.0 (3.0×2pcs.) | 6.0 (3.0×2pcs.) | 9.0 (3.0×3pcs.) | 9.0 (3.0×3pcs.) | 9.0 (3.0×3pcs.) | 6.0 (3.0×2pcs.) | 6.0 (3.0×2pcs.) | 6.0 (3.0×2pcs.) | 6.0 (3.0×2pcs.) | |
| Hydraulic unit | | | Model name | | | WSYG140DC6 | WSYK160DC9 | | | WSYA050DD6 | WSYA100DD6 | |
| Power source | | | 1Ø 230V, 50Hz | | | 3Ø 400V, 50Hz | | | 1Ø 230V, 50Hz | | | |
| Water circulation | Rated | L/min | 31.2 | 39.0 | 31.2 | 39.0 | 43.8 | 13.00 | 17.33 | 21.66 | 28.88 | |
| | Min / Max | | | | 25.0 / 50.0 | | | 8.1/16.2 | 10.8/21.7 | 13.5/27.1 | 18.1/36.1 | |
| Dimensions H×W×D | | | mm | | | 800 × 450 × 457 | | | 800 × 450 × 457 | | | |
| Weight (Net) | | | kg | | | 42 | | | 42 | | | |
| Buffer tank capacity | | | L | | | 16 | | | 16 | | | |
| Expansion vessel capacity | | | L | | | 8 | | | 8 | | | |
| Leaving water temperature range | | | °C | | | 8 to 60 | | | 8 to 55 | | | |
| Water pipe connection diameter | | | Flow / Return | mm | Ø25.4 / Ø25.4 | | | Ø25.4 / Ø25.4 | | | | |
| Outdoor unit | | | Model name | | | WOYG112LCT | WOYG140LCT | WOYK112LCT | WOYK140LCT | WOYK160LCT | WOYA060LDC | |
| Power source | | | 1Ø 230V, 50Hz | | | 3Ø 400V, 50Hz | | | 1Ø 230V, 50Hz | | | |
| Current | Rated | A | 11.4 | 14.2 | 3.7 | 4.8 | 5.5 | 4.5 | 6.3 | 8.1 | 10.9 | |
| | Max | | 22.0 | 25.0 | 8.5 | 9.5 | 10.5 | 11.0 | 12.5 | 17.5 | 18.5 | |
| Noise level (Sound pressure) | | | dB(A) | 55*2 | 56*2 | 53*2 | 55*2 | 56*2 | 48*2 | 51*2 | 56*2 | |
| Dimensions H×W×D | | | mm | 1290 × 900 × 330 | | | 620 × 790 × 290 | | | 830×900×330 | | |
| Weight (Net) | | | kg | 92 | | 99 | | 41 | | 42 | 60 | |
| Refrigerant | | | R410A | | | R410A | | | R410A | | | |
| Refrigerant amount | | | kg | 2.50 | | | 1.10 | | | 1.40 | | |
| Additional refrigerant charge amount | | | g/m | 50 | | | 20 | | | 40 | | |
| Connection pipe | Diameter | Liquid | mm | Ø9.52 | | | Ø6.35 | | | Ø9.52 | | |
| | | Gas | mm | Ø15.88 | | | Ø12.70 | | | Ø15.88 | | |
| | Length | Min / Max | m | 5 / 20 | | | 5 / 20 | | | 15 | | |
| | Length (chargeless) | Max | m | 15 | | | 15 | | | 15 | | |
| Operation range | Heating | °C | | -25 to 35 | | | -20 to 35 | | | -20 to 35 | | |

Monobloc type

| Series name | | | Compact series | | | | |
|---------------------------------|------------------|-------|----------------|-------------------|----|-------------|--|
| Capacity range (kW) | | | 8 | 10 | 12 | 15 | |
| +7°C / +35°C floor heating *1 | Heating capacity | kW | 8.00 | | | 10.00 | |
| | Input power | | 1.78 | | | 2.30 | |
| | COP | | 4.50 | | | 4.35 | |
| +2°C / +35°C floor heating *1 | Heating capacity | kW | 7.40 | | | 8.10 | |
| | Input power | | 2.73 | | | 3.00 | |
| | COP | | 2.71 | | | 2.70 | |
| -7°C / +35°C floor heating *1 | Heating capacity | kW | 7.10 | | | 8.00 | |
| | Input power | | 2.93 | | | 3.32 | |
| | COP | | 2.42 | | | 2.41 | |
| +7°C / +45°C radiators *1 | Heating capacity | kW | 7.80 | | | 9.80 | |
| | Input power | | 2.23 | | | 2.88 | |
| | COP | | 3.50 | | | 3.40 | |
| -7°C / +45°C radiators *1 | Heating capacity | kW | 6.50 | | | 7.00 | |
| | Input power | | 2.98 | | | 3.31 | |
| | COP | | 2.18 | | | 2.11 | |
| Monobloc unit | | | WPYA080LE | | | WPYA100LE | |
| Power source | | | 1Ø 230V, 50Hz | | | | |
| Water circulation | Rated | L/min | 22.9 | | | 28.7 | |
| | Min / Max | | 10.0 / 30.0 | | | 10.0 / 30.0 | |
| Current | Rated | A | 8.30 | | | 10.20 | |
| Noise level (Sound pressure) | | | dB(A) | 51*2 | | 51*2 | |
| Dimensions H×W×D | | | mm | 881.5 × 850 × 330 | | | |
| Weight (Net) | | | kg | 74 | | | |
| Water pipe connection diameter | | | mm | Ø25.4 / Ø25.4 | | | |
| Refrigerant | | | R410A | | | | |
| Refrigerant amount | | | kg | 1.5 | | | |
| Leaving water temperature range | | | °C | 8 to 55 | | | |
| Operation range | Heating | °C | | -20 to 35 | | | |

Split DHW integrated type

| Series name | | | High Power series | | | | | Comfort series | | | | | | | |
|--------------------------------------|------------------|-----------|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------------|-----------------|-----------------|--|--|--|--|
| Capacity range (kW) | | | 11 | 14 | 11 | 14 | 16 | 5 | 6 | 8 | 10 | | | | |
| +7°C / +35°C floor heating *1 | Heating capacity | kW | 10.80 | 13.50 | 10.80 | 13.50 | 15.17 | 4.50 | 6.00 | 7.50 | 10.00 | | | | |
| | Input power | | 2.54 | 3.23 | 2.51 | 3.20 | 3.70 | 0.996 | 1.41 | 1.84 | 2.49 | | | | |
| | COP | | 4.25 | 4.18 | 4.30 | 4.22 | 4.10 | 4.52 | 4.27 | 4.08 | 4.02 | | | | |
| +2°C / +35°C floor heating *1 | Heating capacity | kW | 10.77 | 12.00 | 10.77 | 13.00 | 13.50 | 4.50 | 4.95 | 5.65 | 7.70 | | | | |
| | Input power | | 3.44 | 3.87 | 3.40 | 4.15 | 4.34 | 1.39 | 1.53 | 1.78 | 2.47 | | | | |
| | COP | | 3.13 | 3.10 | 3.17 | 3.13 | 3.11 | 3.24 | 3.24 | 3.17 | 3.12 | | | | |
| -7°C / +35°C floor heating *1 | Heating capacity | kW | 10.80 | 12.00 | 10.80 | 13.00 | 13.50 | 4.10 | 4.60 | 5.70 | 7.40 | | | | |
| | Input power | | 4.32 | 5.08 | 4.28 | 5.18 | 5.40 | 1.47 | 1.74 | 2.23 | 2.97 | | | | |
| | COP | | 2.50 | 2.36 | 2.52 | 2.51 | 2.50 | 2.79 | 2.64 | 2.56 | 2.49 | | | | |
| +7°C / +45°C radiators *1 | Heating capacity | kW | 9.23 | 11.54 | 10.10 | 12.60 | 13.00 | 4.50 | 5.10 | 6.20 | 8.27 | | | | |
| | Input power | | 2.84 | 3.72 | 3.01 | 3.81 | 4.00 | 1.30 | 1.50 | 1.87 | 2.53 | | | | |
| | COP | | 3.25 | 3.10 | 3.35 | 3.30 | 3.25 | 3.46 | 3.40 | 3.31 | 3.27 | | | | |
| -7°C / +45°C radiators *1 | Heating capacity | kW | 9.16 | 11.45 | 10.02 | 12.50 | 13.00 | 4.10 | 4.45 | 5.05 | 7.40 | | | | |
| | Input power | | 4.58 | 5.92 | 4.63 | 6.00 | 6.37 | 1.86 | 2.04 | 2.47 | 3.70 | | | | |
| | COP | | 2.00 | 1.93 | 2.16 | 2.08 | 2.04 | 2.20 | 2.18 | 2.04 | 2.00 | | | | |
| Backup heater | Capacity | kW×pcs. | 6.0 (3.0×2pcs.) | 6.0 (3.0×2pcs.) | 9.0 (3.0×3pcs.) | 9.0 (3.0×3pcs.) | 9.0 (3.0×3pcs.) | 6.0 (3.0×2pcs.) | 6.0 (3.0×2pcs.) | 6.0 (3.0×2pcs.) | 6.0 (3.0×2pcs.) | | | | |
| Hydraulic unit | Model name | | WGYG140DD6 | | | WGYK160DD9 | | | WGYA050DD6 | | WGYA100DD6 | | | | |
| Power source | 1Ø 230V, 50Hz | | | 3Ø 400V, 50Hz | | | 1Ø 230V, 50Hz | | | | | | | | |
| Water circulation | Rated | L/min | 31.2 | 39.0 | 31.2 | 39.0 | 43.8 | 13.00 | 17.33 | 21.66 | 28.88 | | | | |
| | Min / Max | | 25.0 / 50.0 | | | 8.1/16.2 | | | 10.8/21.7 | 13.5/27.1 | 18.1/36.1 | | | | |
| Dimensions H×W×D | mm | | 1840 × 648 × 698 | | | | | | 1840 × 648 × 698 | | | | | | |
| Weight (Net) | kg | | 152 | | | | | | 152 | | | | | | |
| DHW capacity | L | | 190 | | | | | | 190 | | | | | | |
| Hot water heater capacity | kW | | 1.5 | | | | | | 1.5 | | | | | | |
| Buffer tank capacity | L | | 16 | | | | | | 16 | | | | | | |
| Expansion vessel capacity | L | | 12 | | | | | | 12 | | | | | | |
| Leaving water temperature range | °C | | 8 to 60 | | | | | | 8 to 55 | | | | | | |
| Water pipe connection diameter | mm | | Ø25.4 / Ø25.4 | | | | | | Ø25.4 / Ø25.4 | | | | | | |
| Hot water pipe diameter | mm | | (Inlet/Outlet) Ø19.05 | | | | | | (Inlet/Outlet) Ø19.05 | | | | | | |
| Outdoor unit | Model name | | WOYG112LCT | WOYG140LCT | WOYK112LCT | WOYK140LCT | WOYK160LCT | WOYA060LDC | | WOYA080LDC | WOYA100LDT | | | | |
| Power source | 1Ø 230V, 50Hz | | | 3Ø 400V, 50Hz | | | 1Ø 230V, 50Hz | | | | | | | | |
| Current | Rated | A | 11.4 | 14.2 | 3.7 | 4.8 | 5.5 | 4.5 | 6.3 | 8.1 | 10.9 | | | | |
| | Max | | 22.0 | 25.0 | 8.5 | 9.5 | 10.5 | 11.0 | 12.5 | 17.5 | 18.5 | | | | |
| Noise level (Sound pressure) | dB(A) | | 55 ² | 56 ² | 53 ² | 55 ² | 56 ² | 48 ² | 51 ² | 56 ² | 55 ² | | | | |
| Dimensions H×W×D | mm | | 1290 × 900 × 330 | | | | | | 620 × 790 × 290 | | | | | | |
| Weight (Net) | kg | | 92 | | | | | | 41 | 42 | 60 | | | | |
| Refrigerant | R410A | | | | | | | | | | | | | | |
| Refrigerant amount | kg | | 2.50 | | | | | | 1.10 | 1.40 | 1.80 | | | | |
| Additional refrigerant charge amount | g/m | | 50 | | | | | | 20 | 20 | 40 | | | | |
| Connection pipe | Diameter | Liquid | Ø9.52 | | | | | | Ø6.35 | | Ø9.52 | | | | |
| | | Gas | Ø15.88 | | | | | | Ø12.70 | | Ø15.88 | | | | |
| | Length | Min / Max | m | 5 / 20 | | | | | | 5 / 20 | | | | | |
| Length (chargeless) | Max | m | | 15 | | | | | | 15 | | | | | |
| Height difference | Max | m | | 15 | | | | | | 15 | | | | | |
| Operation range | Heating | °C | -25 to 35 | | | | | | -20 to 35 | | | | | | |

*1. The values of heating capacity/power input/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 spec. values and these values.

*2. Sound pressure level measured at distance of 1m from the device.

FEATURE EXPLANATION

Comfortable Function



Human sensor

Human sensor catches movements of people in a room.



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 air flow adjustment

The micro-computer automatically adjusts the air flow 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 the power supply is restored.



Auto-changeover

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



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.



Connectable distributing duct



Connectable fresh air duct



Fresh air intake

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



Economy mode

Limits the maximum operation current, and performs operation with the power consumption suppressed.



Powerful mode

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



Low Noise Mode

Sound noise level of outdoor unit can be selected.



V-PAM control models



i-PAM control models

Convenient Function



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.

Clean Function



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.



Washable panel

Feature Summary

Feature Summary Grid:

| Comfortable function | | | | | | | | | | | | |
|-------------------------------|---|---|---|---|---|---|---|--------------------|---|--------------------|-----------------|--------|
| Human sensor | ● | | | | | | | | | | | |
| Up / down swing flaps | ● | ● | ● | | ● | ● | ● | ● | | ○ | | |
| Double swing automatic | | | | ● | | | | | ● | ● | | |
| Automatic air flow adjustment | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Auto restart | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Auto-changeover | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| 10°C heat operation | ● | ● | ● | ● | | ● | ● | ○ | ● | ● | ○ | ○ (60) |
| Connectable distributing duct | | | | | | | | ● | | | ● | |
| Connectable fresh air duct | | | | | | | ○ | ● | ● | ○ | ● | ○ |
| Fresh air intake | | | | | | | ○ | ○ | ○ | ○ | ○ | ○ |
| Economy mode | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Powerful mode | ● | ● | ● | | ● | | | | | | | |
| Low Noise mode | ● | ● | ● | | | | | ○ (45/54) (36LRLA) | | ○ (45/54) (36LMLA) | ○ (45) (36LMLA) | ○ |
| Convenient function | | | | | | | | | | | | |
| Sleep timer | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ○ (60) |
| Program timer | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ○ (60) |
| Weekly timer | ● | ● | | | | | | | | | | |
| Weekly + setback timer | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ● | ○ | ● | ● |
| Filter sign | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| Clean function | | | | | | | | | | | | |
| Ion deodorization filter | ● | ● | ● | ● | | ● | ● | | | | | |
| Apple-catechin filter | ● | ● | ● | ● | | ● | ● | | | | | |
| Washable panel | | | ● | ● | ● | ● | ● | | | | | |

○: Optional function

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Fujitsu General (Thailand) Co., Ltd.

ISO 14001
Certified number : 01 104 9245/01



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



ISO 9001
Certified number : 00608Q11061R2M
Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.

ISO 14001
Certified number : 00609E20454R2M

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/ 5°C WB Outdoor temp. : 7°C DB/6°C WB |
|---------|---|---------|---|

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