

The Intelligent Choice in Comfort

FUJITSU GENERAL LIMITED

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<http://www.fujitsu-general.com/>



ISO 9001 Certified number: 01 100 89394
 ISO 14001 Certified number: 01 104 924501
 Fujitsu General (Thailand) Co., Ltd.



ISO 9001 Certified number: 01 100 79269
 ISO 14001 Certified number: 310102-UK
 Fujitsu General (Shanghai) Co., Ltd.



ISO 9001 Certified number: 00608Q11061R2M
 ISO 14001 Certified number: 00608E20454R2M
 Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.

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.

- Performance test is in accordance with EN14511
- Seasonal efficiency test is on accordance with EN14825
- Sound power test is in accordance with ENV12102

Cooling	Indoor temp. : 27°C DB/19°C WB	Heating	Indoor temp. : 20°C DB/ 5°C WB
	Outdoor temp.: 35°C DB/24°C WB		Outdoor temp.: 7°C DB/6°C WB

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• Actual products' colors may be different from the colors shown in this printed material.

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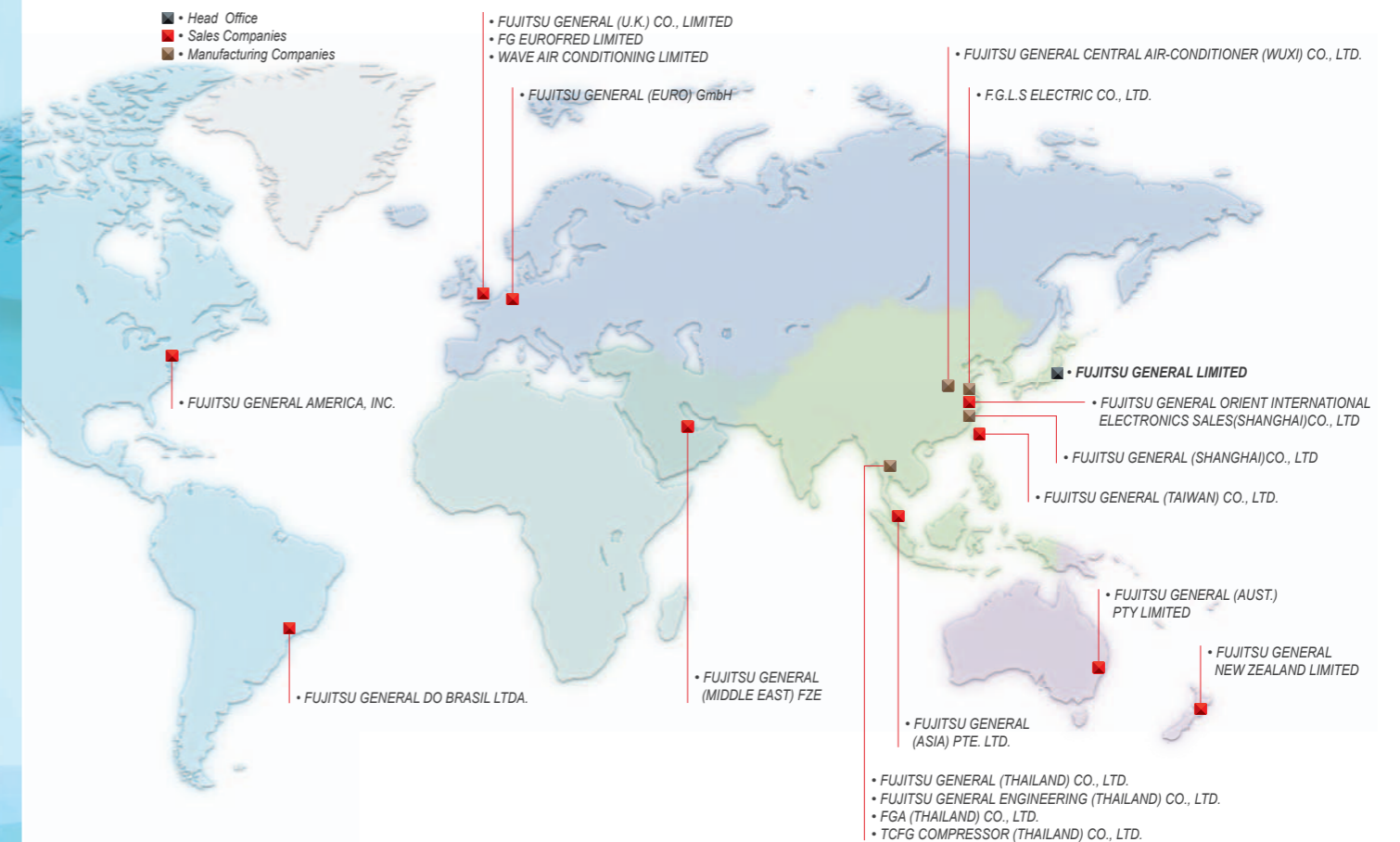
PRODUCT CATALOGUE 2014

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

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 60m Height Difference Testing Tower



Fujitsu General (Shanghai) Co., Ltd.



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



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




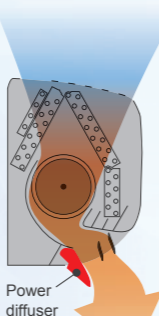


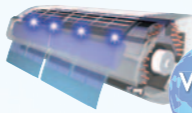






FGA (Thailand) Co., Ltd.



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

<p>1936: Established as Yaou Shouten Ltd.</p> <p>1960: Air conditioning business start. Japan-domestic business start.</p> <p>1971: Air conditioner exports to Middle East.</p> <p>1977: "Super Power, Super Quiet" series</p>	<p>1982: Window type 3 Super series AL/AX series</p> <p>1985: Large wall mounted and multi air conditioner introduced.</p> <p>1991: Air conditioner with the world's first lambda heat exchanger</p> 	<p>1995: Air conditioner with the world's first power diffuser</p>  <p>Power diffuser</p> 	<p>2001: VRF air conditioners</p>  <p>2003: Air conditioner with the world's first automatic self-cleaning filter system</p>  <p>World's First</p>	<p>2009: VRF combination type</p>  <p>AIRSTAGE V-II</p> <p>Air to Water system</p>  <p>WATERSTAGE</p>	<p>2011: Hi-spec Design model</p>  <p>LT LU Series</p> <p>Small VRF series</p>  <p>AIRSTAGE J-II</p>	<p>2012: VRF Heat Recovery type</p>  <p>AIRSTAGE VR-II</p>	<p>2014: Small VRF series</p>  <p>AIRSTAGE J-IIS</p>	
1936	1980	1990	2000	2005	2010	2011	2012	2014

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).

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

2002:
Taiwan sales company

2006:
China sales company

1991:
Air conditioner manufacturing company in Thailand.



1994:
Air conditioner manufacturing company in Shanghai, China.



1998:
Air conditioner motor manufacturing company in Thailand.



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



2007:
Air conditioner technology building completed on Main Office group.



2009:
Operation of compressor factory begins in Thailand.



2012:
Joint venture with Toshiba Carrier Corporation.



*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

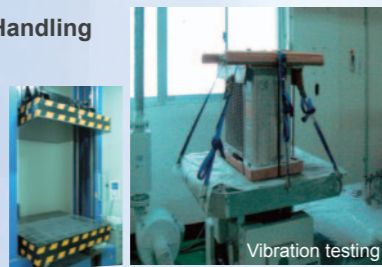
Sound testing Calorimeter testing



Air flow testing

Transportation & Handling

Compressibility testing



Vibration testing

Reliability Testing

Severe environmental testing



Water shower testing

R & D Center



Testing Laboratory

Fujitsu General EMC Laboratory Limited

International test site for EMC regulation



60-m High Difference Testing Tower

Objective is to confirm oil circulation of compressor for reliability



High Quality Assurance

Product quality assurance

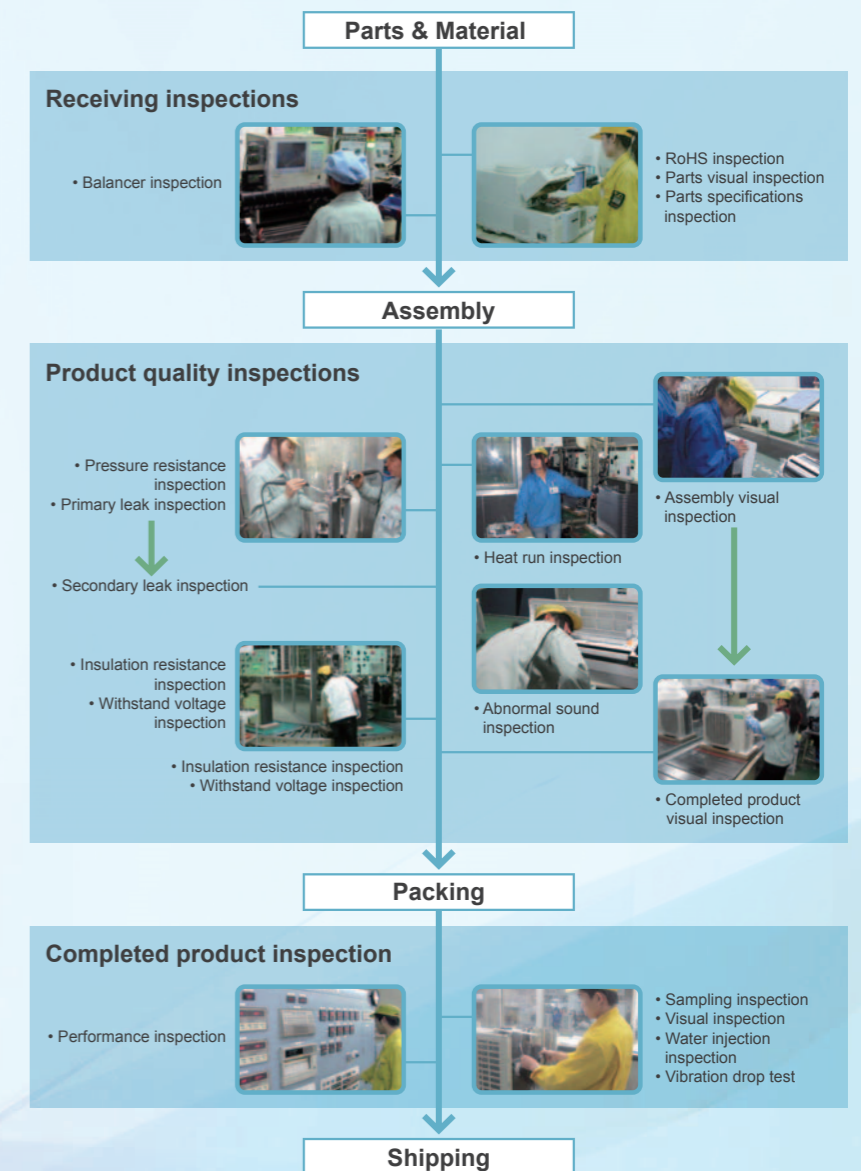
All Fujitsu General factories have acquired ISO 9001, and have built a quality control system common around the world. High quality products are offered to all over the world based on stringent quality inspections.

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

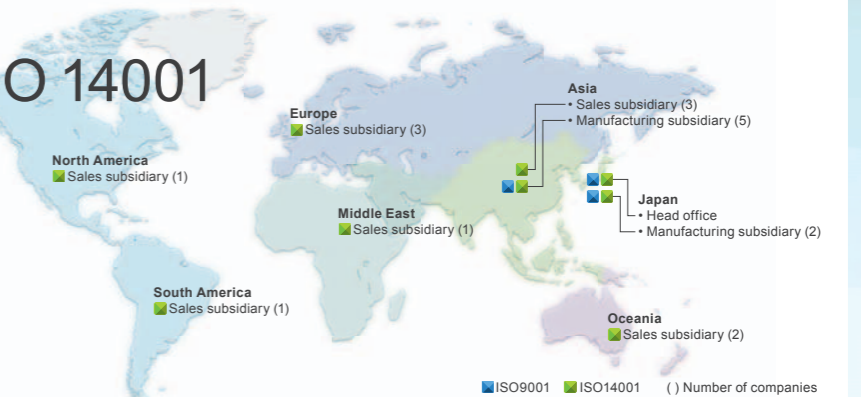
Stringent quality inspection is carried out at all production processes. High quality is maintained by stringent checks by inspectors and repetitive inspection.



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.



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.

America



Training (Brazil)



Billboard (Montreal)



Call center

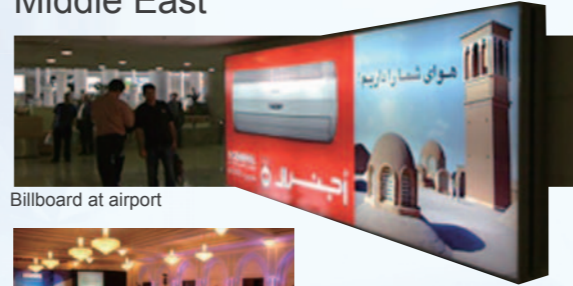


Distributor meeting



HVAC trade show in Brasil (FEBRAVA)

Middle East



Billboard at airport



Distributor meeting (Dubai)



Training for dealers (Middle East)

Oceania



Charity (Christchurch)



Training for installer



HVAC trade show in Australia



GfK retail No.1 products in 5 years

Asia



Billboard (Tianjin)



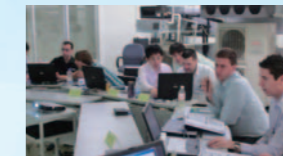
Factory tour for primary school



Billboard (Hong Kong)



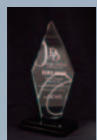
Distributor meeting



SE training



Presentation for sales companies (Myanmar)



"Dealer Design Awards" of "the NEWS"



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



Coolworld Industry Awards "Most Efficient Air Conditioner"



Canstar Blue Most Satisfied Customers Award

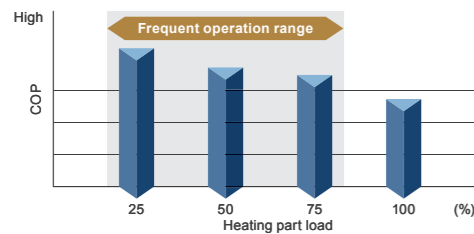


China State Construction Engineering Luban Prize



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.

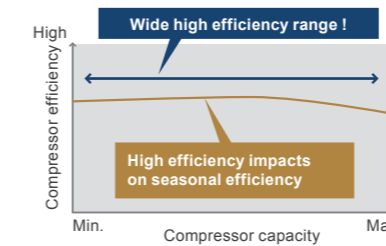


Wide high efficiency range DC twin rotary compressor

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.



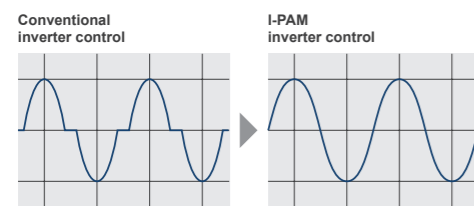
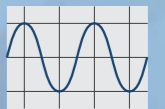
DC fan motor

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



Sine-wave DC inverter control

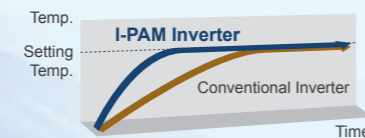
High efficiency operation is realized by using a sine wave DC inverter control.



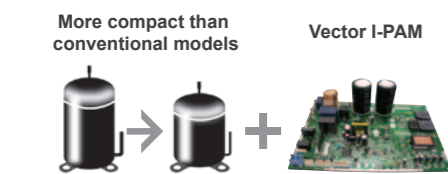
Optimized Inverter Control

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.



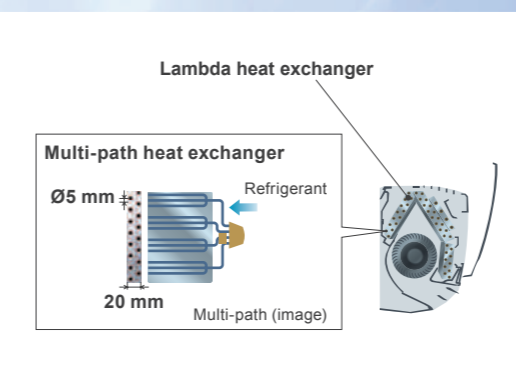
In addition, the voltage is raised at the start of operation and fast comfort is attainable by more powerful operation.
IPM*: Intelligent Power Module



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

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

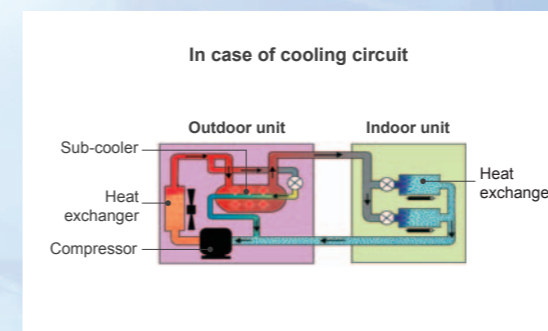
V-PAM inverter control reduces the effects of magnetic flux and increases the maximum speed and efficiency of the compressor by vector control technology. With this technology, further miniaturization, higher efficiency, and better performance are attained.



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

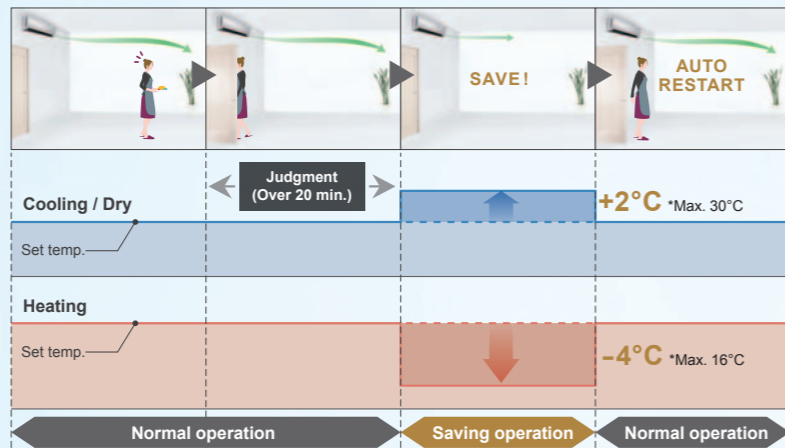
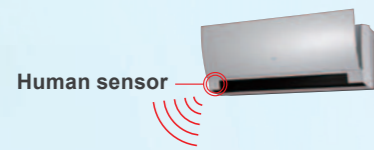
Higher performance achieved by mounting of counter type bypass circuit. (Large multi type, VRF)

Energy Saving Control

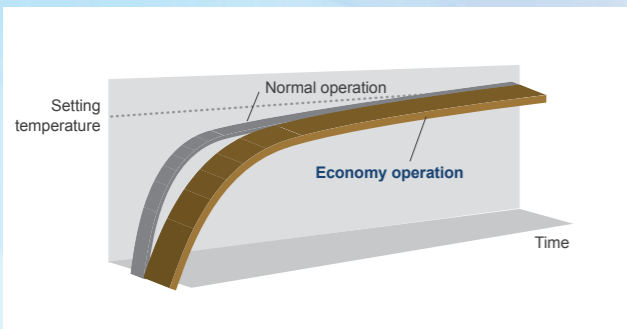
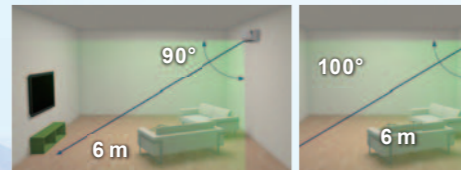
Smart Operation

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.

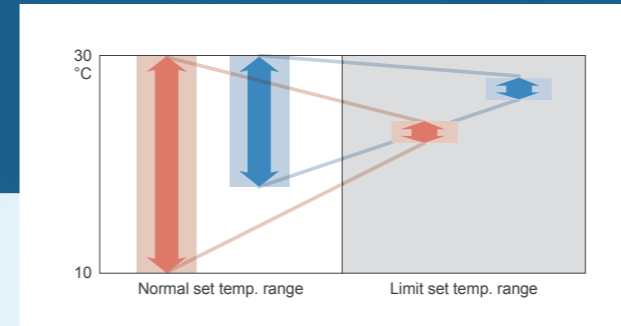


Human sensor coverage



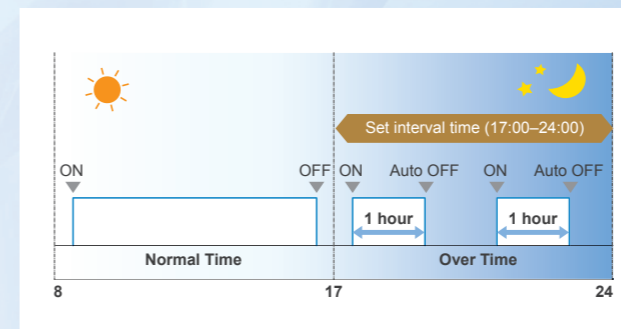
Economy operation

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.

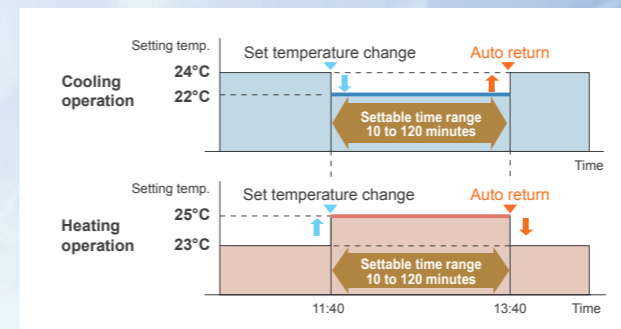


Auto-off timer

- 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.

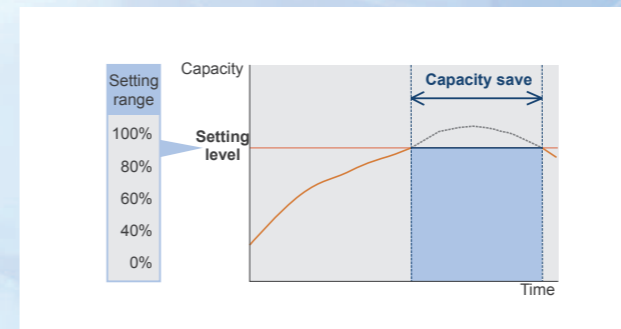


Example: At interval time hour (17:00-24:00) to prevent forgetting to turn off
Set off time : 1 hour



Set temperature auto return

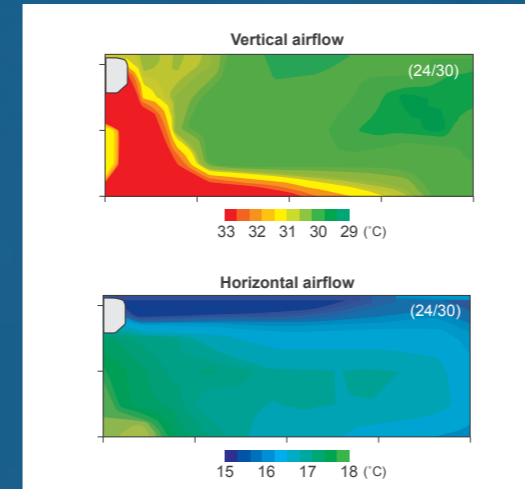
- The setting temperature automatically returns to the previous setting temperature.
- The time range in which the set temperature can be changed is 10 to 120 minutes.



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.

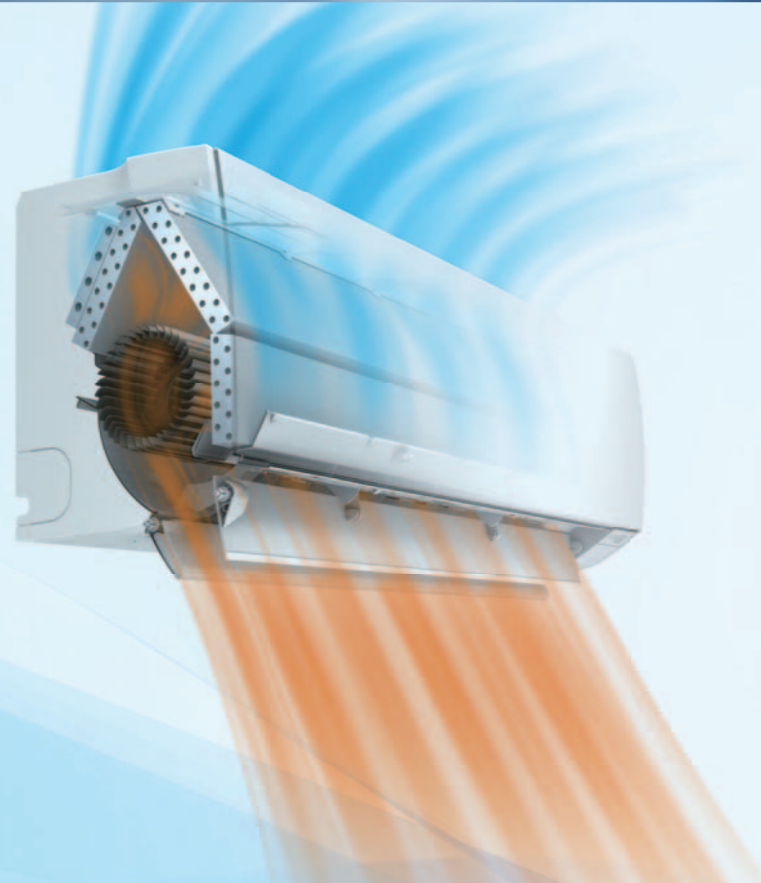
Comfort Performance



Quick Comfort

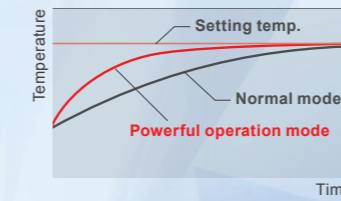
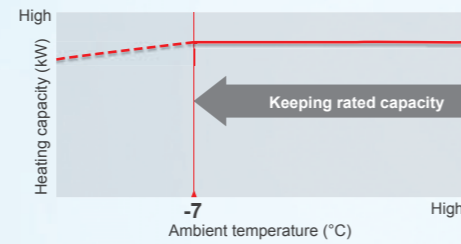
Comfort airflow

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



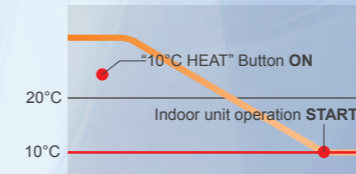
Powerful Heating

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



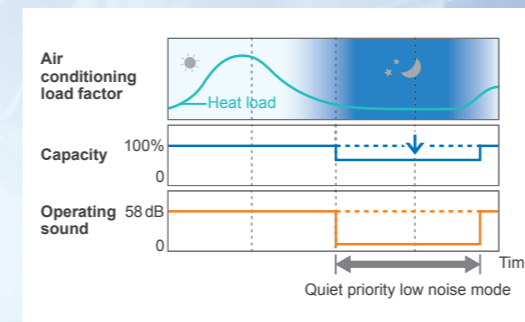
Powerful operation

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

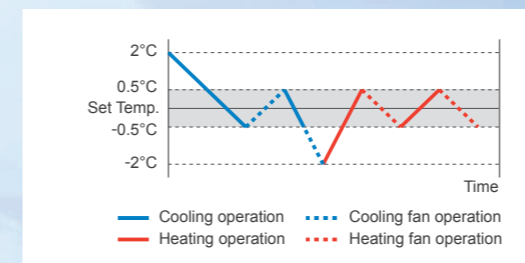
When you leave, minimum heating operation is performed to maintain the room temperature. (Maintained at 10°C)



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

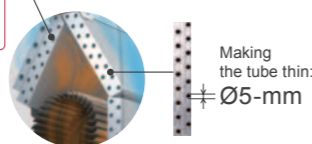
At Auto setting, the cooling / heating mode is automatically switched according to the set temperature and room temperature.

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.

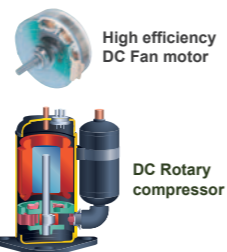
Sub heat exchanger

Heat exchanger volume About **35% UP!** comparing previous model



All DC inverter technology

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



Smart Design



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

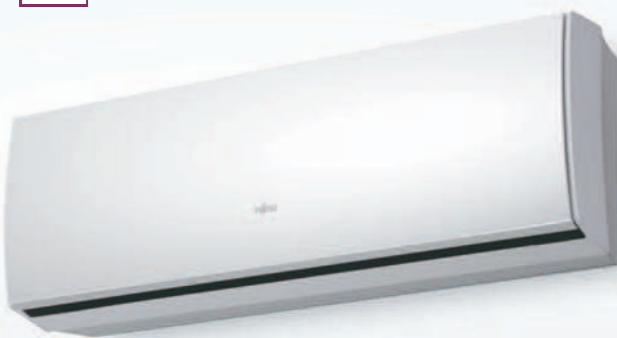


Creating Harmony and New Interior Design Space in a Variety of Installation Environments

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



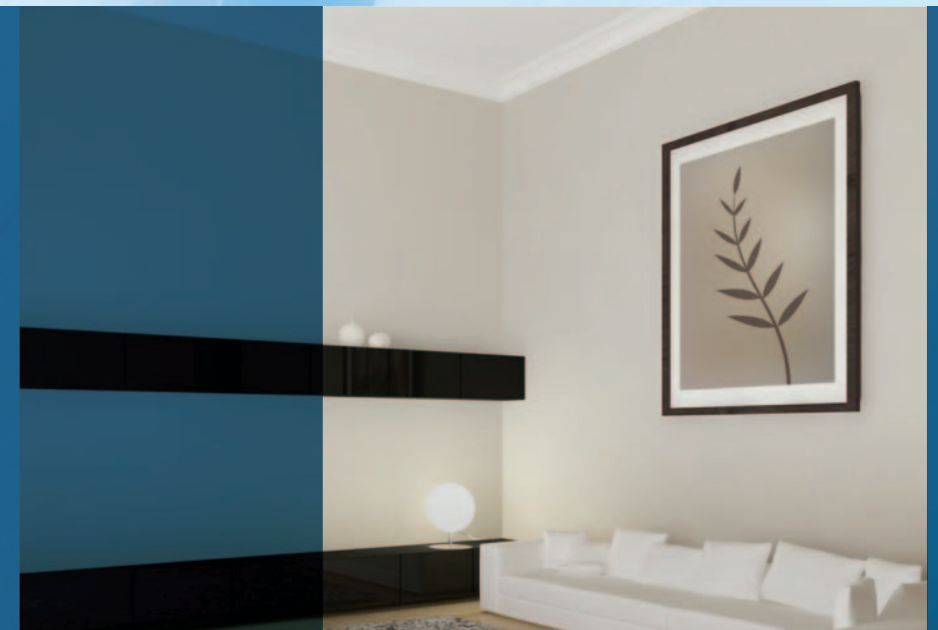
Pursuit of advanced design achieving both functionality and beauty.



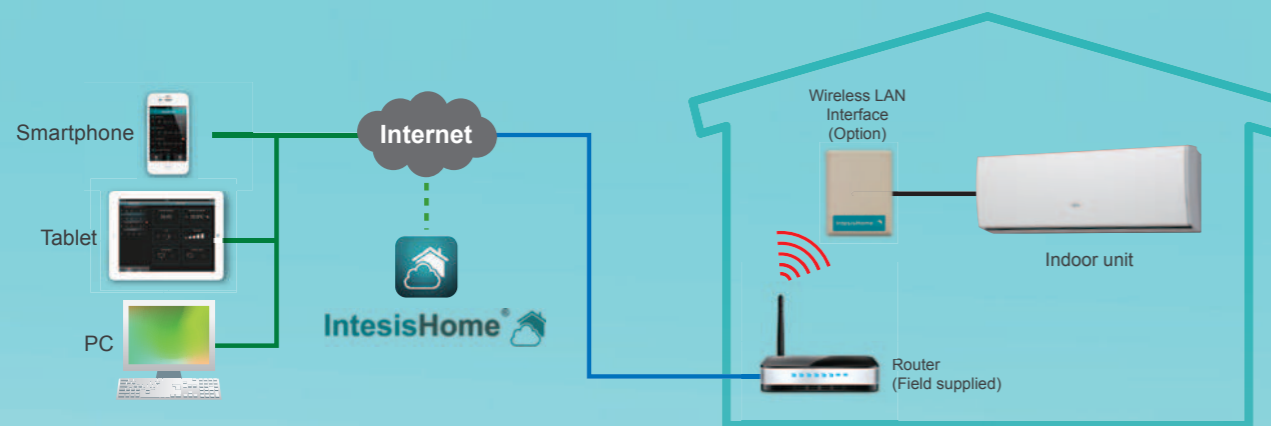
reddot design award winner 2012

Easy-To-Use Control

Residential use



Easy air conditioner control from inside or outside the house 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 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.

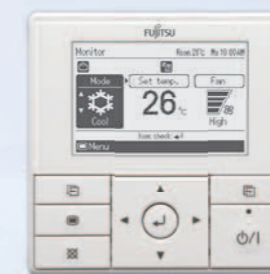


Home central control



Central Remote Controller

Simple individual control



Wired Remote Controller



Simple Remote Controller



Slim Wireless Remote Controller

Easy-To-Use Control

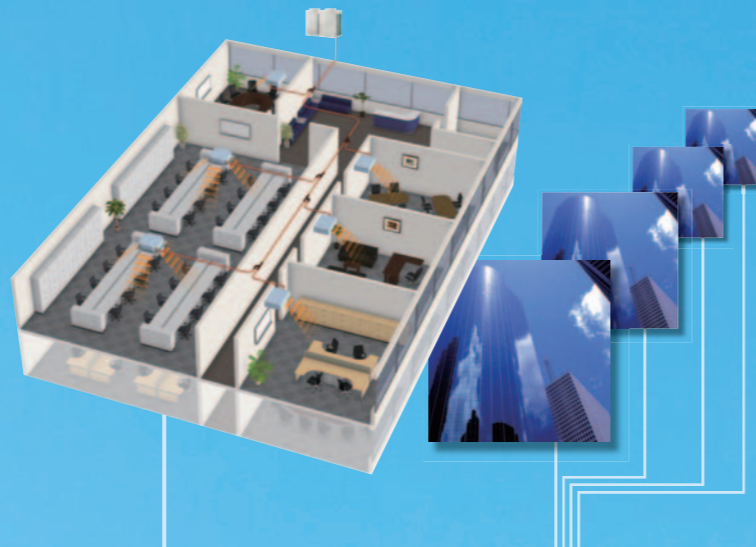
Commercial use



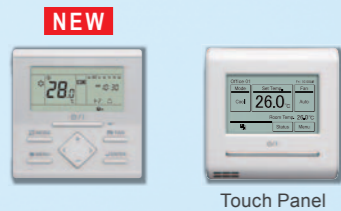
Fujitsu General provides various easy-to-use Controllers

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



Touch Panel

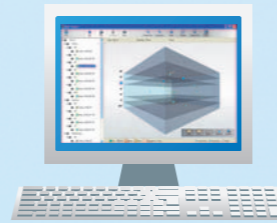
Wired Remote Controller

Each floor or Small building management control



Touch Panel Controller

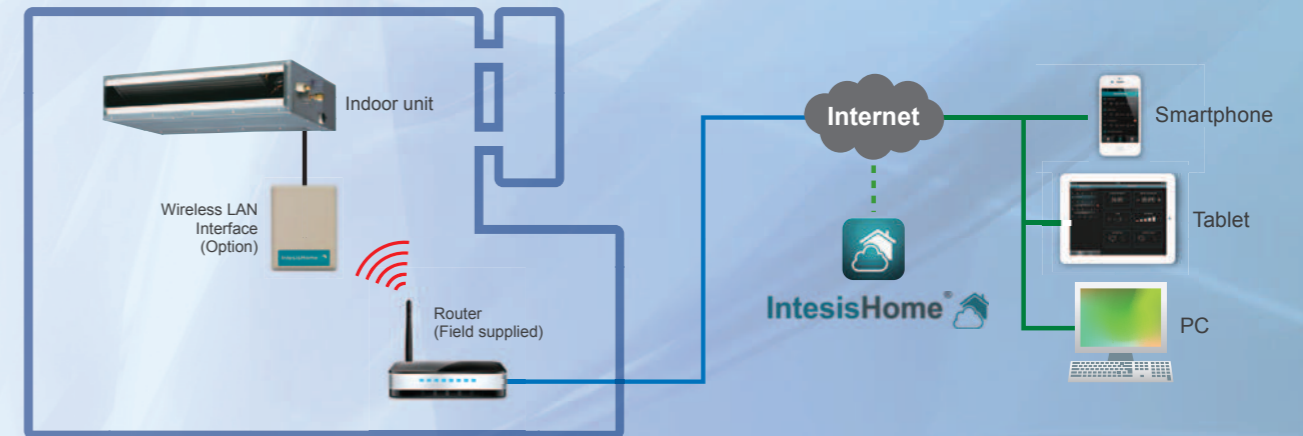
Large building management control



System Controller

Software

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



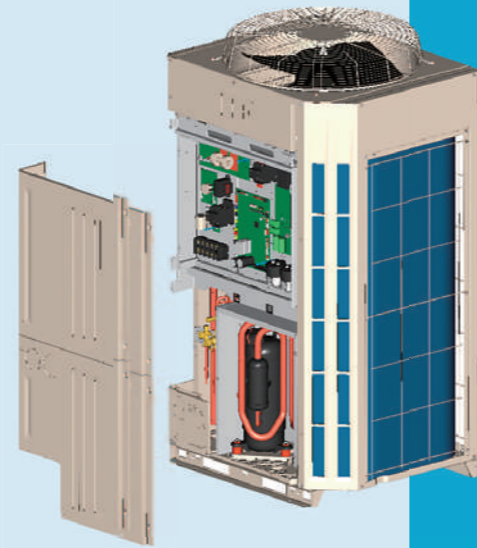
It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, Tablets, and PC.

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.

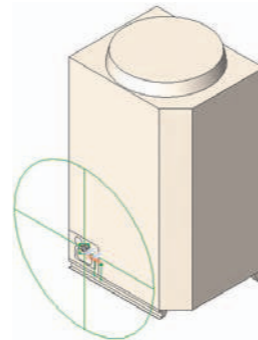


Technical information

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



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

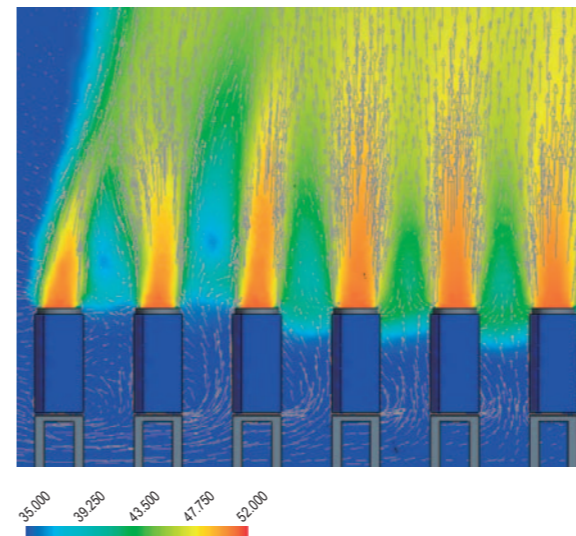


Product information

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



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



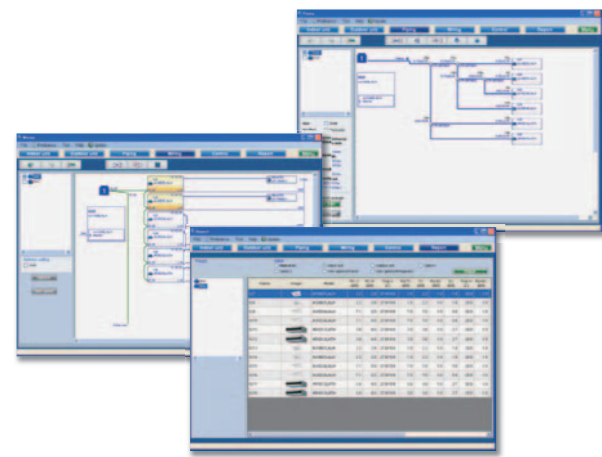
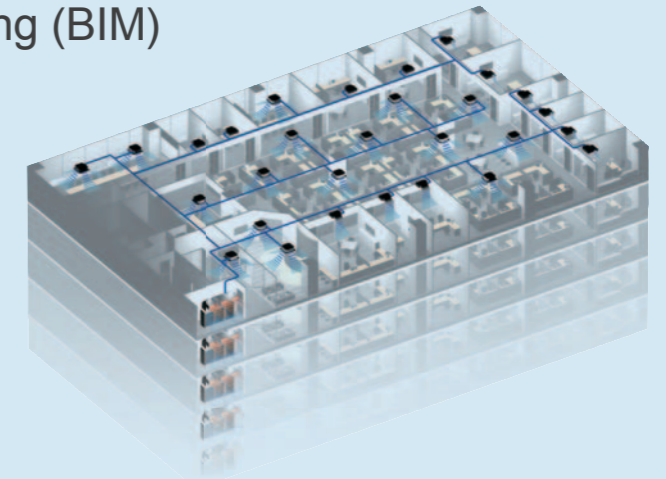
Design Simulator

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.



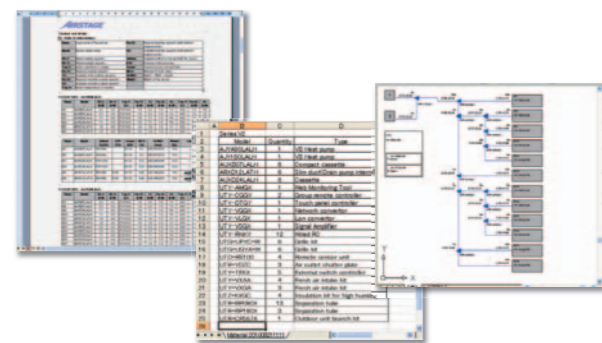
Building Information Modeling (BIM)

FUJITSU GENERAL provides the Building Information Modeling (BIM) object models and contents for our VRF system and some products to the architect, designer and contractor using Autodesk® Revit® technology from our Website and Autodesk® Seek Website, etc.



Automatically create model selection information

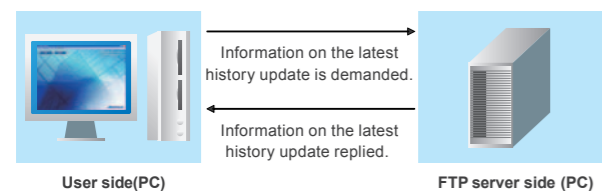
- Each unit can be automatically set by entering the required performance, type, and temperature conditions for each indoor unit and then dragging and dropping into the outdoor unit.
- Piping and wiring diagrams can be created automatically and it is easy to set branches, grouping, and options.
- The 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

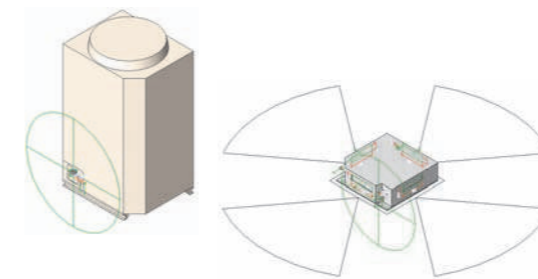
The information specific to your project can be exported in a number of industry standard file formats.

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



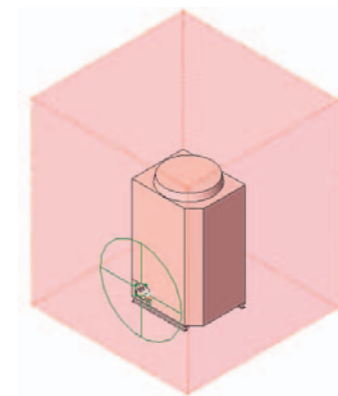
Update your Design Simulator

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



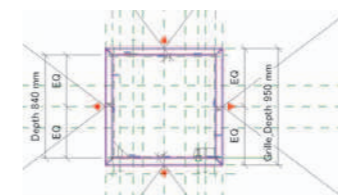
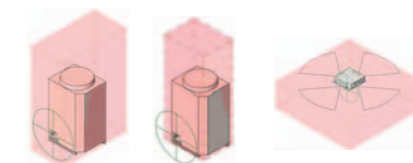
3D and 2D product data

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

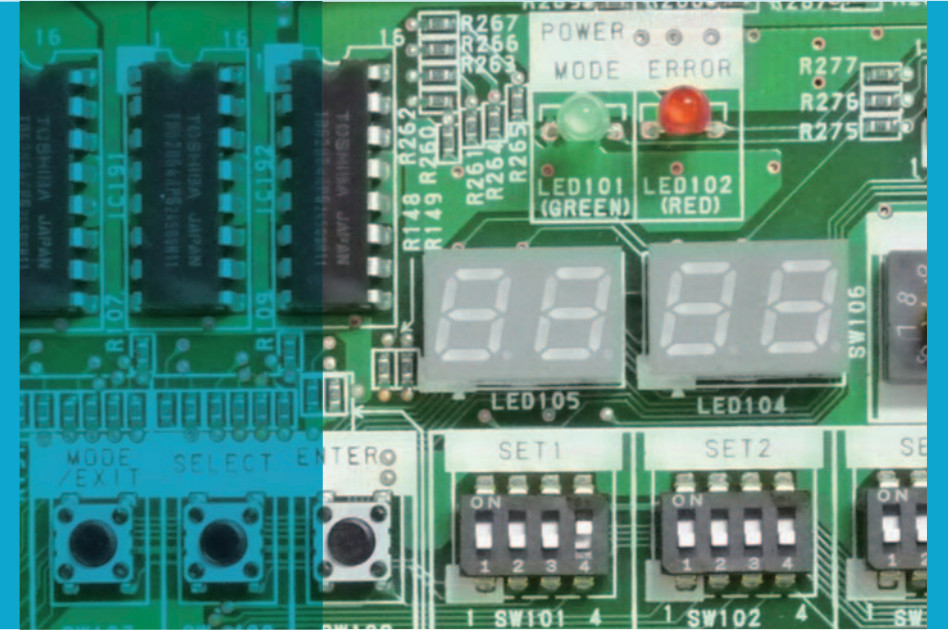
Other information, such as symbols showing the air flow direction that are required for installation drawings, is built in and can be automatically reflected in 2D drawings. Installation drawings can be created easily.

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.



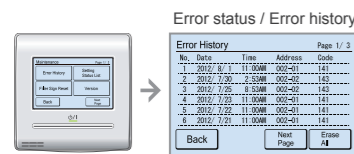
7-segment LED

Design for easy maintenance

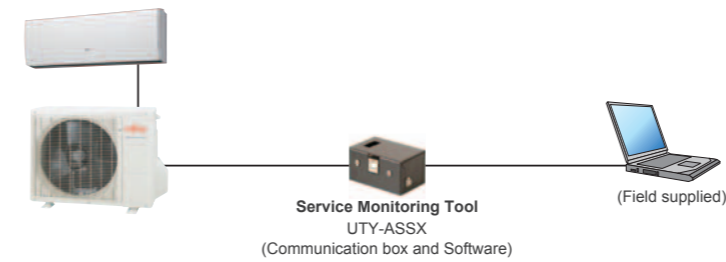
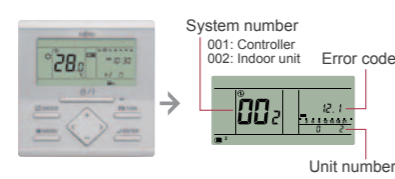
The air conditioner operating status and trouble status of the detailed are displayed at the 7-segment of the outdoor unit PCB or on the remote controller screen. The unit status can be checked rapidly and quick response is also possible.

- Operation mode status
- Discharge temperature / Pressure status
- Compressor operation indication
- Address / Type / Number of outdoor unit
- Error code

Wired Remote Controller (Touch panel)



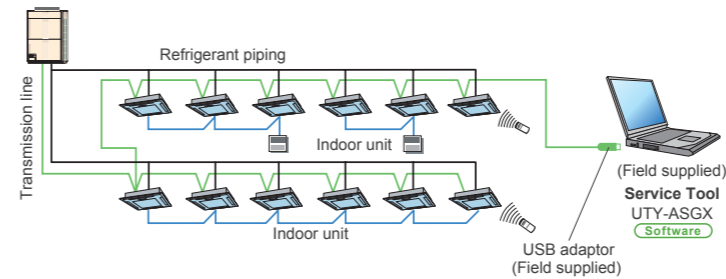
Wired Remote Controller



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)

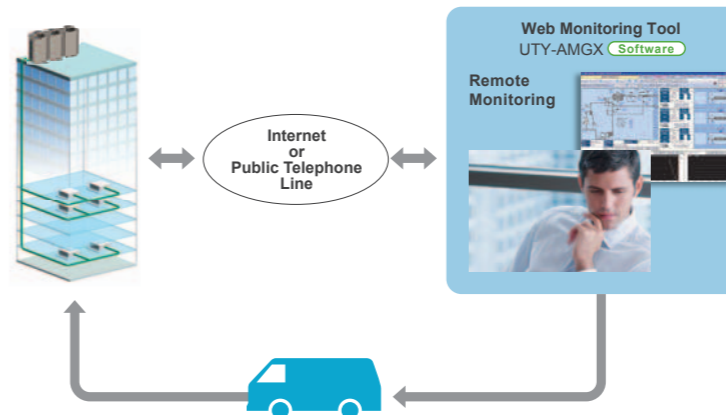


Mobile trouble shooting tool for iPhone

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.



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

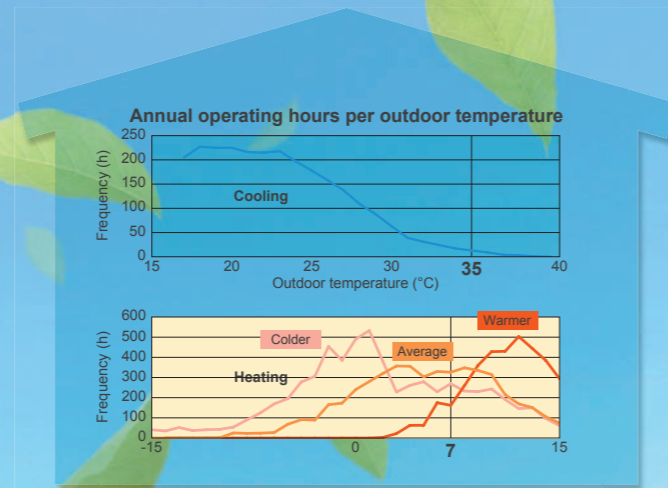
Fujitsu General promoting air sourced heat pumps as renewable energy source heating systems

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



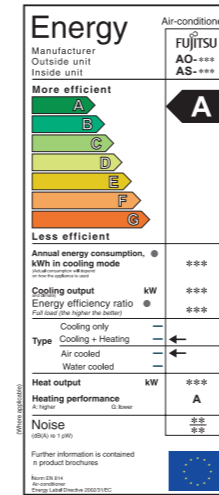
Fujitsu General provides air conditioners with higher SEER and SCOP.

*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

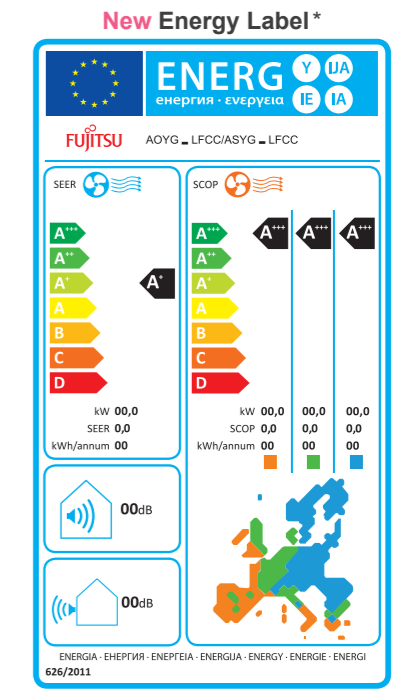
- Three climate zone for heating (Average zone : mandatory) (Warmer and colder zone are optional)
- Seasonal efficiency
- Sound power level

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**
- Sound pressure level**

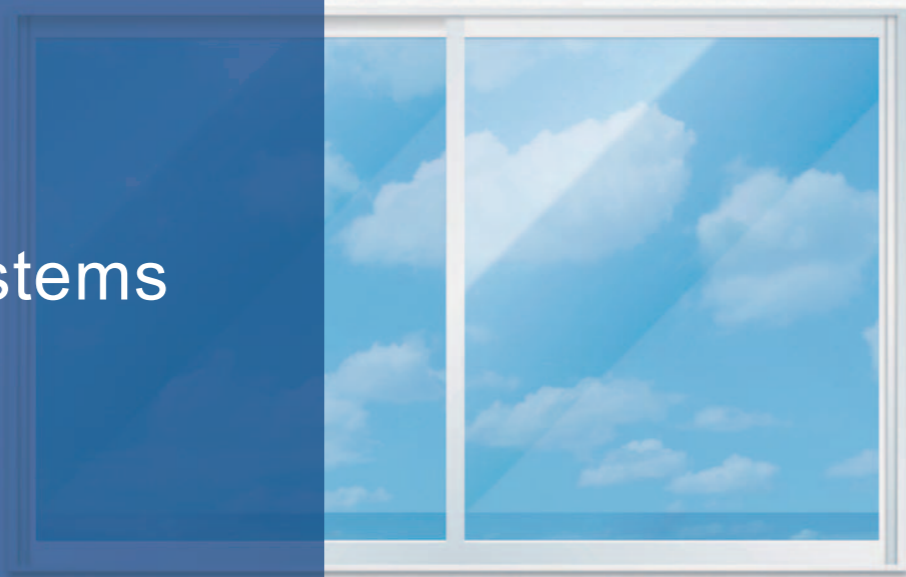
- Annual efficient operation
- Reduce total power consumption
- Low noise products

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~



AIRSTAGE™ J-IIS

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 Air to Water systems



WATERSTAGE™



Control box

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

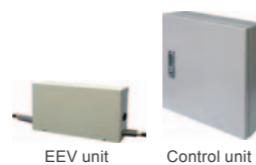
- 100% outdoor air intake possible
- Compact size and high static pressure 200 Pa (22.4 kW)
- High energy saving by adopting DC motor



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-IIS, J-II, V-II, VR-II) series



Future Release

NEW 5-kW Monobloc series

Features

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

Future Release



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	7.1	8.8	10.6	12.5	14.0	15.0	20.0	25.0	
Capacity (kW)			7	9	12	14	18	24	30	36	45	54	60	72	90	
Model Code			7	9	12	14	18	24	30	36	45	54	60	72	90	
Wall Mounted Page 40 ~	High Spec. & Design	INVERTER		 ASYG09LTCA	 ASYG12LTCA											
	High COP	INVERTER	 ASYG07LUCA	 ASYG09LUCA	 ASYG12LUCA	 ASYG14LUCA										
	Standard	INVERTER	 ASYG07LMCA	 ASYG09LMCA	 ASYG12LMCA	 ASYG14LMCA	 ASYG18LFCA	 ASYG24LFCC	 ASYG30LFCA							
	Basic	INVERTER	NEW  ASYG07LLCC	NEW  ASYG09LLCC	NEW  ASYG12LLCC											
Floor Page 50		INVERTER		 AGYG09LVCA	 AGYG12LVCA	 AGYG14LVCA										
Compact Cassette / Cassette Page 52 ~		INVERTER			 AUYG12LVLB	 AUYG14LVLB	 AUYG18LVLB	 AUYG24LVLA	 AUYG30LRLE	 AUYG36LRLE AUYG36LRLA [3phase]	 AUYG45LRLA AUYG45LRLA [3phase]	 AUYG54LRLA AUYG54LRLA [3phase]				
Floor/Ceiling Page 56		INVERTER				 ABYG18LVTB		 ABYG24LVTA								
Ceiling Page 58		INVERTER							 ABYG30LRTE	 ABYG36LRTE ABYG36LRTA [3phase]	 ABYG45LRTA ABYG45LRTA [3phase]	 ABYG54LRTA ABYG54LRTA [3phase]				
Slim Duct Page 60		INVERTER			 ARYG12LLTB	 ARYG14LLTB	 ARYG18LLTB									
Medium Static Pressure Duct Page 62		INVERTER						 ARYG24LMLA	 ARYG30LMLE	 ARYG36LMLE ARYG36LMLA [3phase]	 ARYG45LMLA ARYG45LMLA [3phase]					
High Static Pressure Duct Page 64 ~		INVERTER									 ARYG45LHTA ARYG45LHTA [3phase]	 ARYG54LHTA ARYG54LHTA [3phase]	 ARYG60LHTA [3phase]	 ARYC72LHTA [3phase]	 ARYC90LHTA [3phase]	
MULTI SPLIT																
Up to 2 Units Page 72		INVERTER				 AOYG 14LAC2	 AOYG 18LAC2									
Up to 3 Units Page 72		INVERTER					 AOYG 18LAT3	 AOYG 24LAT3								
Up to 4 Units Page 72		INVERTER							 AOYG 30LAT4							
Up to 8 Units Page 74		INVERTER									 AOYG 45LB8					
Simultaneous Multi Twin / Triple Page 90		INVERTER								 AOYG 36LATT [3phase]	 AOYG 45LATT [3phase]	 AOYG 54LATT [3phase]				

ALL TYPE LINEUP VRF & VENTILATION, AIR TO WATER

VRF		All INVERTER Models																						
Capacity (kW)		12.1	14.0	15.1-15.5	22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5												
HP		4	5	6	8	10	12	14	16	18	20	22												
J-IIS series NEW Heat Pump Page 110 ~																								
		AJY040LCLAH	AJY045LCLAH	AJY054LCLAH																				
J-II series Heat Pump Page 114 ~																								
		AJYA40LALH	AJYA45LALH	AJYA54LALH																				
V-II series Heat Pump	Space saving Page 118 ~																							
	Set Model				AJYA72LALH	AJYA90LALH	AJY108LALH	AJY126LALH	AJY144LALH	AJY162LALH	AJY180LALH	AJY198LALH												
V-II series Heat Pump	Energy efficiency Page 118 ~																							
	Set Model							AJY144LALHH			AJY198LALHH													
VR-II series Heat Recovery	Space saving Page 126 ~																							
	Set Model				AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJY162GALH	AJY180GALH	AJY198GALH												
VR-II series Heat Recovery	Energy efficiency Page 126 ~																							
	Set Model							AJY144GALHH			AJY198GALHH													

VENTILATION							
Airflow rate (m³/h)	250	350	500	800	1000	1500	2000
Energy Recovery Ventilator Page 164							
	UTZ-BD025B	UTZ-BD035B	UTZ-BD050B	UTZ-BD080B	UTZ-BD100B		
Outdoor Air Unit Page 166							
					NEW ARXH 054GTAH	NEW ARXH 072GTAH	NEW ARXH 096GTAH

AIR TO WATER		All INVERTER Models						
Capacity (kW)		5	6	8	10	11	14	16
Split	High Power series Single phase Page 178 Hydraulic Unit / Outdoor Unit							
	3 phase Page 178 Hydraulic Unit / Outdoor Unit							
	Comfort series Page 178 Hydraulic Unit / Outdoor Unit							
Split DHW integrated	High Power series Single phase Page 179 Hydraulic Unit / Outdoor Unit							
	3 phase Page 179 Hydraulic Unit / Outdoor Unit							
	Comfort series Page 179 Hydraulic Unit / Outdoor Unit							
Monobloc	Compact model Page 180 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



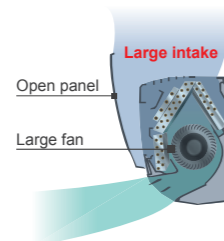
High Spec. & Design : ASYG09LTCA / ASYG12LTCA



Features

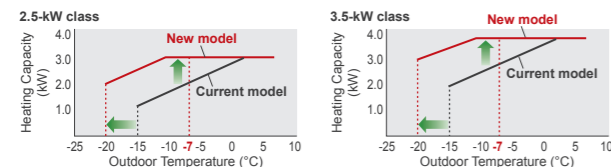
Thin & Slim design

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.



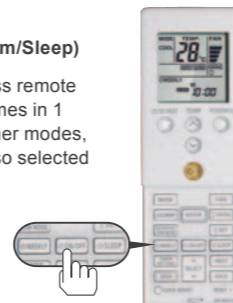
Energy saving control

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.

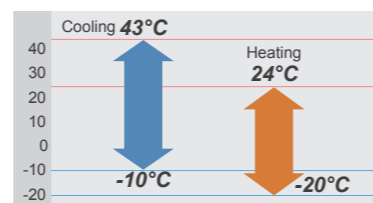


Powerful operation mode

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

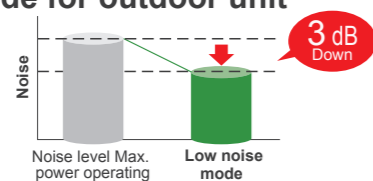
10°C HEAT Operation

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.



Low noise mode for outdoor unit

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



Optional parts

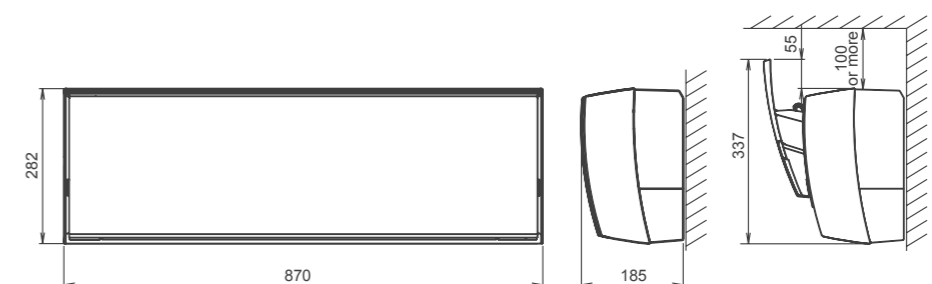
- Wired Remote Controller: UTY-RNNYM / UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- Communication kit: UTY-TWBXF

Specifications

Model No.	Indoor unit		ASYG09LTCA		ASYG12LTCA	
	Outdoor unit		AOYG09LTC		AOYG12LTC	
Power Source	V/∅/Hz		230/1/50		230/1/50	
Capacity	Cooling	kW	2.5 (0.9-3.5)		3.5 (1.1-4.0)	
	Heating	kW	3.2 (0.9-5.4)		4.0 (0.9-6.5)	
Input Power	Cooling/Heating		kW		0.505/0.660	
EER	Cooling		W/W		4.95	
COP	Heating		W/W		4.85	
Pdesign	Cooling/Heating (@-10°C)		kW		2.5/3.0	
SEER	Cooling		W/W		8.50	
SCOP	Heating (Average)		W/W		4.60	
Energy Efficiency Class	Cooling		A+++		A+++	
	Heating (Average)		A++		A++	
Running Current	Cooling/Heating		A		4.0/4.3	
Annual Energy Consumption	Cooling		kWh/a		103	
	Heating		kWh/a		144	
Moisture Removal			l/h		1.3	
Sound Pressure (Cooling)	Indoor	H/M/L/Q	dB(A)		42/36/32/21	
	Outdoor	High	dB(A)		48	
	Indoor	High	dB(A)		59	
Sound Power (Cooling)	Indoor	High	dB(A)		63	
	Outdoor	High	dB(A)		64	
Airflow Rate (High)	Indoor / Outdoor		m³/h		800/1,700	
			mm		282×870×185	
Net Dimension H x W x D	Indoor		kg(lbs)		9.5 (21)	
	Outdoor		mm		540×790×290	
			kg(lbs)		33 (73)	
Piping Connections (Small / Large)			mm		6.35/9.52	
	Drain hose Diameter (I.D./O.D.)		mm		13.8/15.8 to 16.7	
Max Pipe Length (Pre-Charge)			m		20 (15)	
Max Height Difference			m		15	
Operation Range	Cooling		°CDB		-10 to 43	
	Heating		°CDB		-20 to 24	
Refrigerant (Global Warming Potential)					R410A (1,975)	

Dimensions Models: ASYG09LTCA / ASYG12LTCA

(Unit : mm)



Wall Mounted

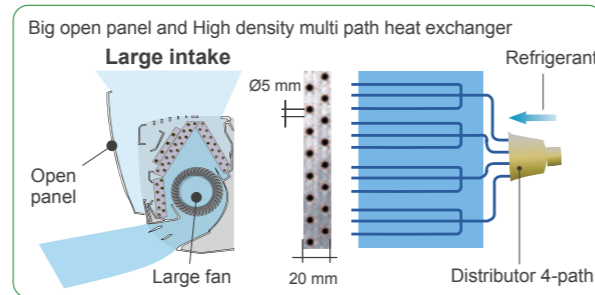
High COP : ASYG07LUCA / ASYG09LUCA / ASYG12LUCA / ASYG14LUCA



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.

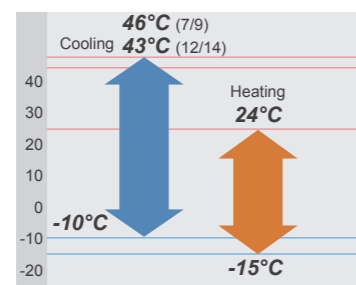
*Only available with Wireless RC.

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.

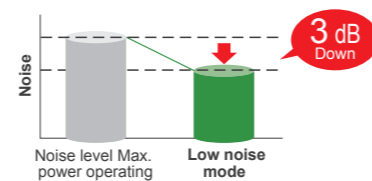


Low ambient operation



Low noise mode for outdoor unit

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



Optional parts

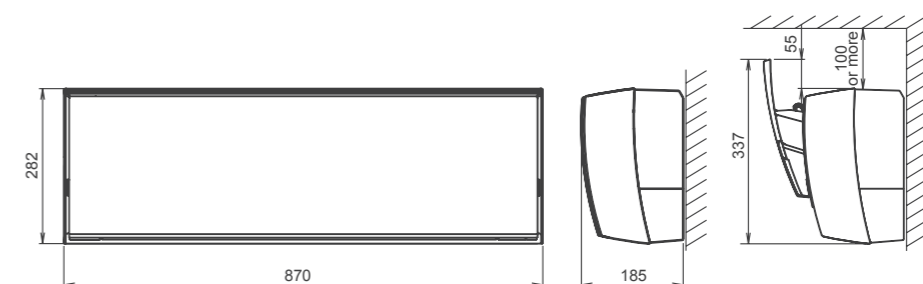
- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- Communication kit: UTY-TWBXF

Specifications

Model No.	Indoor unit		ASYG07LUCA	ASYG09LUCA	ASYG12LUCA	ASYG14LUCA
	Outdoor unit		AOYG07LUCA	AOYG09LUCB	AOYG12LUC	AOYG14LUC
Power Source	V/∅/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	kW	3.0 (0.5-4.0)	3.2 (0.5-4.2)	4.0 (0.9-5.6)	5.4 (0.9-6.0)
Input Power	Cooling/Heating	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	W/W	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)	W/W	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	kWh/a	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	57	59	60	60
	Outdoor	High	58	60	65	65
Airflow Rate (High)	Indoor / Outdoor	m³/h	680/1,720	800/1,720	850/1,940	900/1,940
		mm	282x870x185	282x870x185	282x870x185	282x870x185
Net Dimension H x W x D	Indoor	kg(lbs)	9.5 (21)	9.5 (21)	9.5 (21)	9.5 (21)
	Outdoor	mm	540x660x290	540x660x290	540x790x290	540x790x290
		kg(lbs)	23 (51)	25 (55)	33 (73)	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.)			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 46	-10 to 46	-10 to 43	-10 to 43
	Heating	°CDB	-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)

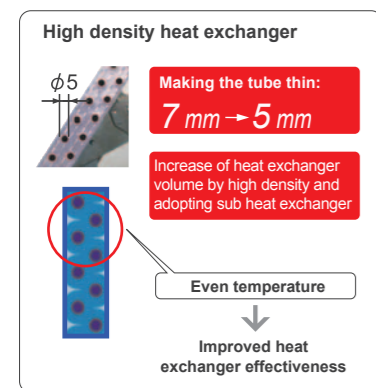


Standard : ASYG07LMCA / ASYG09LMCA / ASYG12LMCA / ASYG14LMCA

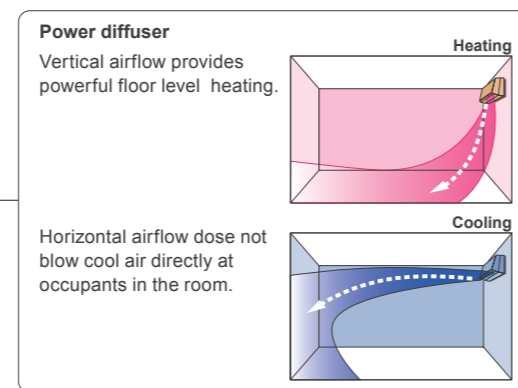


Features

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.

24 hr Programmable timer

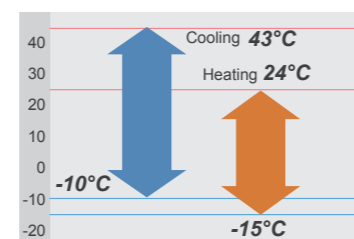
24 hr program timer and sleep timer can be easily set.



10°C HEAT Operation

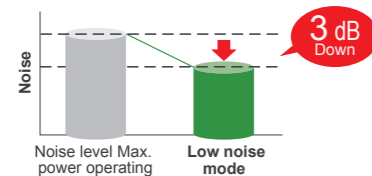
The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied

Low ambient operation



Low noise mode for outdoor unit

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



Optional parts

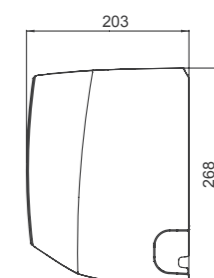
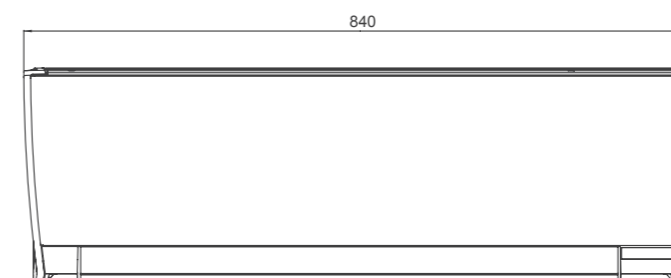
- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- Communication kit: UTY-XCBXZ2

Specifications

Model No.	Indoor unit		ASYG07LMCA	ASYG09LMCA	ASYG12LMCA	ASYG14LMCA
	Outdoor unit		AOYG07LMCA	AOYG09LMCA	AOYG12LMCA	AOYG14LMCA
Power Source	V/∅/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	kW	3.0 (0.5-3.4)	3.2 (0.5-4.0)	4.0 (0.9-5.3)	5.0 (0.9-6.0)
Input Power	Cooling/Heating	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	W/W	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)	W/W	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	kWh/a	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
		mm	268X840X203	268X840X203	268X840X203	268X840X203
Net Dimension H x W x D	Indoor	kg(lbs)	8.5 (19)	8.5 (19)	8.5 (19)	8.5 (19)
	Outdoor	mm	535X663X293	535X663X293	535X663X293	540X790X290
	kg(lbs)		21 (46)	26 (57)	34 (75)	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.)			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	°CDB	-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

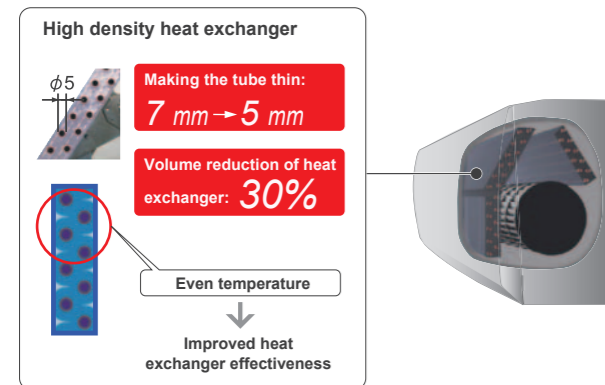


Wireless R.C.



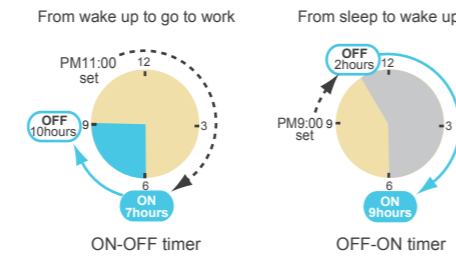
Features

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)



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.

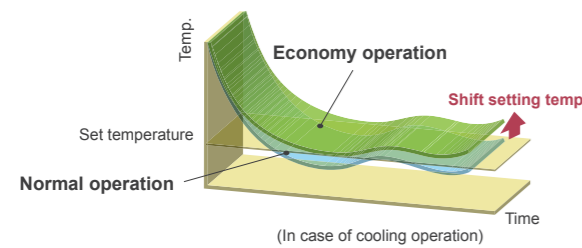


Powerful operation

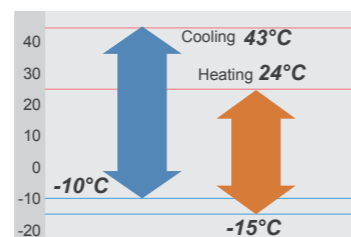
20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.

Economy operation

Setting temp. is shifted by 1°C automatically.



Low ambient operation



Optional parts

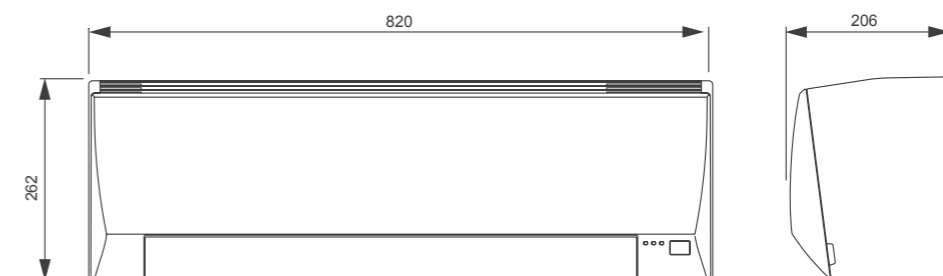
Remote Controller Holder: UTZ-RXLA

Specifications

Model No.	Indoor unit		ASYG07LLCC	ASYG09LLCC	ASYG12LLCC
	Outdoor unit		AOYG07LLCC	AOYG09LLCC	AOYG12LLCC
Power Source	V/∅/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	kW	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	W/W	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)	W/W	4.00	4.00	3.80
Energy Efficiency Class	Cooling		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	kWh/a	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
		mm	262×820×206	262×820×206	262×820×206
Net Dimension H x W x D	Indoor	kg(lbs)	7.0 (15)	7.0 (15)	7.0 (15)
	Outdoor	kg(lbs)	535×663×293 24 (53)	535×663×293 24 (53)	535×663×293 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.)			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	°CDB	-15 to 24	-15 to 24	-15 to 24
Refrigerant (Global Warming Potential)			R410A (1,975)	R410A (1,975)	R410A (1,975)

Dimensions Models : ASYG07LLCC / ASYG09LLCC / ASYG12LLCC

(Unit : mm)



Wall Mounted

Standard : ASYG18LFCA / ASYG24LFCC / ASYG30LFCA



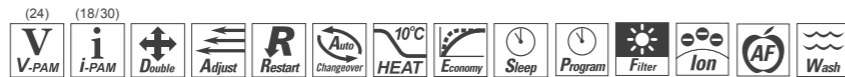
Wireless R.C.



For ASYG18LFCA
ASYG24LFCC

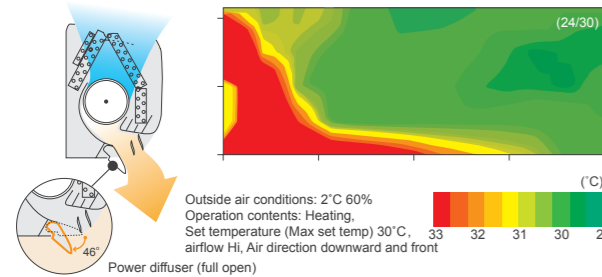


For ASYG30LFCA

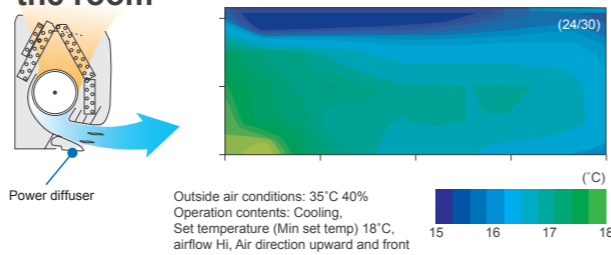


Features

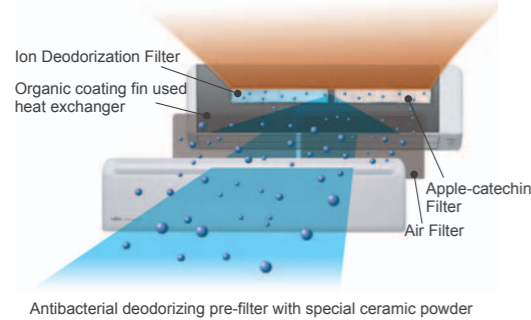
“Vertical airflow” provides powerful floor level heating



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



Air conditioner filter features



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

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

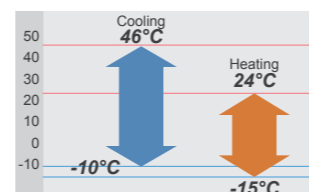
Flexible Installation

	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

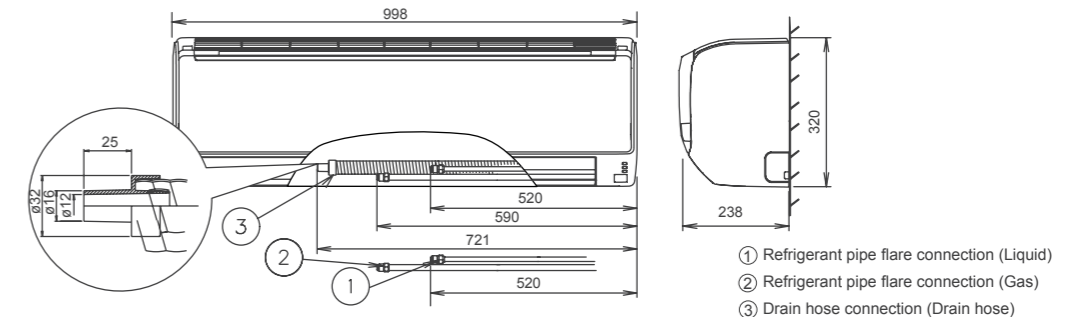
Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
Simple Remote Controller: UTY-RSNYM

Specifications

Model No.	Indoor unit		ASYG18LFCA	ASYG24LFCC	ASYG30LFCA
	Outdoor unit		AOYG18LFC	AOYG24LFCC	AOYG30LFT
Power Source	V/∅/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	kW	6.3 (0.9-9.1)	8.0 (0.9-10.6)	8.8 (2.2-11.0)
Input Power	Cooling/Heating		1.52/1.71	2.20/2.21	2.49/2.44
	Cooling	kW	3.42	3.23	3.21
EER	Cooling/Heating		3.68	3.61	3.61
	Cooling	W/W	3.42	3.23	3.21
COP	Cooling/Heating		5.2/5.9	7.1/7.1	8.0/8.0
	Cooling	W/W	6.94	6.11	5.69
Pdesign	Cooling/Heating (@-10°C)		5.2/5.9	7.1/7.1	8.0/8.0
	Cooling	W/W	6.94	6.11	5.69
SEER	Cooling/Heating		2.6	2.7	3.2
	Cooling	W/W	6.94	6.11	5.69
SCOP	Cooling/Heating		2.6	2.7	3.2
	Heating (Average)	W/W	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		262	406	492
	Heating		2130	2610	2941
Moisture Removal		l/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		900/2150	1120/2460	1100/3600
			mm	320X998X238	320X998X238
Net Dimension H x W x D	Indoor		14 (31)	14 (31)	14 (31)
	Outdoor		620X790X298	620X790X298	830X900X330
Piping Connections (Small / Large)			41 (90)	41 (90)	61 (135)
			kg(lbs)	41 (90)	61 (135)
Drain Hose Diameter (I.D./O.D.)			6.35/12.8	6.35/15.88	9.52/15.88
Max Pipe Length (Pre-Charge)			12/16	12/16	12/16
Max Height Difference			25 (15)	30 (15)	50 (20)
Operation Range	Cooling		20	20	30
	Heating		-10 to 46	-10 to 46	-10 to 46
Refrigerant (Global Warming Potential)	Cooling		-10 to 46	-10 to 46	-10 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24
			R410A (1,975)	R410A (1,975)	R410A (1,975)

Dimensions Models : ASYG18LFCA / ASYG24LFCC / ASYG30LFCA

(Unit : mm)



Model : AGYG09LVCA / AGYG12LVCA / AGYG14LVCA



Wireless R.C.



For AGYG09/12LVCA

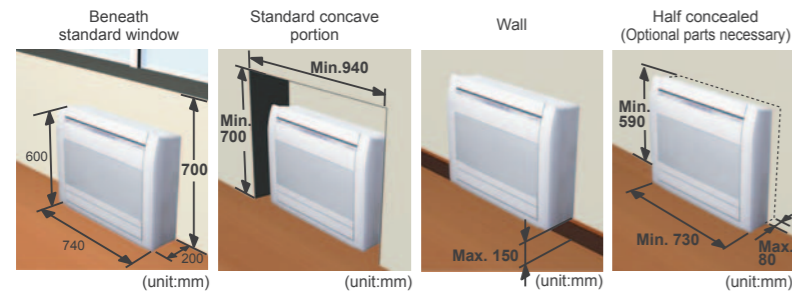


For AGYG14LVCA

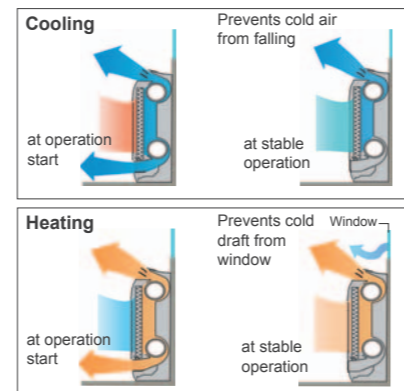


Features

Flexible & easy installation



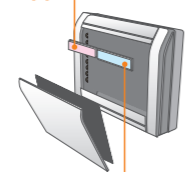
2-Fan & Wide airflow



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.

Apple-catechin Filter

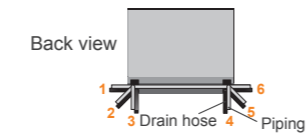


Ion Deodorization Filter

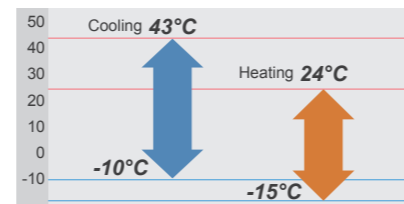
Using different filters at both sides

Apple-catechin 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



Optional parts

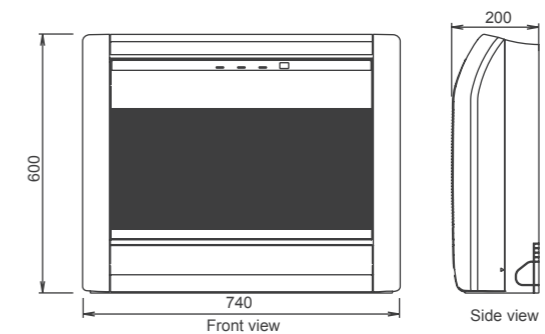
- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- Half Concealed Kit: UTR-STA

Specifications

Model No.	Indoor unit		AGYG09LVCA	AGYG12LVCA	AGYG14LVCA
	Outdoor unit		AOYG09LVCA	AOYG12LVCA	AOYG14LVLA
Power Source	V/∅/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	kW	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
	Cooling	W/W	4.91	3.72	3.68
EER	Heating	W/W	4.43	3.78	3.61
	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
	Heating (Average)	W/W	4.20	4.00	4.00
SCOP	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	kWh/a	967	1330	1645
Moisture Removal		l/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
	Indoor	High	55	55	58
Sound Power (Cooling)	Indoor	High	64	64	65
	Outdoor	High	64	64	65
Airflow Rate (High)	Indoor / Outdoor	m³/h	570/1680	570/1680	650/1910
		mm	600x740x200	600x740x200	600x740x200
Net Dimension H x W x D	Indoor	kg(lbs)	14 (31)	14 (31)	14 (31)
	Outdoor	mm	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.)			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	°CDB	-15 to 24	-15 to 24	-15 to 24
Refrigerant (Global Warming Potential)			R410A (1,975)	R410A (1,975)	R410A (1,975)

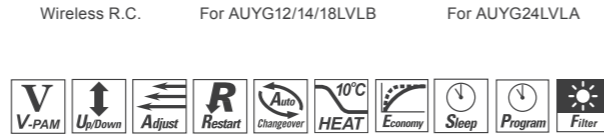
Dimensions Models : AGYG09LVCA / AGYG12LVCA / AGYG14LVCA

(Unit : mm)



Compact Cassette

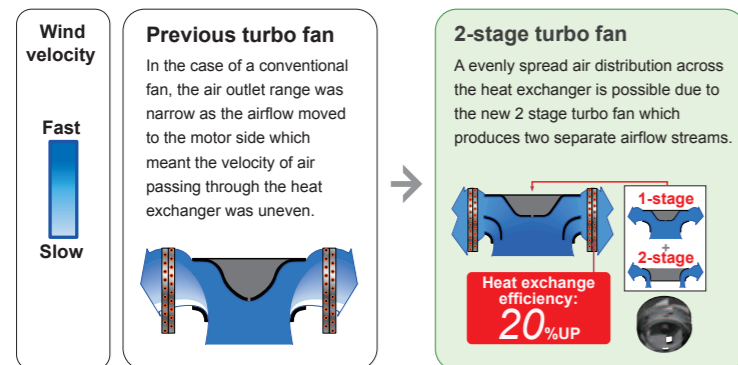
Model : AUYG12LVLB / AUYG14LVLB / AUYG18LVLB / AUYG24LVLA



Features

2-stage turbo fan

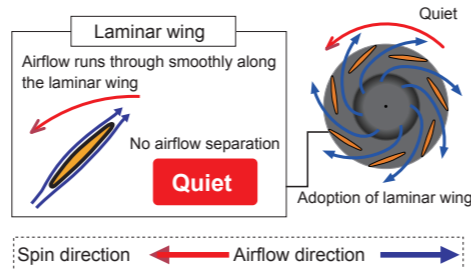
High efficiency design by 2 stage structure



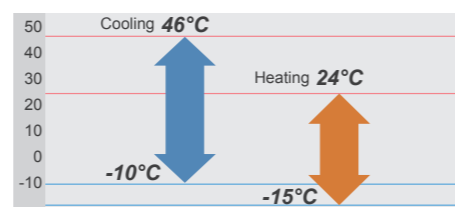
Quiet quality

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

Designed by CFD-analysis (fluid) simulations



Low ambient operation

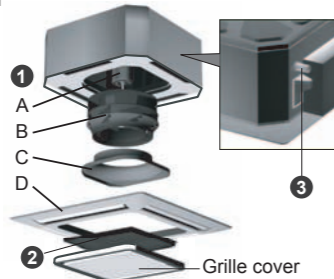


Easy maintenance

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



Compact design

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

Optional parts

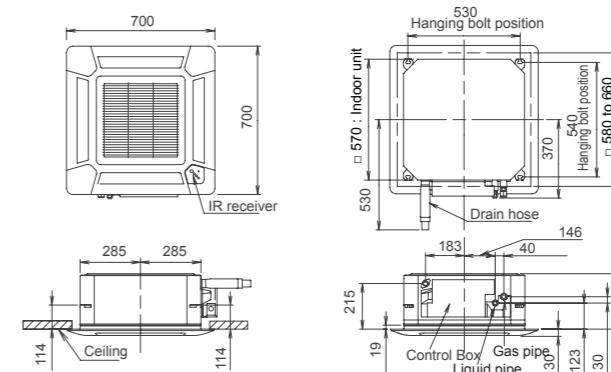
- Air Outlet Shutter Plate: UTR-YDZB
- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- Insulation Kit For High Humidity: UTZ-KXGC
- Fresh Air Intake Kit: UTZ-VXAA

Specifications

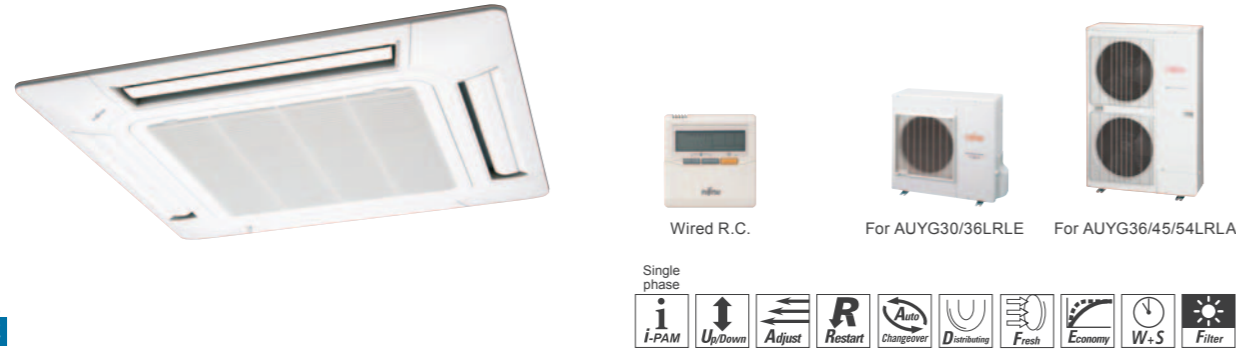
Model No.	Indoor unit		AUYG12LVLB	AUYG14LVLB	AUYG18LVLB	AUYG24LVLA
	Outdoor unit		AOYG12LALL	AOYG14LALL	AOYG18LALL	AOYG24LALA
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)	6.8 (0.9-8.0)
	Heating	kW	4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)	8.0 (0.9-9.1)
Input Power	Cooling/Heating	kW	1.05/1.11	1.33/1.34	1.62/1.66	2.21/2.26
EER	Cooling	W/W	3.33	3.21	3.21	3.08
COP	Heating	W/W	3.69	3.71	3.61	3.54
Pdesign	Cooling/Heating (@-10°C)	kW	3.5/4.2	4.3/4.5	5.2/5.2	6.8/6.0
SEER	Cooling	W/W	6.20	6.40	6.20	5.60
SCOP	Heating (Average)	W/W	4.10	4.40	4.20	3.90
Energy Efficiency Class	Cooling		A++	A++	A++	A+
	Heating (Average)		A+	A+	A+	A
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	kWh/a	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
	Indoor	High	49	50	50	59
Sound Power (Cooling)	Indoor	High	61	62	62	67
	Outdoor	High	61	62	62	67
Airflow Rate (High)	Indoor / Outdoor	m³/h	600/1780	680/1910	680/2000	930/2470
		mm	245×570×570/49×700×700	245×570×570/49×700×700	245×570×570/49×700×700	245×570×570/49×700×700
Net Dimension H x W x D	Indoor	kg(lbs)	15 (33) / 2.6 (6)	15 (33) / 2.6 (6)	15 (33) / 2.6 (6)	16 (35) / 2.6 (6)
		mm	578×790×300	578×790×300	578×790×300	578×790×315
	Outdoor	kg(lbs)	40 (88)	40 (88)	40 (88)	44 (97)
		mm	40 (88)	40 (88)	40 (88)	44 (97)
Piping Connections (Small / Large)		mm	6.35/9.52	6.35/12.70	6.35/12.70	6.35/15.88
Drain Hose Diameter (I.D./O.D.)			25/32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)		m	25 (15)	25 (15)	25 (15)	30 (15)
Max Height Difference			15	15	15	20
Operation Range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant (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)



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

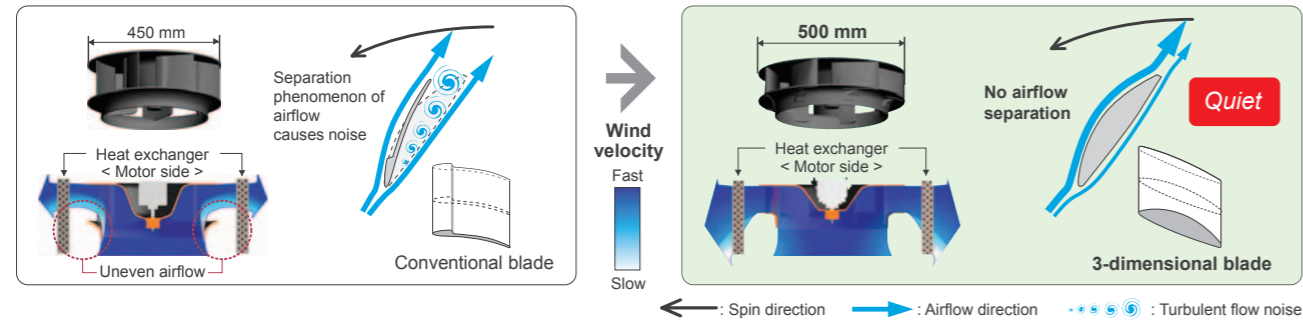


Features

High efficiency turbo fan with 3-dimensional blade

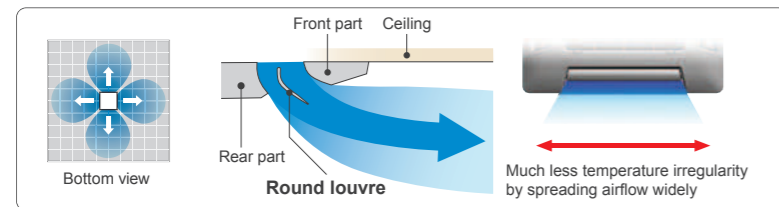
Previous turbo fan: Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.

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.

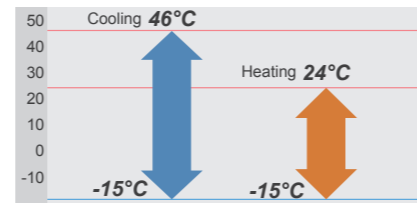


Improvement of the airflow distribution

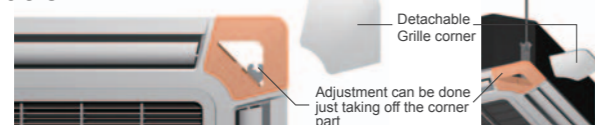
New louvre: The louvre design distributes air leaving a space between the chassis and the ceiling allowing far and wide airflow distribution.



Low ambient operation



Adjustment of hanger position is possible after installation



High lift drain pump



Optional parts

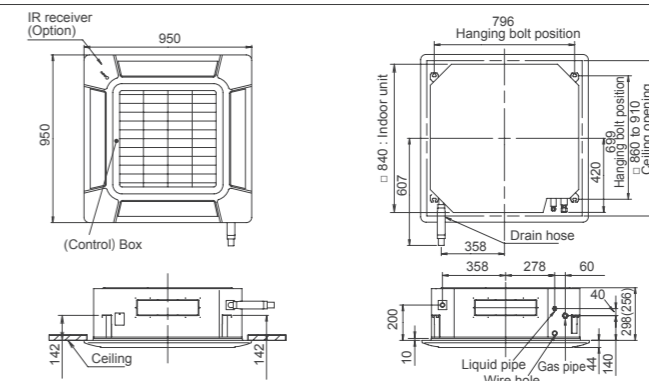
- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- IR Receiver Kit: UTY-LRHYA2
- Wide Panel: UTG-AGYA-W
- Panel Spacer: UTG-BGYA-W
- Air Outlet Shutter Plate: UTR-YDZC
- Insulation Kit For High Humidity: UTZ-KXGA
- Fresh Air Intake Kit: UTZ-VXGA

Specifications

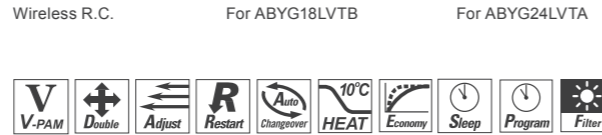
Model No.	Indoor unit		AUYG30LRLE	AUYG36LRLE	AUYG45LRLA	AUYG54LRLA	AUYG36LRLA	AUYG45LRLA	AUYG54LRLA
	Outdoor unit		AOYG30LETL	AOYG36LETL	AOYG45LETL	AOYG54LETL	AOYG36LATT	AOYG45LATT	AOYG54LATT
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50	400/3/50	400/3/50	400/3/50
Capacity	Cooling	kW	8.5 (2.8-10.0)	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	kW	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	W/W	3.21	3.21	3.22	3.01	4.10	3.53	3.21
COP	Cooling	W/W	3.61	3.71	3.71	3.41	4.38	3.91	3.61
	Heating	W/W	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	W/W	6.50	6.30	-	-	6.50	-	-
SCOP	Cooling	W/W	4.30	4.20	-	-	4.30	-	-
	Heating	W/W	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	kWh/a	458	555	-	-	573	-	-
Moisture Removal	Cooling	l/h	2.5	3.5	4.5	5.0	3.0	4.5	5.0
	Heating	l/h	2.604	2.897	-	-	3.253	-	-
Sound Pressure (Cooling)	Indoor	H/M/L/Q	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
	Indoor	High	54	57	-	-	58	-	-
Sound Power (Cooling)	Indoor	High	61	69	-	-	67	-	-
	Outdoor	High	68	69	-	-	67	-	-
	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
	mm	288x840x840 50x950x950	288x840x840 50x950x950	288x840x840 50x950x950	288x840x840 50x950x950	288x840x840 50x950x950	288x840x840 50x950x950	288x840x840 50x950x950	288x840x840 50x950x950
Net Dimension H x W x D	Indoor	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)	26 (57) / 5.5 (12)
	Outdoor	kg(lbs)	830x900x330	830x900x330	1290x900x330	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	9.52/15.88	9.52/15.88	9.52/15.88
	mm	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0
Max Pipe Length (Pre-Charge)	m	50 (20)	50 (20)	50 (20)	50 (20)	75 (30)	75 (30)	75 (30)	75 (30)
	m	30	30	30	30	30	30	30	30
Operation Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating	°CDB	-15 to 24	-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)	R410A (1,975)
Cassette Grille			UTG-UGYA-W	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)



Model : ABYG18LVTB / ABYG24LVTA



Features

Flexible installation

Example for floor installation

Floor console



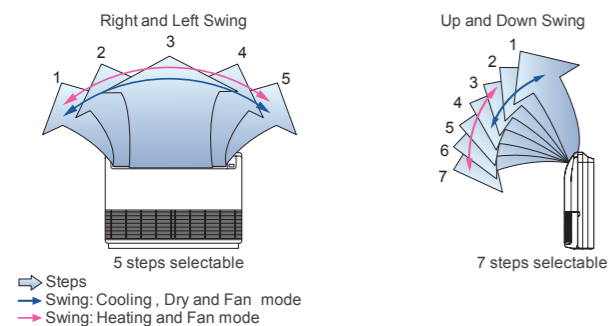
Example for ceiling installation

Under ceiling

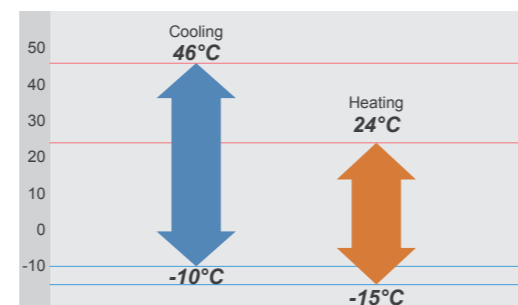


Double auto swing

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

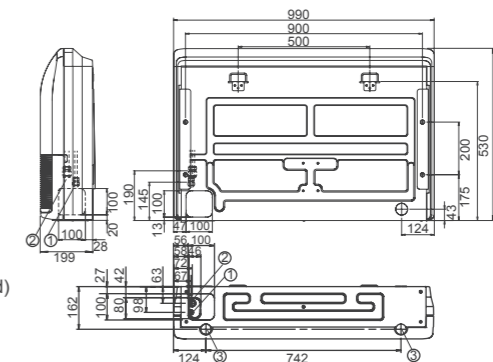
Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
Simple Remote Controller: UTY-RSNYM

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	kW	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	W/W	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	W/W	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	kWh/a	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	
		mm	199x990x655		199x990x655	
Net Dimension H x W x D	Indoor	kg(lbs)	27 (59)		27 (59)	
	Outdoor	mm	578x790x300		578x790x315	
	kg(lbs)		40 (88)		44 (97)	
Piping Connections (Small / Large)		mm	6.35/12.70		6.35/15.88	
Drain Hose Diameter (I.D./O.D.)			25/32		25/32	
Max Pipe Length (Pre-Charge)		m	25 (15)		30 (15)	
Max Height Difference			15		20	
Operation Range	Cooling	°CDB	-10 to 46		-10 to 46	
	Heating	°CDB	-15 to 24		-15 to 24	
Refrigerant (Global Warming Potential)			R410A (1,975)		R410A (1,975)	

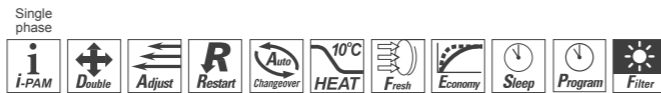
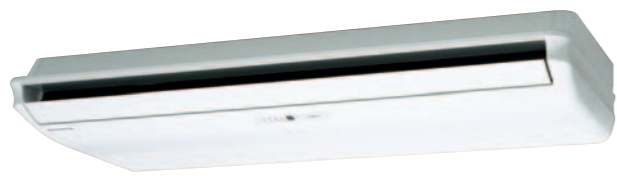
Dimensions Models : ABYG18LVTB / ABYG24LVTA

(Unit : mm)



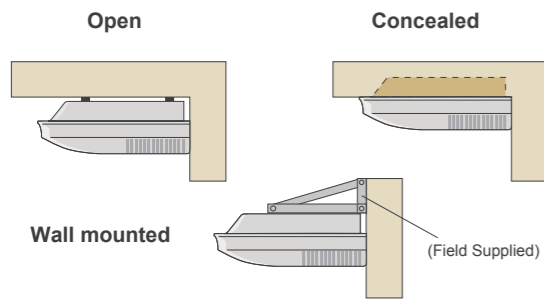
- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection

Model : ABYG30LRTE / ABYG36LRTE / ABYG45LRTA /
 ABYG36LRTA (3phase) / ABYG45LRTA (3phase) / ABYG54LRTA (3phase)



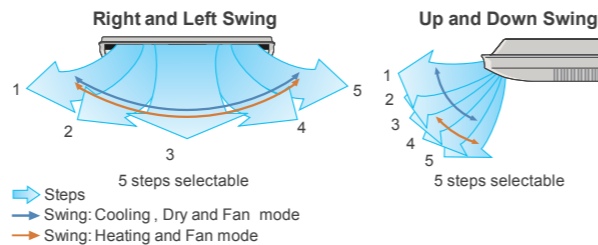
Features

Installation



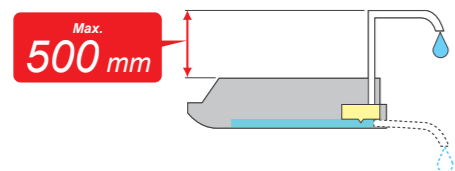
Multi auto swing

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

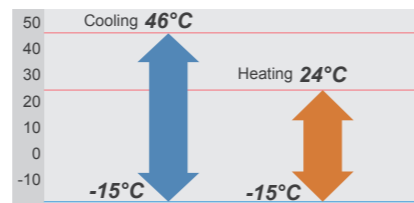


Condensate lift-up mechanism (Option)

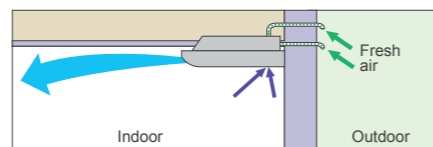
Optional drain lift-up mechanism allows flexible installation.



Low ambient operation



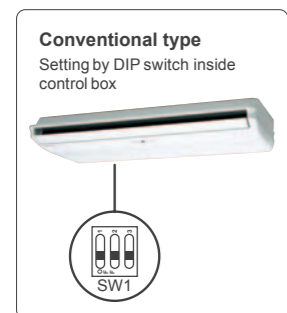
Fresh air intake



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

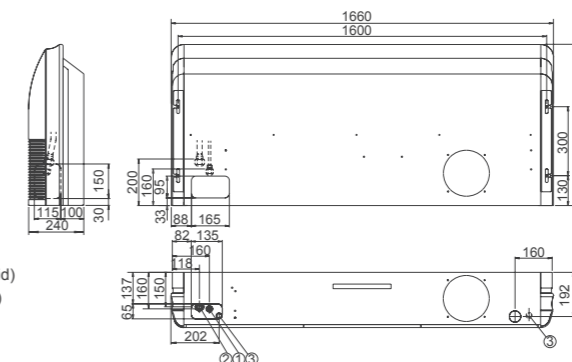
Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
 Simple Remote Controller: UTY-RSNYM
 Drain Pump Unit: UTR-DPB24T
 Flange: UTD-RF204

Specifications

Model No.	Indoor unit		ABYG30LRTE	ABYG36LRTE	ABYG45LRTA	ABYG36LRTA	ABYG45LRTA	ABYG54LRTA
	Outdoor unit		AOYG30LETL	AOYG36LETL	AOYG45LETL	AOYG36LATT	AOYG45LATT	AOYG54LATT
Power Source	V/∅/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	kW	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
	Cooling	W/W	3.21	3.21	3.21	3.52	3.21	3.01
EER	Cooling	W/W	3.61	3.71	3.61	3.90	3.61	3.43
	Heating	W/W	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	-	-
	Cooling	W/W	6.10	6.00	-	6.10	-	-
SEER	Cooling	W/W	4.20	4.10	-	4.10	-	-
	Heating	W/W	4.20	4.10	-	4.10	-	-
SCOP	Cooling	W/W	-	-	-	-	-	-
	Heating	W/W	-	-	-	-	-	-
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
	Cooling	kWh/a	487	548	-	573	-	-
Annual Energy Consumption	Cooling	kWh/a	2662	2965	-	3414	-	-
	Heating	kWh/a	2.5	3.0	4.0	3.0	4.5	5.0
Moisture Removal	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	55
Sound Pressure (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
	mm		240x1660x700	240x1660x700	240x1660x700	240x1660x700	240x1660x700	240x1660x700
Net Dimension H x W x D	Indoor	kg(lbs)	46 (101)	46 (101)	46 (101)	46 (101)	46 (101)	48 (106)
	Outdoor	mm	830x900x330	830x900x330	1290x900x330	1290x900x330	1290x900x330	1290x900x330
Piping Connections (Small / Large)	Indoor	kg(lbs)	61 (134)	61 (134)	86 (189)	104 (229)	104 (229)	104 (229)
	Outdoor	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
Drain Hose Diameter (I.D./O.D.)	Indoor	m	21.5/26.0	21.5/26.0	21.5/26.0	21.5/26.0	21.5/26.0	21.5/26.0
	Outdoor	m	50 (20)	50 (20)	50 (20)	75 (30)	75 (30)	75 (30)
Max Pipe Length (Pre-Charge)	Indoor	m	30	30	30	30	30	30
	Outdoor	m	30	30	30	30	30	30
Max Height Difference	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant (Global Warming Potential)	Cooling		R410A (1,975)	R410A (1,975)	R410A (1,975)	R410A (1,975)	R410A (1,975)	R410A (1,975)
	Heating		R410A (1,975)	R410A (1,975)	R410A (1,975)	R410A (1,975)	R410A (1,975)	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

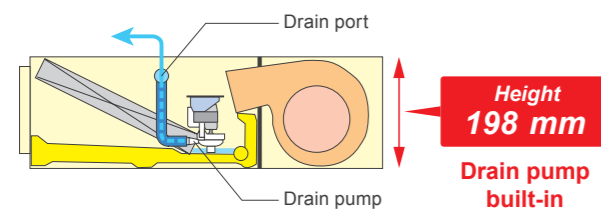
Wired R.C.



Features

Slim design

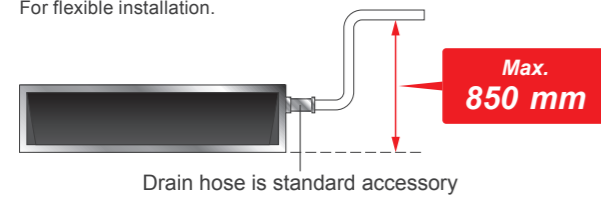
The slim design allows installations where ceilings are narrow.



Height 198 mm
Drain pump built-in

Drain hose as standard accessory

For flexible installation.



Max. 850 mm

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.

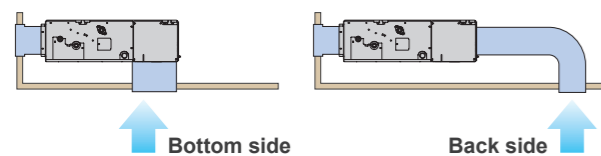
The change of static pressure range is possible by remote controller.



Static pressure range 0 to 90 Pa

Air-intake

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



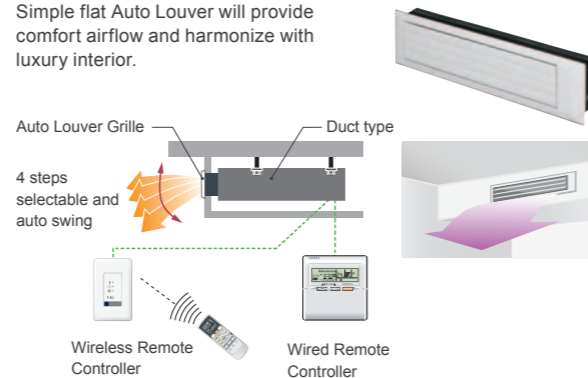
Flexible installation

Ceiling concealed Floor concealed



Auto Louver Grille Kit (Option)

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



Optional parts

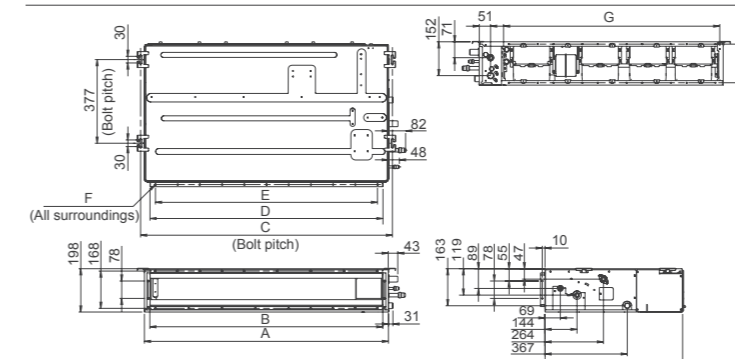
- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- IR Receiver Kit: UTY-LRHYM
- Remote Sensor Unit: UTY-XSZX
- Auto Louver Grille Kit: UTD-GXSA-W (For ARYG12 / 14LLTB)
UTD-GXSB-W (For ARYG18LLTB)

Specifications

Model No.	Indoor unit		ARYG12LLTB	ARYG14LLTB	ARYG18LLTB
	Outdoor unit		AOYG12LALL	AOYG14LALL	AOYG18LALL
Power Source	V/∅/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	kW	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
	Cooling	W/W	3.33	3.21	3.21
EER	Cooling	W/W	3.69	3.71	3.61
	Heating	W/W	3.33	3.21	3.21
Pdesign	Cooling/Heating	kW	3.5/4.2	4.3/4.5	5.2/5.2
	Cooling	W/W	5.90	5.80	6.20
SEER	Cooling	W/W	4.00	3.90	4.10
	Heating	W/W	4.00	3.90	4.10
SCOP	Cooling	W/W	A+	A+	A++
	Heating	W/W	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	kWh/a	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
	Indoor	High	58	60	58
Sound Power (Cooling)	Indoor	High	61	62	62
	Outdoor	High	61	62	62
Airflow Rate (High)	Indoor / Outdoor	m ³ /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	198x900x620
	Outdoor	kg(lbs)	19 (42)	19 (42)	23 (51)
		mm	578x790x300	578x790x300	578x790x300
Piping Connections (Small / Large)	Indoor	kg(lbs)	40 (88)	40 (88)	40 (88)
	Outdoor	kg(lbs)	40 (88)	40 (88)	40 (88)
Drain Hose Diameter (I.D./O.D.)		mm	6.35/9.52	6.35/12.70	6.35/12.70
Max Pipe Length (Pre-Charge)		mm	25/32	25/32	25/32
Max Height Difference		m	25 (15)	25 (15)	25 (15)
Operation Range	Cooling	°CDB	15	15	15
	Heating	°CDB	-10 to 46	-10 to 46	-10 to 46
Refrigerant (Global Warming Potential)			-15 to 24	-15 to 24	-15 to 24
			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	18x∅5	22x∅5
G	574	774

Medium Static Pressure Duct

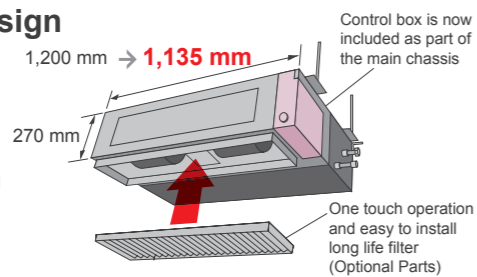
Model : ARYG24LMLA / ARYG30LMLE / ARYG36LMLE / ARYG45LMLA / ARYG36LMLA [3phase] / ARYG45LMLA [3phase]



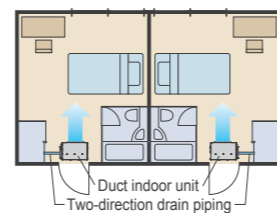
Features

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.



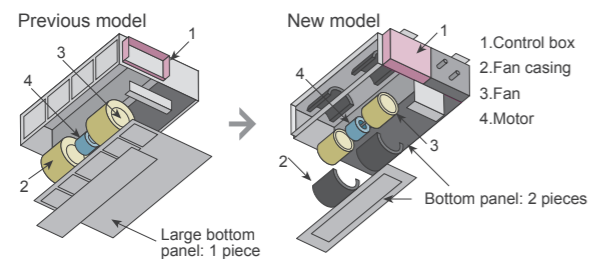
Two-direction drain piping



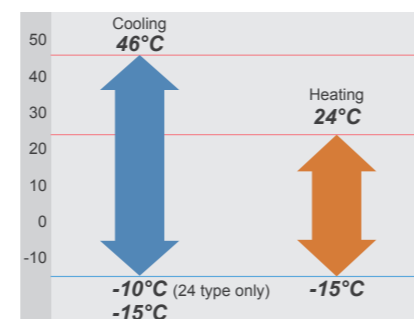
Easy maintenance

Structural improvement is attained by making the bottom panel two pieces, front and rear. The 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



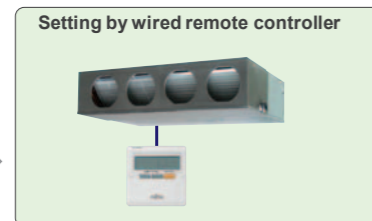
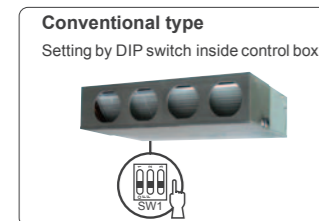
Low ambient operation



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



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

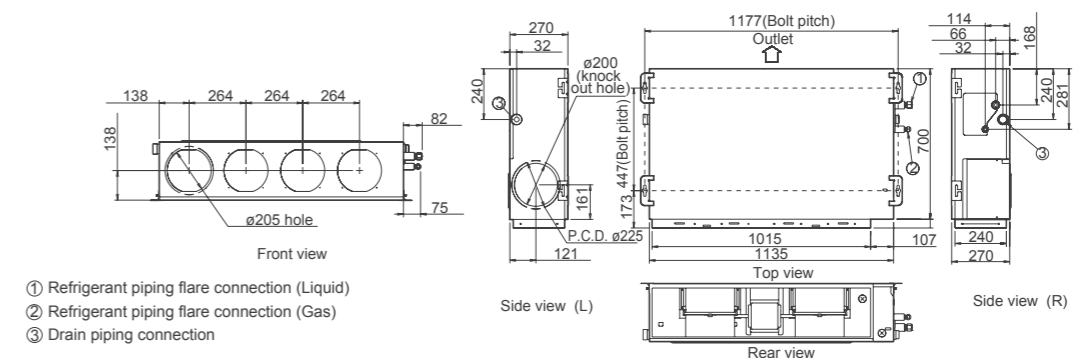


Specifications

Model No.	Indoor unit		ARYG24LMLA	ARYG30LMLE	ARYG36LMLE	ARYG45LMLA	ARYG36LMLA	ARYG45LMLA
	Outdoor unit		AOYG24LALA	AOYG30LETL	AOYG36LETL	AOYG45LETL	AOYG36LATT	AOYG45LATT
Power Source	V/∅/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	kW	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	W/W	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	W/W	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	kWh/a	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	mm	270x1135x700	270x1135x700	270x1135x700	270x1135x700	270x1135x700	270x1135x700
	Outdoor	kg(lbs)	38 (84)	40 (88)	40 (88)	40 (88)	40 (88)	40 (88)
Piping Connections (Small / Large)	Indoor	mm	578x790x315	830x900x330	830x900x330	1290x900x330	1290x900x330	1290x900x330
	Outdoor	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	°CDB	-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)



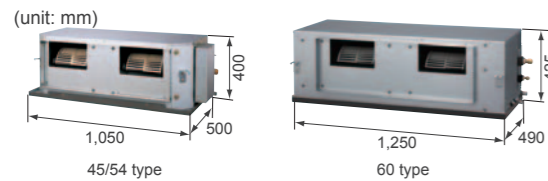
Features

High energy efficiency

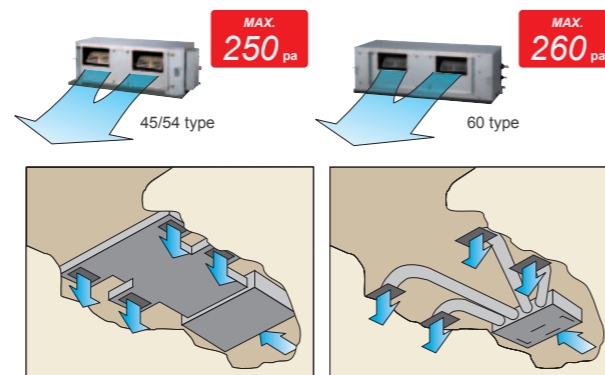
Significantly greater efficiency is realized by using all DC inverter technology. (60 type)

Easy installation (Compact size & Lightweight)

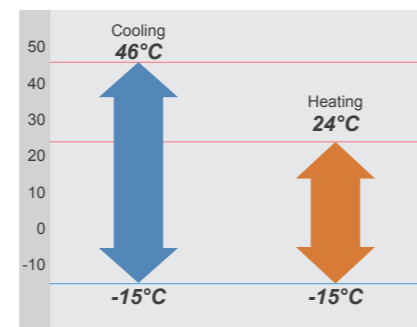
A compact size and lightweight indoor unit has been developed by reducing the basic chassis and the overall material weight.



Design also corresponding to high static pressure



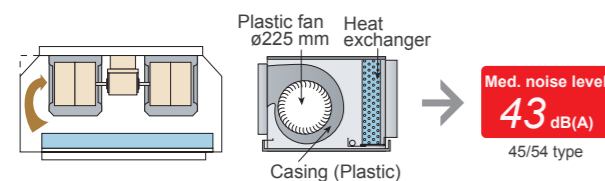
Low ambient operation



Low noise

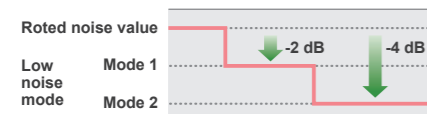
Indoor unit

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)



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)

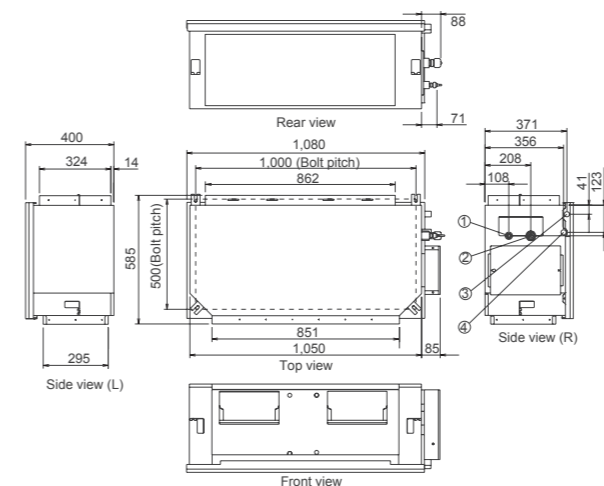
Specifications

Model No.	Indoor unit		ARYG45LHTA	ARYG54LHTA	ARYG45LHTA	ARYG54LHTA	ARYG60LHTA	
	Outdoor unit		AOYG45LETL	AOYG54LETL	AOYG45LATT	AOYG54LATT	AOYG60LATT	
Power Source	V/∅/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	kW	14.0 (5.0-16.2)	16.0 (5.5-18.0)	14.0 (5.4-16.2)	16.0 (5.8-18.0)	18.0 (6.2-20.0)	
Input Power	Cooling/Heating	kW	4.30/3.80	4.77/4.69	4.06/3.67	4.65/4.37	4.70/5.15	
EER	Cooling	W/W	2.91	2.81	3.08	3.01	3.19	
COP	Heating	W/W	3.68	3.41	3.81	3.66	3.50	
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			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)	100 to 250 (100)	100 to 250 (100)	100 to 250 (100)	60 to 260 (60)
			mm	400x1050x500	400x1050x500	400x1050x500	400x1050x500	425x1250x490
Net Dimension H x W x D	Indoor	kg(lbs)	46 (101)	46 (101)	46 (101)	46 (101)	54 (119)	
		mm	1290x900x330	1290x900x330	1290x900x330	1290x900x330	1290x900x330	
Piping Connections (Small / Large)	Outdoor	kg(lbs)	86 (189)	86 (189)	104 (229)	104 (229)	104 (229)	
		mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	
Drain Hose Diameter (L.D./O.D.)			mm	23.4/25.4	23.4/25.4	23.4/25.4	23.4/25.4	
Max Pipe Length (Pre-Charge)			m	50 (20)	50 (20)	75 (30)	75 (30)	
Height Difference			m	30	30	30	30	
Operation Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	
	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	
Refrigerant			R410A	R410A	R410A	R410A	R410A	

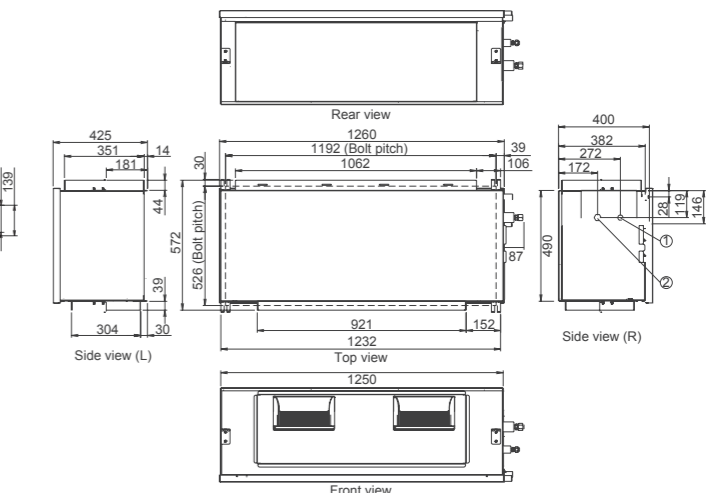
Dimensions Models : ARYG45LHTA / ARYG54LHTA / ARYG60LHTA

(Unit : mm)

Model: ARYG45LHTA / ARYG54LHTA



Model: ARYG60LHTA



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

High Static Pressure Duct

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



ARYC72LHTA



ARYC90LHTA



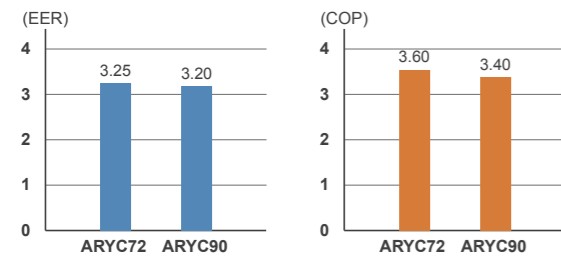
Wired R.C.



Features

High energy efficiency

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



Outdoor unit quiet operation

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

Peak cut operation

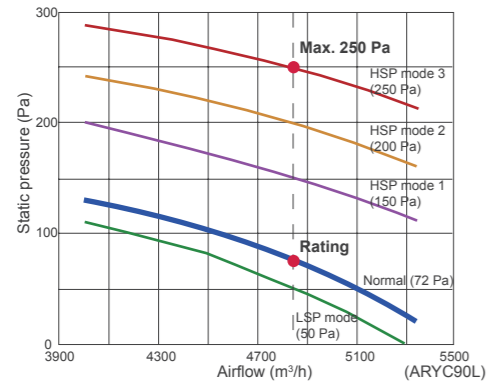
A peak power consumption mode controls a 4 step outdoor operation control to cut down energy usage at peak energy usage times.

Easy Service & Maintenance

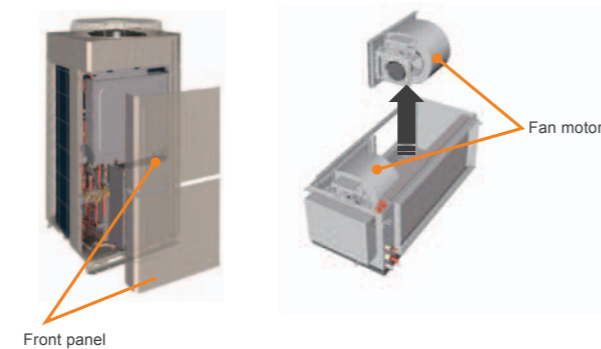
- Split front panel allows for maintenance from top or bottom of the outdoor unit
- Fan motors of the indoor unit can be removed separately

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.



Outdoor unit Indoor unit



Pursuance of amenity performance

Various remote controllers and sensors can be selected.



Optional parts

- Wired Remote Controller: UTY-RNNYM, UTY-RVNYM
- Simple Remote Controller: UTY-RSNYM
- Remote Sensor Unit: UTY-XSZX

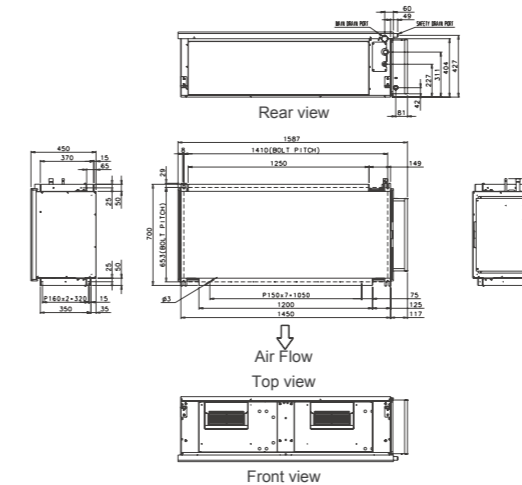
Specifications

Model No.	Indoor unit		ARYC72LHTA		ARYC90LHTA	
	Outdoor unit		AOYA72LALT		AOYA90LALT	
Power Source	V/∅/Hz		400/3/50		400/3/50	
Capacity	Cooling	kW	20.3 (10.8-23.5)		25.0 (11.2-28.0)	
	Heating	kW	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		9.6/9.6		11.9/12.5	
Moisture Removal			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		4300/9300		4850/10700	
Static pressure range (Standard)			50 to 250 (72)		50 to 250 (72)	
			450x1587x700		550x1587x700	
Net Dimension H x W x D	Indoor	kg(lbs)	100 (220)		110 (242)	
	Outdoor	mm	1690x930x765		1690x930x765	
Piping Connections (Small / Large)			12.70/25.40		12.70/25.40	
			75 (20)		75 (20)	
Max Pipe Length (Pre-Charge)			30		30	
Operation Range	Cooling	°CDB	-5 to 46		-5 to 46	
	Heating	°CDB	-15 to 24		-15 to 24	
Refrigerant			R410A		R410A	

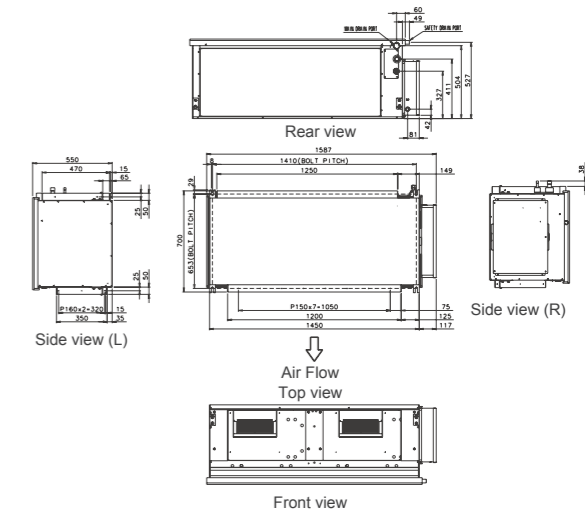
Dimensions Models : ARYC72LHTA / ARYC90LHTA

(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**.

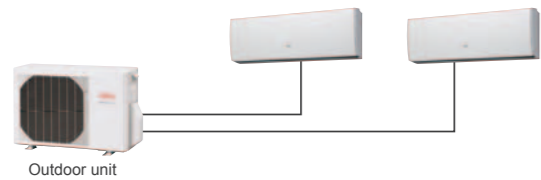
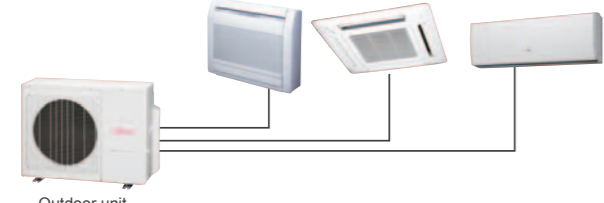
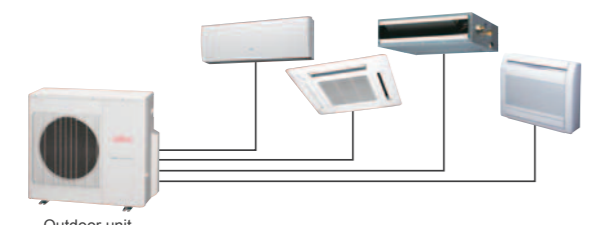
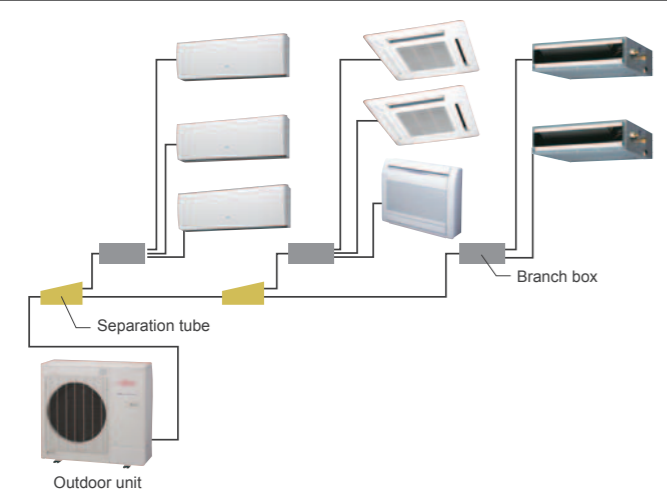
- 070** Multi type Line-up
- 072** 2 & 3-4 Rooms Multi
- 074** 8 Rooms Multi
- 078** Specifications of All Indoor Units
- 080** Multi Combination Table
- 090** Simultaneous Multi
- 092** Optional Parts for Split & Multi Split

MULTI SPLIT










Multi type Line-up

Multi Split Line-up

Model code	Capacity range					
	14	18	24	30	45	
Cooling rated capacity(kW)	4	5	5.4	6.8	8	14
2 Rooms Multi Up to 2 units						
	●	●				
	AOYG14LAC2	AOYG18LAC2				
3 Rooms Multi Up to 3 units						
			●	●		
			AOYG18LAT3	AOYG24LAT3		
4 Rooms Multi Up to 4 units						
					●	
					AOYG30LAT4	
8 Rooms Multi Up to 8 units						
						●
						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
							(Branch Box)
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					
	7000	2.0	●	●	●	●	●
ASYG07/09/12/14LM	9000	2.5	●	●	●	●	●
	12000	3.5	●	●	●	●	●
ASYG07/09/12/14LU	14000	4.0	—	●	●	●	●
	18000	5.0	—	—	—	●	●
ASYG18/24LF	24000	7.0	—	—	—	●	●
	9000	2.5	—	●	●	●	●
AGYG09/12/14LV	12000	3.5	—	●	●	●	●
	14000	4.0	—	—	●	●	●
	7000	2.0	—	●	●	●	●
AUYG07/09/12/14/18LV	9000	2.5	—	●	●	●	●
	12000	3.5	—	●	●	●	●
	14000	4.0	—	—	●	●	●
	18000	5.0	—	—	—	●	●
	14000	4.0	—	—	●	●	●
ABYG14/18LV	18000	5.0	—	—	—	●	●
	7000	2.0	—	●	●	●	●
ARYG07/09/12/14/18LL	9000	2.5	—	●	●	●	●
	12000	3.5	—	●	●	●	●
	14000	4.0	—	—	●	●	●
	18000	5.0	—	—	—	●	●

Indoor unit features

	Up/Down	Double	Adjust	Restart	Auto Changerover	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

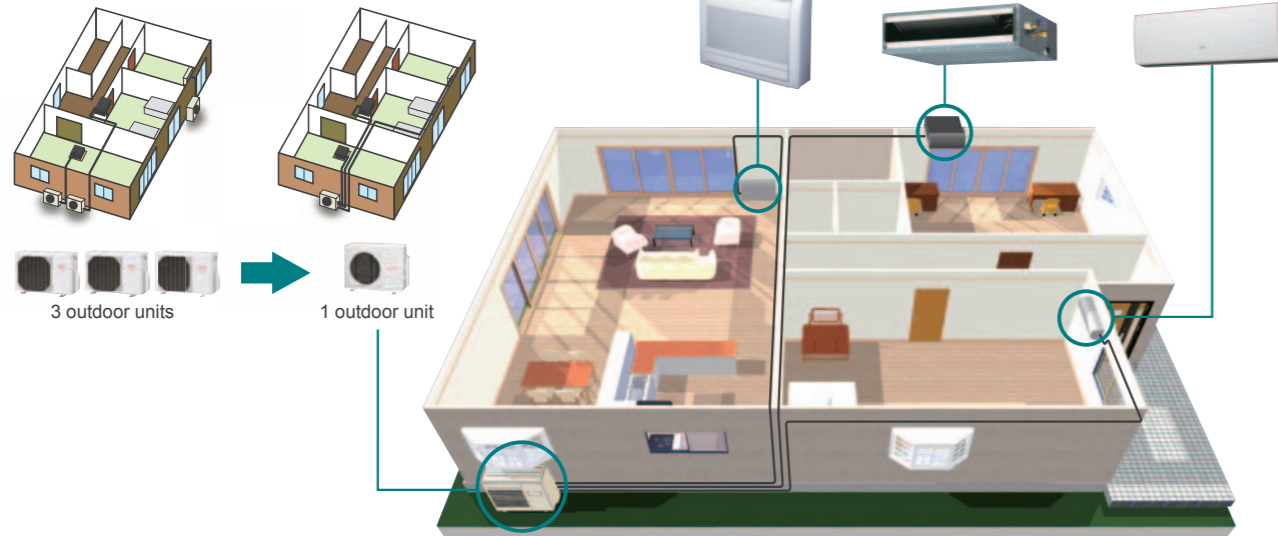
Space-saving installation

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



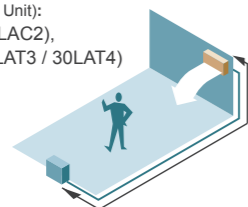
Wide range of indoor units with various models

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.

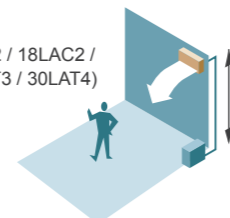
Flexible installation

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)

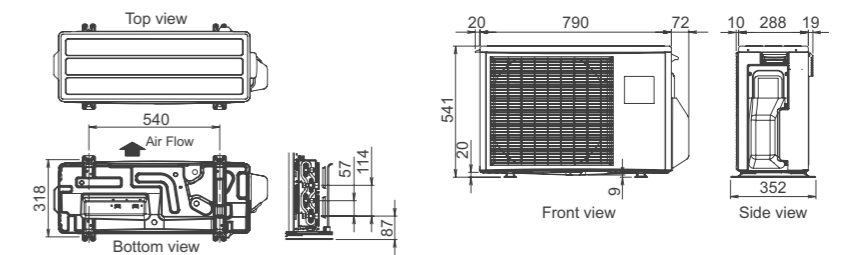
Model No.	Outdoor unit	AOYG14LAC2	AOYG18LAC2	AOYG18LAT3	AOYG24LAT3	AOYG30LAT4
Power Source	V/Ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Rated Capacity (min-max)	Cooling	4.0 (1.4-4.4)	5.0 (1.7-5.6)	5.4 (1.8-6.8)	6.8 (1.8-8.5)	8.0 (3.5-10.1)
	Heating	4.4 (1.1-5.4)	5.6 (1.8-6.1)	6.8 (2.0-8.0)	8.0 (2.0-8.8)	9.6 (3.7-12.0)
EER	Cooling	3.67	3.21	4.00	3.51	3.60
COP	Heating	4.27	3.97	4.20	4.00	4.00
Sound Pressure (High)	Cooling	47	50	46	48	50
	Heating	49	51	47	49	51
Sound Power (High)	Cooling	61	63	65	68	68
	Heating	63	64	67	70	70
Net Dimension H x W x D	mm	540x790x290	540x790x290	700x900x330	700x900x330	830x900x330
Weight	kg/(lbs)	37 (82)	38 (84)	55 (121)	55 (121)	68 (150)
Connection pipe Piping Connections	Small (Liquid)	Ø6.35x2	Ø6.35x2	Ø6.35x3	Ø6.35x3	Ø6.35x4 *(Ø6.35x3, Ø9.52)
	Large (Gas)	Ø9.52x2	Ø9.52x2 *(Ø9.52, Ø12.7)	Ø9.52x2, Ø12.7 *(Ø9.52x3)	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	70 / 25
Max. Height Difference	Between Outdoor Unit and Each Indoor Units.	15	15	15	15	15
	Between Indoor Units.	10	10	10	10	10
Operation Range	Cooling	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.

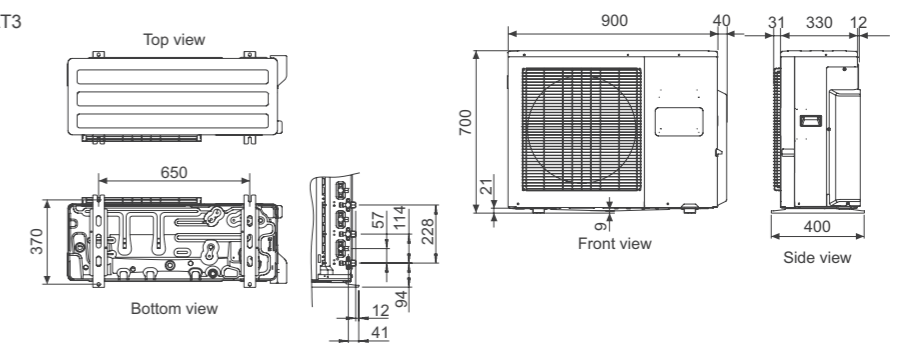
Dimensions

(Unit : mm)

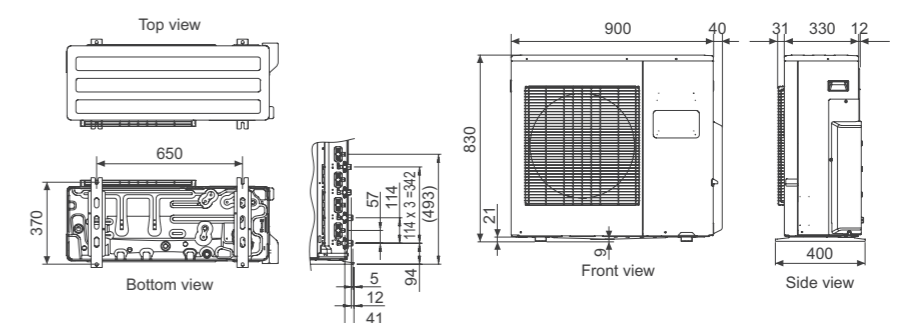
Models : AOYG14LAC2 / AOYG18LAC2



Models : AOYG18LAT3 / AOYG24LAT3



Models : AOYG30LAT4



8 Rooms Multi

8 Rooms : AOYG45LBT8

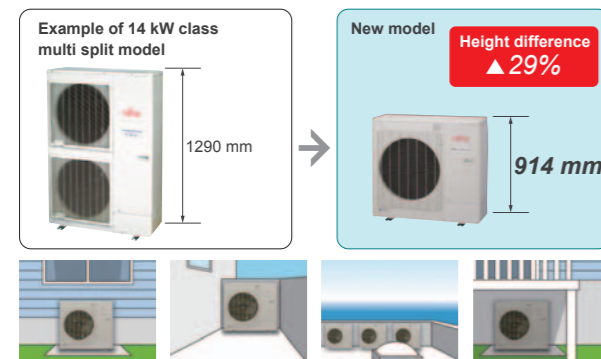


ALL DC

Features

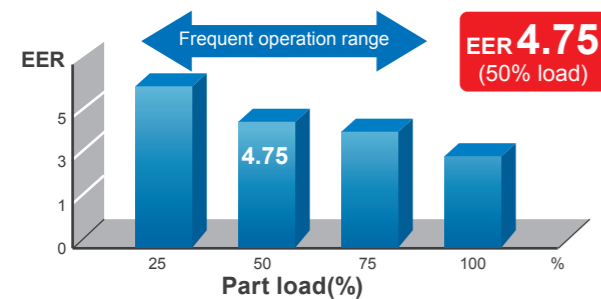
High Efficiency & Compact

Compact outdoor unit



High seasonal efficiency

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



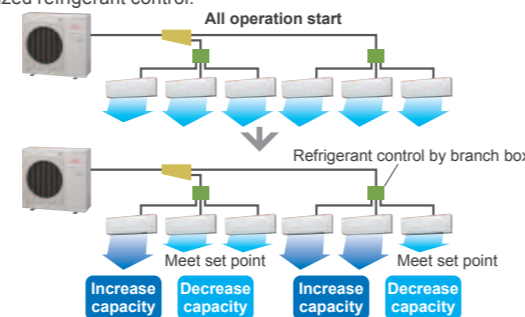
Innovated technology

- High efficiency large fan :** 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.

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

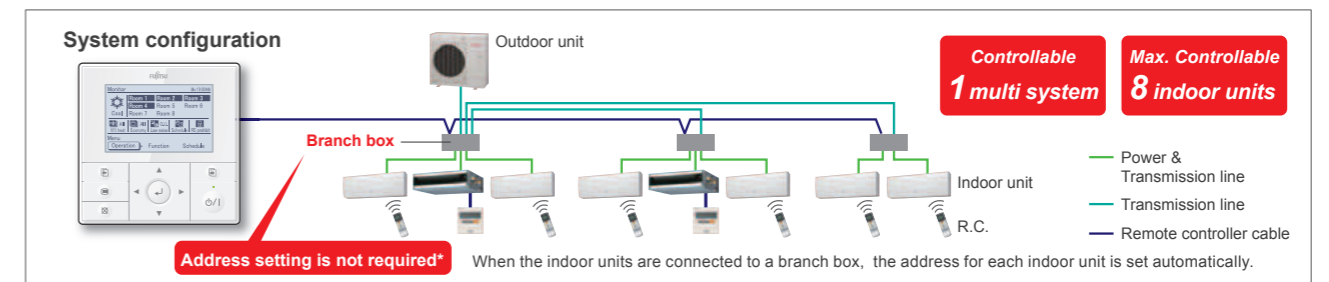
- Large backlight LED screen
- Large easy-to-see operation panel



UTY-DMMYM

Multiple language support

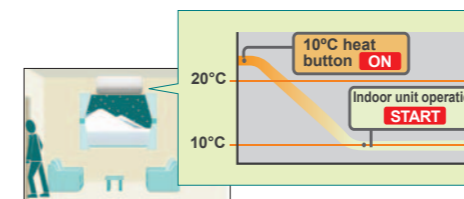
Corresponds to 9 different languages (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)



*Note : Cross-over connections are not allowed in the refrigerant system. Group settings are not allowed.

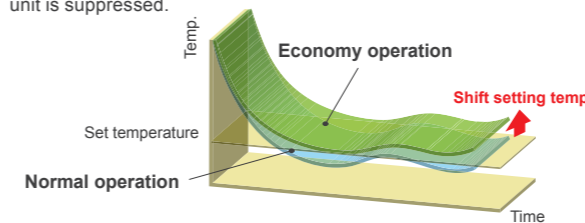
10°C heat operation

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.

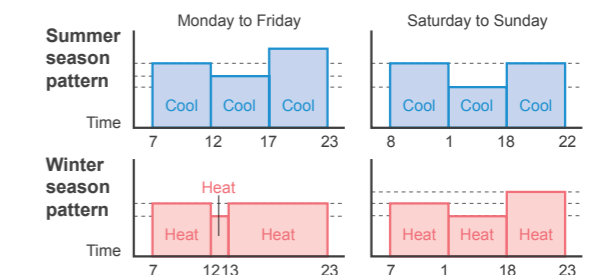


Prohibited Settings

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

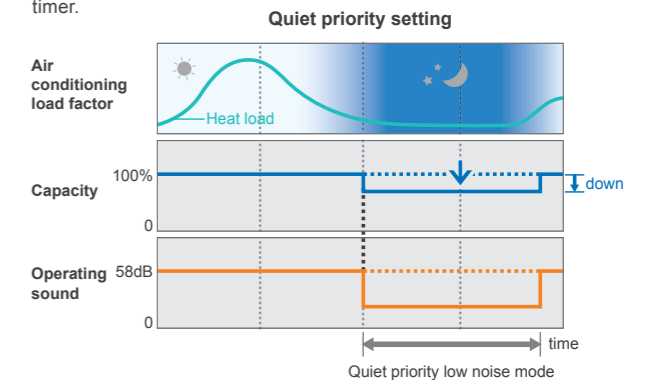
Weekly schedule timer

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.

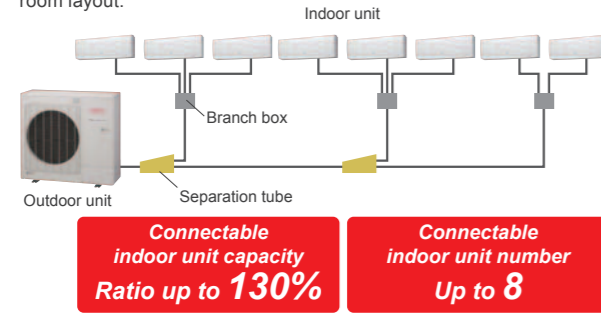


Features

Flexible Design & Easy Installation

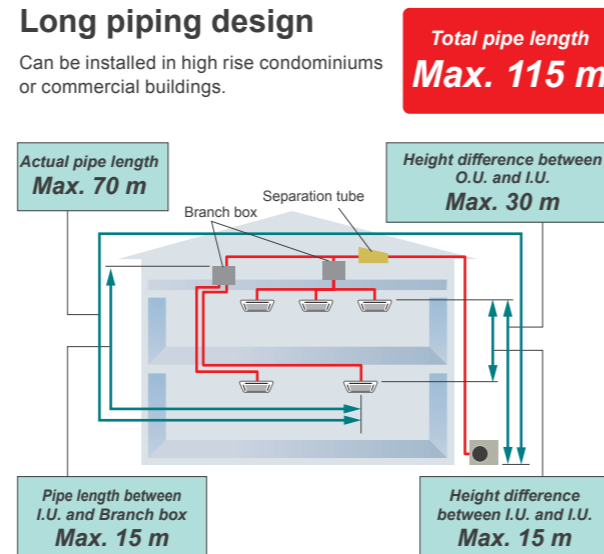
Large capacity connection

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

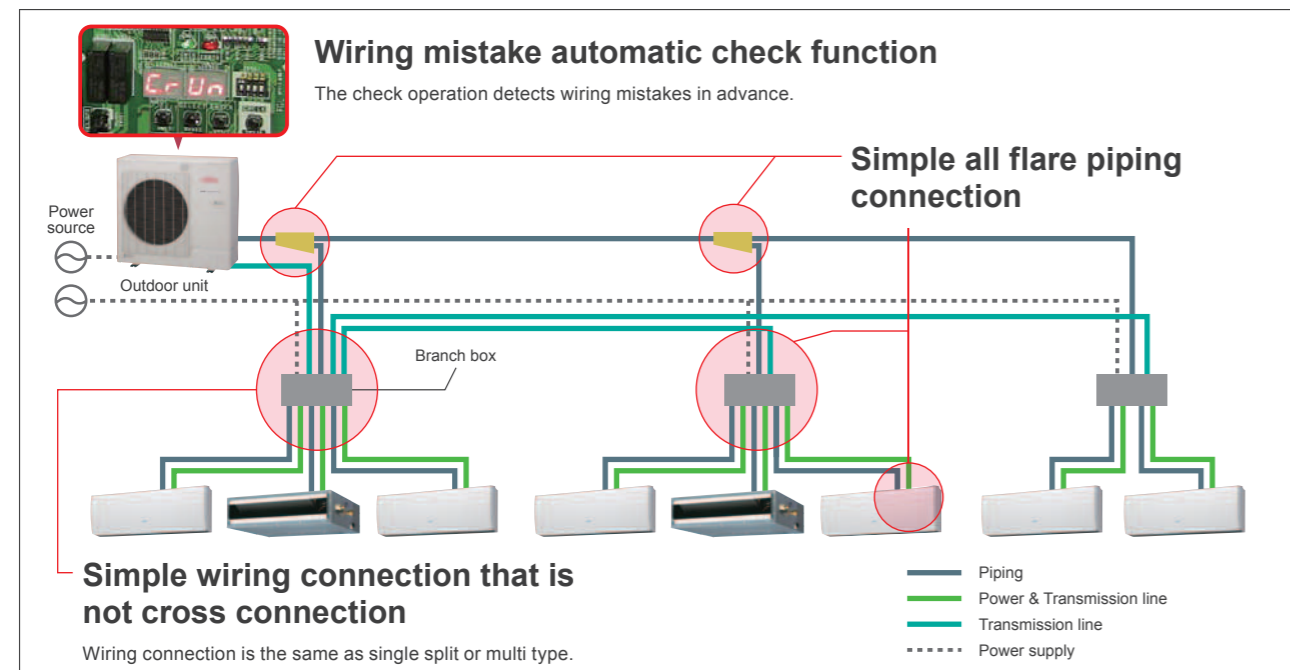


Long piping design

Can be installed in high rise condominiums or commercial buildings.

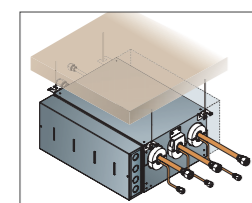


All flare piping connection and simple installation that minimizes wiring mistakes.



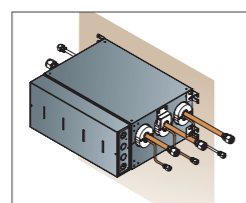
Branch Box can be mounted flexibly.

Allowed Branch Box Mounting Direction



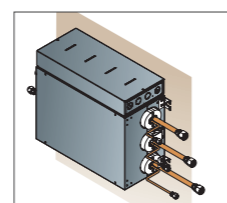
Hanging from the ceiling

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

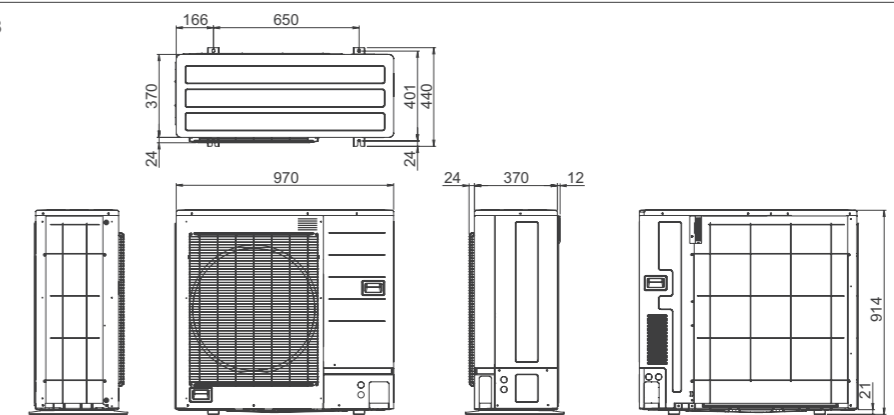
Model name		AOYG45LBT8	
Maximum Connectable Indoor Unit		8	
Indoor unit connectable capacity	Cooling	11.2 - 18.2	
Power source		V/Ø/Hz	230/1/50
Rated Capacity	Cooling	14.0	
	Heating	16.0	
Input Power	Cooling	5.20	
	Heating	5.07	
Air flow rate	Cooling	4,650	
	Heating	4,800	
Sound pressure level	Cooling	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)		mm	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	°CDB -15 to 24	
Refrigerant		R410A	

Model name		UTP-PY03A		UTP-PY02A		
Connectable indoor unit		1 to 3 Units		1 to 2 Units		
Power source		V/Ø/Hz 230/1/50		230/1/50		
Available voltage range		198-264V		198-264V		
Power consumption		W	10	10		
Running current		A	0.05	0.05		
Dimensions (HxWxD)		mm 195x433x370		mm 195x433x370		
Weight		kg 9		kg 9		
Connection pipe	Size	Liquid	Main: 9.52x1, Branch:6.35x3		Main: 9.52x1, Branch:6.35x2	
		Gas	Main: 15.88x1, Branch:12.7x3		Main: 15.88x1, Branch:12.7x2	
	Method	Flare		Flare		

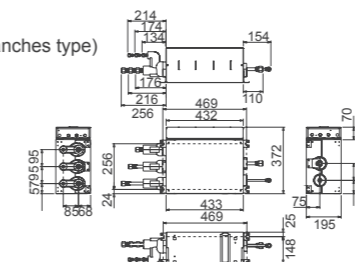
Note: Specifications are based on the following conditions.
Power source of specifications: 230V.

Dimensions

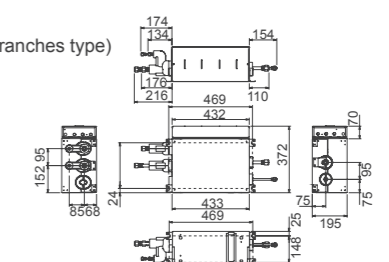
Outdoor Unit : AOYG45LBT8



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/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50
Sound Pressure Level	Cooling	H/M/L/Q	35/30/28/21	36/32/28/21	37/34/31/21	41/36/33/25
	Heating		35/30/28/21	36/32/28/21	37/34/31/21	41/36/34/27
Sound Power Level	Cooling	H	53	54	55	59
	Heating		53	54	55	59
Air Flow	Cooling	H/M/L/Q	570/520/470/330	600/550/470/330	660/600/530/330	710/640/570/390
	Heating		570/520/470/330	600/550/470/330	660/600/530/330	710/640/590/430
Net 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	∅6.35/∅9.52	∅6.35/∅9.52	∅6.35/∅9.52	∅6.35/∅12.7

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/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Sound Pressure Level	Cooling	H/M/L/Q	36/32/29/21	37/33/29/21	40/36/30/21	42/38/33/25	43/37/33/26	49/42/37/33
	Heating		36/32/29/22	37/33/29/22	40/36/31/22	42/38/35/27	42/37/33/25	48/42/37/33
Sound Power Level	Cooling	H	51	52	54	56	58	64
	Heating		51	52	55	57	58	64
Air Flow	Cooling	H/M/L/Q	560/500/430/310	600/520/430/310	660/560/450/310	730/600/530/360	900/740/620/550	1120/900/740/620
	Heating		560/500/430/330	600/520/430/330	660/560/470/330	730/615/560/375	900/740/620/550	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	∅6.35/∅9.52	∅6.35/∅9.52	∅6.35/∅9.52	∅6.35/∅12.7	∅6.35/∅12.7	∅6.35/∅15.88

Floor



Model No.	Indoor unit		AGYG09LVCA	AGYG12LVCA	AGYG14LVCA
kW Class	kW		2.5	3.5	4.0
Power Source	V/∅/Hz		230/1/50	230/1/50	230/1/50
Sound Pressure Level	Cooling	H/M/L/Q	39/34/28/22	42/36/30/22	44/38/31/22
	Heating		39/35/30/22	42/38/32/22	44/39/33/22
Sound Power Level	Cooling	H	52	55	56
	Heating		52	55	56
Air Flow	Cooling	H/M/L/Q	530/440/360/270	600/490/380/270	650/520/400/270
	Heating		530/460/380/270	600/510/410/270	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	∅6.35/∅9.52	∅6.35/∅9.52	∅6.35/∅12.7

Floor ceiling



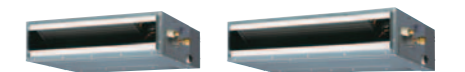
Model No.	Indoor unit		ABYG14LVTA	ABYG18LVTB
kW Class	kW		4.0	5.0
Power Source	V/∅/Hz		230/1/50	230/1/50
Sound Pressure Level	Cooling	H/M/L/Q	36/34/33/29 (Under ceiling)	41/38/34/32 (Under ceiling)
	Heating		39/37/36/32 (Floor console)	44/41/37/35 (Floor console)
Sound Power Level	Cooling	H	36/34/33/29 (Under ceiling)	41/38/34/32 (Under ceiling)
	Heating		39/37/36/32 (Floor console)	44/41/37/35 (Floor console)
Air Flow	Cooling	H/M/L/Q	51	55
	Heating		51	55
Air Flow	Cooling	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	∅6.35/∅12.7	∅6.35/∅12.7

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/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Sound Pressure Level	Cooling	H/M/L/Q	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	46	46	49	52	54
	Heating		47	47	49	52	56
Air Flow	Cooling	H/M/L/Q	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	∅6.35/∅9.52	∅6.35/∅9.52	∅6.35/∅9.52	∅6.35/∅12.7	∅6.35/∅12.7

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/∅/Hz		230/1/50	230/1/50	230/1/50	230/1/50	230/1/50
Sound Pressure Level	Cooling	H/M/L/Q	28/26/25/24	28/27/26/25	29/28/27/26	32/30/28/26	32/31/30/29
	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	57	57	58	60	58
	Heating		57	57	58	61	59
Air Flow	Cooling	H/M/L/Q	550/490/470/440	600/550/500/450	650/600/550/480	800/700/600/480	940/880/820/750
	Heating		550/490/470/440	600/550/500/450	650/600/550/480	800/700/600/480	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	∅6.35/∅9.52	∅6.35/∅9.52	∅6.35/∅9.52	∅6.35/∅12.7	∅6.35/∅12.7
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)			Pdesign	SEER	Energy efficiency class
			kW	kW	kW	kW				
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)			Pdesign	SEER	Energy efficiency class
			kW	kW	kW	kW				
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++

- 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			Total Capacity (min-max)	Pdesign	SEER	Energy efficiency class		
			kW	kW	kW	kW							
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 - 6.1)	1.35 (0.50 - 2.06)	3.78	5.1	6.1	A++	
	12	14	-	2.41	2.89	-	5.30 (1.8 - 6.7)	1.35 (0.50 - 2.06)	3.93	5.3	6.1	A++	
	3 Room	7	7	7	1.80	1.80	1.80	5.40 (1.8 - 6.8)	1.35 (0.50 - 2.06)	4.00	5.4	6.9	A++
		7	7	9	1.70	1.70	2.00	5.40 (1.8 - 6.8)	1.35 (0.50 - 2.06)	4.00	5.4	6.9	A++
		7	7	12	1.53	1.53	2.33	5.40 (1.8 - 6.8)	1.35 (0.50 - 2.06)	4.00	5.4	6.7	A++
7		7	14	1.41	1.41	2.58	5.40 (2.0 - 6.8)	1.35 (0.60 - 2.06)	4.00	5.4	6.7	A++	
7		9	9	1.81	1.81	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++	

AOYG24LAT3	Combination of Indoor Unit		COOLING OPERATION										
			Cooling Capacity			Input Power (min-max)	EER	Seasonal Data					
			Room 1	Room 2	Room 3			Total Capacity (min-max)	Pdesign	SEER	Energy efficiency class		
			kW	kW	kW	kW							
2 Room	7	7	-	2.30	2.30	-	4.60 (1.8 - 5.0)	1.20 (0.50 - 1.40)	3.83	4.6	6.3	A++	
	7	9	-	2.30	2.70	-	5.00 (1.8 - 5.7)	1.36 (0.50 - 1.78)	3.68	5.0	6.2	A++	
	7	12	-	2.38	3.42	-	5.80 (1.8 - 6.1)	1.70 (0.50 - 1.97)	3.41	5.8	6.1	A++	
	7	14	-	2.37	3.82	-	6.50 (1.8 - 7.2)	1.91 (0.50 - 2.46)	3.40	6.5	6.0	A++	
	7	18	-	2.08	4.52	-	6.60 (1.8 - 7.8)	1.91 (0.50 - 2.87)	3.46	6.6	5.9	A++	
	9	9	-	2.75	2.75	-	5.50 (1.8 - 6.2)	1.55 (0.50 - 2.02)	3.55	5.5	6.1	A++	
	9	12	-	2.79	3.41	-	6.20 (1.8 - 6.8)	1.90 (0.50 - 2.45)	3.26	6.2	5.9	A+	
	9	14	-	2.66	3.94	-	6.60 (1.8 - 7.7)	1.91 (0.50 - 2.77)	3.46	6.6	6.0	A+	
	9	18	-	2.35	4.35	-	6.70 (1.8 - 7.9)	1.91 (0.50 - 2.87)	3.51	6.7	5.9	A+	
	12	12	-	3.15	3.15	-	6.30 (1.8 - 7.2)	1.90 (0.50 - 2.74)	3.32	6.3	5.9	A+	
	12	14	-	3.03	3.67	-	6.70 (1.8 - 7.8)	1.91 (0.50 - 2.87)	3.51	6.7	5.9	A+	
	12	18	-	2.66	4.04	-	6.70 (1.8 - 7.9)	1.92 (0.50 - 2.87)	3.49	6.7	5.8	A+	
	3 Room	7	7	7	2.23	2.23	2.23	6.70 (1.8 - 7.4)	1.89 (0.50 - 2.37)	3.54	6.7	6.4	A++
		7	7	9	2.14	2.14	2.52	6.80 (1.8 - 7.8)	1.94 (0.60 - 2.87)	3.51	6.8	6.4	A++
		7	7	12	1.98	1.98	2.84	6.80 (1.8 - 8.1)	1.93 (0.50 - 2.87)	3.52	6.8	6.3	A++
		7	7	14	1.82	1.82	3.16	6.80 (2.0 - 8.4)	1.94 (0.60 - 2.87)	3.51	6.8	6.2	A++
		7	7	18	1.63	1.63	3.54	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.1	A++
		7	9	9	2.03	2.38	2.38	6.80 (1.8 - 8.2)	1.93 (0.50 - 2.87)	3.52	6.8	6.4	A++
7		9	12	1.88	2.21	2.70	6.80 (1.8 - 8.2)	1.93 (0.50 - 2.87)	3.52	6.8	6.2	A++	
7		9	14	1.74	2.04	3.02	6.80 (2.0 - 8.4)	1.94 (0.60 - 2.87)	3.51	6.8	6.2	A++	
7		9	18	1.56	1.84	3.40	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.1	A++	
7		12	12	1.76	2.52	2.52	6.80 (1.8 - 8.2)	1.94 (0.50 - 2.87)	3.51	6.8	6.2	A++	
7		12	14	1.63	2.34	2.93	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.2	A++	
9		9	9	2.27	2.27	2.67	6.80 (1.8 - 8.2)	1.94 (0.50 - 2.87)	3.51	6.8	6.4	A++	
9		9	12	2.11	2.11	2.58	6.80 (1.8 - 8.3)	1.94 (0.50 - 2.87)	3.51	6.8	6.2	A++	
9		9	14	1.95	1.95	2.89	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.2	A++	
9		9	18 ¹	1.77	1.77	3.27	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.1	A++	
9		12	12	1.97	2.41	2.41	6.80 (1.8 - 8.3)	1.94 (0.50 - 2.87)	3.51	6.8	6.2	A++	
9		12	14	1.84	2.24	2.72	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.2	A++	
12		12	12	2.27	2.27	2.67	6.80 (1.8 - 8.3)	1.94 (0.50 - 2.87)	3.51	6.8	6.1	A++	

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

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
			kW	kW	kW	kW				
2 Room	7	7	2.20	2.20	4.40 (1.1 - 5.4)	1.03 (0.25 - 1.78)	4.27	3.8	4.1	A+
	7	9	2.15	2.25	4.40 (1.1 - 5.4)	1.03 (0.25 - 1.78)	4.27	3.8	4.1	A+
	7	12	1.95	2.45	4.40 (1.1 - 5.5)	1.02 (0.25 - 1.76)	4.31	3.8	4.0	A+
	9	9	2.20	2.20	4.40 (1.1 - 5.4)	1.03 (0.25 - 1.78)	4.27	3.8	4.0	A+
	9	12	2.00	2.40	4.40 (1.1 - 5.5)	1.02 (0.25 - 1.76)	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
			kW	kW	kW	kW				
2 Room	7	7	2.70	2.70	5.40 (1.8 - 8.0)	1.24 (0.52 - 1.61)	4.37	3.8	4.1	A+
	7	9	2.50	3.00	6.00 (2.0 - 6.4)	1.87 (0.52 - 2.06)	4.04	4.0	4.1	A+
	7	12	2.30	3.30	5.60 (1.8 - 6.1)	1.38 (0.50 - 1.88)	4.06	4.2	4.0	A+
	7	14	2.25	3.35	5.60 (1.9 - 6.2)	1.35 (0.55 - 1.86)	4.15	4.2	4.0	A+
	9	9	2.80	2.80	5.60 (1.8 - 6.1)	1.41 (0.50 - 1.90)	3.97	4.2	4.1	A+
	9	12	2.45	3.15	5.60 (1.8 - 6.2)	1.38 (0.50 - 1.88)	4.07	4.2	4.0	A+
	9	14	2.35	3.25	5.60 (1.9 - 6.3)	1.35 (0.55 - 1.86)	4.15	4.2	4.0	A+
	12	12	2.80	2.80	5.60 (1.8 - 6.3)	1.34 (0.50 - 1.84)	4.18	4.2	4.0	A+

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

Multi Combination Table

4 Rooms Multi cooling

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

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

4 Rooms Multi heating

AOYG30LAT4	Combination of Indoor Unit		HEATING OPERATION										
			Heating Capacity				Input Power (min-max)		COP	Seasonal Data			
			Room 1	Room 2	Room 3	Room 4	Total Capacity (min-max)			Pdesign	SCOP	Energy efficiency class	
			kW	kW	kW	kW	kW		kW				
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	-	9.80 (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.					

Multi Combination Table

8 Rooms Multi cooling

AOYG45LBT8	Combination of indoor unit								COOLING OPERATION										
									Cooling Capacity								Total	Input power	
									Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8			
		KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW	KW						
2 Room	24	24	-	-	-	-	-	-	-	7.03	7.03	-	-	-	-	-	-	14.06	5.20
	18	24	-	-	-	-	-	-	-	5.27	7.03	-	-	-	-	-	-	12.30	4.24
	18	18	24	-	-	-	-	-	-	4.63	4.63	6.18	-	-	-	-	-	15.45	5.89
	18	18	18	-	-	-	-	-	-	5.01	5.01	5.01	-	-	-	-	-	15.03	5.90
	14	24	24	-	-	-	-	-	-	3.54	6.07	6.07	-	-	-	-	-	15.68	5.87
	14	18	24	-	-	-	-	-	-	3.84	4.94	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	
12	12	18	-	-	-	-	-	-	3.52	3.52	5.27	-	-	-	-	-	12.31	4.24	
9	24	24	-	-	-	-	-	-	2.46	6.54	6.54	-	-	-	-	-	15.54	5.90	
9	18	24	-	-	-	-	-	-	2.64	5.27	7.03	-	-	-	-	-	14.94	5.65	
9	18	18	-	-	-	-	-	-	2.64	5.27	5.27	-	-	-	-	-	13.18	4.73	
9	14	24	-	-	-	-	-	-	2.64	4.10	7.03	-	-	-	-	-	13.77	5.05	
9	14	18	-	-	-	-	-	-	2.64	4.10	5.27	-	-	-	-	-	12.01	4.08	
9	12	24	-	-	-	-	-	-	2.64	3.52	7.03	-	-	-	-	-	13.19	4.73	
9	12	18	-	-	-	-	-	-	2.64	3.52	5.27	-	-	-	-	-	11.43	3.74	
9	9	24	-	-	-	-	-	-	2.64	2.64	7.03	-	-	-	-	-	12.31	4.24	
7	24	24	-	-	-	-	-	-	1.93	6.64	6.64	-	-	-	-	-	15.21	5.90	
7	18	24	-	-	-	-	-	-	2.05	5.27	7.03	-	-	-	-	-	14.35	5.35	
7	18	18	-	-	-	-	-	-	2.05	5.27	5.27	-	-	-	-	-	12.59	4.41	
7	14	24	-	-	-	-	-	-	2.05	4.10	7.03	-	-	-	-	-	13.18	4.73	
7	14	18	-	-	-	-	-	-	2.05	4.10	5.27	-	-	-	-	-	11.42	3.74	
7	12	24	-	-	-	-	-	-	2.05	3.52	7.03	-	-	-	-	-	12.60	4.41	
7	9	24	-	-	-	-	-	-	2.05	2.64	7.03	-	-	-	-	-	11.72	3.91	
14	14	14	18	-	-	-	-	-	3.60	3.60	3.60	4.63	-	-	-	-	15.45	5.89	
14	14	14	14	-	-	-	-	-	3.84	3.84	3.84	3.84	-	-	-	-	15.37	5.90	
12	14	18	18	-	-	-	-	-	3.04	3.54	4.55	4.55	-	-	-	-	15.68	5.87	
12	14	14	18	-	-	-	-	-	3.15	3.67	3.67	4.72	-	-	-	-	15.21	5.90	
12	14	14	14	-	-	-	-	-	3.35	3.90	3.90	3.90	-	-	-	-	15.04	5.90	
12	12	18	18	-	-	-	-	-	3.09	3.09	4.63	4.63	-	-	-	-	15.45	5.89	
12	12	14	24	-	-	-	-	-	3.04	3.04	3.54	6.07	-	-	-	-	15.69	5.87	
12	12	14	18	-	-	-	-	-	3.30	3.30	3.84	4.94	-	-	-	-	15.38	5.90	
12	12	14	14	-	-	-	-	-	3.52	3.52	4.10	4.10	-	-	-	-	15.24	5.79	
12	12	12	24	-	-	-	-	-	3.09	3.09	3.09	6.18	-	-	-	-	15.45	5.89	
12	12	12	18	-	-	-	-	-	3.35	3.35	3.35	5.01	-	-	-	-	15.05	5.90	
12	12	12	14	-	-	-	-	-	3.52	3.52	3.52	4.10	-	-	-	-	14.66	5.90	
12	12	12	12	-	-	-	-	-	3.52	3.52	3.52	3.52	-	-	-	-	14.08	5.20	
9	14	18	18	-	-	-	-	-	2.34	3.64	4.67	4.67	-	-	-	-	15.33	5.89	
9	14	14	24	-	-	-	-	-	2.30	3.57	3.57	6.12	-	-	-	-	15.57	5.88	
9	14	14	18	-	-	-	-	-	2.49	3.87	3.87	4.97	-	-	-	-	15.21	5.90	
9	14	14	14	-	-	-	-	-	2.64	4.10	4.10	4.10	-	-	-	-	14.94	5.65	
9	12	18	18	-	-	-	-	-	2.46	3.28	4.90	4.90	-	-	-	-	15.54	5.89	
9	12	14	24	-	-	-	-	-	2.34	3.12	3.64	6.23	-	-	-	-	15.33	5.89	
9	12	14	18	-	-	-	-	-	2.53	3.37	3.93	5.05	-	-	-	-	14.87	5.90	
9	12	14	14	-	-	-	-	-	2.64	3.52	4.10	4.10	-	-	-	-	14.36	5.35	
9	12	12	24	-	-	-	-	-	2.46	3.28	3.28	6.54	-	-	-	-	15.55	5.90	
9	12	12	18	-	-	-	-	-	2.64	3.52	3.52	5.27	-	-	-	-	14.95	5.65	
9	12	12	14	-	-	-	-	-	2.64	3.52	3.52	4.10	-	-	-	-	13.78	5.05	
9	12	12	12	-	-	-	-	-	2.64	3.52	3.52	3.52	-	-	-	-	13.20	4.73	
9	9	18	24	-	-	-	-	-	2.32	2.32	4.63	6.18	-	-	-	-	15.45	5.89	
9	9	18	18	-	-	-	-	-	2.51	2.51	5.01	5.01	-	-	-	-	15.04	5.90	
9	9	14	24	-	-	-	-	-	2.47	2.47	3.84	6.59	-	-	-	-	15.38	5.90	
9	9	14	18	-	-	-	-	-	2.64	2.64	4.10	5.27	-	-	-	-	14.65	5.50	
9	9	14	14	-	-	-	-	-	2.64	2.64	4.10	4.10	-	-	-	-	13.48	4.89	
9	9	12	24	-	-	-	-	-	2.51	2.51	3.35	6.68	-	-	-	-	15.05	5.90	
9	9	12	18	-	-	-	-	-	2.64	2.64	3.52	5.27	-	-	-	-	14.07	5.20	
9	9	12	14	-	-	-	-	-	2.64	2.64	3.52	4.10	-	-	-	-	12.90	4.57	
9	9	12	12	-	-	-	-	-	2.64	2.64	3.52	3.52	-	-	-	-	12.32	4.24	
9	9	9	24	-	-	-	-	-	2.64	2.64	2.64	7.03	-	-	-	-	14.95	5.65	
9	9	9	18	-	-	-	-	-	2.64	2.64	2.64	5.27	-	-	-	-	13.19	4.73	
9	9	9	14	-	-	-	-	-	2.64	2.64	2.64	4.10	-	-	-	-	12.02	4.08	
9	9	9	12	-	-	-	-	-	2.64	2.64	2.64	3.52	-	-	-	-	11.44	3.74	
7	18	18	18	-	-	-	-	-	1.79	4.59	4.59	4.59	-	-	-	-	15.56	5.88	
7	14	18	18	-	-	-	-	-	1.91	3.82	4.91	4.91	-	-	-	-	15.54	5.90	
7	14	14	24	-	-	-	-	-	1.82	3.64	3.64	6.24	-	-	-	-	15.33	5.89	
7	14	14	18	-	-	-	-	-	1.96	3.93	3.93	5.05	-	-	-	-	14.87	5.90	
7	14	14	14	-	-	-	-	-	2.05	4.10	4.10	4.10	-	-	-	-	14.35	5.35	
7	12	18	24	-	-	-	-	-	1.79	3.07	4.59	6.12	-	-	-	-	15.57	5.88	
7	12	18	18	-	-	-	-	-	1.93	3.32	4.97	4.97	-	-	-	-	15.21	5.90	
7	12	14	24	-	-	-	-	-	1.91	3.28	3.82	6.54	-	-	-	-	15.54	5.90	
7	12	14	18	-	-	-	-	-	2.05	3.52	4.10	5.27	-	-	-	-	14.94	5.65	
7	12	14	14	-	-	-	-	-	2.05	3.52	4.10	4.10	-	-	-	-	13.77	5.05	
7	12	12	24	-	-	-	-	-	1.93	3.32	3.32	6.63	-	-	-	-	15.21	5.90	
7	12	12	18	-	-	-	-	-	2.05	3.52	3.52	5.27	-	-	-	-	14.36	5.35	
7	12	12	14	-	-	-	-	-	2.05	3.52	3.52	4.10	-	-	-	-	13.19	4.73	
7	12	12	12	-	-	-	-	-	2.05	3.52	3.52	3.52	-	-	-	-	12.61	4.41	
7	9	18	24	-	-	-	-	-	1.84	2.36	4.72	6.29	-	-	-	-	15.21	5.90	
7	9	18	18	-	-	-	-	-	2.05	2.64	5.27	5.27	-	-	-	-	15.23	5.79	
7	9	14	24	-	-	-	-	-	1.95	2.51	3.90	6.68	-	-	-	-	15.04	5.90	
7	9	14	18	-	-	-	-	-	2.05	2.64	4.10	5.27	-	-	-	-	14.06	5.20	
7	9	12	24	-	-	-	-	-	2.05	2.64	3.52	7.03	-	-	-	-	15.24	5.79	
7	9	12	18	-	-	-	-	-	2.05	2.64	3.52	5.27	-	-	-	-	13.48	4.89	
7	9	12	14	-	-	-	-	-	2.05	2.64	3.52	4.10	-	-	-	-	12.31	4.24	
7	9	12	12	-	-</														

Multi Combination Table

8 Rooms Multi cooling

AOYG45LBT8	Combination of indoor unit		COOLING OPERATION										Input power				
			Cooling Capacity								Total	KW					
			Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8							
7	9	9	9	9	18	-	-	1.79	2.30	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	2.49	3.32	-	-	15.22	5.90
7	9	9	9	9	9	-	-	2.05	2.64	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	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	7	9	9	14	14	-	-	1.80	1.80	2.32	2.32	3.60	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	9	18	-	-	1.82	1.82	2.34	2.34	4.67	4.67	-	-	15.33	5.89
7	7	9	9	9	14	-	-	1.93	1.93	2.49	2.49	4.49	3.87	-	-	15.21	5.90
7	7	9	9	9	12	-	-	1.96	1.96	2.53	2.53	3.37	3.37	-	-	14.88	5.90
7	7	9	9	9	9	-	-	2.05	2.05	2.64	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	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
7	7	7	9	14	14	-	-	1.84	1.84	1.84	2.36	3.67	3.67	-	-	15.21	5.90
7	7	7	9	12	18	-	-	1.80	1.80	1.80	2.32	3.09	4.63	-	-	15.45	5.89
7	7	7	9	12	14	-	-	1.92	1.92	1.92	2.47	3.30	3.84	-	-	15.38	5.90
7	7	7	9	12	12	-	-	1.95	1.95	1.95	2.51	3.35	3.35	-	-	15.05	5.90
7	7	7	9	9	18	-	-	1.91	1.91	1.91	2.46	2.46	4.90	-	-	15.54	5.90
7	7	7	9	9	14	-	-	1.96	1.96	1.96	2.53	2.53	3.93	-	-	14.87	5.90
7	7	7	9	9	12	-	-	2.05	2.05	2.05	2.64	2.64	3.52	-	-	14.95	5.65
7	7	7	9	9	9	-	-	2.05	2.05	2.05	2.64	2.64	2.64	-	-	14.07	5.20
7	7	7	7	14	18	-	-	1.80	1.80	1.80	3.60	4.63	4.63	-	-	15.45	5.89
7	7	7	7	14	14	-	-	1.92	1.92	1.92	3.84	3.84	3.84	-	-	15.37	5.90
7	7	7	7	12	18	-	-	1.84	1.84	1.84	3.15	4.72	4.72	-	-	15.21	5.90
7	7	7	7	12	14	-	-	1.95	1.95	1.95	3.35	3.90	3.90	-	-	15.04	5.90
7	7	7	7	12	12	-	-	2.05	2.05	2.05	3.52	3.52	3.52	-	-	15.24	5.79
7	7	7	7	9	24	-	-	1.79	1.79	1.79	1.79	2.30	6.12	-	-	15.57	5.88
7	7	7	7	9	18	-	-	1.93	1.93	1.93	1.93	2.49	4.97	-	-	15.21	5.90
7	7	7	7	9	14	-	-	2.05	2.05	2.05	2.05	2.64	4.10	-	-	14.94	5.65
7	7	7	7	9	12	-	-	2.05	2.05	2.05	2.05	2.64	3.52	-	-	14.36	5.35
7	7	7	7	9	9	-	-	2.05	2.05	2.05	2.05	2.64	2.64	-	-	13.48	4.89
7	7	7	7	7	24	-	-	1.82	1.82	1.82	1.82	6.24	6.24	-	-	15.33	5.89
7	7	7	7	7	18	-	-	1.96	1.96	1.96	1.96	5.05	5.05	-	-	14.87	5.90
7	7	7	7	7	14	-	-	2.05	2.05	2.05	2.05	4.10	4.10	-	-	14.35	5.35
7	7	7	7	7	12	-	-	2.05	2.05	2.05	2.05	3.52	3.52	-	-	13.77	5.05
7	7	7	7	7	9	-	-	2.05	2.05	2.05	2.05	2.64	2.64	-	-	12.89	4.57
7	7	7	7	7	7	-	-	2.05	2.05	2.05	2.05	2.05	2.05	-	-	12.30	4.24
7	9	9	9	9	9	-	-	1.78	2.30	2.30	2.30	2.30	2.30	-	-	15.57	5.88
7	7	9	9	9	9	-	-	1.77	1.77	2.28	2.28	2.28	3.04	-	-	15.69	5.87
7	7	9	9	9	9	-	-	1.82	1.82	2.34	2.34	2.34	2.34	-	-	15.34	5.89
7	7	7	9	9	14	-	-	1.77	1.77	1.77	2.28	2.28	2.28	-	-	15.69	5.87
7	7	7	9	9	9	-	-	1.80	1.80	1.80	2.32	2.32	3.09	-	-	15.45	5.89
7	7	7	9	9	9	-	-	1.91	1.91	1.91	2.46	2.46	2.46	-	-	15.55	5.90
7	7	7	9	9	12	-	-	1.79	1.79	1.79	1.79	2.30	3.07	-	-	15.57	5.88
7	7	7	9	9	14	-	-	1.80	1.80	1.80	1.80	2.32	3.32	-	-	15.45	5.89
7	7	7	9	9	12	-	-	1.83	1.83	1.83	1.83	2.36	3.15	-	-	15.21	5.90
7	7	7	9	9	9	-	-	1.93	1.93	1.93	1.93	2.49	2.49	-	-	15.21	5.90
7	7	7	7	7	12	14	-	1.79	1.79	1.79	1.79	3.07	3.57	-	-	15.57	5.88
7	7	7	7	7	12	12	-	1.82	1.82	1.82	1.82	3.12	3.12	-	-	15.33	5.89
7	7	7	7	7	9	18	-	1.77	1.77	1.77	1.77	2.28	4.55	-	-	15.68	5.87
7	7	7	7	7	9	14	-	1.84	1.84	1.84	1.84	2.36	3.67	-	-	15.21	5.90
7	7	7	7	7	9	12	-	1.92	1.92	1.92	1.92	2.47	3.30	-	-	15.38	5.90
7	7	7	7	7	9	9	-	1.96	1.96	1.96	1.96	2.53	2.53	-	-	14.87	5.90
7	7	7	7	7	7	18	-	1.80	1.80	1.80	1.80	1.80	4.63	-	-	15.45	5.89
7	7	7	7	7	7	14	-	1.92	1.92	1.92	1.92	3.84	3.84	-	-	15.37	5.90
7	7	7	7	7	7	12	-	1.95	1.95	1.95	1.95	1.95	3.35	-	-	15.04	5.90
7	7	7	7	7	7	9	-	2.05	2.05	2.05	2.05	2.64	2.64	-	-	14.94	5.65
7	7	7	7	7	7	7	-	2.05	2.05	2.05	2.05	2.05	2.05	-	-	14.35	5.35
7	7	7	7	7	9	9	-	1.77	1.77	1.77	1.77	2.28	2.28	2.28	2.28	15.69	5.87
7	7	7	7	7	7	9	-	1.80	1.80	1.80	1.80	1.80	1.80	2.32	2.32	15.45	5.89
7	7	7	7	7	7	7	-	1.79	1.79	1.79	1.79	1.79	1.79	1.79	1.79	15.57	5.88
7	7	7	7	7	7	9	-	1.84	1.84	1.84	1.84	1.84	1.84	2.36	2.36	15.21	5.90
7	7	7	7	7	7	7	-	1.92	1.92	1.92	1.92	1.92	1.92	1.92	1.92	15.37	5.90

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								Total	KW								
			Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8										
2 Room	24	24	-	-	-	-	-	-	-	-	-	-	7.91	7.91	-	-	-	-	15.82	5.07
	18	24	-	-	-	-	-	-	-	-	-	-	5.86	7.91	-	-	-	-	13.77	4.21
	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*	14*	14*	-	-	-	-	-	-	-	-	-	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*	14*	14*	-	-	-	-	-	-	-	-	-	3.96	4.80	4.80	-	-	-	13.56	4.00	
12	1																			

Multi Combination Table

8 Rooms Multi heating

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

Simultaneous Multi Twin / Triple

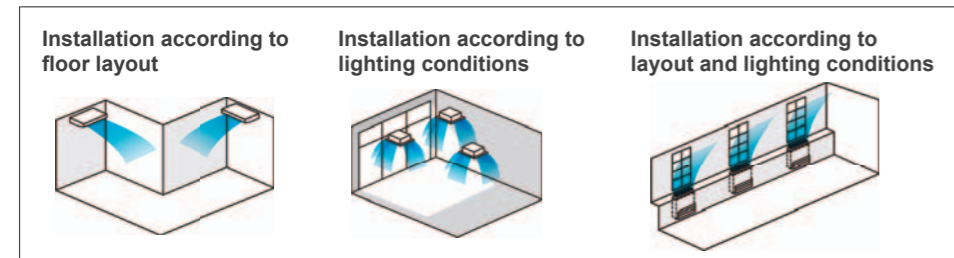
Model : AOYG36LATT [3phase]
 AOYG45LATT [3phase]
 AOYG54LATT [3phase]



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

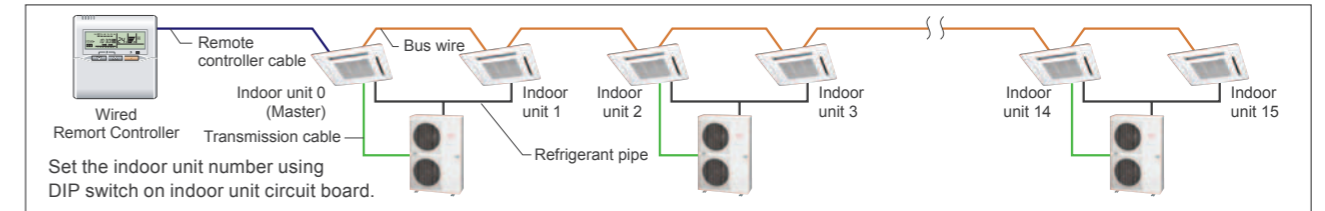
	Twin			Triple
	18x2	22x2	24x2	18x3
Cassette	AUYG18LV×2 	AUYG22LV×2 	AUYG24LV×2 	AUYG18LV×3
Duct	ARYG18LL×2 	ARYG22LM×2 	ARYG24LM×2 	ARYG18LL×3
Ceiling	ABYG18LV×2 	ABYG22LV×2 	ABYG24LV×2 	ABYG18LV×3
Outdoor unit	AOYG36LATT 	AOYG45LATT 	AOYG54LATT 	

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	930/830/600/450
Net Dimension H x W x D	mm	245x570x570	245x570x570	245x570x570
Weight	kg(lbs)	15 (33)	16 (35)	16 (35)
Cassette Grille		UTG-UFYD-W	UTG-UFYD-W	UTG-UFYD-W

Model No.	Indoor unit	Duct			Floor/Ceiling Universal		
		ARYG18LLTB	ARYG22LMLA	ARYG24LMLA	ABYG18LVTB	ABYG22LVTA	ABYG24LVTA
Power Source	V/Ø/Hz	230/1/50	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		780/700/560/500	980/820/680/540	
Net Dimension H x W x D	mm	198 x 900 x 620	270 x 1135 x 700		199 x 990 x 655	199 x 990 x 655	
Weight	kg(lbs)	23 (51)	38 (84)		27 (60)	27 (60)	

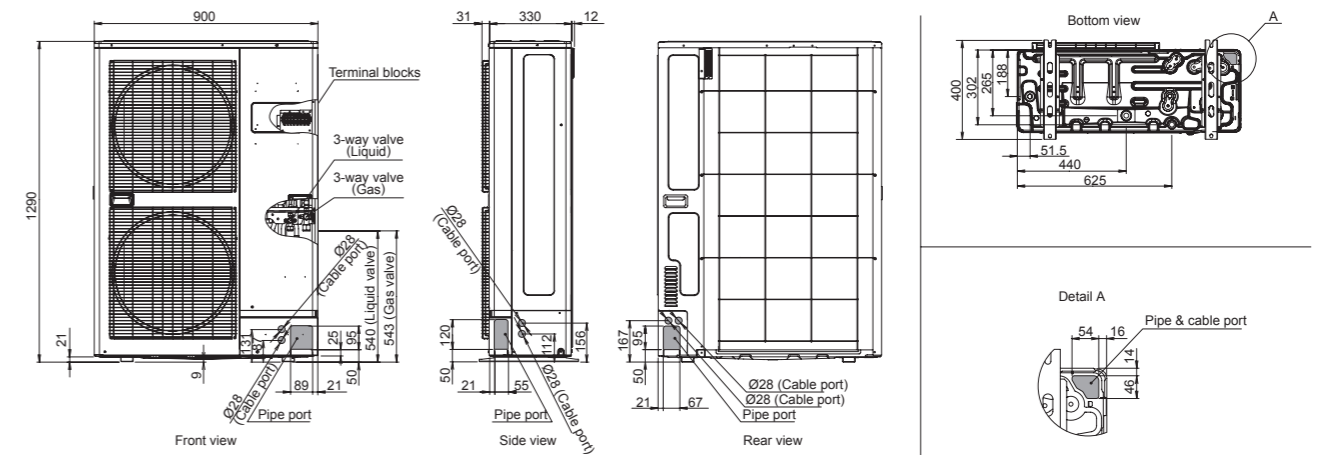
Model No.	Outdoor unit	AOYG36LATT	AOYG45LATT	AOYG54LATT
		Capacity	Cooling kW: 10.0 Heating kW: 11.2	12.5 14.5
Power source	V/Ø/Hz	400/3/50	400/3/50	400/3/50
Pdesign	Cooling kW	10.0	-	-
	Heating (@-10°C) kW	10.0	-	-
SEER	Cooling W/W	6.00	-	-
SCOP	Heating W/W	4.00	-	-
Annual Energy Consumption	Cooling kWh/a	583	-	-
	Heating kWh/a	3499	-	-
Energy Efficiency Class	Cooling	A+	-	-
	Heating	A+	-	-
Sound Pressure (High)	Cooling dB(A)	51	54	55
	Heating dB(A)	67	-	-
Net Dimension H x W x D	mm	1290x900x330	1290x900x330	1290x900x330
	kg(lbs)	104 (229)	104 (229)	104 (229)
Piping Connections (Small / Large)	mm	9.52/15.88	9.52/15.88	9.52/15.88
	m	75(30)	75(30)	75(30)
Height Difference	Cooling °CDB	-15 to 46	-15 to 46	-15 to 46
	Heating °CDB	-15 to 24	-15 to 24	-15 to 24
Refrigerant		R410A	R410A	R410A
Separation tube		UTP-SX236A (Twin)	UTP-SX254A (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 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 LLCC	ASYG 18/FCA/24/FCC	ASYG 30/FCA	ARYG 07/09 LLTA/12/14 LLTB	ARYG 18/LLTB	ARYG 22/24/36/45/MLA/30/36 LMLE	ARYG 45/54 LHTA						ARYG60 LHTA	ARYC 72/LHTA/90/LHTA				AUYG 07/09 LVLA/12/14/18 LVLB	AUYG 22/24 LVLA	AUYG 30/36 LRLE/36/45/54 LRLA
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		UTY-RSNYM					UTY-RSNYM					UTY-RSNYM					UTY-RSNYM		UTY-RSNYM		UTY-RSNYM	
Others	IR Receiver Kit with Wireless Remote Controller		UTY-DMMYM					UTY-DMMYM					UTY-DMMYM					UTY-DMMYM		UTY-DMMYM		UTY-DMMYM	
	Remote Sensor Unit		UTY-LRHYM					UTY-LRHYM					UTY-LRHYM					UTY-LRHYM		UTY-LRHYM		UTY-LRHYM	
	Auto Louver Grille Kit		UTD-GXSA					UTD-GXSB					UTD-GXSA					UTD-GXSA		UTD-GXSA		UTD-GXSA	
	Long Life Filter		UTD-LF25NA					UTD-LF60KA					UTD-LF25NA					UTD-LF25NA		UTD-LF25NA		UTD-LF25NA	
	Flange		UTD-RF204 / SF045T					UTD-RF204 / SF045T					UTD-RF204 / SF045T					UTD-RF204		UTD-RF204		UTD-RF204	
	Drain Pump Unit		UTZ-PX1NBA					UTZ-PX1NBA					UTZ-PX1NBA					UTZ-PX1NBA		UTZ-PX1NBA		UTZ-PX1NBA	
	Wide Panel		UTG-AGYA-W					UTG-AGYA-W					UTG-AGYA-W					UTG-AGYA-W		UTG-AGYA-W		UTG-AGYA-W	
	Panel Spacer		UTG-BGYA-W					UTG-BGYA-W					UTG-BGYA-W					UTG-BGYA-W		UTG-BGYA-W		UTG-BGYA-W	
	Fresh Air Intake Kit		UTZ-VXAA					UTZ-VXGA					UTZ-VXAA					UTZ-VXAA		UTZ-VXAA		UTZ-VXAA	
	Air Outlet Shutter Plate		UTR-YDZB					UTR-YDZC					UTR-YDZB					UTR-YDZB		UTR-YDZB		UTR-YDZB	
Insulation for High Humidity		UTZ-KXGC					UTZ-KXGA					UTZ-KXGC					UTZ-KXGC		UTZ-KXGC		UTZ-KXGC		
Half Concealed Kit		UTR-STA					UTR-STA					UTR-STA					UTR-STA		UTR-STA		UTR-STA		
Remote controller holder		UTZ-RXLA					UTZ-RXLA					UTZ-RXLA					UTZ-RXLA		UTZ-RXLA		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	Floor	Floor/Ceiling				Ceiling	Single Split	Single Split	Simultaneous Multi		
Interface	Wireless LAN Interface		FJ-RC-WIFI-1																		
	KNX® Interface		FJ-RC-KNX-1i																		
	MODBUS® Interface		FJ-RC-MBS-1																		
Communication Kit		UTY-TWBYF					UTY-XCBXZ2														
External Connect Kit		UTY-XWZX5					UTY-XWZX										UTY-XWZX				
External Control Set		UTD-EC55A					UTD-EC55A										UTD-EC55A				

*Duct type is excluded.

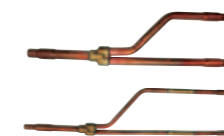
Refrigerant Piping Parts

Connection Units

Separation Tube

UTP-SX236A / UTP-SX254A

For 3-phase simultaneous multi



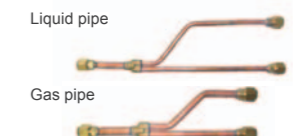
UTP-SX354A

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

Max. controllable
16
Indoor units

Wired Remote Controller : UTY-RVNYM

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.



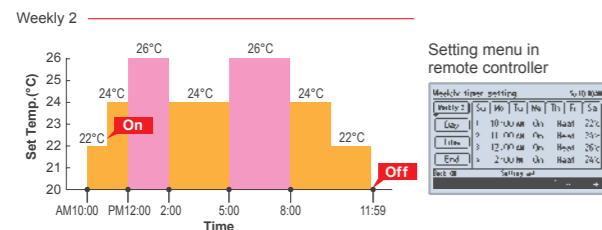
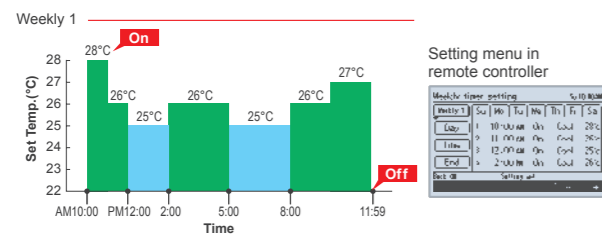
Various energy saving function

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.



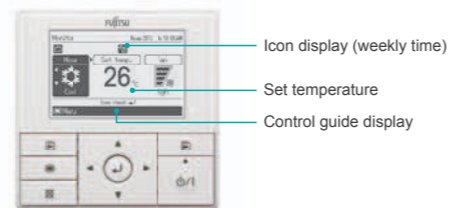
Specifications

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

* DC12 V is supplied by indoor unit.

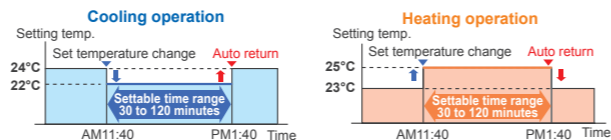
High visibility and Easy operation

- 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.



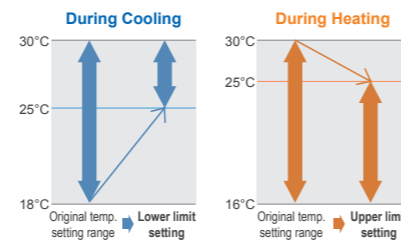
Set Temperature Auto Return

- 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)



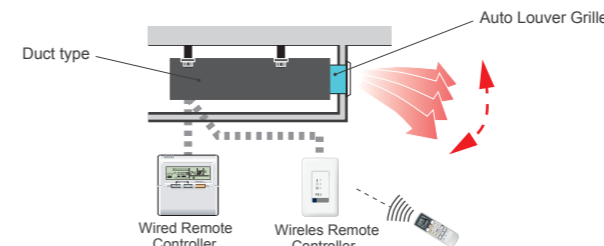
Auto Louver Grille Kit : UTD-GXSA-W / UTD-GXSB-W / UTD-GXSC-W

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

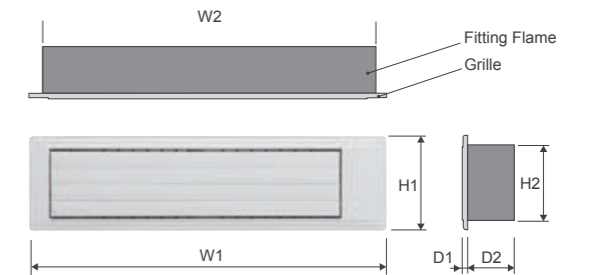


Flexible Control

- **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



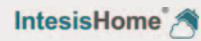
Model Name	W1	W2	H1	H2	D1	D2
UTD-GXSA-W	683	645	180	148	9	84
UTD-GXSB-W	883	845				
UTD-GXSC-W	1,083	1,045				

Unit: mm

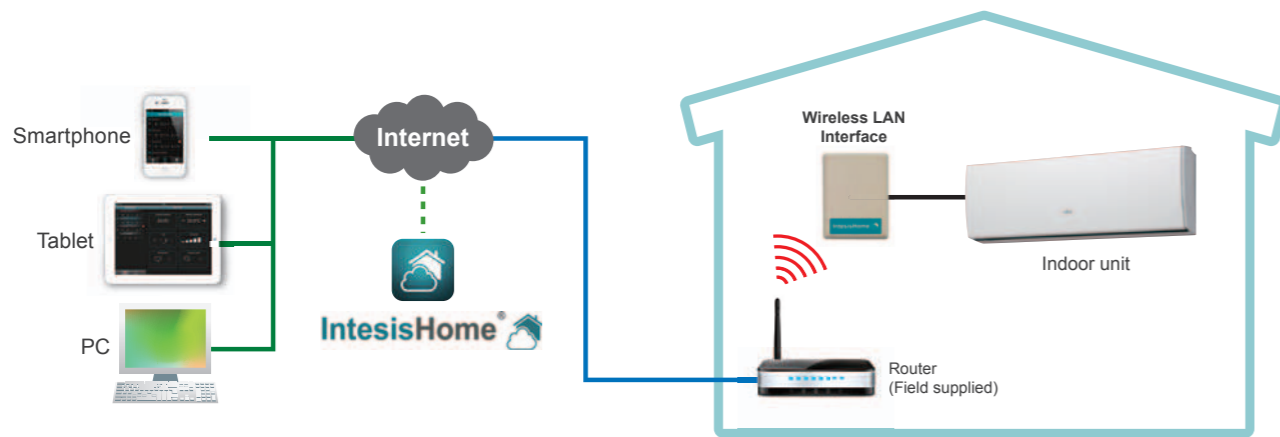
Specifications

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	2.0 (4.4)	2.5 (5.6)
	Gross	3.0 (6.7)	3.5 (7.8)
Color	White		
Louver Motor	Stepping Motor		
Accessories	Fitting Flame, etc.		
Operation range	Cooling	°C (°F) 18 to 32 (64 to 90)	80% or less
	Heating	°C (°F) 16 to 30 (60 to 88)	

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



- It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, Tablets and PC
- No separate external power supply required
- Can be used for single indoor units and group controlled (up to 16) indoor units

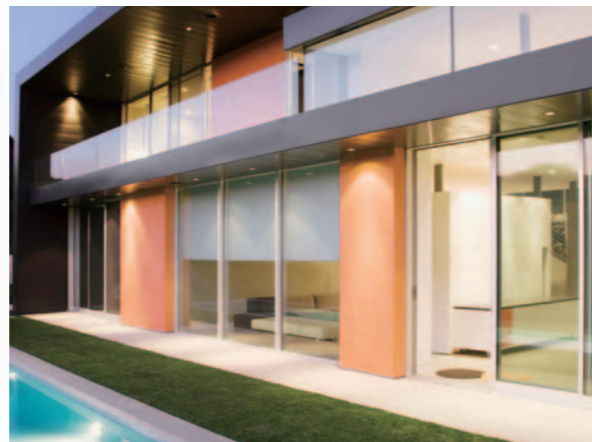


Basic control

- 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)

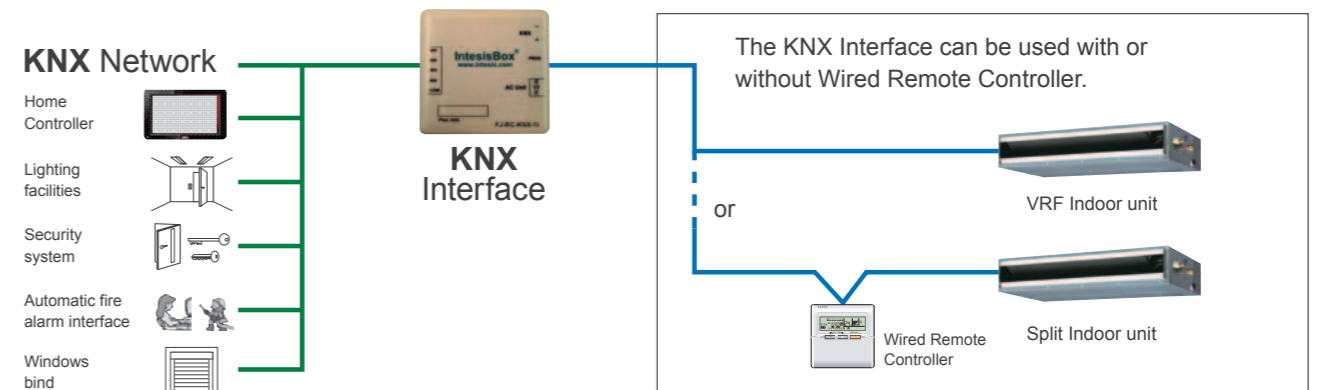
Specifications

Model name	FJ-RC-WIFI-1
Dimensions (H x W x D) (mm)	70×108×28
Weight (g)	80

NEW KNX® Interface : FJ-RC-KNX-1i

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

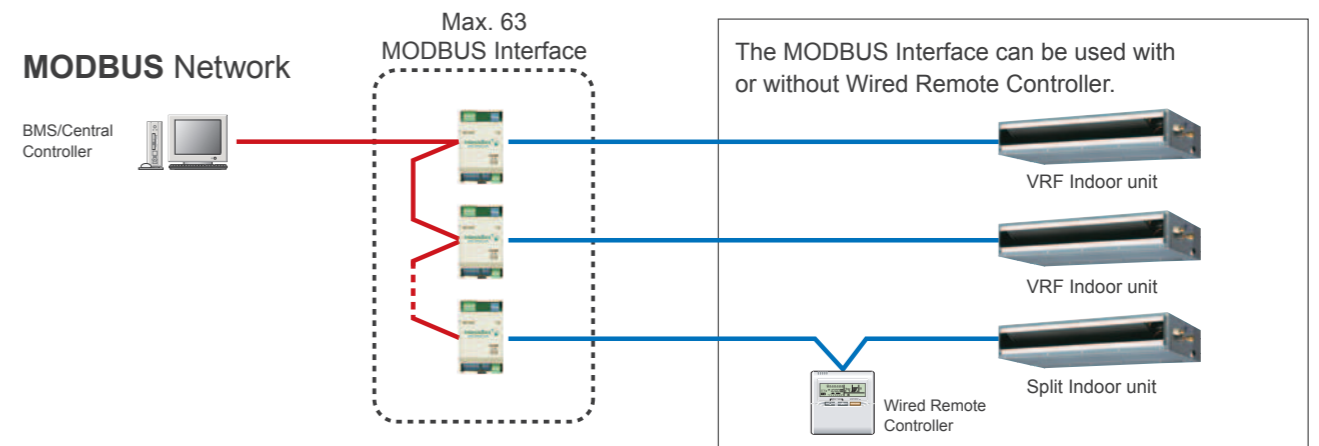
- Simple installation due to small and compact size.
- No separate external power supply required (just KNX bus power).
- Can be used for single indoor units and group controlled (up to 16) indoor units.



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)	93×53×58	70×70×28
Weight (g)	85	70




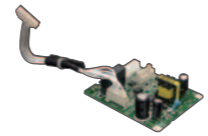
Controllers

For Individual & Centralized Control

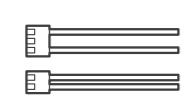
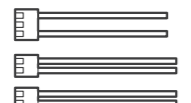
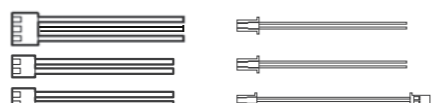
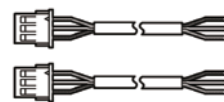


Wired Remote Controller UTY-RVNYM 	Wired Remote Controller UTY-RNNYM 	Simple Remote Controller UTY-RSNYM 	Central Remote Controller UTY-DMMYM For 8 Rooms Multi 
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Communication devices

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 
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External Connect Kit / External Control set

External Connect Kit For Indoor Unit  UTY-XWZX  UTY-XWZXZ5	External Control Set For Indoor Unit  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	—	—	●*2	—	—	—
	Auxiliary heater	—	—	●*3	—	—	—
	Preparation	—	—	●*4	—	—	—
	Base heater	—	—	—	—	—	●


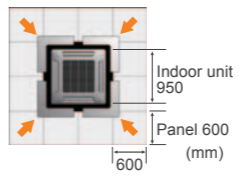

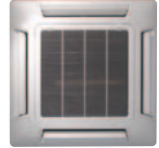
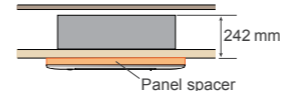
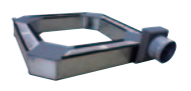
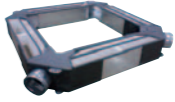
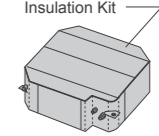


* 1 : This function has been had only wall mounted model such as LT, LU, and LM.
 * 2 : This function has been had only ducted model, cassette model, and ceiling mode.
 * 3 : This function has been had only ducted model.
 * 4 : This cable is necessary for some ducted model.

Others

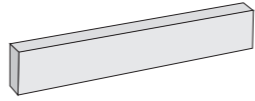
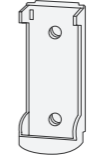
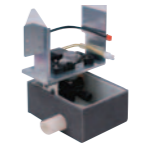

For Duct type

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 	Cassette Grille UTG-UFYD-W For Compact Cassette type 	Cassette Grille UTG-UGYA-W 
Panel Spacer UTG-BGYA-W 	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

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 
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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

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

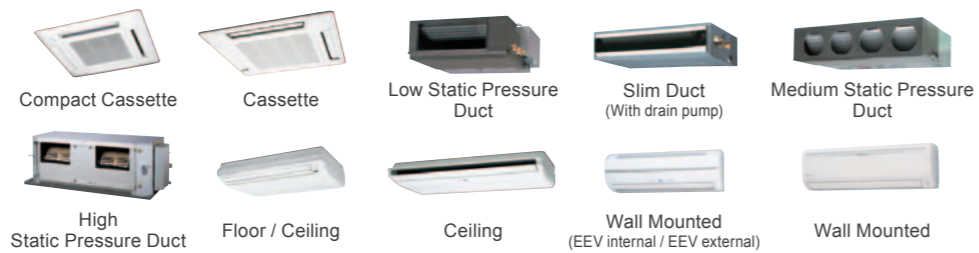
- Space saving combination : 8HP to 48HP / 21 models
- Energy efficiency combination : 16HP to 44HP / 13 models

AIRSTAGE™ VR-II

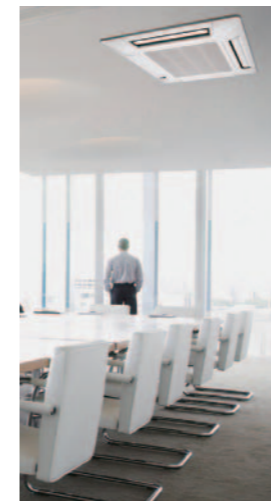


Indoor Units & Ventilations Line-up Page 134~

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



NEW Outdoor Air Unit 3 models Page 166~



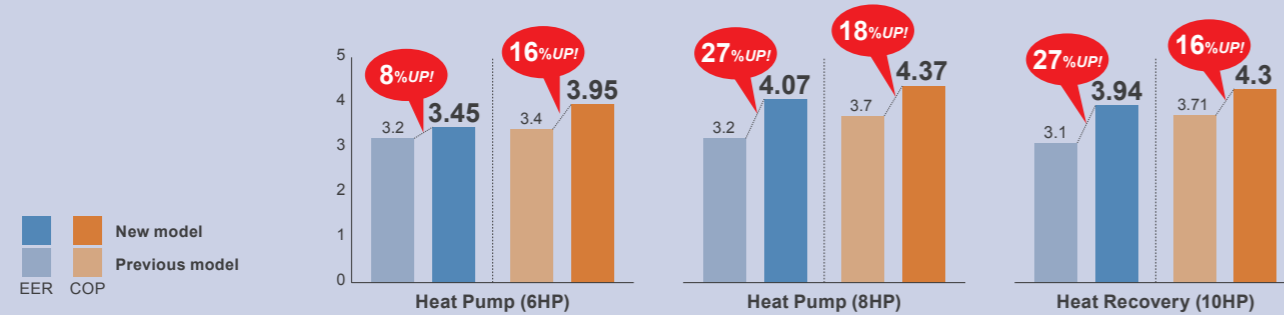
Various Easy-to-use Controllers Page 140~

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

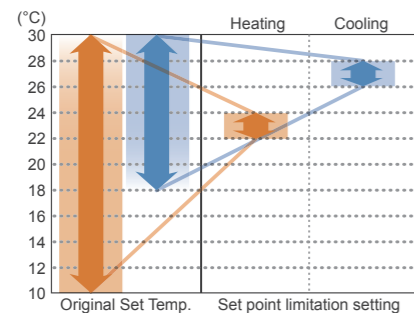
Efficiency is improved significantly by using DC twin rotary compressor, inverter technology, and large heat exchanger



Energy Saving Function

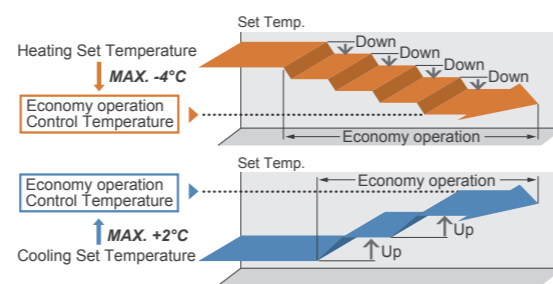
Room temperature set point limitation

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



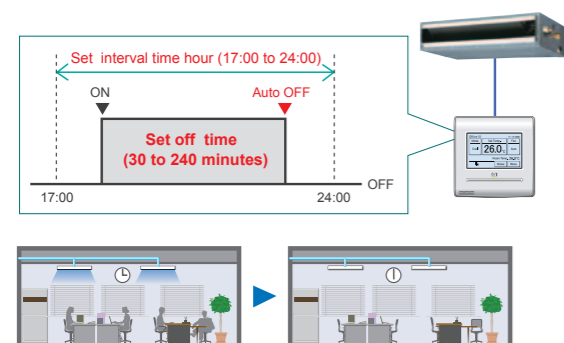
Economy operation

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



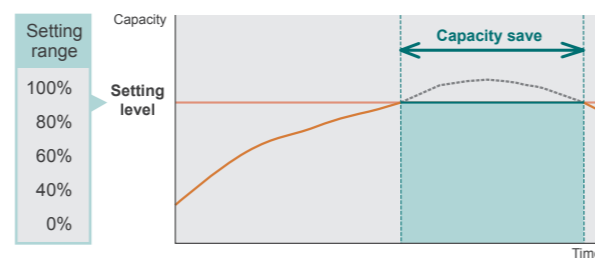
Auto-off timer

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



Capacity save operation

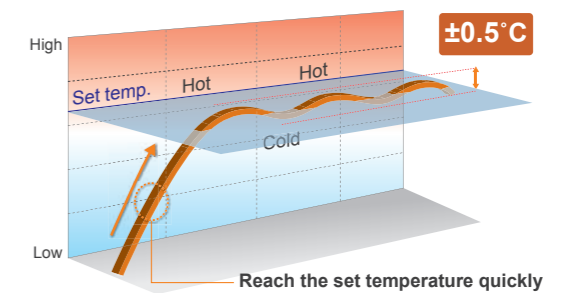
Operation capacity can be set in 5 steps for rated capability. The power consumption at peak is cut down and the maximum load is suppressed.



More Comfort

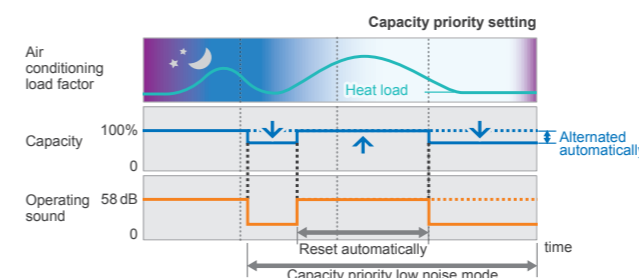
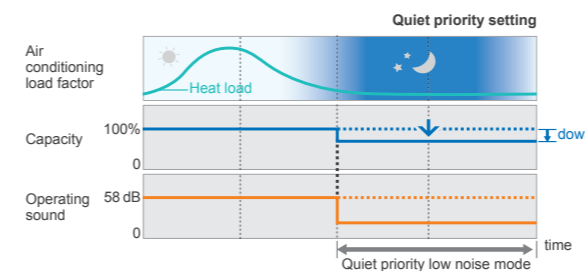
Precision refrigerant flow control

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



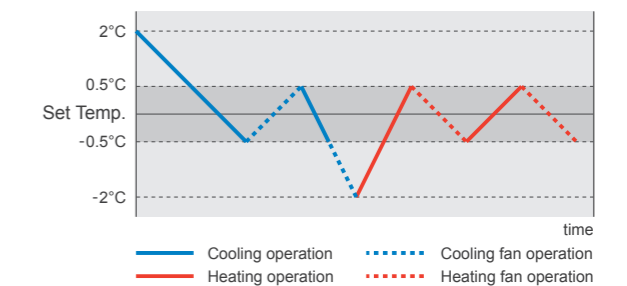
Quiet operation

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.

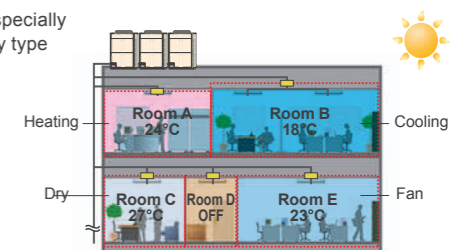


Auto changeover function

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-IIS series Heat Pump type



Connectable indoor unit capacity range
50% to 130%^{*1}

Connectable indoor unit number
up to 8

4HP-6HP

AIRSTAGE™ J-II series Heat Pump type



Connectable indoor unit capacity range
50%^{*2} to 130%^{*1}

Connectable indoor unit number
up to 9

8HP-48HP

AIRSTAGE™ V-II series Heat Pump type



Connectable indoor unit capacity range
50% to 150%^{*1}

Connectable indoor unit number
up to 48

AIRSTAGE™ VR-II series Heat Recovery type

Connectable indoor unit capacity range
50% to 150%^{*1}

Connectable indoor unit number
up to 64

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

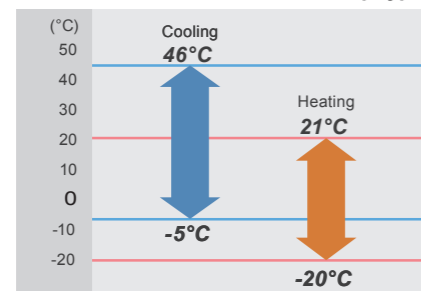
Outdoor unit capacity	Maximum connectable indoor unit capacity ratio	
	Without 1.1 kW models	With 1.1 kW models ^{*3}
8HP-48HP	150%	130%
4HP-6HP	130%	117%(J-IIS), 120%(J-II)

^{*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%.

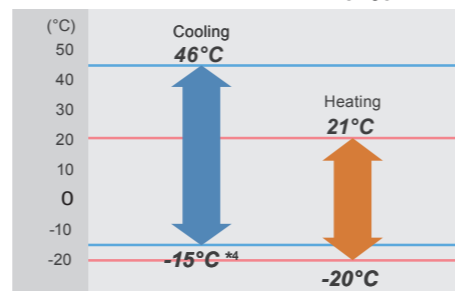
Wide operating range

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

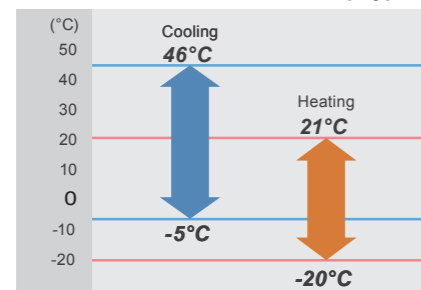
AIRSTAGE™ J-IIS series Heat Pump type



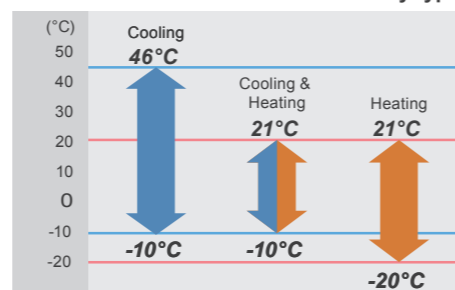
AIRSTAGE™ V-II series Heat Pump type



AIRSTAGE™ J-II series Heat Pump type



AIRSTAGE™ VR-II series Heat Recovery type

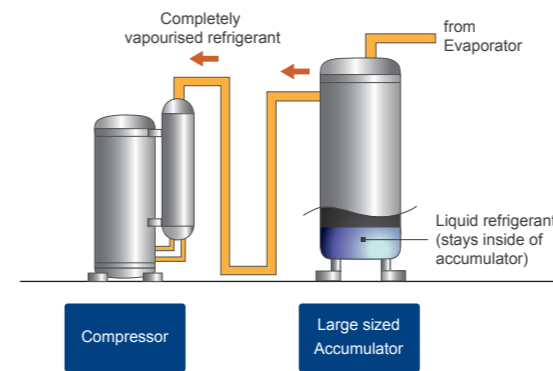


^{*4} Note : When a multiple outdoor unit connection is used, operating range is from -5°C to 46°C in cooling.

High Reliability

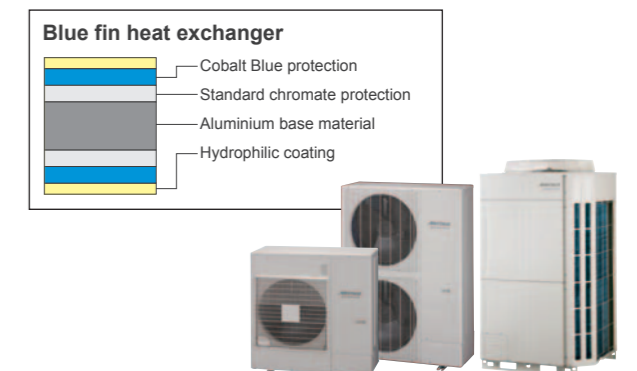
Liquid flow back protection

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.



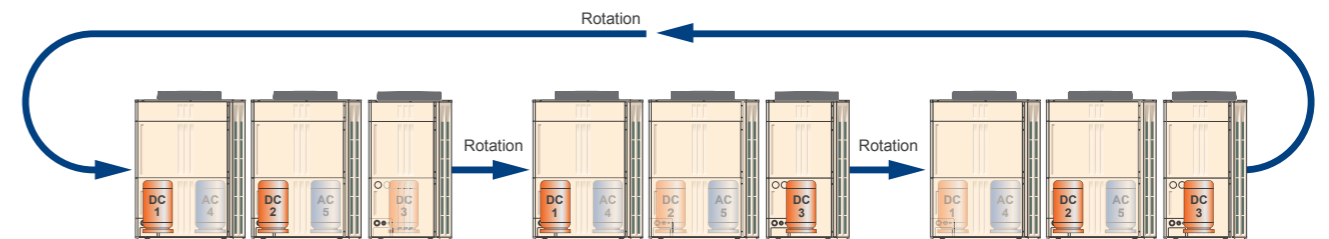
Adoption of blue fin heat exchanger

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.

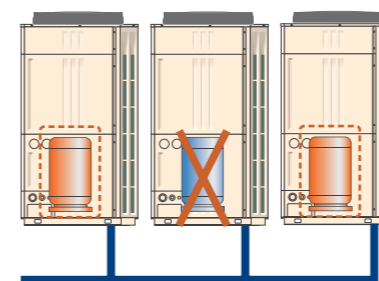


Note: The inverter compressors start in priority. Rotate operation is alternated by the start / stop timing of the compressors

Backup operation^{*5}

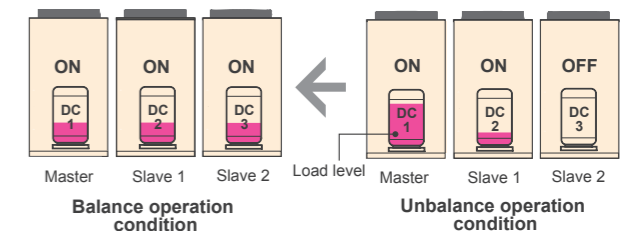
If one compressor fails, backup operation will be performed by the remaining compressors^{*}.

^{*}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.

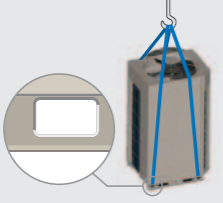


^{*5} Not available for AIRSTAGE™ J-IIS and J-II series

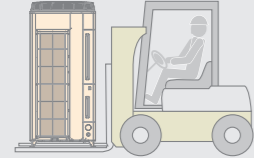
Easy Installation

Easily transported


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



Transporting by forklift
Transport with forklift is possible.

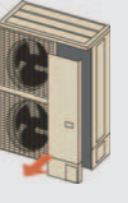


Can be transported in a small elevator

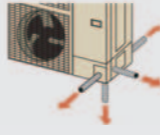


Easy access


Reduced installation intervals by front access



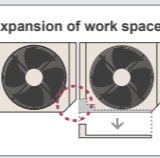
Flexible installation by 4 way pipe direction



By adopting a L-Shape front panel that can be removed, the work space for installation and service has been significantly expanded by this new design.



Expansion of work space

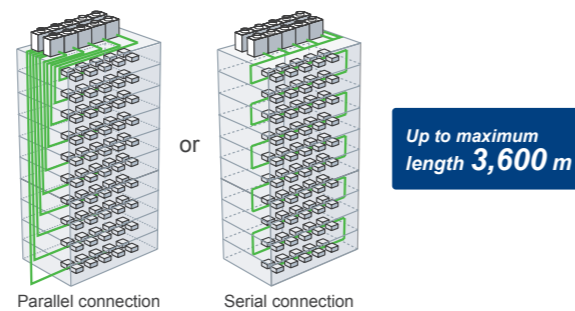


For multiple installations, work is performed easily and efficiently even in a narrow space.

Simple wiring work

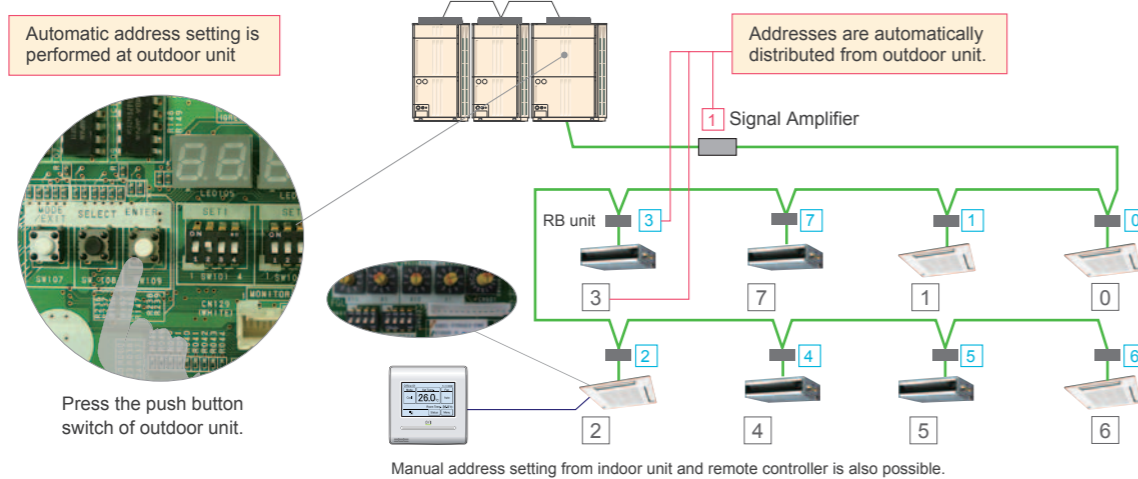
Installation of the wiring systems is made easier as the communication wiring can be installed continuously between the indoor, outdoor and RB units.

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



Automatic address setting

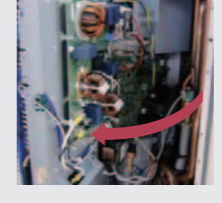
The address of the indoor unit, RB unit and signal amplifier through the automatic function setting on the outdoor unit PCB.



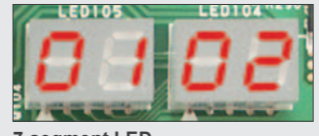
Easy Service & Maintenance

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

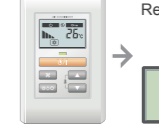
Error status can be checked easily via the indoor unit wired controller
An error code is displayed on a liquid crystal screen.

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

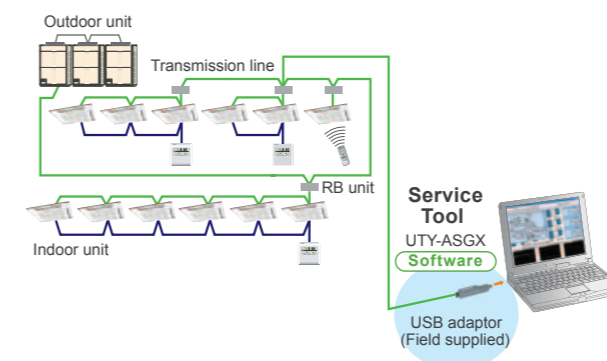
No.	Date	Time	Address	Code
1	2012/11/11	11:00:00	002001	100
2	2012/11/11	11:00:00	002001	100
3	2012/11/11	11:00:00	002001	100
4	2012/11/11	11:00:00	002001	100
5	2012/11/11	11:00:00	002001	100

• Error status can be checked easily by outdoor unit display

Error diagnosis by Service Tool

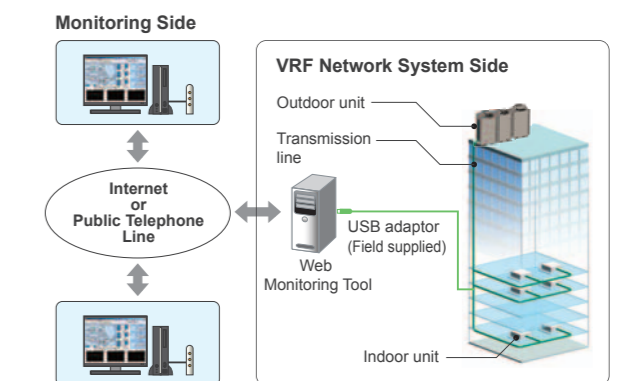
Connection to Service Tool

- 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 recorded.



Remote monitoring

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



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

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

Current model / 6HP class
Height:1334 mm
Weight:117 kg

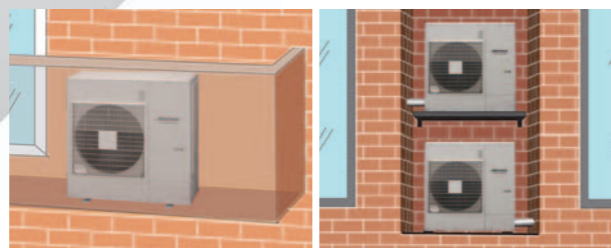
NEW Model / 6HP class

Height difference
998 mm
▲ 25%

Light weight
87 kg
▲ 26%

Small and light weight outdoor unit

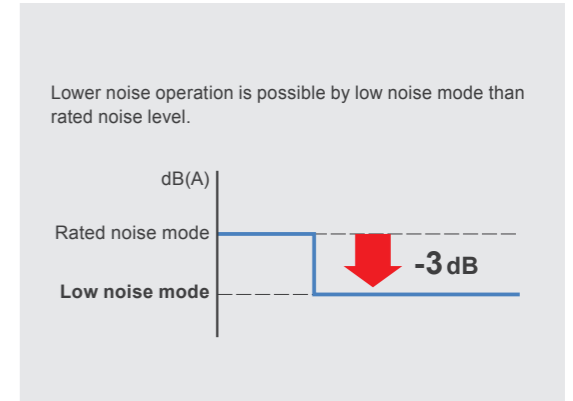
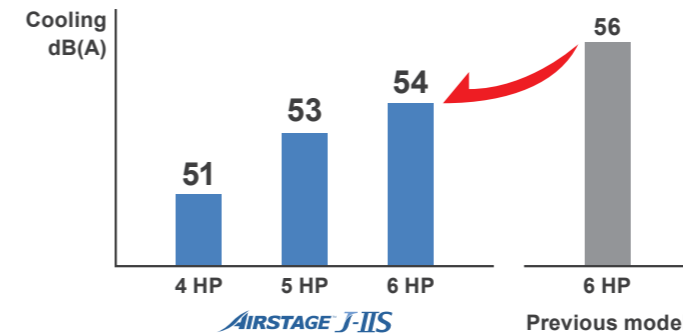
This model is much more compact than conventional 6HP comparable outdoor units. Even when installed on the balcony it fits within the height of the fence. The compact size with a height of less than 1 m allows it to be installed under windows and in tight spaces



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

- Large propeller fan**
High performance and low noise realized by large propeller and optimization of angle.
- DC fan motor**
Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.
- DC inverter control**
Efficiency is improved by mounting of new active filter module.
- Smooth airflow grille**
This grille was aerodynamically designed for good efficiency with little blow loss.
- Compact and high performance DC twin rotary compressor**
Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.
- Low noise rubber**
- High efficiency compressor motor**
- Optimized refrigerant flow design**
- Highly accurate parts**
- Large heat exchanger**
Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.
- High heat transfer copper tube (Improved lead angle)**

Compressor efficiency

Compressor capacity

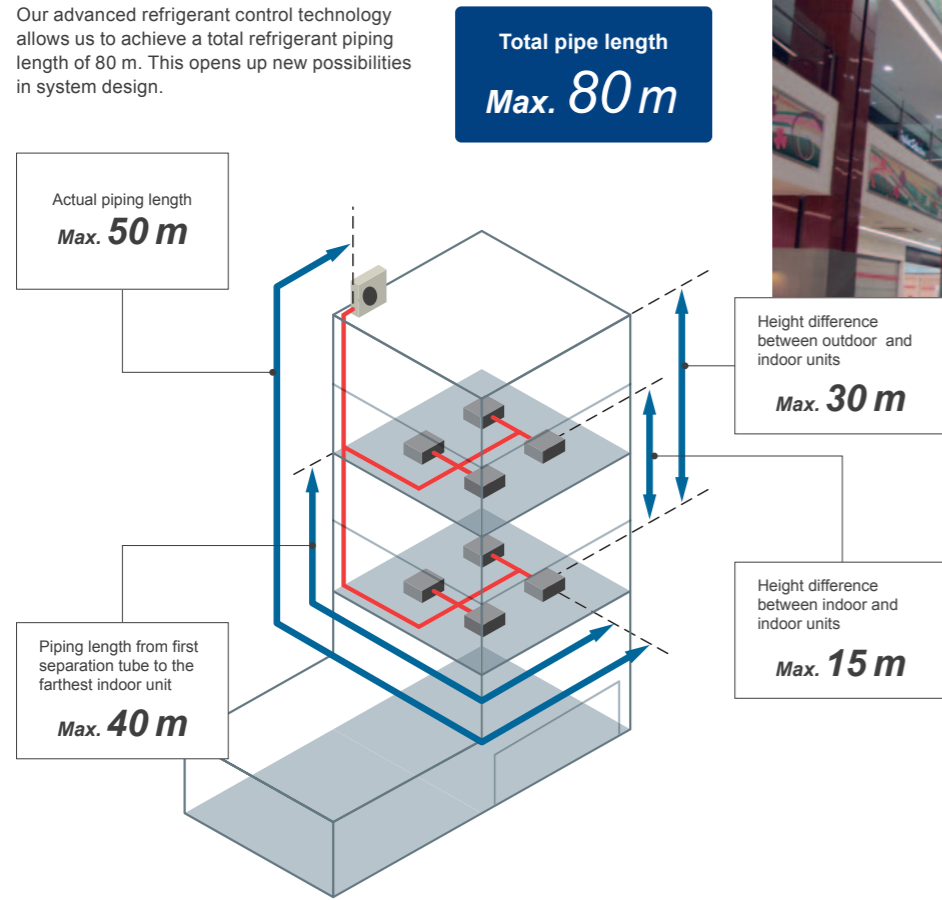
100%

High

Features

Long piping length

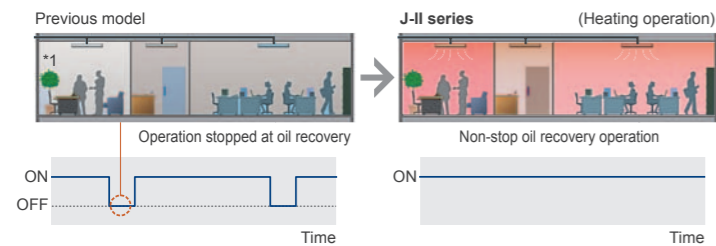
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 80 m. This opens up new possibilities in system design.



More Comfort

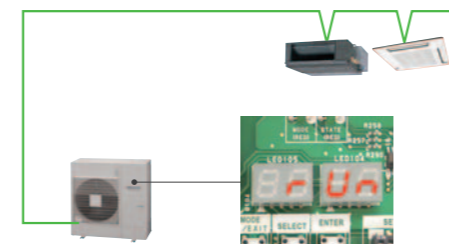
Non-stop oil recovery operation

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.



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

Specifications

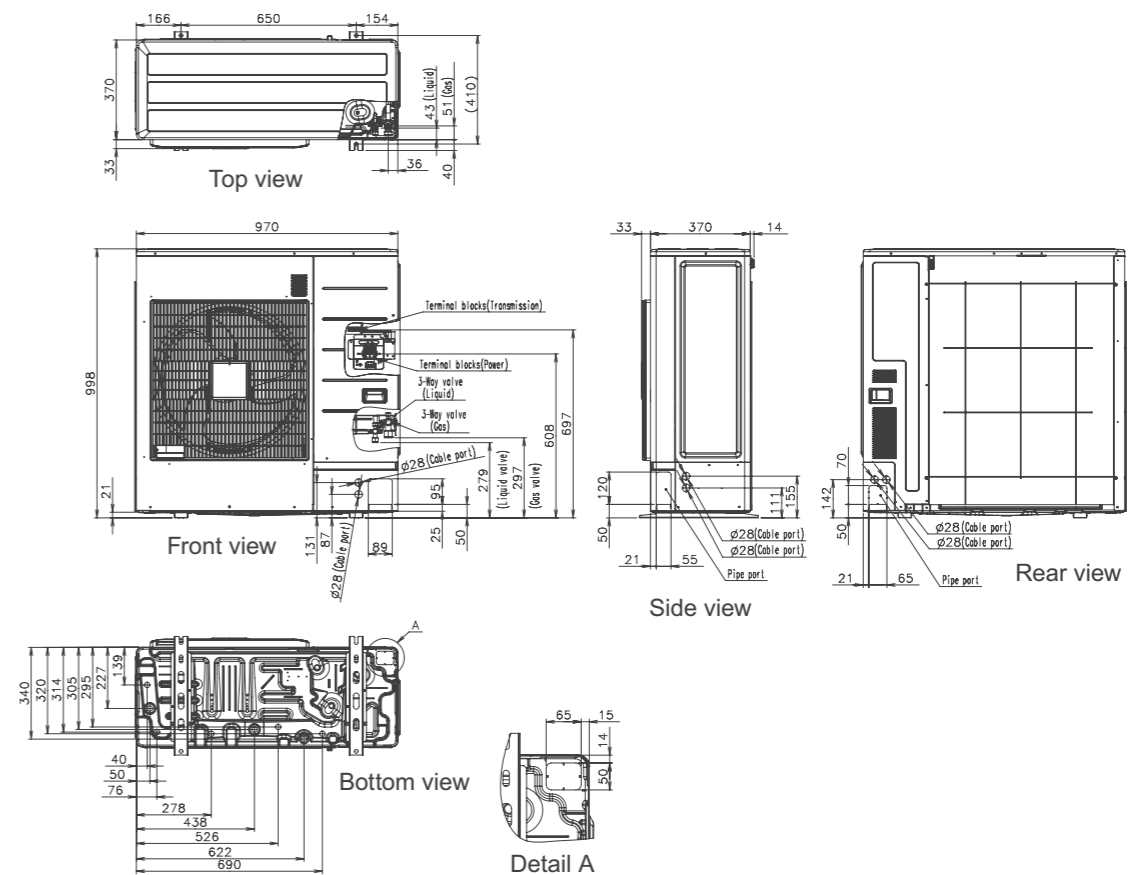
Rating capacity range	HP	4	5	6	
Model name		AJY040LCLAH	AJY045LCLAH	AJY054LCLAH	
Maximum connectable indoor unit		7	8	8	
Power source	V/∅/Hz	230/1/50	230/1/50	230/1/50	
Capacity	Cooling	kW	12.1	14.0	15.1
	Heating	kW	13.6	16.0	16.5
Input power	Cooling	kW	3.44	4.43	5.32
	Heating	kW	3.09	3.93	4.26
EER	Cooling	W/W	3.52	3.16	2.84
COP	Heating	(A)	4.40	4.07	3.87
Airflow rate		m ³ /h	4,040	4,200	4,200
Sound Pressure level	Cooling	dB	51	53	54
	Heating	(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	∅9.52	∅9.52	∅9.52
	Gas	mm	∅15.88	∅15.88	∅15.88
Total pipe length		m	80	80	80
Max. Height difference		m	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

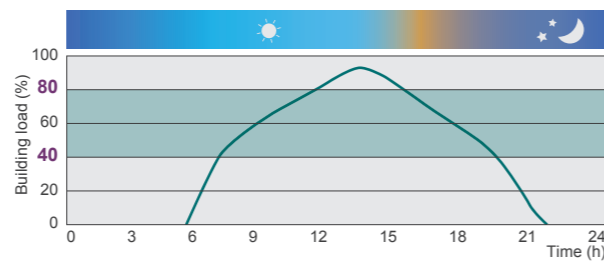
Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and stores to large houses.



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

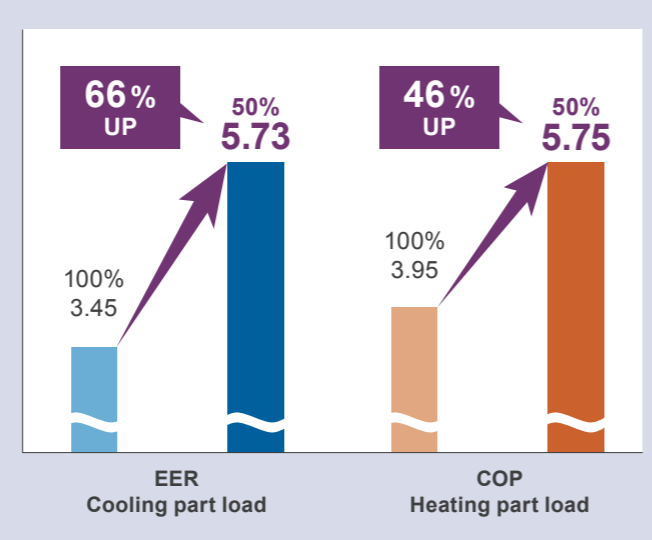
Load curve (a typical office building)



High EER / COP



High part load performance (6HP class)

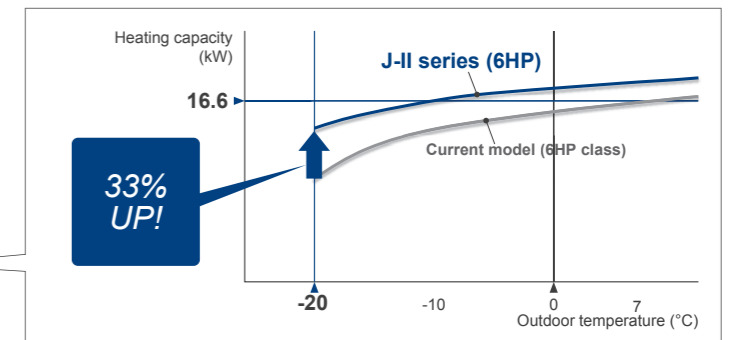


Conditions : Connected indoor units: AUXA30GALH+AUXD24GALH
 Cooling : indoor temp. of 27°CDB / 19°CWB, outdoor temp. of 35°CDB / 24°CWB
 Heating : indoor temp. of 20°CDB / 15°CWB, outdoor temp. of 7°CDB / 6°CWB

Features

Powerful Heating

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



Advanced high efficiency technology



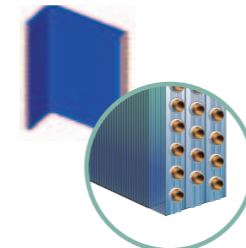
Large propeller fan

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



DC fan motor

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



Large heat exchanger

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



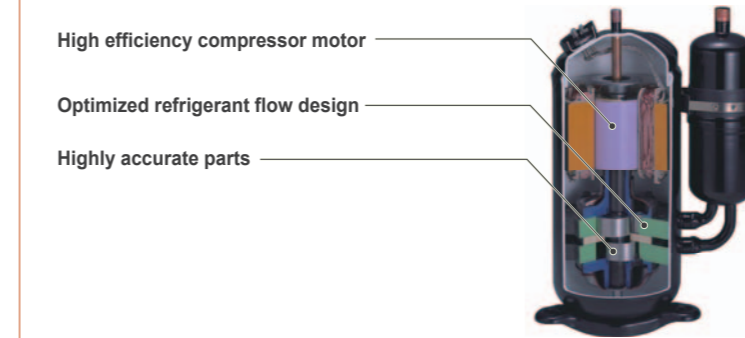
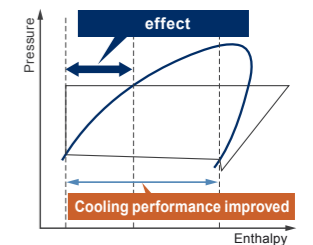
DC inverter control

Efficiency is improved by mounting of new active filter module.



Subcool heat exchanger

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



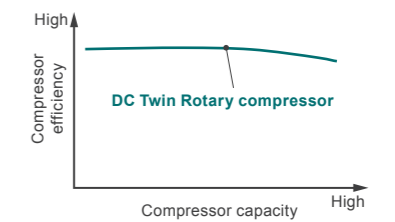
High efficiency compressor motor

Optimized refrigerant flow design

Highly accurate parts

DC twin rotary compressor

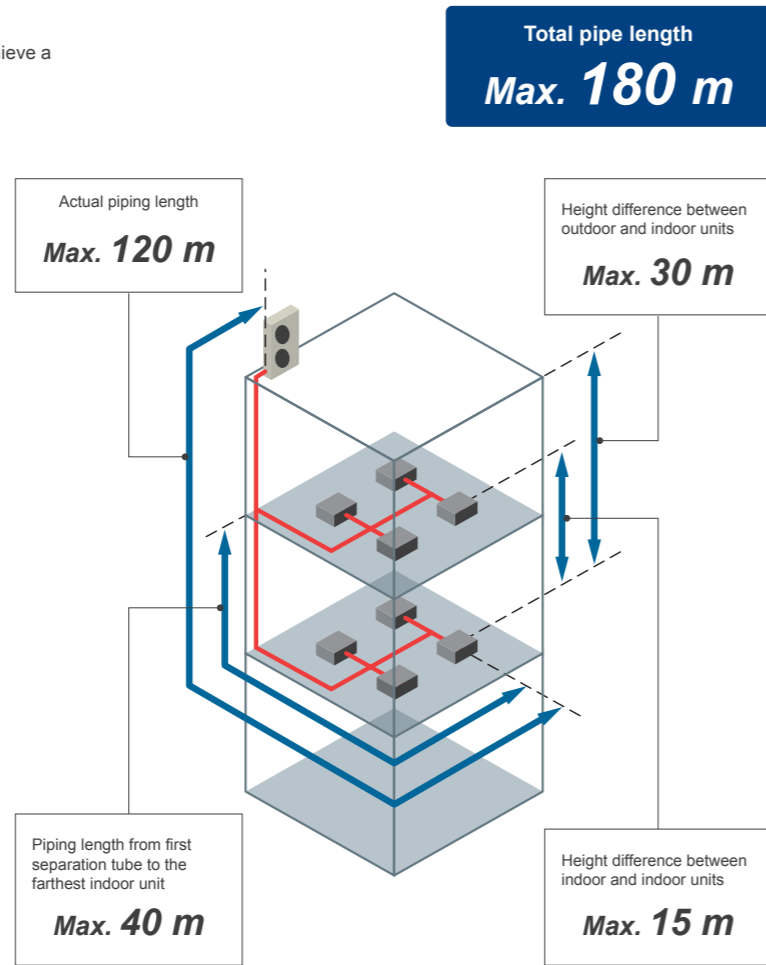
Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.



Features

Long Piping Length

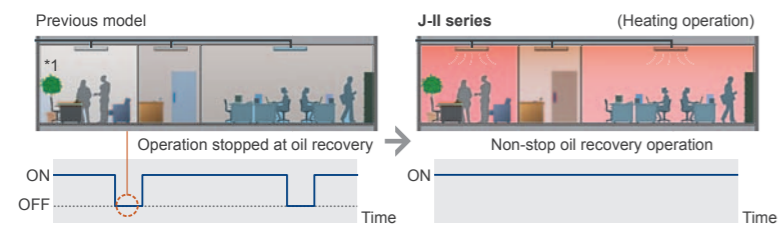
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 180 m. This opens up new possibilities in system design.



More Comfort

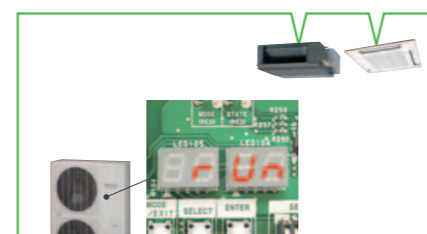
Non-stop oil recovery operation

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.



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

Specifications

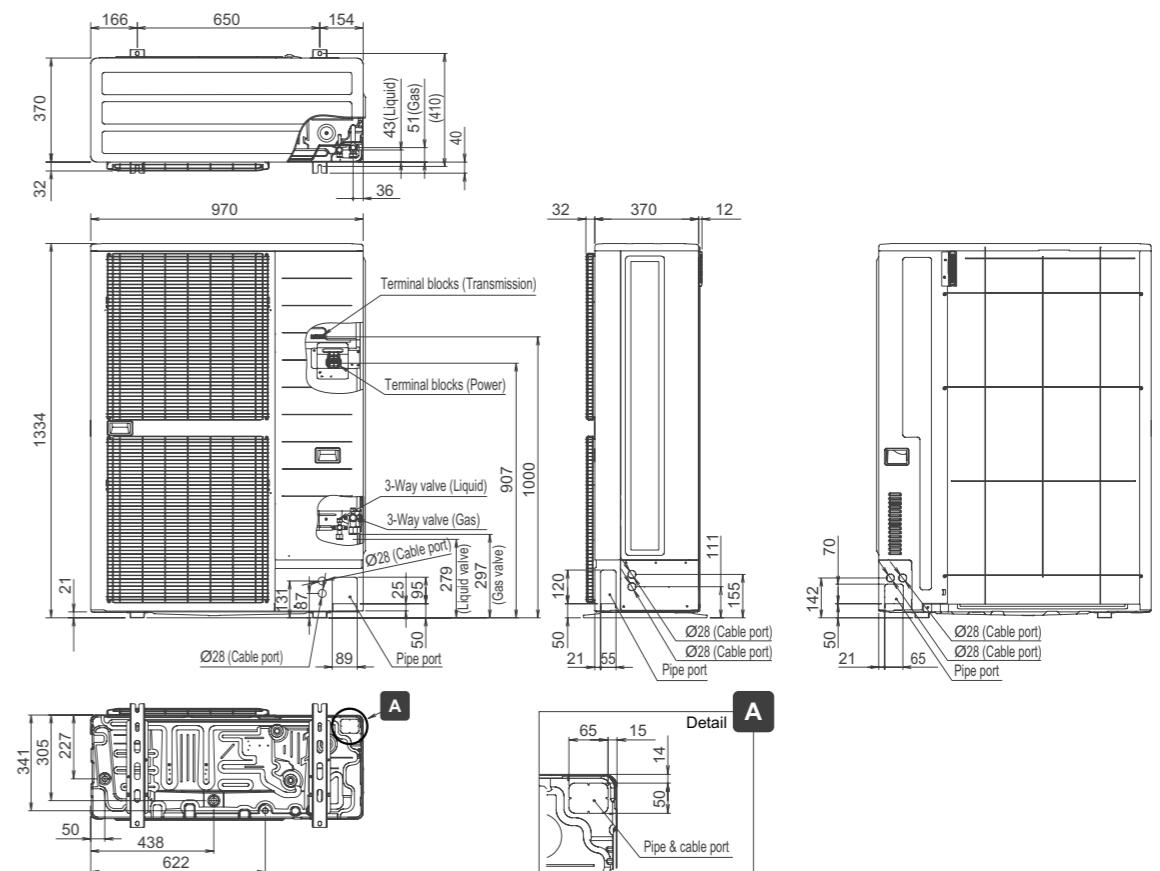
Rating Capacity range	HP	4	5	6	
Model name		AJYA40LALH	AJYA45LALH	AJYA54LALH	
Maximum Connectable Indoor Unit		7	8	9	
Power source	V/∅/Hz	230/1/50	230/1/50	230/1/50	
Capacity	Cooling	kW	12.1	14.0	15.5
	Heating	kW	13.6	16.0	18.0
Input power	Cooling	kW	3.25	3.89	4.49
	Heating	kW	3.17	3.81	4.56
EER	Cooling	W/W	3.72	3.60	3.45
COP	Heating	W/W	4.29	4.20	3.95
Air flow rate		m ³ /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	∅9.52	∅9.52	∅9.52
	Gas	mm	∅15.88	∅15.88	∅19.05
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%

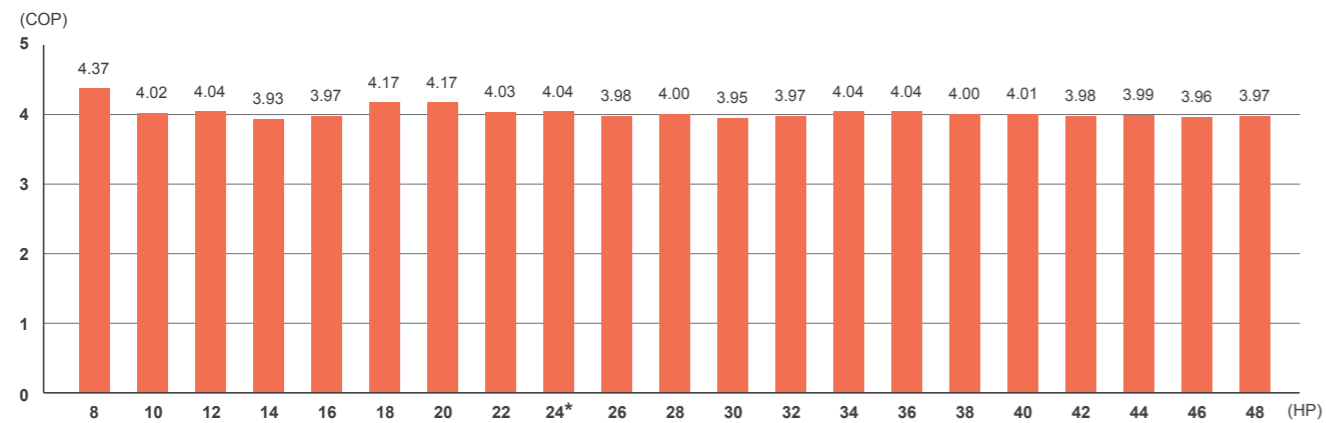


Features

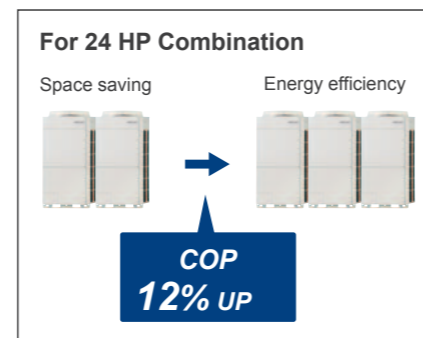
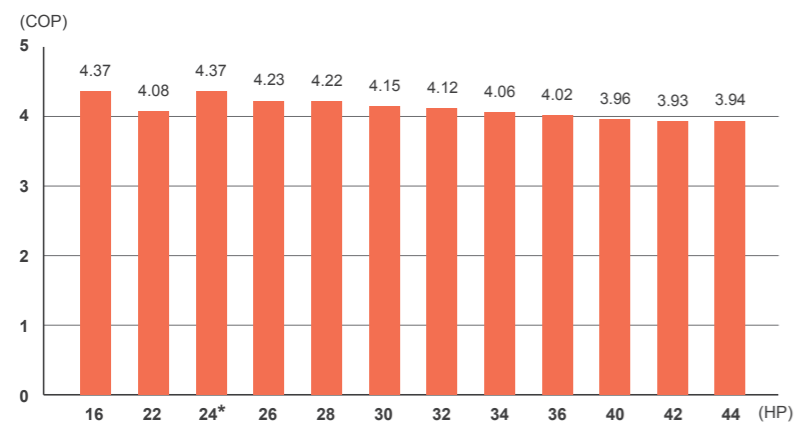
Efficiency in actual operation

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



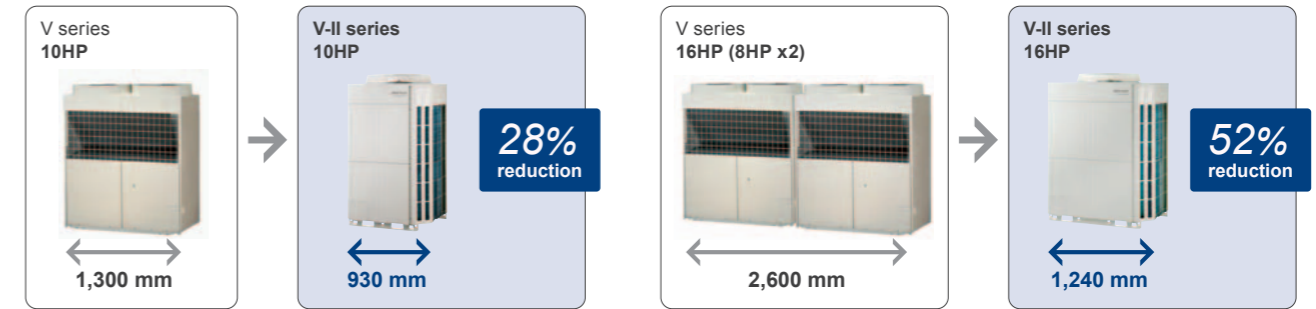
Energy efficiency combination



Features

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

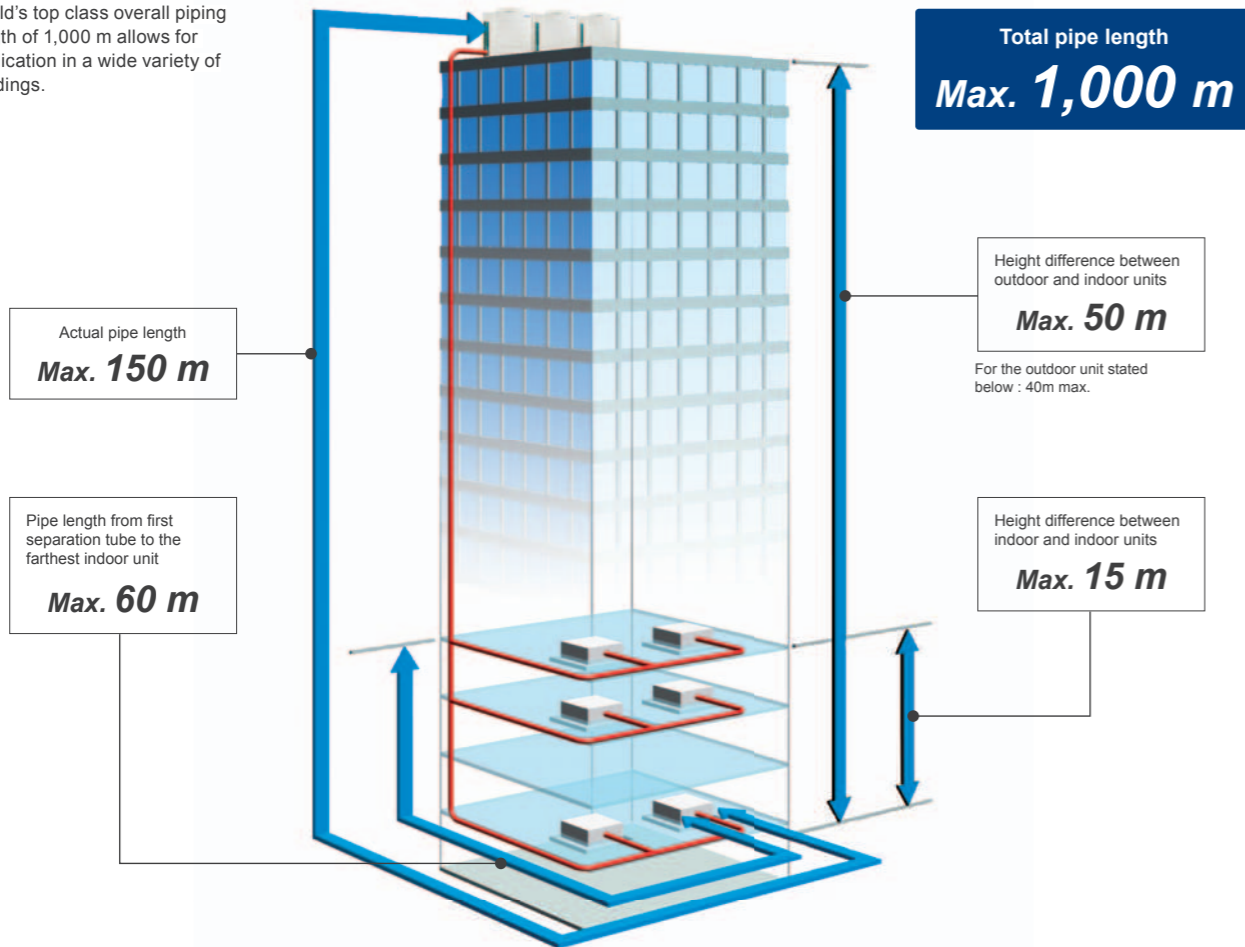
- Powerful large propeller fan**
By using CFD*1 technology, A newly designed fan achieves high performance and low noise operation.
*1. CFD = Computational Fluid Dynamics
- DC fan motor**
Power consumption has been reduced by 25% compared to previous models by using a compact and high performance DC 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 operation is realized by using a sine wave DC inverter control.
- DC twin rotary compressor**
Significantly greater efficiency is realized by use of a large capacity DC twin rotary compressor with substantially increased refrigerant intake and compression efficiency.
- 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.

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.

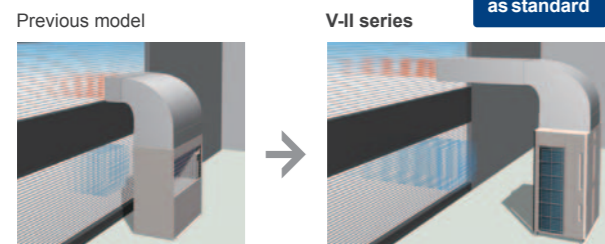


High static pressure of 80 Pa

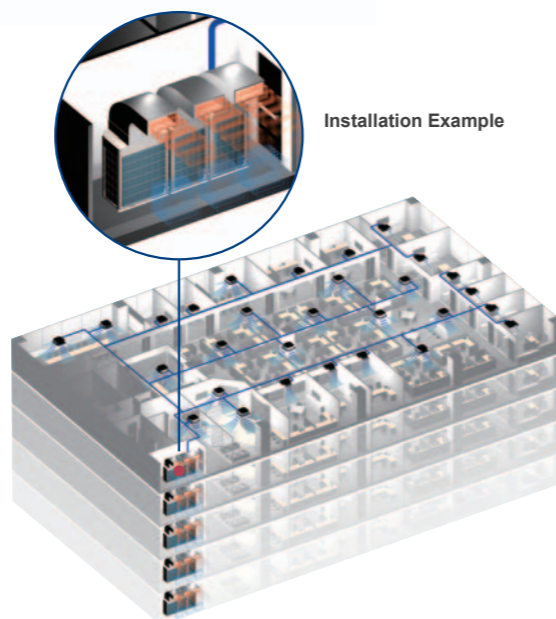
The outdoor unit can have a condenser hood easily connected with a static pressure of 80Pa standard. This allows outdoor units to be installed within plant rooms in high rise buildings.

Powerful discharge with an external static pressure of 80 Pa.

80 Pa
as standard



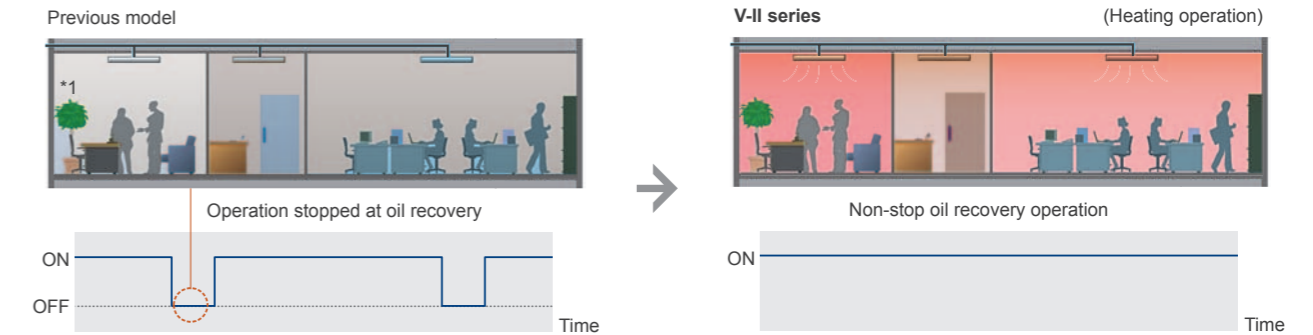
Large diameter fan and DC motor has been utilized allowing an external static pressure of 80 Pa. This is approximately 2.6 times greater than the previous model.



More Comfort

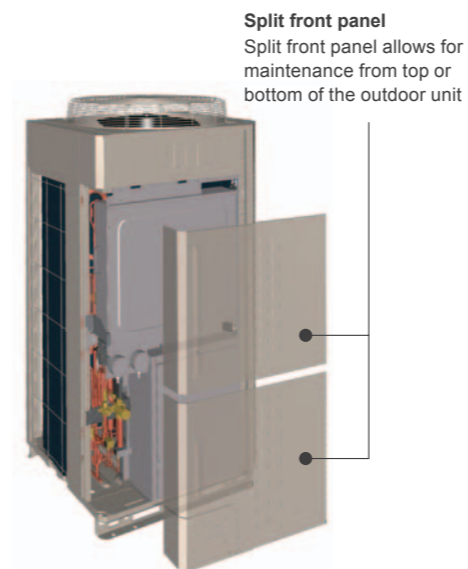
Non-stop oil recovery operation

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.

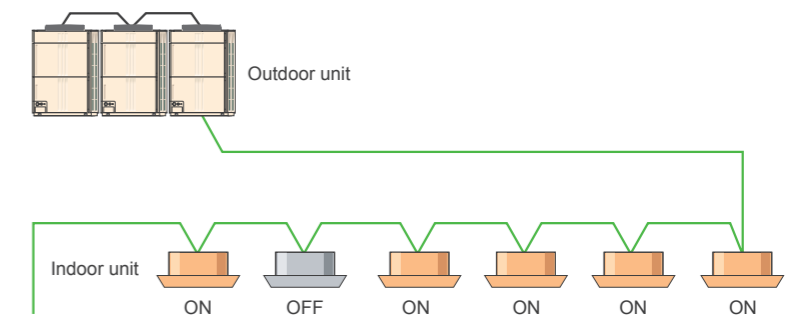


Continuous operation during maintenance

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)  AJYA72LALH UNIT : AJYA72LALH	28.0 kW (10HP)  AJYA90LALH UNIT : AJYA90LALH	33.5 kW (12HP)  AJY108LALH UNIT : AJY108LALH	40.0 kW (14HP)  AJY126LALH UNIT : AJY126LALH	45.0 kW (16HP)  AJY144LALH UNIT : AJY144LALH
50.4 kW (18HP)  AJY162LALH UNIT : AJYA90/A72LALH	55.9 kW (20HP)  AJY180LALH UNIT : AJY108/A72LALH	61.5 kW (22HP)  AJY198LALH UNIT : AJY108/A90LALH	67.0 kW (24HP)  AJY216LALH UNIT : AJY108/108LALH	73.5 kW (26HP)  AJY234LALH UNIT : AJY126/108LALH
78.5 kW (28HP)  AJY252LALH UNIT : AJY144/108LALH	85.0 kW (30HP)  AJY270LALH UNIT : AJY144/126LALH	90.0 kW (32HP)  AJY288LALH UNIT : AJY144/144LALH	95.0 kW (34HP)  AJY306LALH UNIT : AJY108/108/A90LALH	100.5 kW (36HP)  AJY324LALH UNIT : AJY108/108/108LALH
107.0 kW (38HP)  AJY342LALH UNIT : AJY126/108/108LALH	112.0 kW (40HP)  AJY360LALH UNIT : AJY144/108/108LALH	118.5 kW (42HP)  AJY378LALH UNIT : AJY144/126/108LALH	123.5 kW (44HP)  AJY396LALH UNIT : AJY144/144/108LALH	130.0 kW (46HP)  AJY414LALH UNIT : AJY144/144/126LALH
135.0 kW (48HP)  AJY432LALH UNIT : AJY144/144/144LALH				

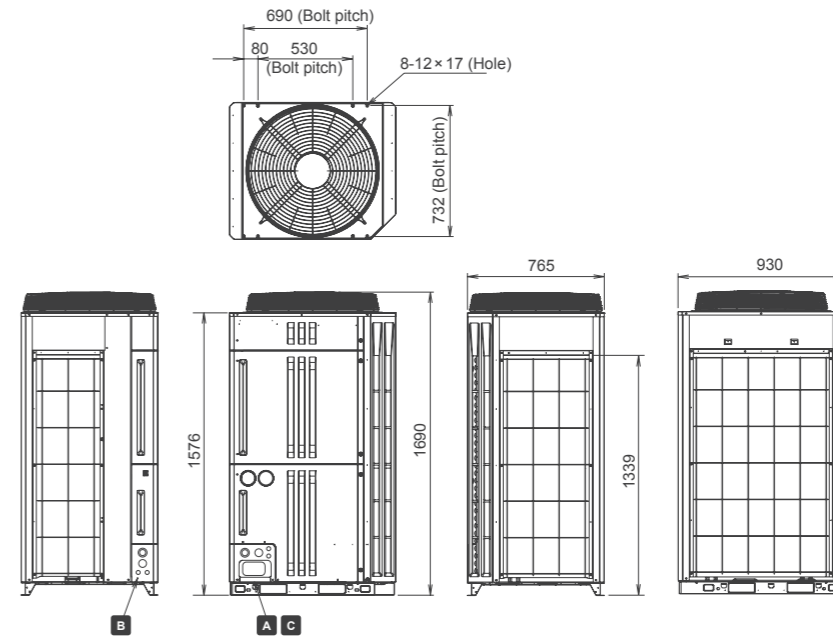
Energy efficiency combination

44.8 kW (16HP)  AJY144LALHH UNIT : AJYA72/A72LALH	62.4 kW (22HP)  AJY198LALHH UNIT : AJY126/A72LALH	67.2 kW (24HP)  AJY216LALHH UNIT : AJYA72/A72/A72LALH	72.8 kW (26HP)  AJY234LALHH UNIT : AJYA90/A72/A72LALH	78.3 kW (28HP)  AJY252LALHH UNIT : AJY108/A72/A72LALH
84.8 kW (30HP)  AJY270LALHH UNIT : AJY126/A72/A72LALH	89.8 kW (32HP)  AJY288LALHH UNIT : AJY108/108/A72LALH	95.9 kW (34HP)  AJY306LALHH UNIT : AJY126/108/A72LALH	102.4 kW (36HP)  AJY324LALHH UNIT : AJY126/126/A72LALH	113.5 kW (40HP)  AJY360LALHH UNIT : AJY126/126/108LALH
120.0 kW (42HP)  AJY378LALHH UNIT : AJY126/126/126LALH	125.0 kW (44HP)  AJY396LALHH UNIT : AJY144/126/126LALH			

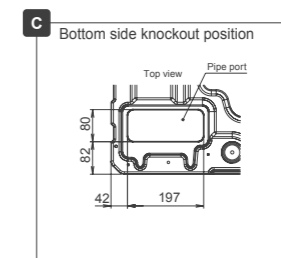
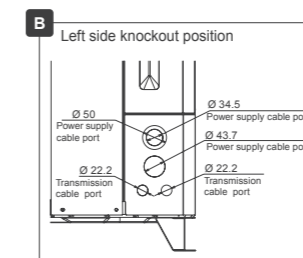
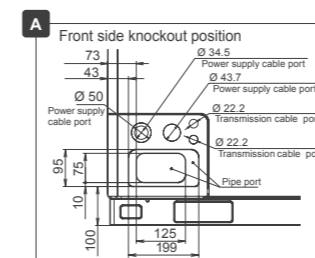
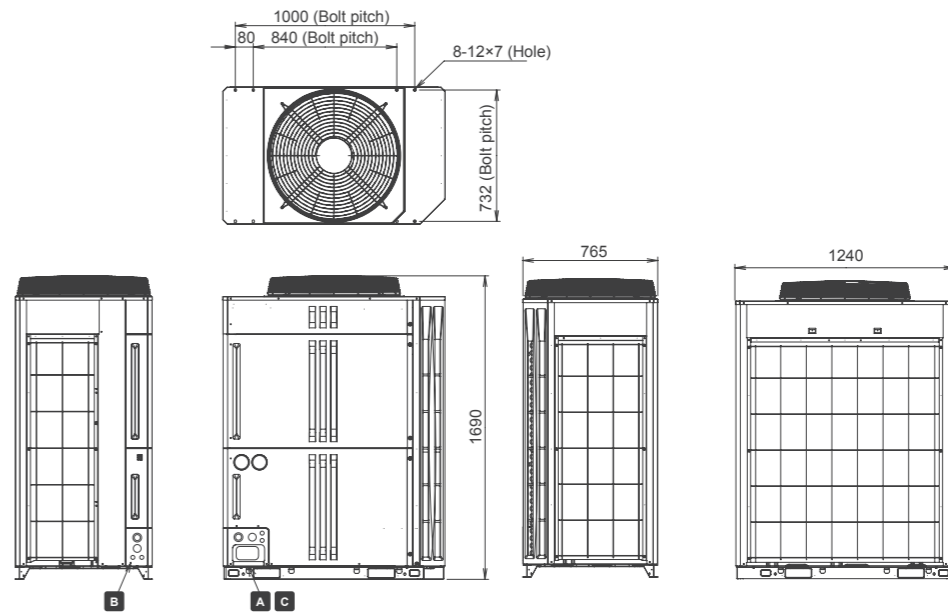
Dimensions

(Unit : mm)

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



14,16HP : AJY126LALH / AJY144LALH



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%



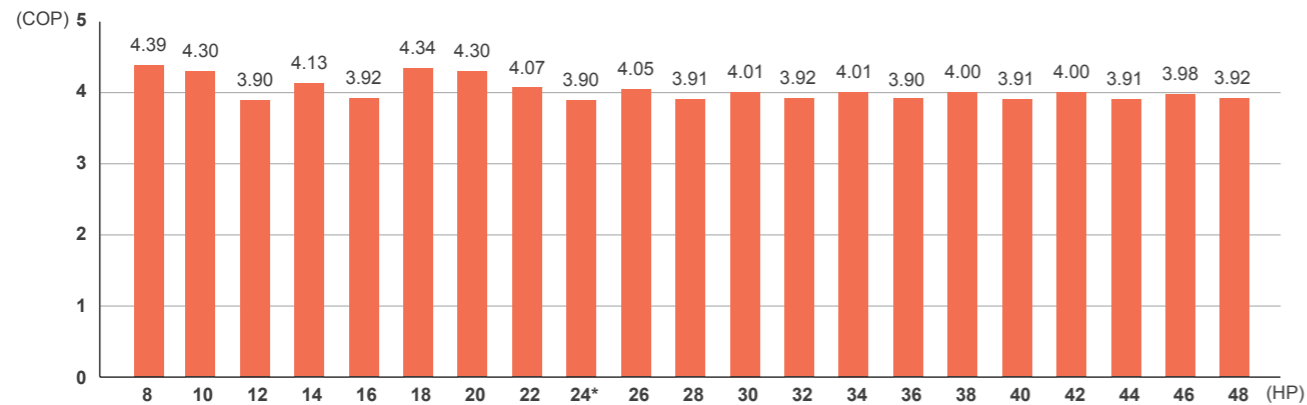
Features

High Efficiency

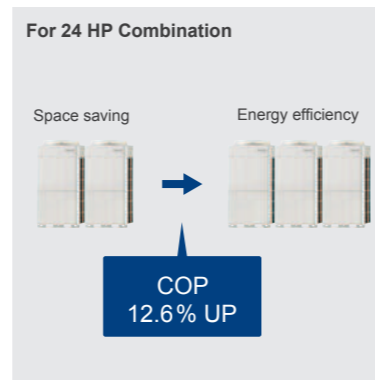
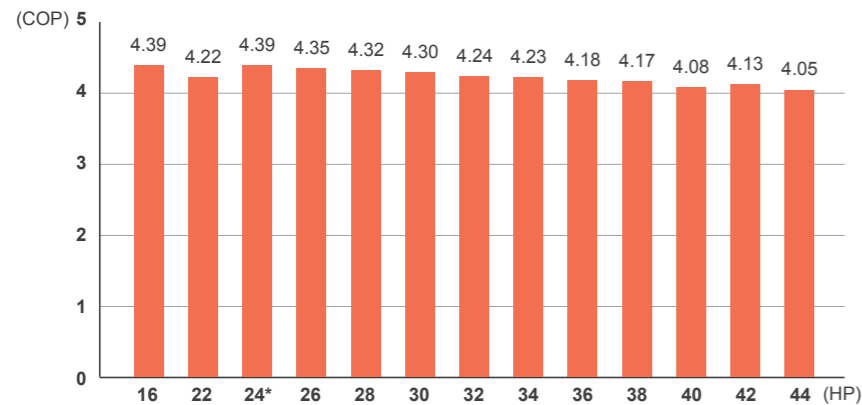
Efficiency in actual operation

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



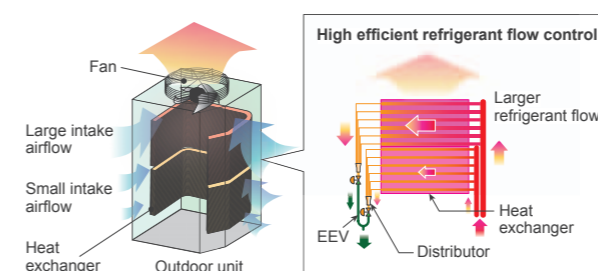
Features

Energy saving technology that boosted operation efficiency

- Powerful large propeller fan**
By using CFD*1 technology, a newly designed fan achieves high performance and low noise operation.
*1. CFD = Computational Fluid Dynamics
- 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.

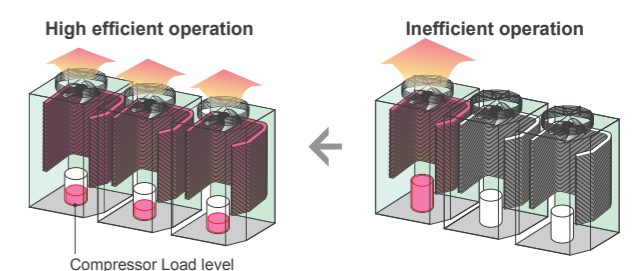
Ideal heat exchanger path control

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.



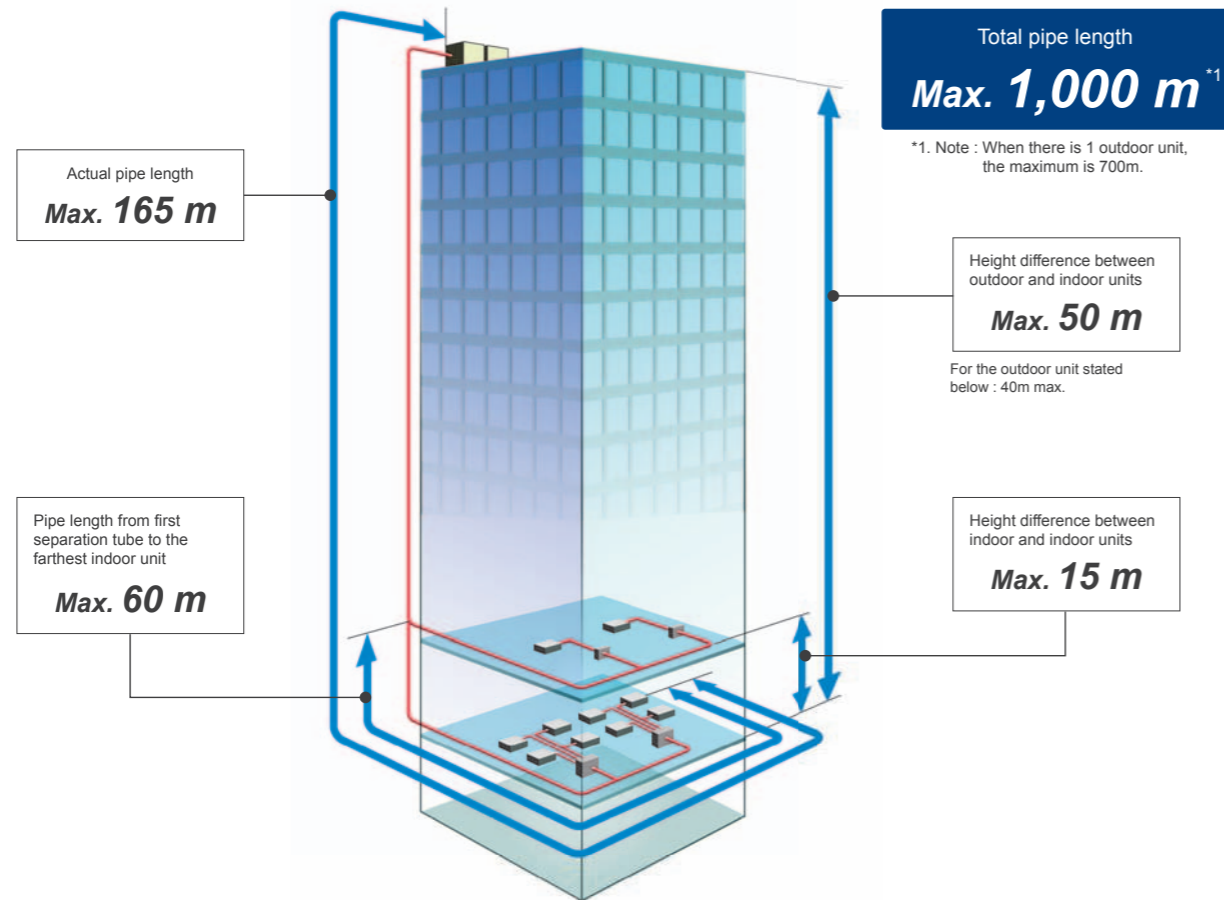
Sophisticated operation control

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.



Design Flexibility

Overall piping length 1,000 m

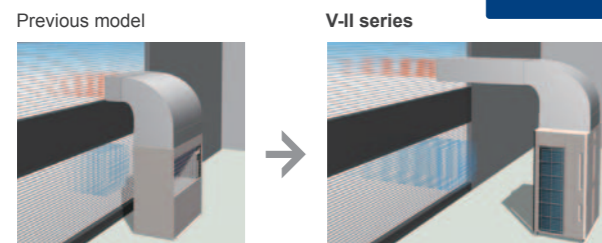


High static pressure of 80 Pa

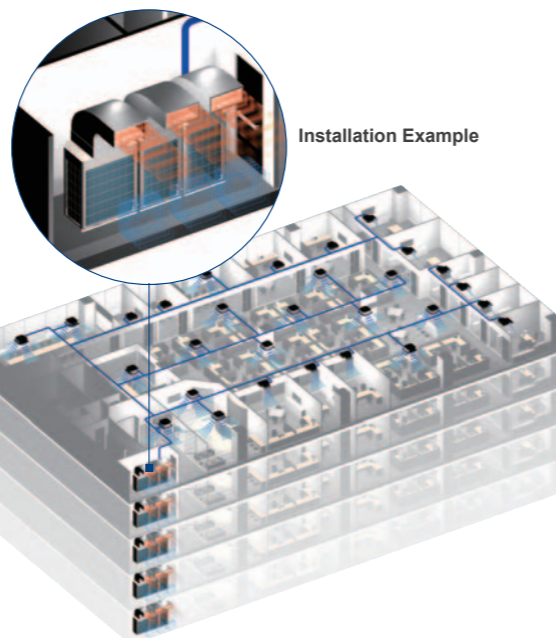
Large diameter fan and 3 phase DC motor has been utilized allowing an external static pressure of 80 Pa. This allows outdoor units to be installed on balconies, etc. on each floor in high rise buildings.

Powerful discharge with an external static pressure of 80 Pa.

80 Pa
as standard

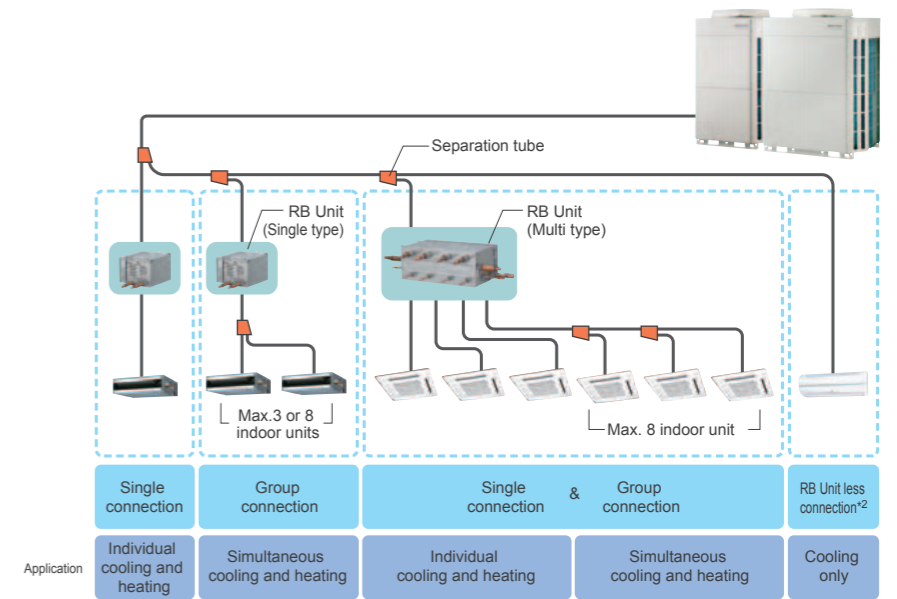


Large diameter fan and DC motor has been utilized allowing an external static pressure of 80Pa. This is approximately 2.6 times greater than the previous model.



Flexible piping connection

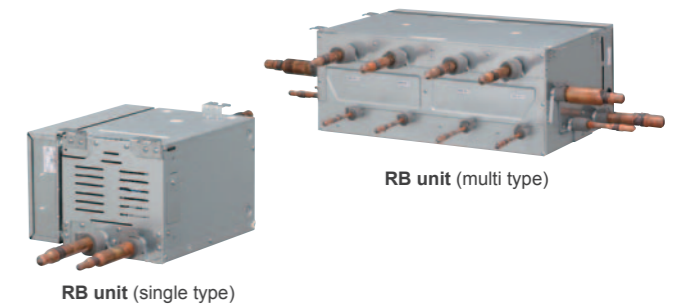
A more flexible refrigerant piping work is possible by the use of various piping and RB Unit connections, for adjustments to the floor layout and building structure.



- The RB unit can be freely positioned between the first branch and the indoor unit.
- The maximum height difference between RB units is 15 m.
- *2. RB Unit is not necessary for cooling only use.

Easy Installation & Maintenance

Flexible installation of RB unit



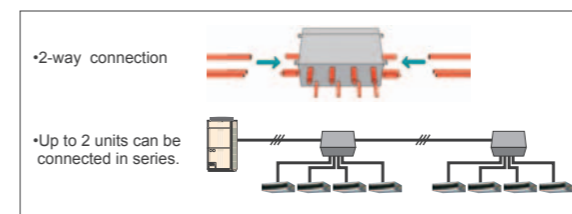
- Small & slim design saves space
- A drain pipe is not required
- The control box position can be changed to meet the installation conditions



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

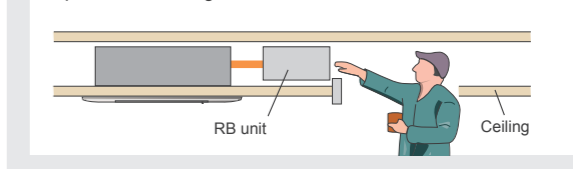


Easy to maintain in a narrow space



- 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)  AJYA72GALH UNIT : AJYA72GALH	28.0 kW (10HP)  AJYA90GALH UNIT : AJYA90GALH	33.5 kW (12HP)  AJY108GALH UNIT : AJY108GALH	40.0 kW (14HP)  AJY126GALH UNIT : AJY126GALH	45.0 kW (16HP)  AJY144GALH UNIT : AJY144GALH
50.4 kW (18HP)  AJY162GALH UNIT : AJYA90/A72GALH	56.0 kW (20HP)  AJY180GALH UNIT : AJYA90/A90GALH	61.5 kW (22HP)  AJY198GALH UNIT : AJY108/A90GALH	67.0 kW (24HP)  AJY216GALH UNIT : AJY108/108GALH	73.0 kW (26HP)  AJY234GALH UNIT : AJY144/A90GALH
78.5 kW (28HP)  AJY252GALH UNIT : AJY144/108GALH	85.0 kW (30HP)  AJY270GALH UNIT : AJY144/126GALH	90.0 kW (32HP)  AJY288GALH UNIT : AJY144/144GALH	95.0 kW (34HP)  AJY306GALH UNIT : AJY108/108/A90GALH	100.5 kW (36HP)  AJY324GALH UNIT : AJY108/108/108GALH
106.5 kW (38HP)  AJY342GALH UNIT : AJY144/108/A90GALH	112.0 kW (40HP)  AJY360GALH UNIT : AJY144/108/108GALH	118.0 kW (42HP)  AJY378GALH UNIT : AJY144/144/A90GALH	123.5 kW (44HP)  AJY396GALH UNIT : AJY144/144/108GALH	130.0 kW (46HP)  AJY414GALH UNIT : AJY144/144/126GALH
135.0 kW (48HP)  AJY432GALH UNIT : AJY144/144/144GALH				

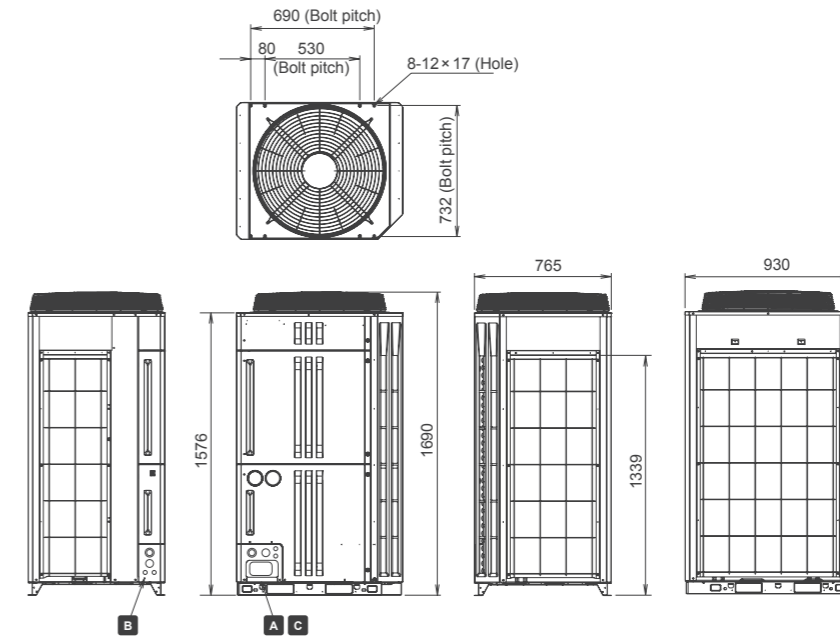
Energy efficiency combination

44.8 kW (16HP)  AJY144GALHH UNIT : AJYA72/A72GALH	62.4 kW (22HP)  AJY198GALHH UNIT : AJY126/A72GALH	67.2 kW (24HP)  AJY216GALHH UNIT : AJYA72/A72/A72GALH	72.8 kW (26HP)  AJY234GALHH UNIT : AJYA90/A72/A72GALH	78.4 kW (28HP)  AJY252GALHH UNIT : AJYA90/A90/A72GALH
84.0 kW (30HP)  AJY270GALHH UNIT : AJYA90/A90/A90GALH	90.4 kW (32HP)  AJY288GALHH UNIT : AJY126/A90/A72GALH	96.0 kW (34HP)  AJY306GALHH UNIT : AJY126/A90/A90GALH	102.4 kW (36HP)  AJY324GALHH UNIT : AJY126/126/A72GALH	108.0 kW (38HP)  AJY342GALHH UNIT : AJY126/126/A90GALH
113.0 kW (40HP)  AJY360GALHH UNIT : AJY144/126/A90GALH	120.0 kW (42HP)  AJY378GALHH UNIT : AJY126/126/126GALH	125.0 kW (44HP)  AJY396GALHH UNIT : AJY144/126/126GALH		

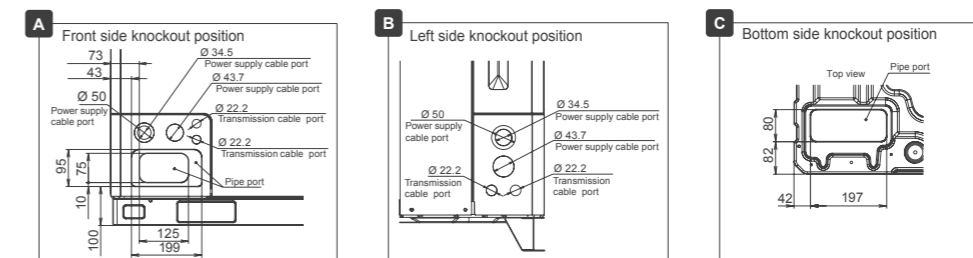
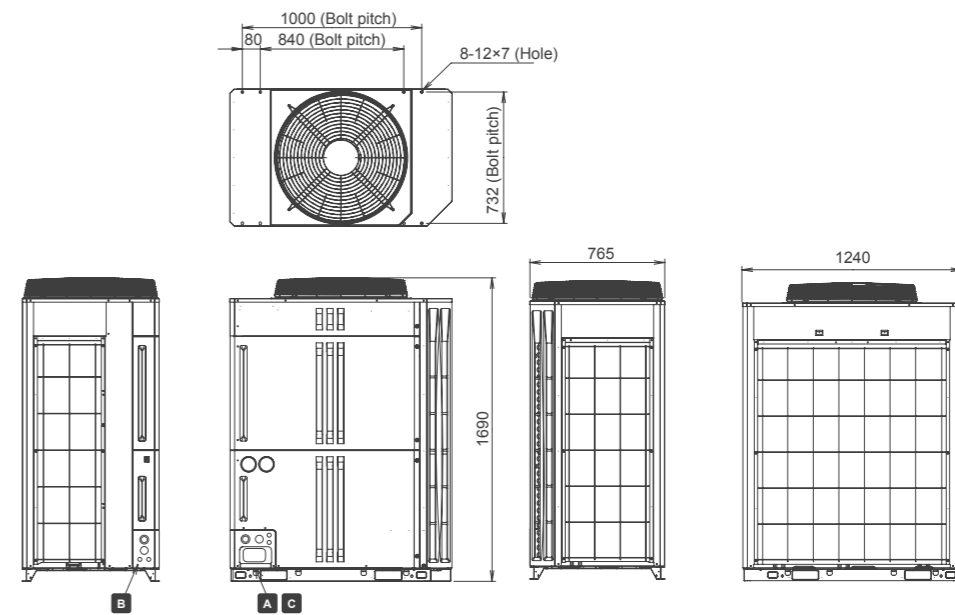
Dimensions

(Unit : mm)

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








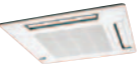



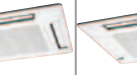





























































14,16HP : AJY126GALH / AJY144GALH



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	5.6	7.1	9.0	11.2	12.5	14.0	18.0	22.4	25.0		
Model code		4	7	9	12	14	18	24	30	36	45	54	60	72	90		
Cassette	Compact Cassette	 AUXB04GALH	 AUXB07GALH	 AUXB09GALH	 AUXB12GALH	 AUXB14GALH	 AUXB18GALH	 AUXB24GALH									
	Cassette						 AUXD18GALH	 AUXD24GALH	 AUXA30GALH	 AUXA36GALH	 AUXA45GALH	 AUXA54GALH					
Duct	Low Static Pressure Duct		 ARXB07GALH	 ARXB09GALH	 ARXB12GALH	 ARXB14GALH	 ARXB18GALH										
	Slim Duct (With drain pump)	 ARXD04GALH	 ARXD07GALH	 ARXD09GALH	 ARXD12GALH	 ARXD14GALH	 ARXD18GALH	 ARXD24GALH									
	Medium Static Pressure Duct							 ARXA24GBLH	 ARXA30GBLH	 ARXA36GBLH	 ARXA45GBLH						
	High Static Pressure Duct									 ARXC36GATH	 ARXC45GATH		 ARXC60GATH*	 ARXC72GATH*	 ARXC90GATH*		
Floor	Floor (*Same as Ceiling models)				 ABYA12GATH	 ABYA14GATH	 ABYA18GATH	 ABYA24GATH									
	Concealed Floor (*Same as Low Static Pressure Duct models)		 ARXB07GALH	 ARXB09GALH	 ARXB12GALH	 ARXB14GALH	 ARXB18GALH										
	Slim Concealed Floor (*Same as Slim Duct models)	 ARXD04GALH	 ARXD07GALH	 ARXD09GALH	 ARXD12GALH	 ARXD14GALH	 ARXD18GALH	 ARXD24GALH									
Ceiling	Ceiling				 ABYA12GATH	 ABYA14GATH	 ABYA18GATH	 ABYA24GATH	 ABYA30GATH	 ABYA36GATH	 ABYA45GATH	 ABYA54GATH					
Wall Mounted	Wall Mounted	 ASYA04GACH	 ASYA07GACH	 ASYA09GACH	 ASYA12GACH	 ASYA14GACH	 ASYA18GACH	 ASYA24GACH	 ASYA30GACH								
	Wall Mounted (EEV external)	 ASYE04GACH	 ASYE07GACH	 ASYE09GACH	 ASYE12GACH	 ASYE14GACH											

With this model, connection of EV kit is necessary.

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

Indoor Units Specifications

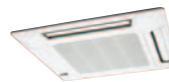
Compact Cassette



Model name		AUXB04GALH	AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH	AUXB18GALH	AUXB24GALH
Power source		230/1/50						
Capacity	Cooling	1.1	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	1.3	2.8	3.2	4.1	5.0	6.3	8.0
Input power		W						
Airflow rate	High	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	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						
Connection pipe diameter	Liquid (Flare)	ø6.35					ø9.52	
	Gas (Flare)	ø12.70					ø15.88	
	Drain hose	VP [ø25 (I.D.) ; ø32 (O.D.)]						
Cassette Model name	UTG-UFYC-W							
Grille Dimensions (H x W x D)	mm 50 x 700 x 700							
Grille Weight	kg 2.6							

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.

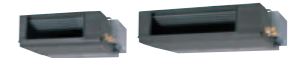
Cassette



Model name		AUXD18GALH	AUXD24GALH	AUXA30GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH
Power source		230/1/50					
Capacity	Cooling	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					
Airflow rate	High	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	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)	ø9.52					ø15.88
	Gas (Flare)	ø15.88					ø19.05
	Drain hose	VP25 [ø25 (I.D.) ; ø32 (O.D.)]					
Cassette Model name	UTG-UGYA-W						
Grille Dimensions (H x W x D)	mm 50 x 950 x 950						
Grille Weight	kg 5.5						

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		230/1/50				
Capacity	Cooling	2.2	2.8	3.6	4.5	5.6
	Heating	2.8	3.2	4.0	5.0	6.3
Input power		W				
Airflow rate	High	370	440	590	800	890
	Med	310	370	500	750	810
	Low	280	340	450	700	730
Static pressure range		Pa 0 to 50				
Standard static pressure		Pa 25				
Sound pressure level	High	29	31	30	33	36
	Med	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	
Connection pipe diameter	Liquid (Flare)	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.

Slim Duct / Slim Concealed Floor



Model name		ARXD04GALH	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH	ARXD18GALH	ARXD24GALH	
Power source		230/1/50							
Capacity	Cooling	1.1	2.2	2.8	3.6	4.5	5.6	7.1	
	Heating	1.3	2.8	3.2	4.0	5.0	6.3	8.0	
Input power		W							
Airflow rate	High	510	550	600	600	800	940	1,330	
	Med	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							
Standard static pressure		Pa 25							
Sound pressure level	High	26	28	29	30	34	34	35	
	Med	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
Connection pipe diameter	Liquid (Flare)	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. *1: This value is under cooling operation.

Medium Static Pressure Duct

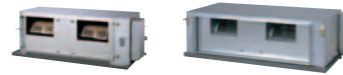


Model name		ARXA24GBLH	ARXA30GBLH	ARXA36GBLH	ARXA45GBLH
Power source		230/1/50			
Capacity	Cooling	7.1	9.0	11.2	12.5
	Heating	8.0	10.0	12.5	14.0
Input power		W			
Airflow rate	High	1,280	1,410	1,840	1,970
	Med	990	1,280	1,600	1,860
	Low	840	1,150	1,470	1,640
Static pressure range		Pa 0 to 150			
Standard static pressure		Pa 40			
Sound pressure level	High	31	34	37	41
	Med	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			
Connection pipe diameter	Liquid (Flare)	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.

Indoor Units Specifications

High Static Pressure Duct



Model name		ARXC36GATH	ARXC45GATH	ARXC60GATH*	ARXC72GATH*	ARXC90GATH*
Power source		230/1/50				
Capacity	Cooling	11.2	12.5	18.0	22.4	25.0
	Heating	12.5	14.0	20.0	25.0	28.0
Input power		405	715	730	1,110	1,250
Airflow rate	High	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		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	45	49	49	51	53
	Med	38	45	45	48	51
	Low	32	42	42	45	49
Dimensions (H x W x D)		400 x 1,050 x 500			450 x 1,550 x 700	
Weight		43	46	83	85	
Connection pipe diameter	Liquid (Flare)	ø9.52 (Flare)			ø12.70 (Brazing)	
	Gas (Flare)	ø19.05 (Flare)			ø22.22 (Brazing)	
	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.

Floor / Ceiling



Model name		ABYA12GATH	ABYA14GATH	ABYA18GATH	ABYA24GATH
Power source		230/1/50			
Capacity	Cooling	3.6	4.5	5.6	7.1
	Heating	4.0	5.0	6.3	8.0
Input power		30	42	74	99
Airflow rate	High	660	780	1,000	1,000
	Med	570	640	720	820
	Low	490	550	580	680
Sound pressure level	High	36	40	46	47
	Med	32	36	39	42
	Low	28	34	35	37
Dimensions (H x W x D)		199 x 990 x 655			
Weight		25	26	26	27
Connection pipe diameter	Liquid (Flare)	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].

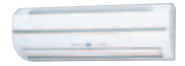
Ceiling



Model name		ABYA30GATH	ABYA36GATH	ABYA45GATH	ABYA54GATH
Power source		230/1/50			
Capacity	Cooling	9.0	11.2	12.5	14.0
	Heating	10.0	12.5	14.0	16.0
Input power		66	85	131	180
Airflow rate	High	1,630	1,690	2,010	2,270
	Med	1,370	1,400	1,600	1,780
	Low	1,140	1,170	1,230	1,280
Sound pressure level	High	42	45	48	51
	Med	38	38	42	45
	Low	33	34	35	36
Dimensions (H x W x D)		240 x 1,660 x 700			
Weight		46	48	48	
Connection pipe diameter	Liquid (Flare)	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		ASYA04GACH	ASYA07GACH	ASYA09GACH	ASYA12GACH	ASYA14GACH	ASYE04GACH	ASYE07GACH	ASYE09GACH	ASYE12GACH	ASYE14GACH
Power source		230/1/50									
Capacity	Cooling	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		13	17	18	22	34	12	15	16	21	34
Airflow rate	High	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	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)		275 x 790 x 215					275 x 790 x 215				
Weight		9					9				
Connection pipe diameter	Liquid (Flare)	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 UTR-EV14XB				

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

Wall Mounted



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

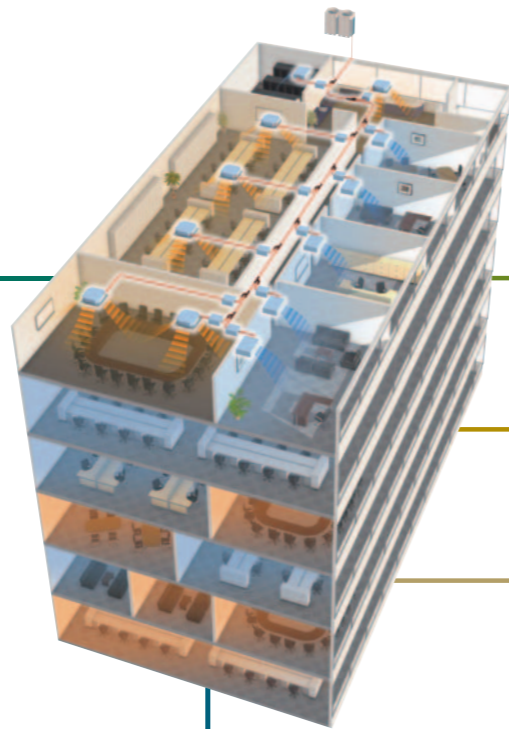
Note : Specifications are based on the following conditions. Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. Pipe length : 7.5 m; Height difference between outdoor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

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.



For All AIRSTAGE™ series



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

Service & Maintenance Tool

Web Monitoring System Software

UTY-AMGX

Service Tool Software

UTY-ASGX

Air Conditioning Centralized Control

System Controller Software

UTY-APGX
NEW UTY-ALGX (Lite edition)

Internet or Public Telephone Line

Remote/Monitoring side

Touch Panel Controller

UTY-DTGY

Central Remote Controller

UTY-DCGY

Group Remote Controller

UTY-CCGY

Converter / Adaptor (for external device)

- BACnet® Gateway Software**
UTY-ABGX
- Network Converter (BMS/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

BMS/BAS*1

BMS, Home automation system

Internet device

Converter / Adaptor (for system expansion)

Network Converter

UTY-VGGXZ1

Signal Amplifier

UTY-VSGXZ1

*1. BMS/BAS: Building Management System/Building Automation System
*2. USB Adaptor: Echelon® U10 USB Network Interface

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	—	—	—	—	—	—	●	●	●	
Display	Anti freeze setting	●	—	—	—	—	●	●	●	●	
	Economy mode setting	●	●	—	—	●	—	●	●	●	
	Failure	●	●	●	●	—	●	●	●	●	
	Defrosting	●	●	●	●	—	—	●	●	●	
	Current time	●	●	—	—	●	●	●	●	●	
	Day of week	●	●	—	—	—	—	●	●	●	
	R.C. prohibition	●	●	●	●	—	—	●	●	●	
	Cooling/heating priority	●	●	●	●	—	—	●	●	●	
	Address display	●	●	●	●	—	—	●	●	●	
	Room temp	●	—	—	—	—	—	—	—	—	
Timer	Multi language	●	—	—	—	—	—	●	●	●	
	Summer time	●	—	—	—	—	—	●	●	●	
	Name registration	●	—	—	—	—	—	●	●	●	
	Backlight	●	—	●	●	—	—	●	●	—	
	2D floor layout / 3D building display	—	—	—	—	—	—	—	—	●	
	Schedule timer	Period	Week	Week	—	—	—	Week	Week	Year	Year
		On/off, Temp, Mode, Times per day	8	4	—	—	—	4	20	20	144
	On/off timer	●	●	—	—	●	—	—	—	—	
	Sleep timer	—	—	—	—	●	—	—	—	—	
	Program timer	—	—	—	—	●	—	—	—	—	
Auto off timer	●	●	—	—	—	—	—	—	—		
Day off	●	●	—	—	—	—	●	●	●		
Min. unit of timer setting (Minutes)	10 • 30	30	30	30	5	10	10	10	10		
Control	Status monitoring system	—	—	—	—	—	—	●	●	●	
	Electricity charge apportionment	—	—	—	—	—	—	—	○	●	
	Error history	●	●	●	●	—	●	●	●	●	
	Emergency stop	—	—	—	—	—	—	●*2	●*2	—	
	Remote management	—	—	—	—	—	—	—	○	●	
	Energy saving management	—	—	—	—	—	—	—	○	○	
	E-mail notification for malfunction	—	—	—	—	—	—	—	●	●	
Key lock	●	●	—	—	—	●	●	●	●		
	Child lock	Child lock	—	—	—	Child lock	Password setting	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

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



Max. controllable
16
Indoor units

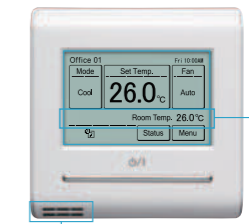
High performance and compact size

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.



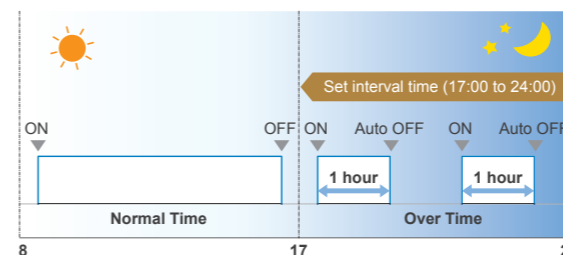
Room temperature sensor

Room temperature display

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

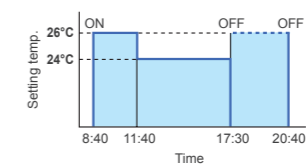


Ex.) At interval time hour (17:00 to 24:00) to prevent forgetting to turn off
Set off time : 1 hour

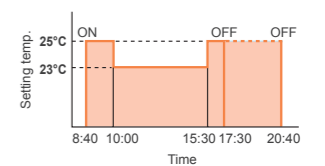
2 schedules Weekly Timer

- 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.

Max. controllable
16
Indoor units

NEW Wired Remote Controller : UTY-RLRY

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



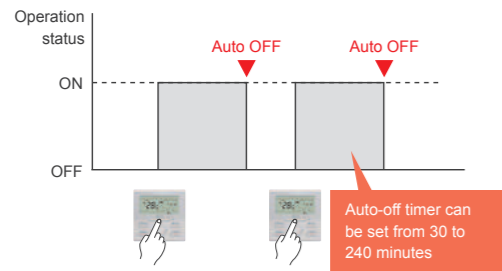
High performance and compact size

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



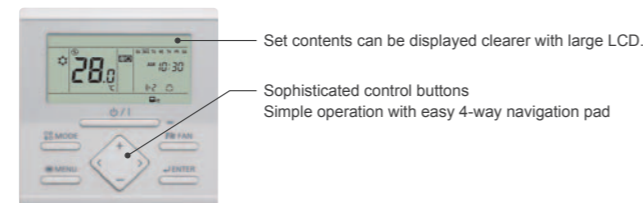
Auto-off timer

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



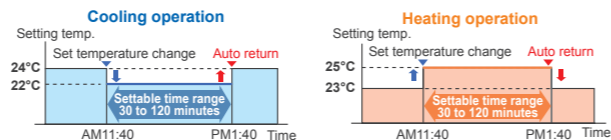
High visibility and easy operation

- "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.



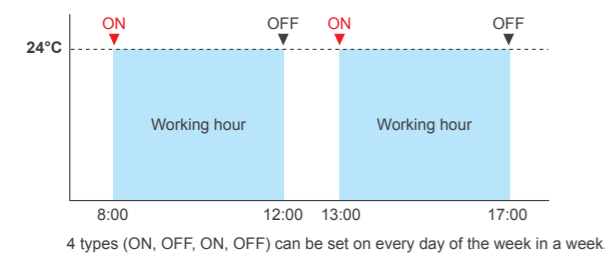
Set temperature auto return

- 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.



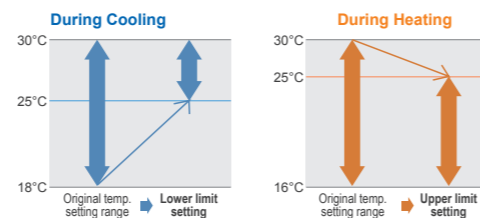
Weekly timer function

- 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 x W x D) (mm)	120 x 120 x 17
Weight (g)	170

* DC12V is supplied by indoor unit.

Simple Remote Controller :

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

Max. controllable
16
Indoor units

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



Without operation mode

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.

Simple installation

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



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.



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 recommend 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.

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.

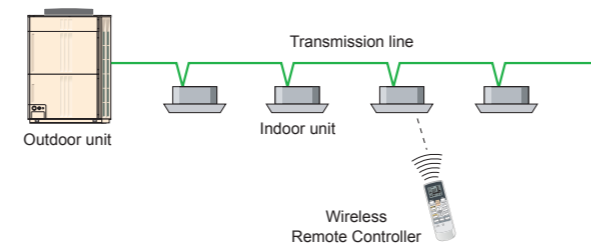
Easy installation and operation

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

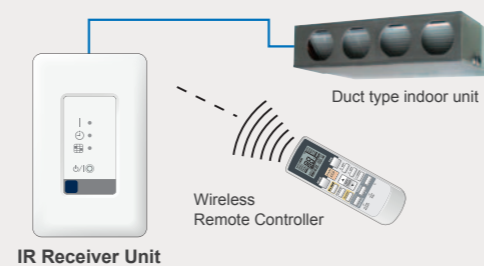
•Wide and precise transmitting range.

System addressing

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

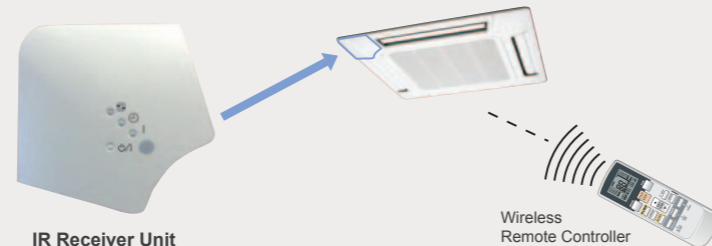


IR Receiver Unit : UTB-YWC



Necessary to control for all duct type by Wireless Remote Controller

IR Receiver Unit : UTY-LRHYB1



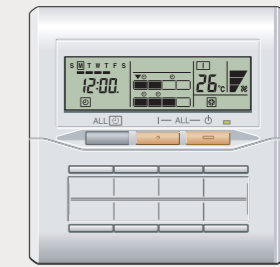
Cassette type indoor unit can be controlled with Wireless Remote Controller

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



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

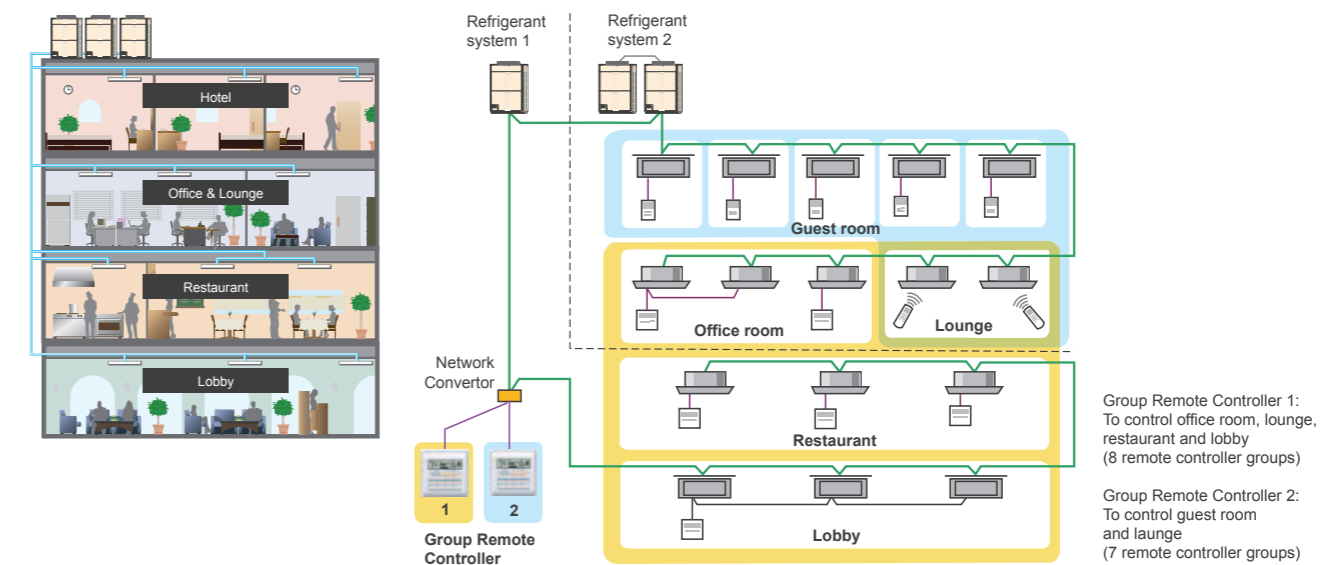
Max. controllable
8
remote
controller groups

Group control of indoor units with simple operation

- Up to 8 remote controller groups can be controlled by one Group Remote Controller.
- Up to 64 Group Remote Controllers can be connected in one VRF network system.
- Network Converter is required to connect Group Remote Controllers to a VRF network system. (Network Converter allows up to 4 Group Remote Controllers)
- 3-wire type

Control up to 8 remote controller groups

•Single Group Remote Controller controls and monitors up to 8 remote controller groups.



High performance and compact size

ON / OFF, Operating mode, Room temperature and Fan speed setting can be controlled / monitored centrally or individually.



Built-in weekly timers

The weekly timer is provided as a standard function.

1. The timer can be set up for up to 4 times per day. (On / Off, operating mode, set temperature)
2. 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.

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

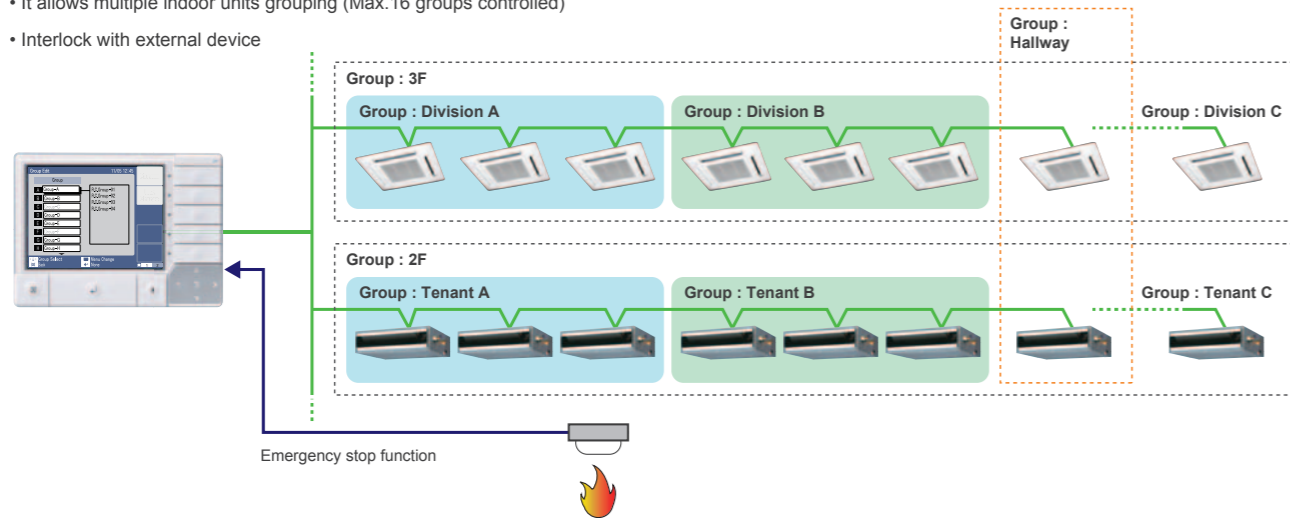


Max. controllable
100
Indoor units

Max. controllable
16
groups

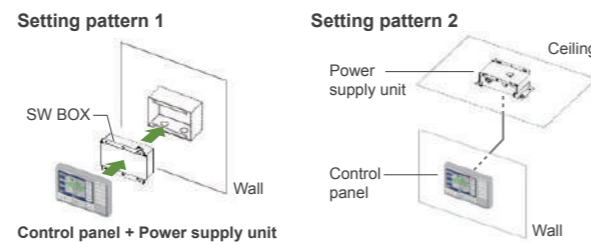
System overview

- 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
- Weekly timer
- Automatic clock adjustment
- 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.
--------------	--

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



Max. controllable
400
Indoor units

Easy operation

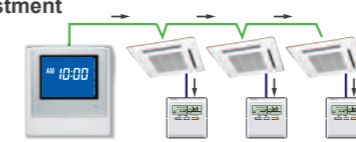
- Wide range of simple-to-understand icons
- Operation can be selected using your finger or the dedicated touch pen by pressing the appropriate on-screen icon
- Up-to-date status display
- Background color identifies current control operation blue for monitoring, green for operational control

Functions



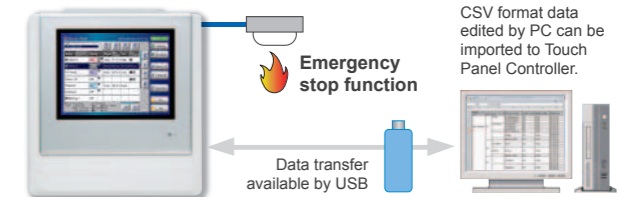
Automatic clock adjustment

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.



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.



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

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

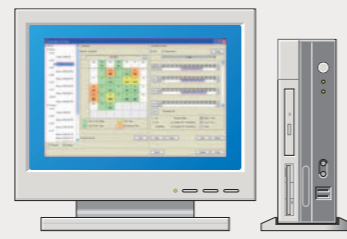
Max. controllable
400
outdoor units

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)



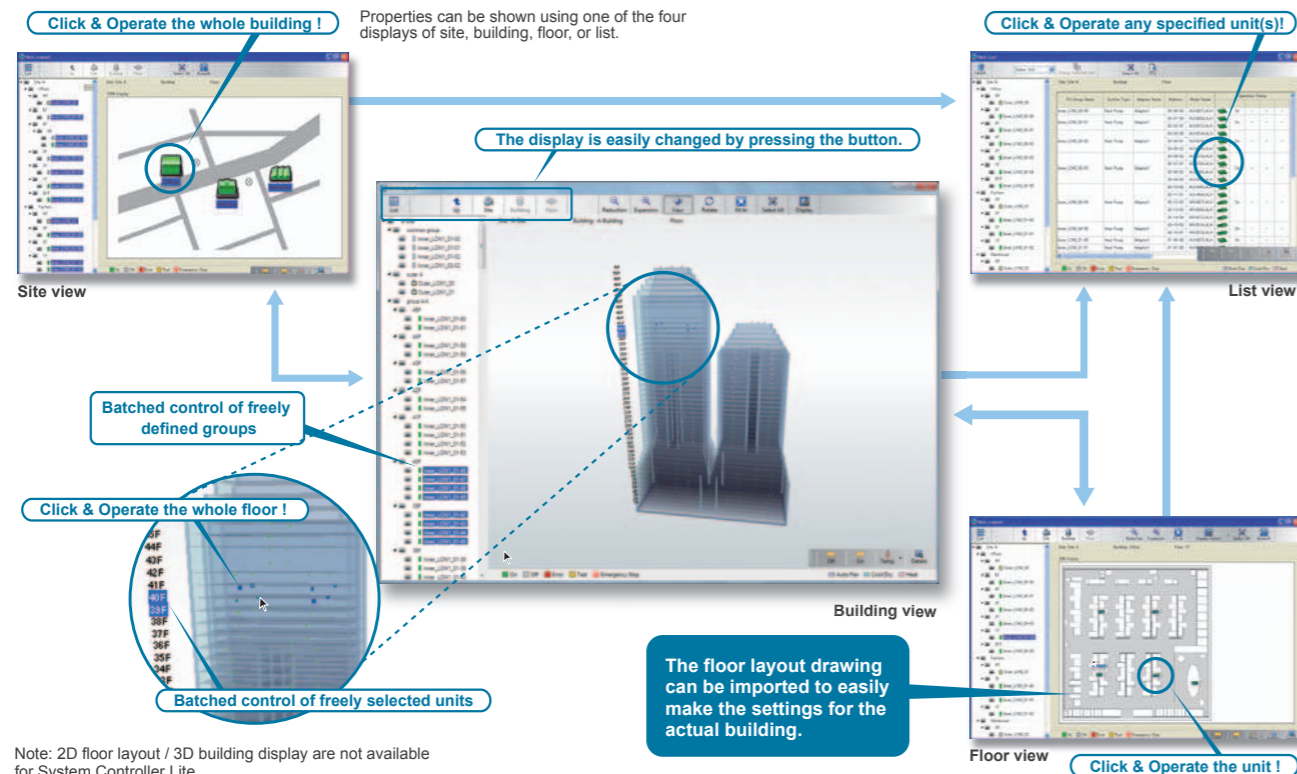
Max. controllable
1
VRF network systems

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



Note: 2D floor layout / 3D building display are not available for System Controller Lite.

Diverse operation management & Data management Standard for System Controller and System Controller Lite

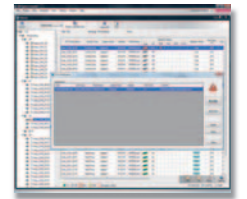
Schedule management

- 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.



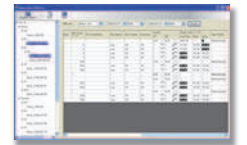
Error display & E-mail notification

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.



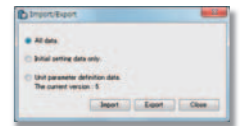
Diverse control of indoor unit

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



Data base import/export

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



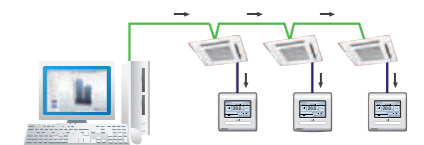
Remote controller prohibition

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



Automatic clock adjustment

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

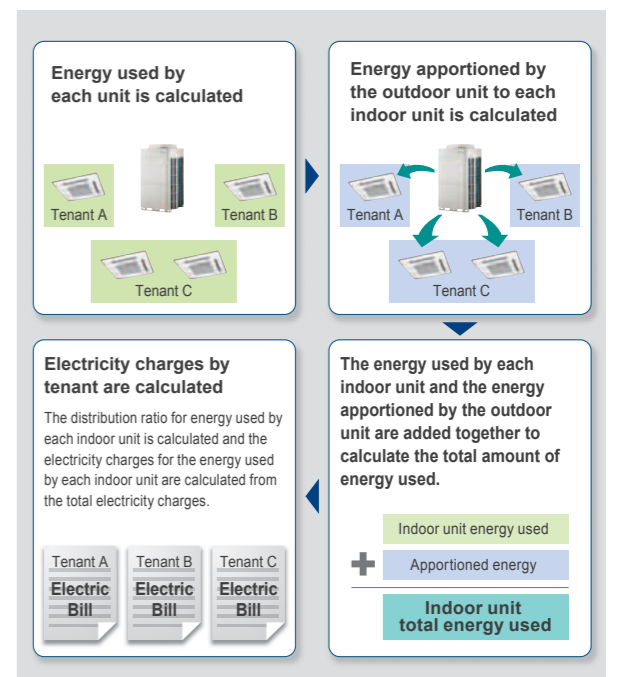
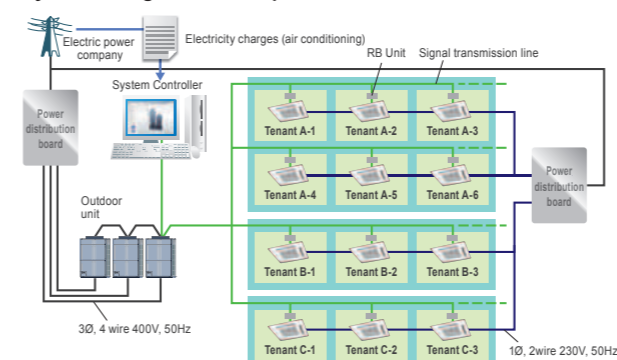


Electricity charge apportionment Standard for System Controller

Option for System Controller Lite UTY-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

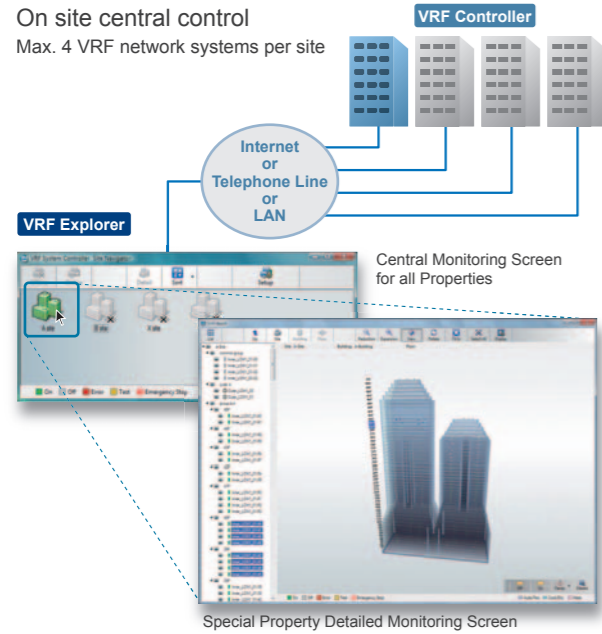


Remote management Standard for System Controller Option for System Controller Lite UTY-PLGXR1

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.

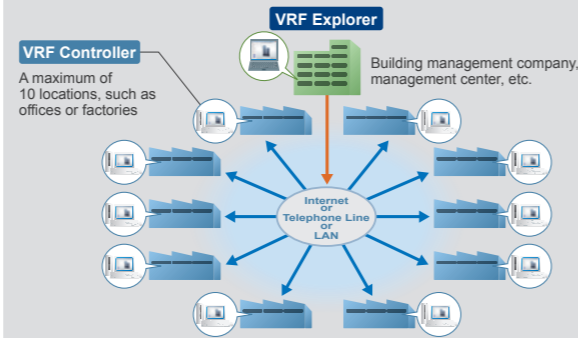
On site central control

Max. 4 VRF network systems per site

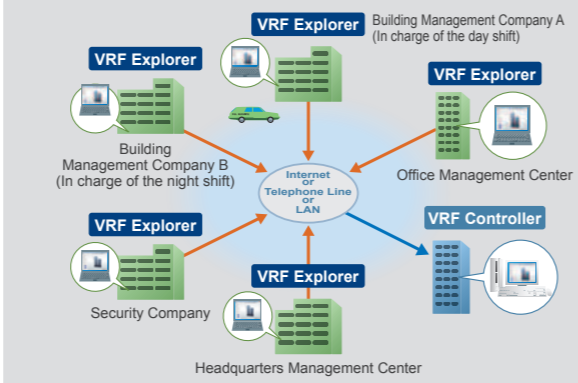


Remote central control

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

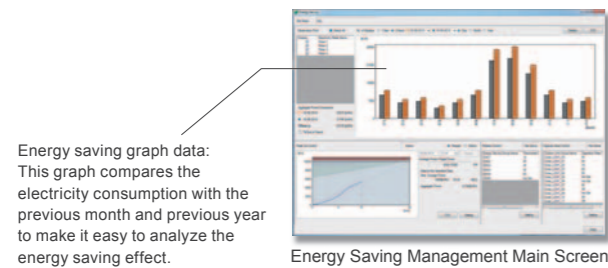


1 VRF Controller can be monitored from any number of VRF Explorers (Up to 5 connections simultaneously).



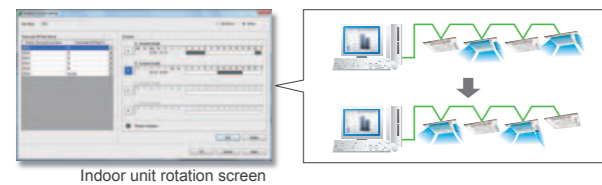
Energy saving management Option for System Controller UTY-PEGX Option for System Controller Lite UTY-PLGXE1

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.



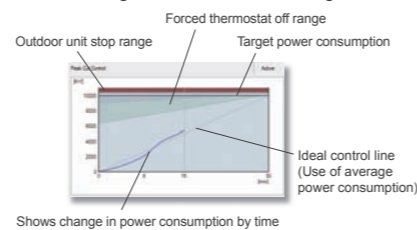
Indoor unit rotation operation

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.



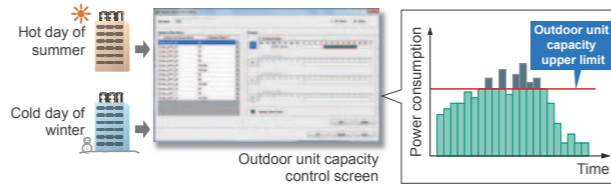
Peak cut operation

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	-	-	-	
Site supervision	Max. outdoor units per System controller	400	-	100	-	-	-	
	Multi site display	10	-	10	-	-	-	
	Number of building / 1 site	20	-	-	-	-	-	
	Number of floor per 1 site	200	-	-	-	-	-	
	Number of floor per 1 building	50	-	-	-	-	-	
	3D graphical layout view	○	-	○	-	-	-	
	2D graphical layout view	○	-	○	-	-	-	
	List display	○	-	○	-	-	-	
	Tree display	○	-	○	-	-	-	
	Group display	○	-	○	-	-	-	
	Error notification	○	-	○	-	-	-	
	Error management	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	○	-	○	-	-	
	Other	Temperature upper and lower limit setting	○	-	○	-	-	
		Filter sign reset	○	-	○	-	-	
	Schedule	Annual Schedule	Memory operation	○	-	○	-	-
			Pattern operation	○	-	○	-	-
Annual Schedule		○	-	○	-	-		
Special day setting		○	-	○	-	-		
On / off per day		72	-	72	-	-		
On / off per week		504	-	504	-	-		
Day off		○	-	○	-	-		
Min. unit of timer setting (Minutes)		10	-	10	-	-		
Low noise mode Weekly schedule		○	-	○	-	-		
Remote management		Remote monitoring	○	-	○	-	-	
	Remote operation control	○	-	○	-	-		
	Remote function setting	○	-	○	-	-		
Electricity charge apportionment	Apportionment charge/bill calculation	○	-	○	-	-		
	Tenant (block) setting	○	-	○	-	-		
	Common facilities apportionment setting	○	-	○	-	-		
	Rated power consumption allotment setting	○	-	○	-	-		
	Individual calculation at cooling and heating	-	○*	-	-	-		
Energy saving management	Electricity meter supported	-	○	-	○	-		
	Indoor unit rotation	-	○	-	○	-		
	Peak cut control	-	○	-	○	-		
	Outdoor unit capacity save	-	○	-	○	-		
	Record of energy saving operation	-	○	-	○	-		
	Energy saving information	-	○	-	○	-		
	Power consumption monitor	-	○	-	○	-		
Electricity meter supported	-	○	-	○	-			
Others	Database import/export	○	-	○	-	-		
	Automatic clock adjustment	○	-	○	-	-		
	Multi language	7 languages	-	7 languages	-	-		

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

○ : Available. - : Not available.

Personal computer system requirements

	System Controller	System Controller Lite
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) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish	
CPU	Intel® Core™ i3 2 GHz or higher	
Memory	• 2 GB or more (for Windows Vista® and Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8, and Windows® 8.1)	
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 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 2 USB ports are required for WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB port depends on the applicable system configuration. 	<ul style="list-style-type: none"> Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) •USB ports (Maximum of 5 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 4 USB ports are required for WibuKey connection - 1 USB port is required for Echelon® U10 USB Network Interface * The maximum number of required USB port depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	
Software	Adobe® Reader® 9.0 or later	
Optical drive	DVD-ROM drive	

*Personal computer that satisfies the following system requirements

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

PACKING LIST

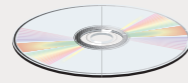
Type	For System controller			For System controller Lite		
	System Controller	Option Energy manager	System Controller Lite	Option Remote access	Option Electricity charge apportionment	Option Energy saving
Model name	UTY-APGX	UTY-PEGX	UTY-ALGX	UTY-PLGXR1	UTY-PLGXA1	UTY-PLGXE1
DVD-ROM	1	1	1	-	-	-
WibuKey*1 (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.

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



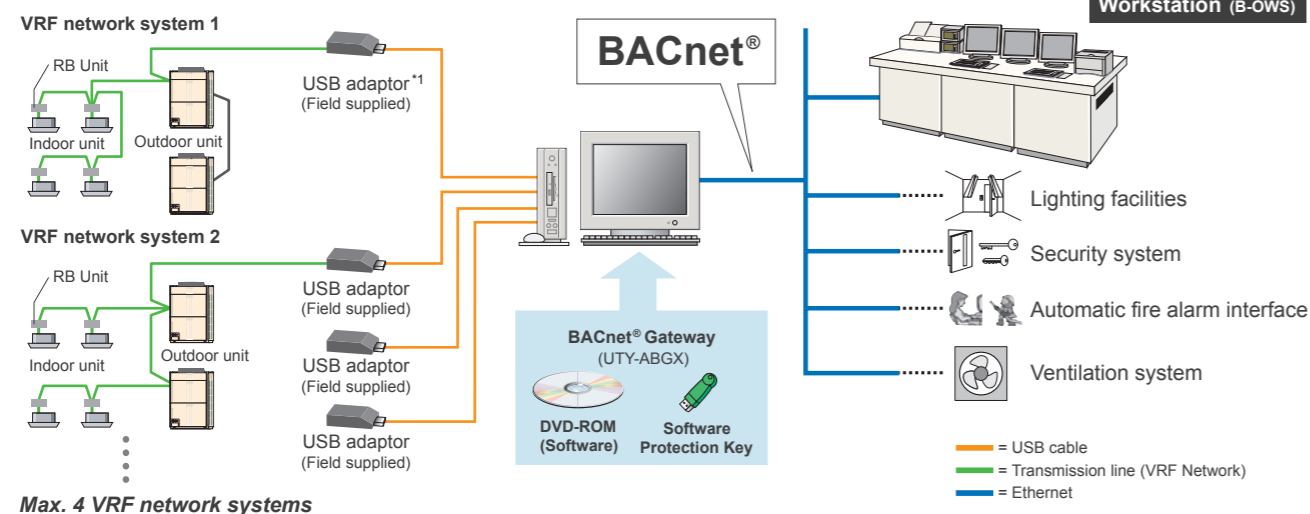
BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to requirements of ASHRAE Standard 135 is the responsibility of the BACnet International. BTL is a registered trademark of the BACnet International.

Max. controllable
4
VRF network systems

Max. controllable
400
outdoor units

Max. controllable
1,600
indoor units

Installation example



Max. 4 VRF network systems

*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) 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) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher
Memory	<ul style="list-style-type: none"> • 2 GB or more (for Windows Vista® and Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8, and Windows® 8.1)
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 * Maximum number of required USB ports depends on the applicable system configurations.
Software	Adobe® Reader® 9.0 or later
Optical drive	DVD-ROM drive

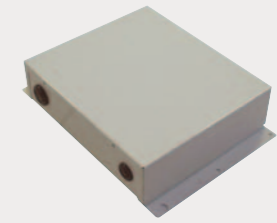
<Packing list>

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 that satisfies the following system requirements
 • Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

Network Converter for LONWORKS® : UTY-VLGX

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



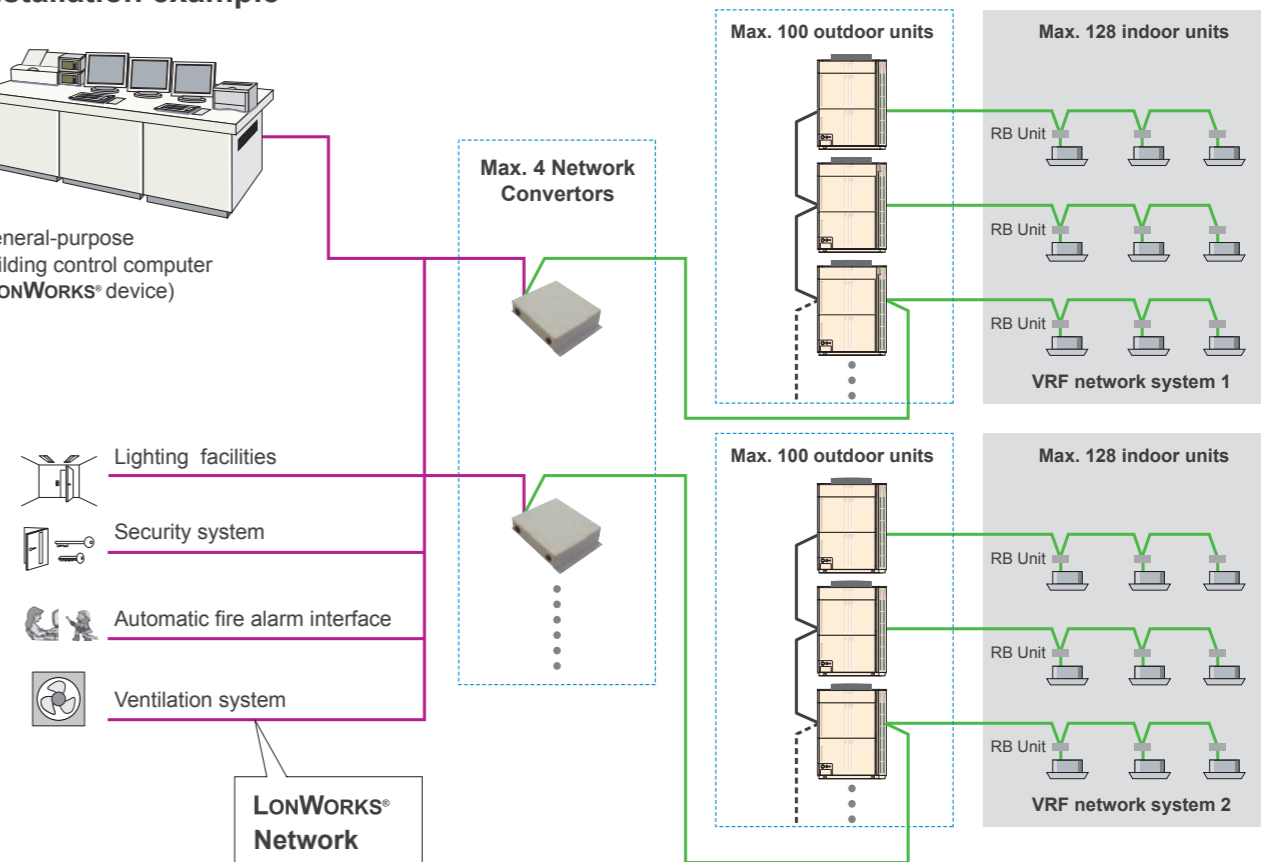
Max. controllable
4
units to BMS

Max. controllable
128
indoor units

Installation example



General-purpose building control computer (LONWORKS® device)



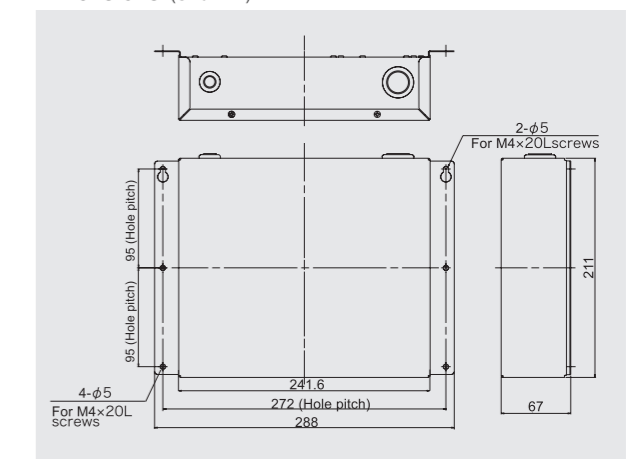
Specifications

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.)

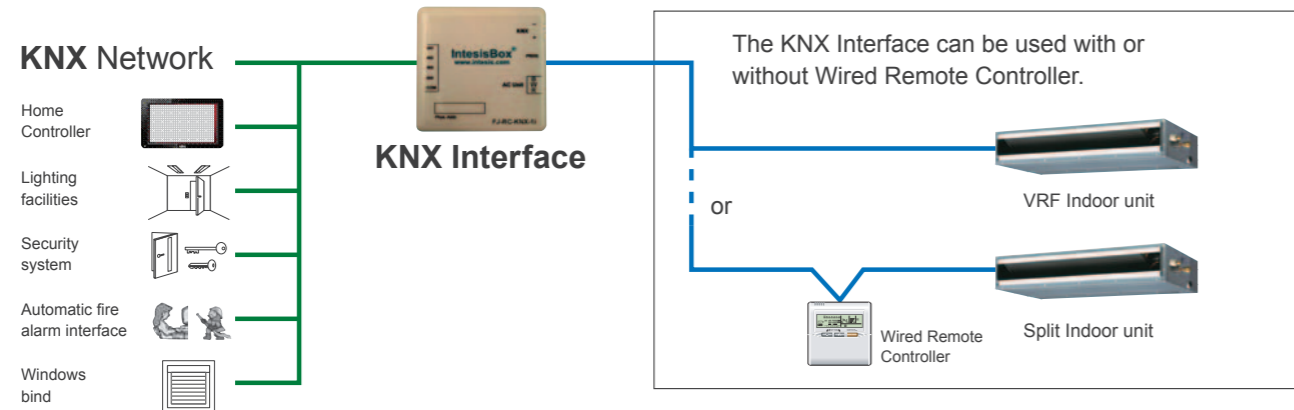
Dimensions (Unit : mm)



KNX® Interface : FJ-RC-KNX-1i

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

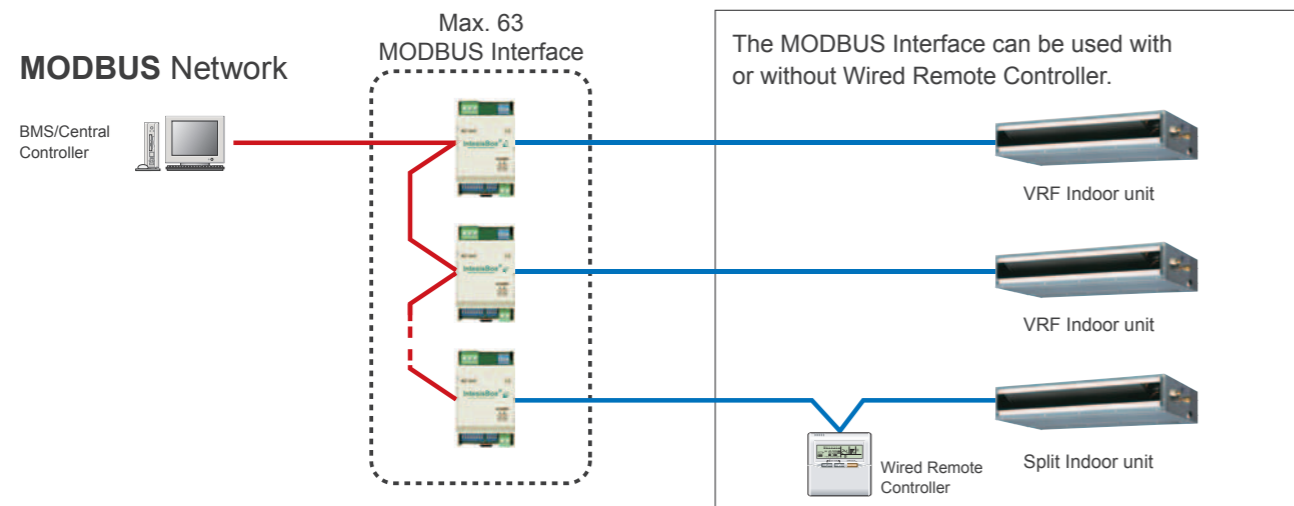
- Simple installation due to small and compact size.
- No separate external power supply required (just KNX bus power).
- Can be used for single indoor units and group controlled (up to 16) indoor units.



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

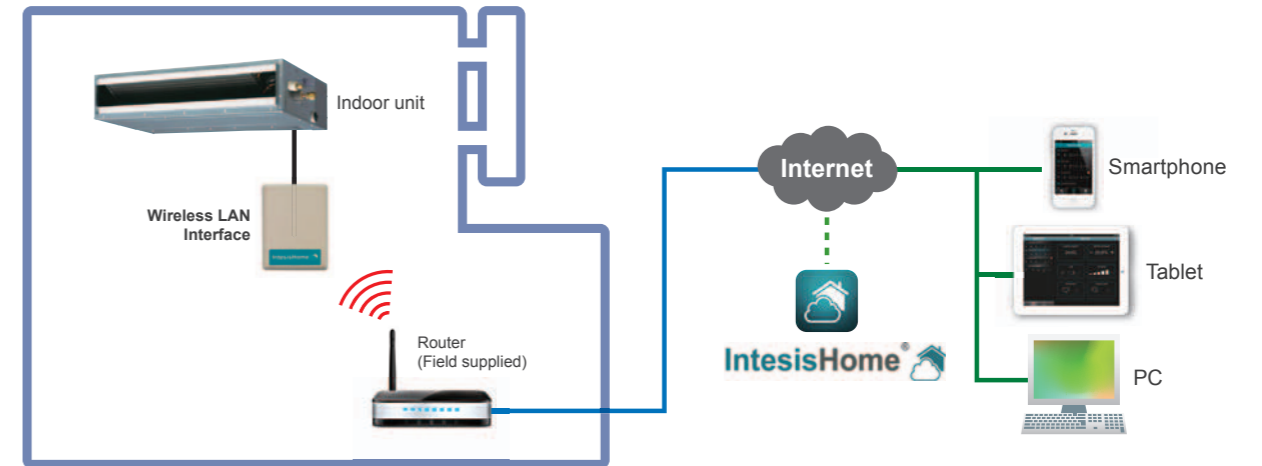
Model name	FJ-RC-MBS-1
Dimensions (H x W x D) (mm)	93×53×58
Weight (g)	85

Model name	FJ-RC-KNX-1i
Dimensions (H x W x D) (mm)	70×70×28
Weight (g)	70

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



- It is the most advanced solution to remotely manage an Air Conditioning system using all sort of mobile devices such as Smartphones, Tablets and PC
- No separate external power supply required
- Can be used for single indoor units and group controlled (up to 16) indoor units



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)

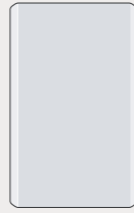
Specifications

Model name	FJ-RC-WIFI-1
Dimensions (H x W x D) (mm)	70×108×28
Weight (g)	80

External Switch Controller : UTY-TEKX

Air conditioner switching can be controlled by connecting other sensor switches

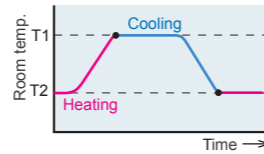
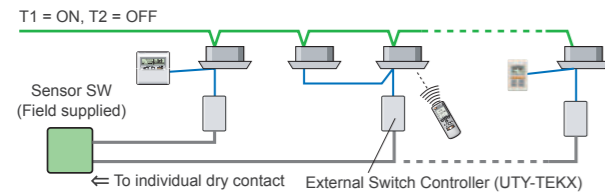
- In combination with a field supply Card-Key Switch or other sensor, the External Switch Controller allows control of the ON / OFF, Room temperature, Fan speed and Master control functions. This makes this product suitable for installations such as hotel rooms.
- Card-key or other sensor switches are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



Installation example

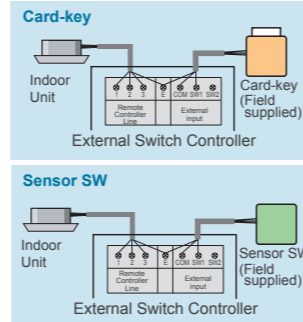
Auto mode operation, which switches the cooling and the heating automatically, is enabled by using the sensor switch and External Switch Controller.

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



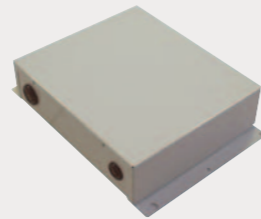
- Note 1. Please choose a thermosensor switch which can be set up for T1 and T2.
- Note 2. The remote controller's operation is prior to the auto mode operation.

Electrical wiring

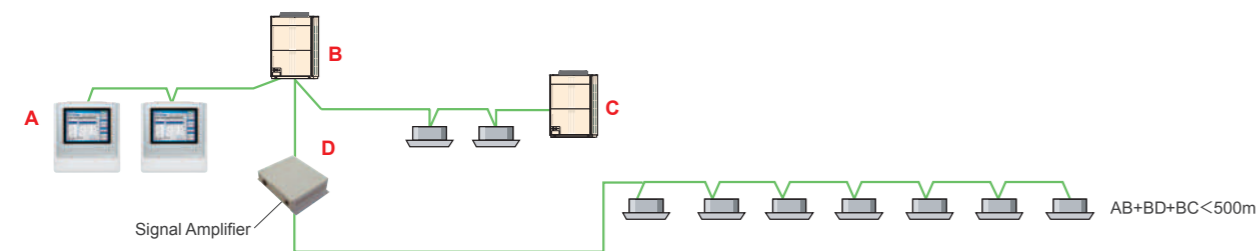


Signal Amplifier : UTY-VSGXZ1

- 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,
 - (1) When the total wiring length of the transmission line exceeds 500m.
 - (2) When the total number of units on the transmission line exceeds 64.



Installation example



Specifications

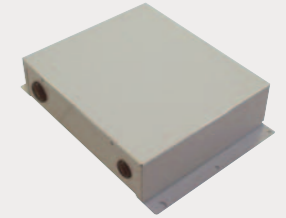
Model name	UTY-TEKX
Power Supply	DC 12V
Dimensions (H x W x D) (mm)	120 x 75 x 30
Weight (g)	100

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

Network Converter : UTY-VGGXZ1

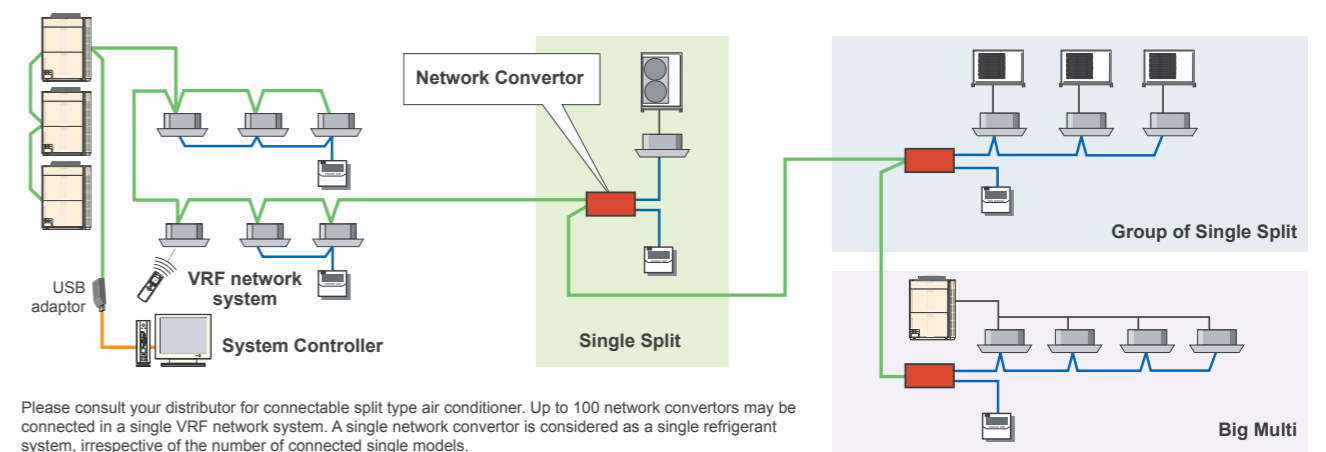
Max. controllable
16
Network
Converter units



- This network converter 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

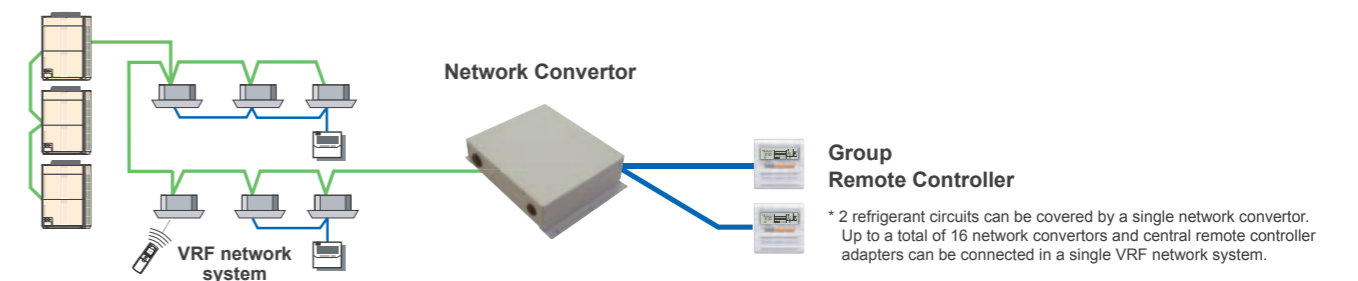
- Split type systems can be controlled from a central remote controller or PC controller through connection to the VRF's network converter.
- Standard remote controller and central remote controller provide On / Off control, master control, temperature and fan control, etc.
- A single network converter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



Please consult your distributor for connectable split type air conditioner. Up to 100 network converters may be connected in a single VRF network system. A single network converter is considered as a single refrigerant system, irrespective of the number of connected single models.

Used for connecting Group Remote Controller

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



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 Tool : UTY-ASGX Software

Extensive monitoring and analysis functions for installation and maintenance

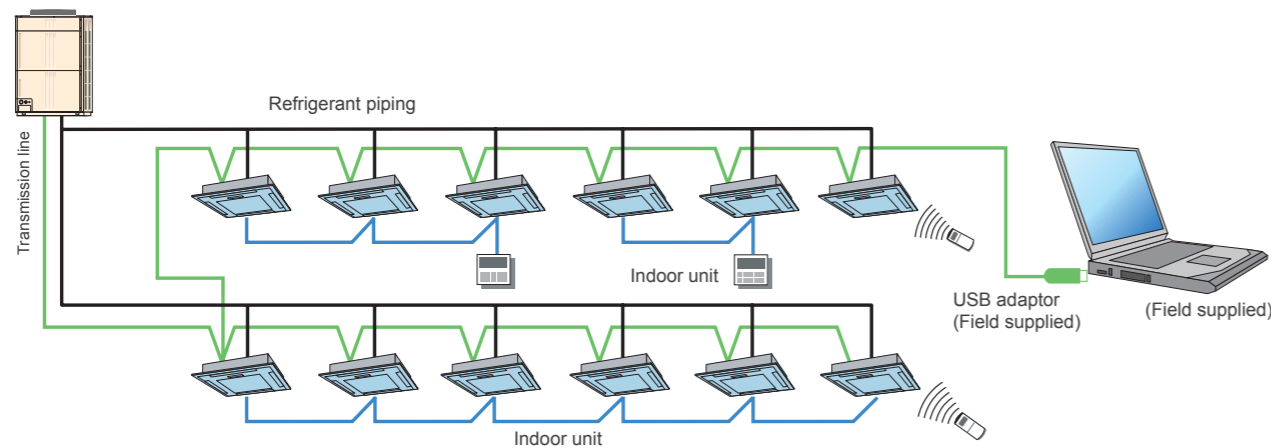
- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
-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



Max. Monitor and control
400
indoor units

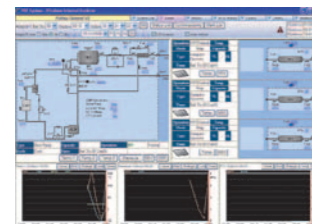
Max. Monitor and control
100
outdoor units

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"> • 1 GB or more (for Windows Vista®, Windows® 7 [32-bit], and Windows® 8 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit] and Windows® 8 [64-bit])
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 - 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 that satisfies the following system requirements
- Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

Web Monitoring Tool : UTY-AMGX Software

Product features

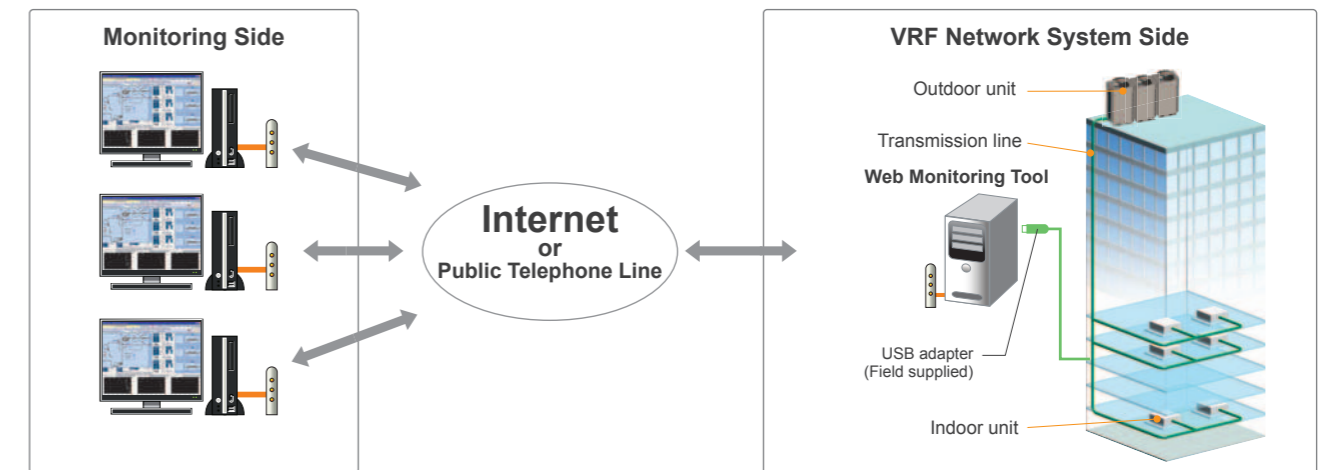
- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet*1.
- Requires either a dedicated internet connection or public telephone line.
- Determination 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.

VRF network system can be supported
4

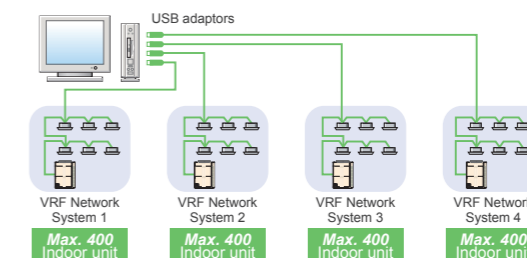
1,600
indoor units can be supported

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"> • 1 GB or more (for Windows Vista®, Windows® 7 [32-bit], and Windows® 8 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit] and Windows® 8 [64-bit])
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) - 1 USB port is required for WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB ports depends on the applicable system configurations.
Software	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 that satisfies the following system requirements
- Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)



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.

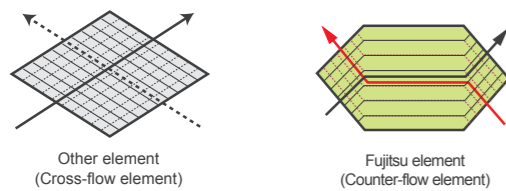
High Efficiency

Energy efficiency and ecology

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.

20%
Energy saving

Features of heat exchange element



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

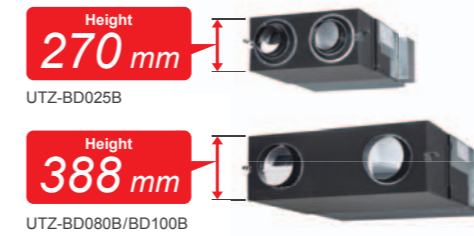
An external static pressure is improved by adopting a powerful fan motor. This allows for application in a wide variety building.

Features

Easy Installation and Maintenance

Slim shape and easier installation

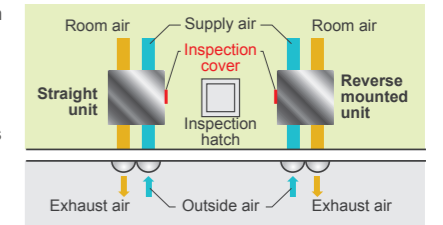
Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.



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.



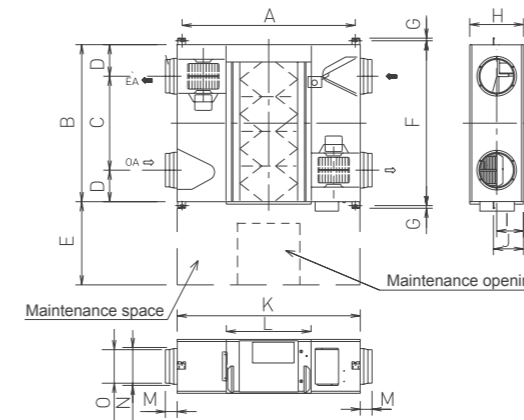
Specifications

Rated flow rate		250 m ³ /h		350 m ³ /h		500 m ³ /h		800 m ³ /h		1000 m ³ /h	
Model No.		UTZ-BD025B		UTZ-BD035B		UTZ-BD050B		UTZ-BD080B		UTZ-BD100B	
Power source		220 - 240V, 50Hz									
Heat Exchange Ventilation	Input power	(Extra high)/High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311			
	Air flow rate	(Extra high)/High/Low	m ³ /h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	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			
Normal Ventilation	Energy Exchange Efficiency Heat pump	(Extra high)/High/Low	%	70 / 70 / 72	69 / 69 / 73	67 / 67 / 69	71 / 71 / 74	71 / 71 / 76			
	Sound pressure level	(Extra high)/High/Low	dB*	31.5 / 30.5 / 26.5	33 / 31 / 25.5	37.5 / 35.5 / 32.5	37.5 / 37 / 34.5	38.5 / 37.5 / 34.5			
	Input power	(Extra high)/High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311			
	Air flow rate	(Extra high)/High/Low	m ³ /h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	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			
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	40.5 / 39.5 / 36.5				
Dimensions	W×D×H	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

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.

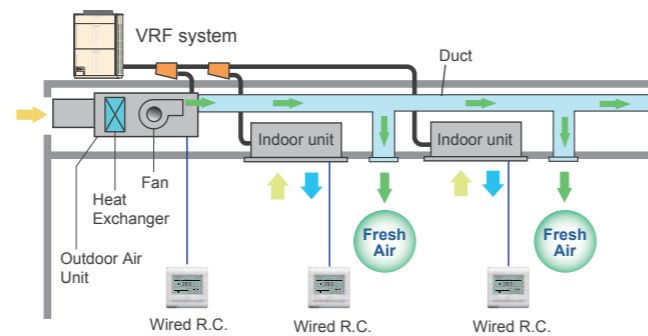
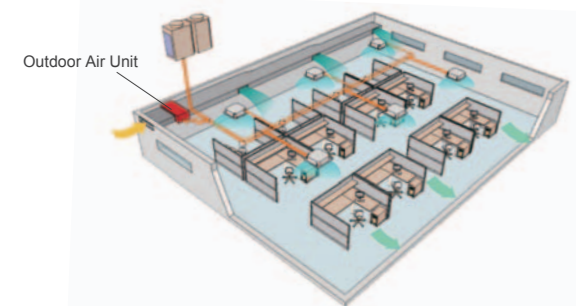


Features

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.

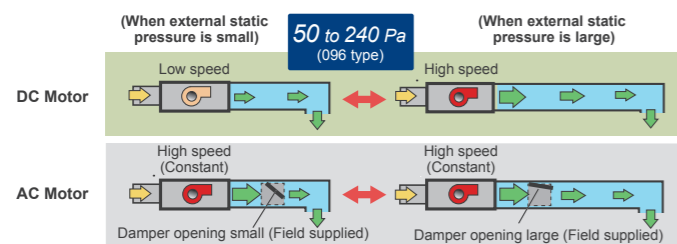
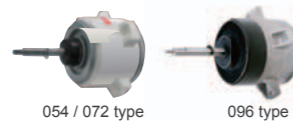
*1. Connectable VRF series: J-IIS, J-II, V-II, VR-II
In J-II series alone, OAU is prohibit to connect under the ambient temperature of 40°C or higher.



* 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.

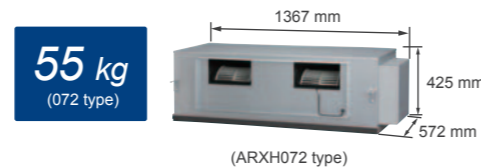
High energy savings and flexible duct design by using DC motor

- 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.

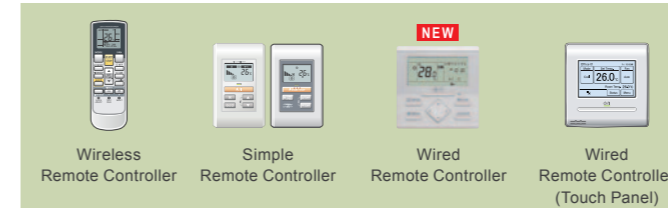


Features

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

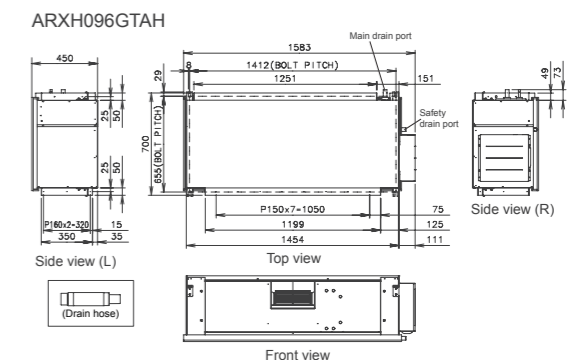
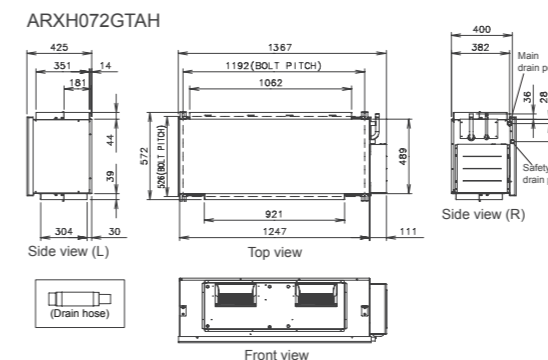
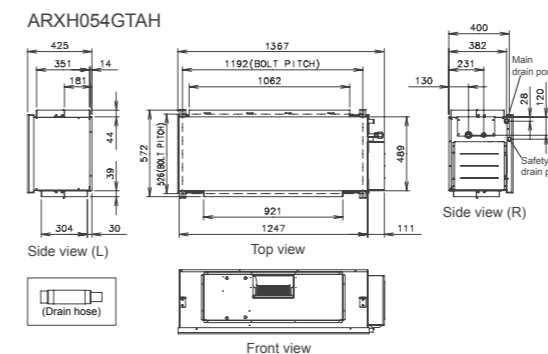
(Tentative)

Model name			ARXH054GTAH	ARXH072GTAH	ARXH096GTAH
Power Source	V/∅/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		m ³ /h	1,080	1,680	2,100
Static Pressure	Standard (range)	Pa	185 (50-185)	200 (50-200)	200 (50-240)
Sound Pressure Level		dB (A)	42	44	47
Dimensions (H x W x D)		mm	425×1,367×572	425×1,367×572	450×1,583×700
Weight		kg	48	55	71
Connection Pipe Diameter (Small / Large)		mm	∅9.52/∅19.05	∅12.70/∅22.22	∅12.70/∅22.22
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. Heating : Outdoor temperature of 0°CDB / -2.9°CWB. Pipe length : 7.5 m Voltage : 230 [V].

Dimensions Models : ARXH054GTAH/ARXH072GTAH/ARXH096GTAH

(Unit : mm)



NEW Control unit : UTY-VDGX

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

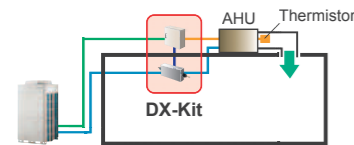
Future Release

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.

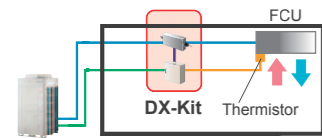


Features

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

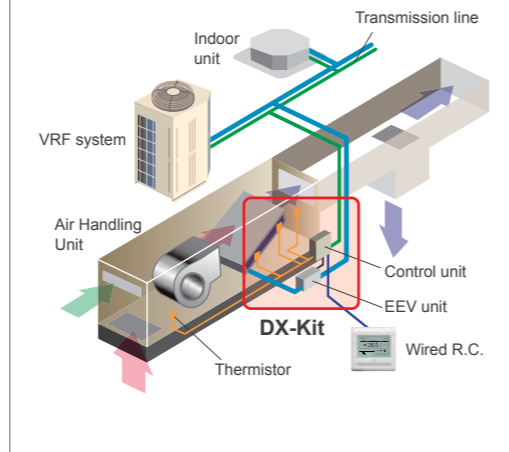


In case of connecting the air handling unit, the supply air temperature is controlled optimally by the discharge temperature control.



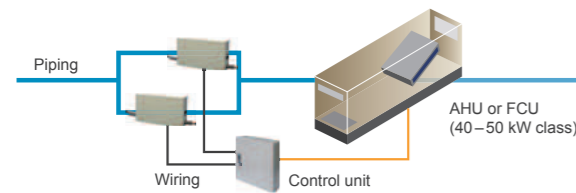
In case of connecting the fan coil unit, the room temperature is controlled optimally by the intake temperature control.

Product's image



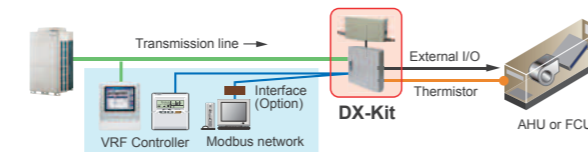
Supports a wide range of capacity classes

- 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

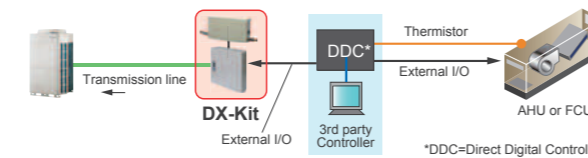


A variety of controls to match the application

- Central control using our VRF controllers or central management controllers



- Central control from external controllers



Features

Functions Summary

Inputs

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

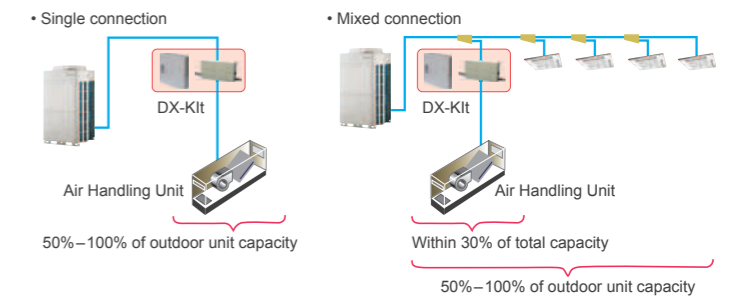
Outputs

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

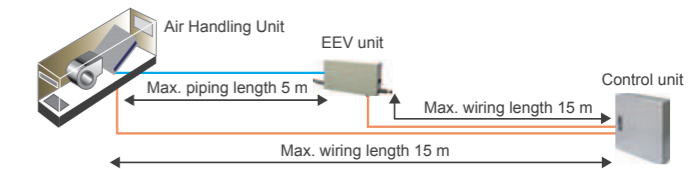
Installation Limitation

- 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



Piping and wiring length



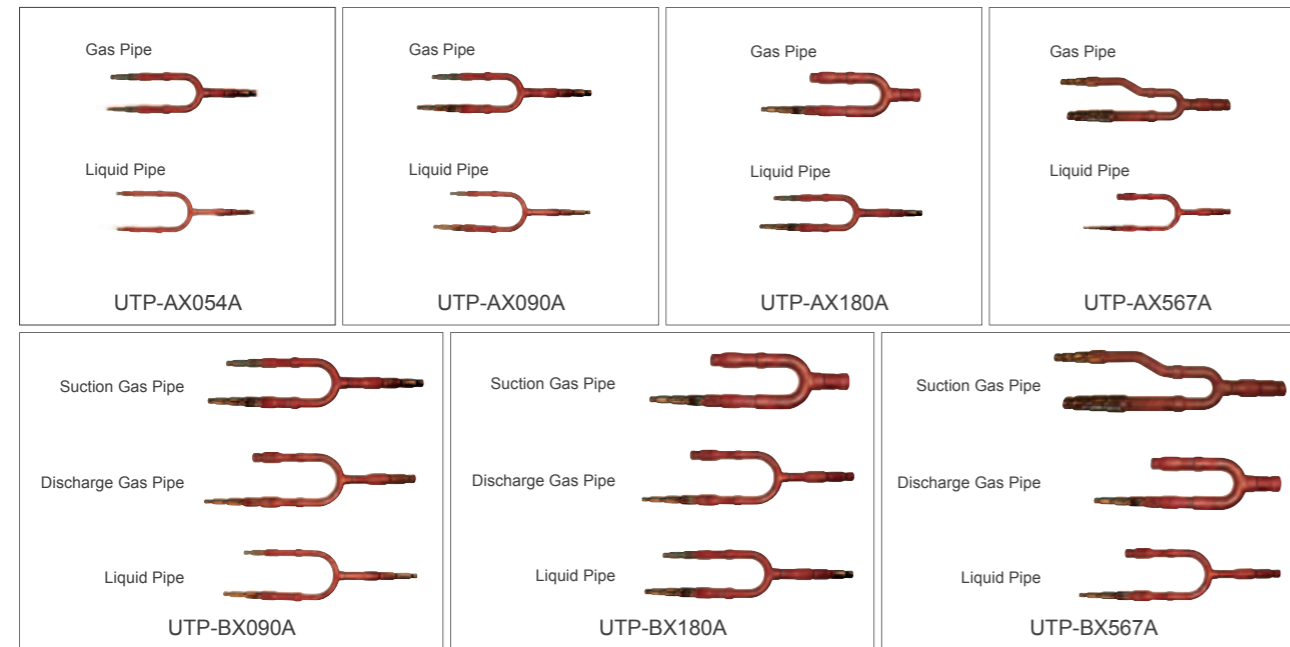
Specifications

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	5.6	6.3	8.0	10.0	12.5	14.0	22.4	25.0	40.0	50.4
	Heating	6.3	7.1	9.0	11.2	14.0	16.0	25.0	28.0	45.0	56.5
Control unit		UTY-VDGX									
Power source	V/∅/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	∅9.53	∅12.7	∅12.7	∅12.7						
Dimensions (H × W × D)	mm	-									

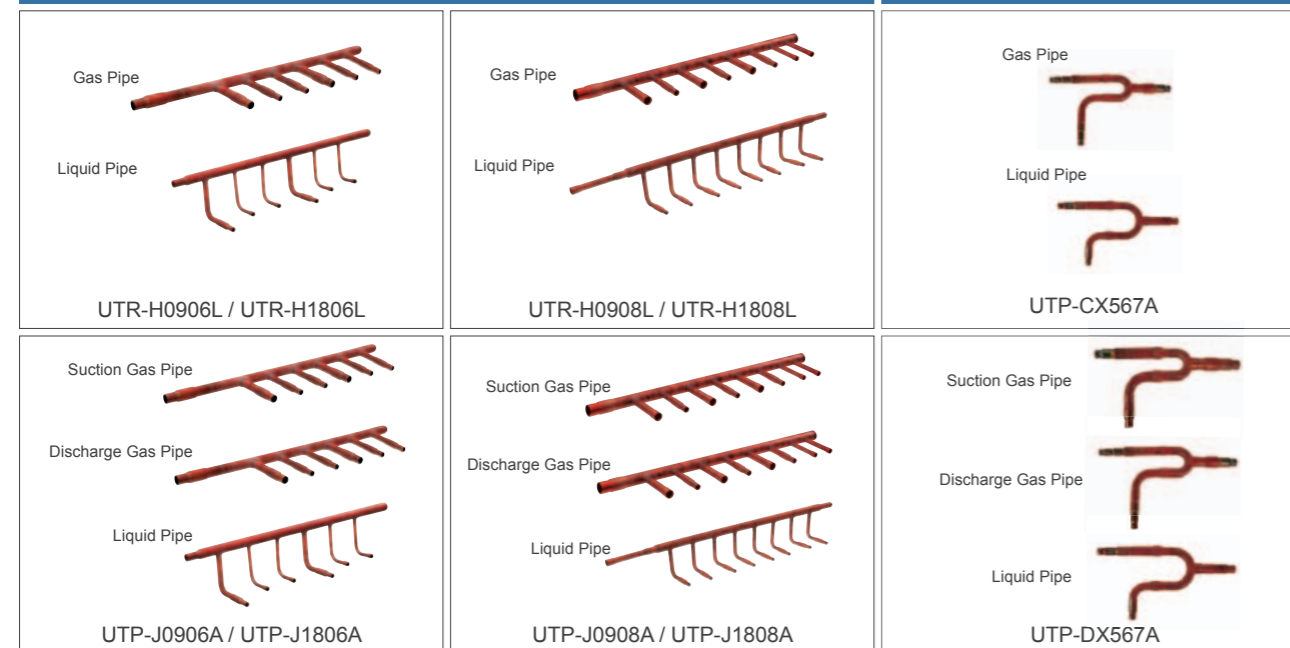
*Data were not available at time of production.
 Note : Specifications are based on the following conditions.
 Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
 Pipe length : 7.5 m Voltage : 230 [V].

Connection Units

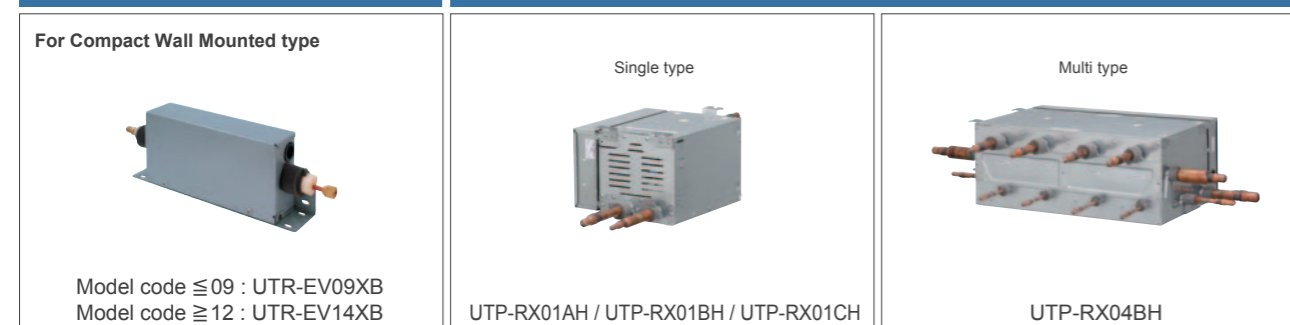
Separation Tube



Header



EV Kit



Specifications

Separation Tube

Model name	UTP-AX054A (for J-IIS 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







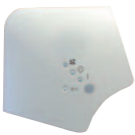
RB Unit

Type	Single type			Multi type
Model name	UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH
Power source	V/∅/Hz 230/1/50			
Input power	W 17	24	31	96
Number of branches	1	1	1	4
Maximum capacity of connectable indoor units (Q)	kW $Q \geq 8.0$	$Q \leq 18.0$	$Q \leq 28.0$	$Q \leq 56.0 *1$
Maximum capacity of connectable indoor units per branch (Q)	kW $Q \geq 8.0$	$Q \leq 18.0$	$Q \leq 28.0$	$Q \leq 18.0$
Maximum number of connectable indoor units per branch	3	8	8	8
Dimensions (H×W×D)	mm 198×298×268			260×658×428






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

Controllers

For Individual Control

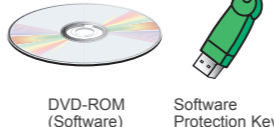
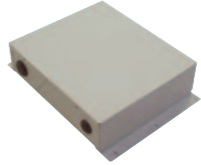




<p>Wired Remote Controller (Touch Panel) UTY-RNRY</p> 	<p>Wired Remote Controller NEW UTY-RLRY</p> 	<p>Simple Remote Controller UTY-RSKY With operation mode</p> 
<p>Simple Remote Controller UTY-RHKY Without operation mode</p> 	<p>Wireless Remote Controller UTY-LNHY</p> 	<p>IR Receiver Unit UTB-YWC For All Duct type</p> 
<p>IR Receiver Unit UTY-LRHYB1 For Cassette type</p> 		

For Centralized Control

<p>Group Remote Controller UTY-CGGY</p> 	<p>Central Remote Controller UTY-DCGY</p> 	<p>Touch Panel Controller UTY-DTGY</p> 
<p>System Controller Lite Software NEW UTY-ALGX</p> 		
<p>System Controller Software UTY-APGX</p> 		

Convertors / Adaptors

For External device


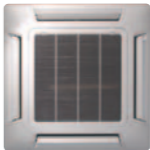
<p>BACnet® Gateway Software UTY-ABGX</p> 	<p>Network Converter for LonWorks® UTY-VLGX</p> 	<p>KNX® Interface FJ-RC-KNX-1i</p> 
<p>MODBUS® Interface FJ-RC-MBS-1</p> 	<p>Wireless LAN Interface NEW FJ-RC-WIFI-1</p> 	<p>External Switch Controller UTY-TEKX</p> 

For System expansion

<p>Network Converter UTY-VGGXZ1</p> 	<p>Signal Amplifier UTY-VSGXZ1</p> 
--	---

Panels

For Cassette type

<p>Cassette Grille UTG-UFYC-W For Compact Cassette type</p> 	<p>Cassette Grille UTG-UGYA-W For Cassette type</p> 
--	--

Others

Communication system: External Connect Kit

<p>For Indoor unit</p> <p>UTY-XWZXZ7 </p> <p>UTY-XWZXZB </p> <p>UTY-XWZXZC </p>	<p>UTY-XWZXZD </p> <p>UTY-XWZXZE </p>	<p>For Outdoor unit</p> <p>UTY-XWZXZ6 </p> <p>UTY-XWZXZ9 </p> <p>UTY-XWZXZF </p>
<p>For RB unit</p> <p>UTY-XWZXZ6 </p> <p>UTY-XWZXZB </p>	<p>For Central Remote Controller</p> <p>UTY-XWZXZ7 </p> <p>UTY-XWZXZ8 </p> <p>UTY-XWZXZA </p>	<p>For Touch Panel Controller</p> <p>UTY-XWZXZA </p>

Function list

	Indoor unit	Outdoor unit	Controller		Other
			Central Remote Controller	Touch Panel Controller	RB Unit
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-XWZXZF	—	—	—
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

<p>Flange (Round) UTD-RF204 For Medium Static Pressure Duct type / Ceiling type</p>	<p>Flange (Square) UTD-SF045T For Medium Static Pressure Duct type</p>	<p>Remote Sensor Unit UTY-XSZX For All Duct type</p> <p>New amenity space can be offered by installing the Remote sensor.</p>
<p>Long-Life Filter UTD-LF25NA For Medium Static Pressure Duct type UTD-LF60KA For High Static Pressure Duct type</p>	<p>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</p>	<p>Drain Pump Unit UTZ-PX1BBA For Low Static Pressure Duct type UTZ-PX1NBA For Medium Static Pressure Duct type</p>

For Cassette type

<p>Wide Panel UTG-AGYA-W For Cassette type</p>	<p>Panel Spacer UTG-BGYA-W For Cassette type</p>	<p>Insulation Kit for High Humidity UTZ-KXGA For Cassette type UTZ-KXGB For Slim Cassette type UTZ-KXGC For Compact Cassette type</p>
<p>Fresh Air Intake Kit UTZ-VXAA For Compact Cassette type UTZ-VXGA For Cassette type</p>	<p>Air Outlet Shutter Plate UTR-YDZB For Compact Cassette type</p> <p>Shuts the air outlet when only using as 3 blow out.</p>	<p>Air Outlet Shutter Plate UTR-YDZC For Cassette type</p> <p>Shuts the air outlet when only using as 3 blow out.</p>

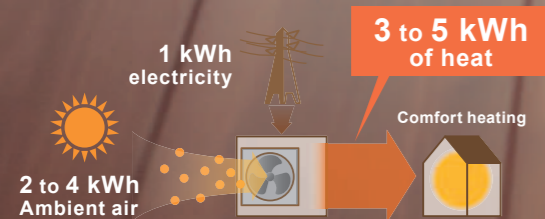
For Ceiling type

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 kW 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™

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AIR TO WATER

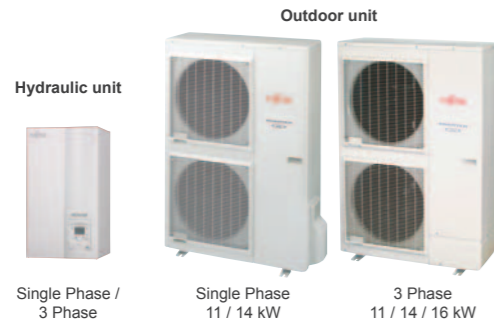


High power series

Hydraulic unit : WSYG140DC6 / [3phase] WSYK160DC9

Outdoor unit : WOYG112LCT / WOYG140LCT

[3phase] WOYK112LCT / WOYK140LCT / WOYK160LCT



Comfort series

Hydraulic unit : WSYA050DD6 / WSYA100DD6

Outdoor unit : WOYA060LDC / WOYA080LDC / WOYA100LDT



High power series

Hydraulic unit : WGYG140DD6 / [3phase] WGYK160DD9

Outdoor unit : WOYG112LCT / WOYG140LCT

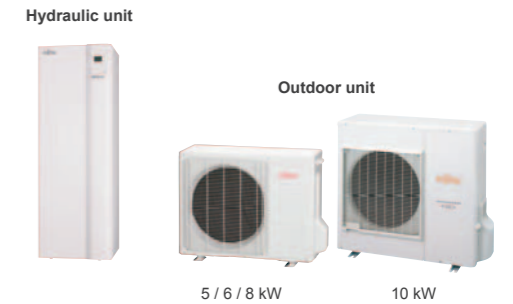
[3phase] WOYK112LCT / WOYK140LCT / WOYK160LCT



Comfort series

Hydraulic unit : WGYA050DD6 / WGYA100DD6

Outdoor unit : WOYA060LDC / WOYA080LDC / WOYA100LDT



Features

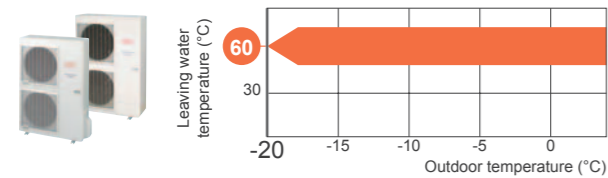
High Efficiency & Comfort

High leaving water temperature

No backup heater*

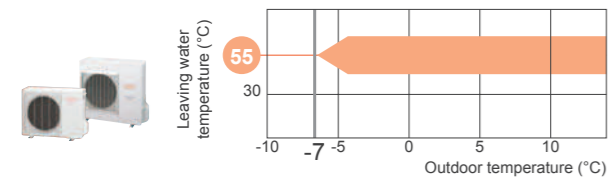
High power series : High leaving water temperature of 60°C is kept even when outdoor temperature is down to -20°C without using backup heaters.

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.

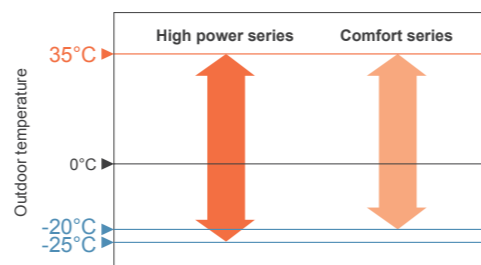
High COP

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.

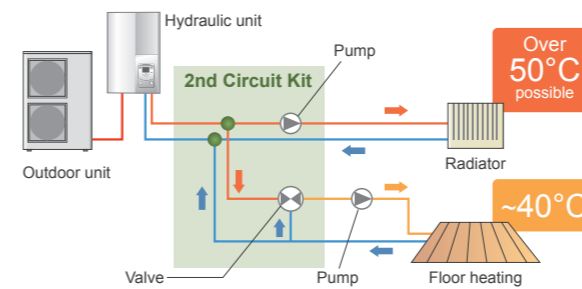
Wide operation range



Intelligent Control

2 Zone individual control*

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

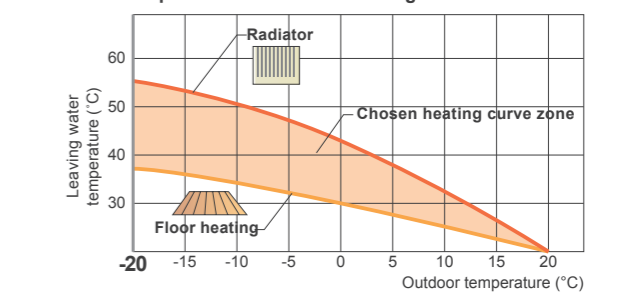


*Optional parts are required.

Automatic heating curve control

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

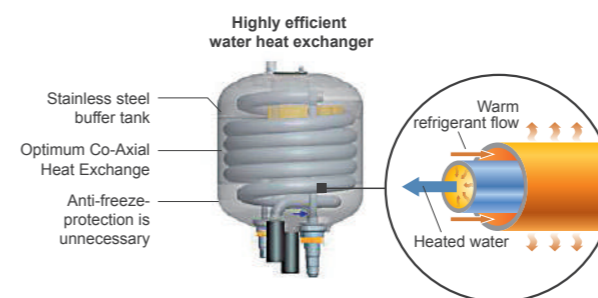
Automatic temperature control with heating curve



High Reliability

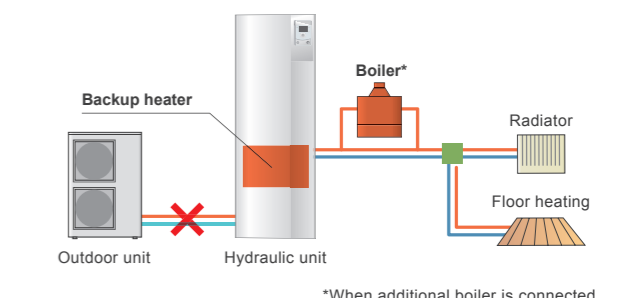
High durability

- 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



Compact series

Monobloc unit : WPYA080LE / WPYA100LE
Control box : UTW-SCBYA



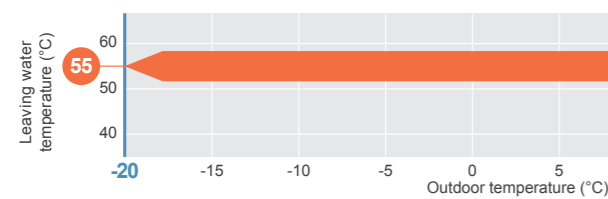
Features

Compact & High Performance

High leaving water temperature

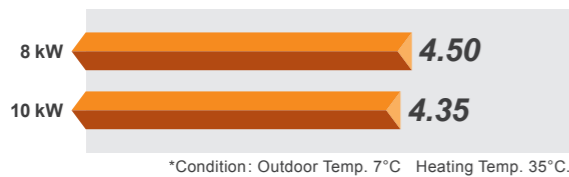
High leaving water temperature of 55°C is kept even when outdoor temperature is down to -20°C without using backup heaters.

No backup heater



High COP

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

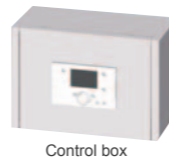


Compact & light weight design



Intelligent Control

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



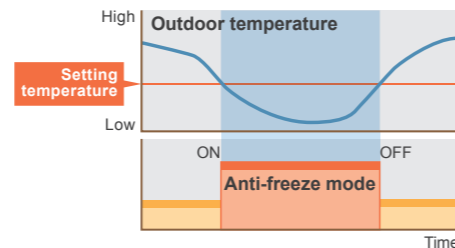
And more

- 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

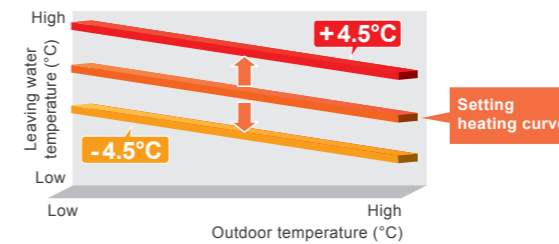
Comfort



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.



Simple operation mode setting
• Selecting the heating mode and Domestic hot water operation

Navigation and setting
• Selecting the heating menu
• Setting program timer

Energy Saving

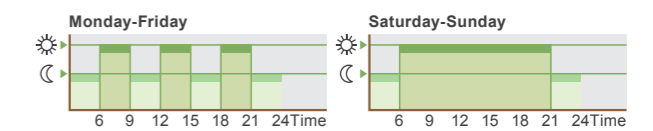
Programmable timer

- 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
☀	Comfort mode Constant comfort temperature
☾	Reduce mode Constant reduce temperature
⏻	Protection mode Stand-by mode with anti-frost protection

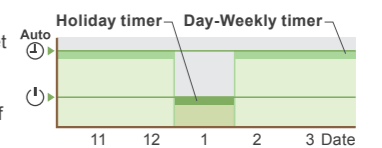
Day-Weekly timer setting

- 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

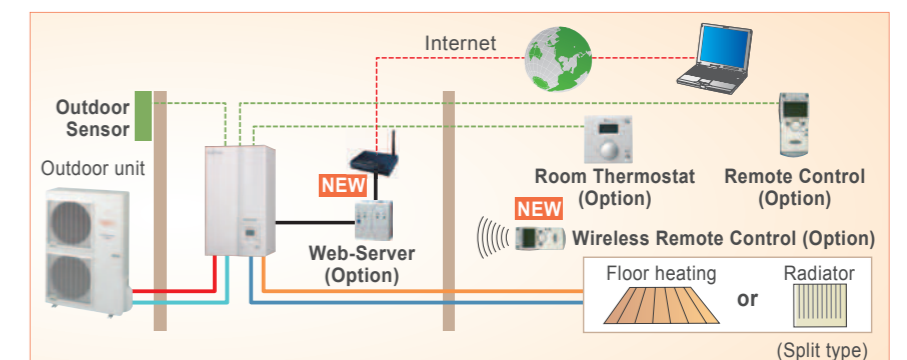
Auto-changeover

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

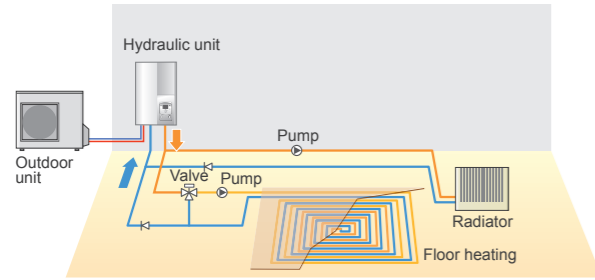
Various remote controls are available on your hands. Remote control is also available via Web. All kinds of life styles are supported.



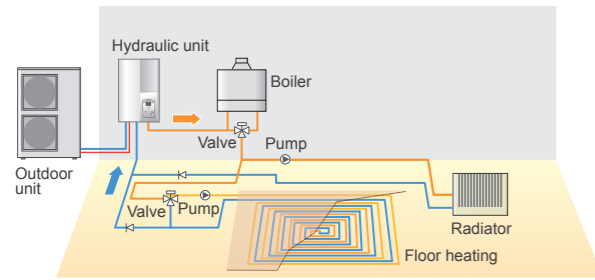
Split Case studies

2 emitter simultaneous heating (Individual control)

Floor heating + Radiator

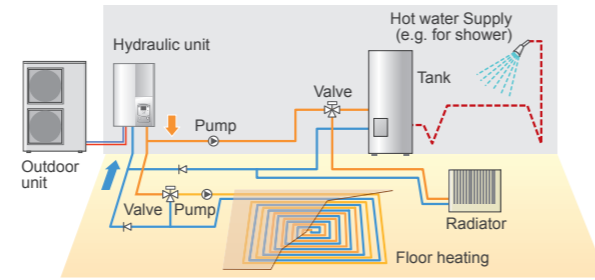


Boiler connected to heating (Boiler + Heating)



3 types of heat distribution

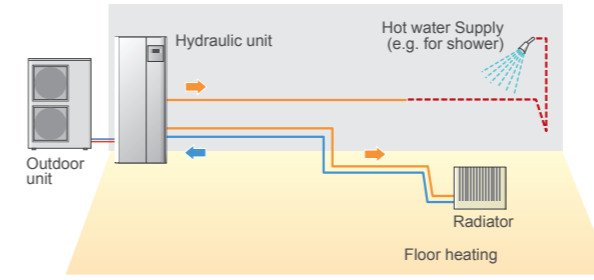
Floor heating + Radiator + Domestic Hot Water



Split DHW integrated Case studies

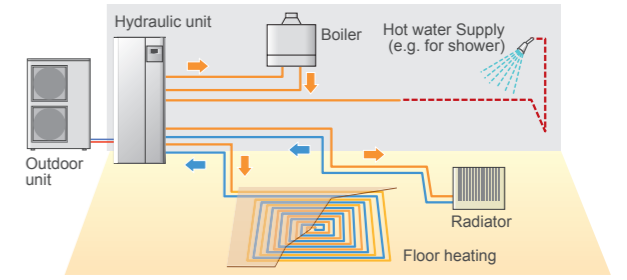
Single heating & Domestic Hot Water

Radiator + Domestic Hot Water



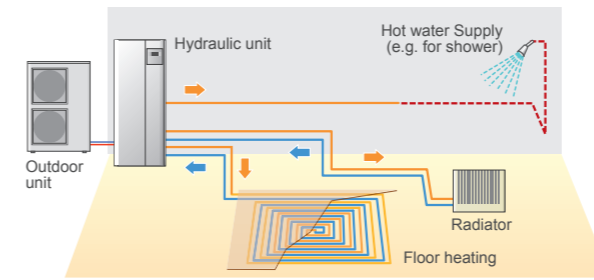
Boiler connected to heating (Boiler + Heating) & Domestic Hot Water

Radiator + Domestic Hot Water



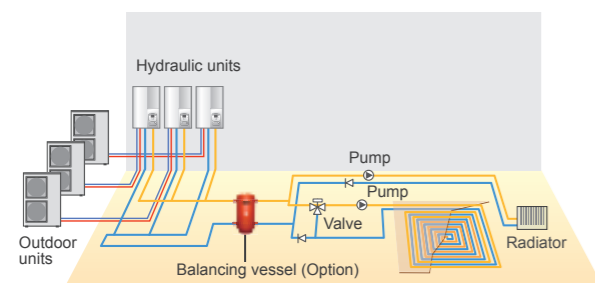
2 emitter simultaneous heating (Individual control) & Domestic Hot Water

Radiator + Domestic Hot Water

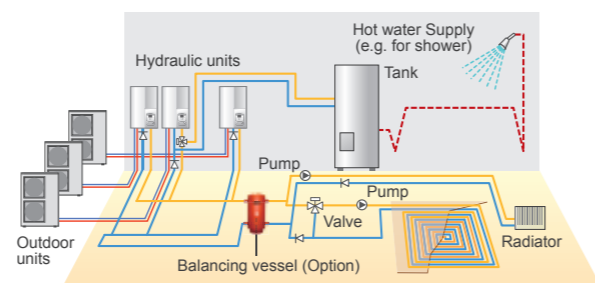


Split Cascade System Case studies

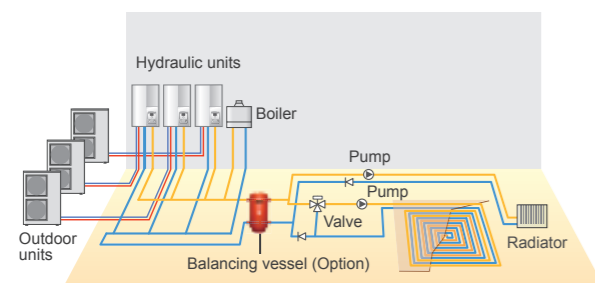
2 emitter simultaneous heating (Individual control)



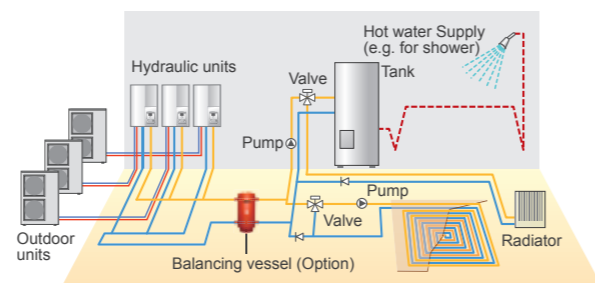
2 emitter simultaneous heating & Domestic Hot Water (type A)



Boiler connected to heating (Boiler + Heating)



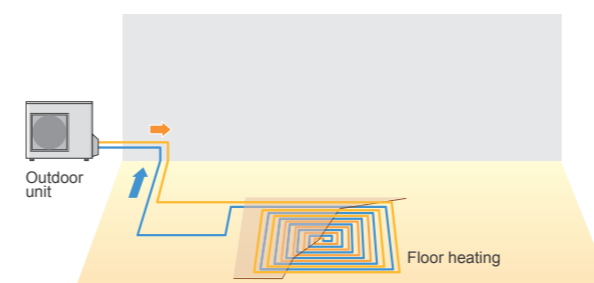
2 emitter simultaneous heating & Domestic Hot Water (type B)



Monobloc Case studies

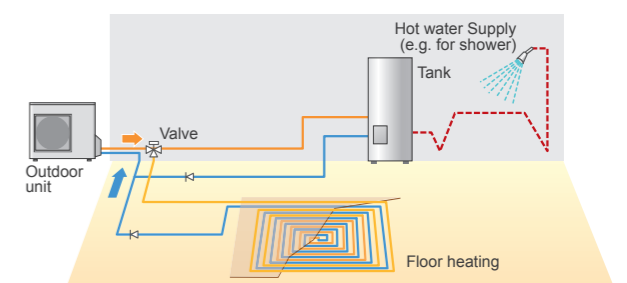
Single heating system

Floor heating



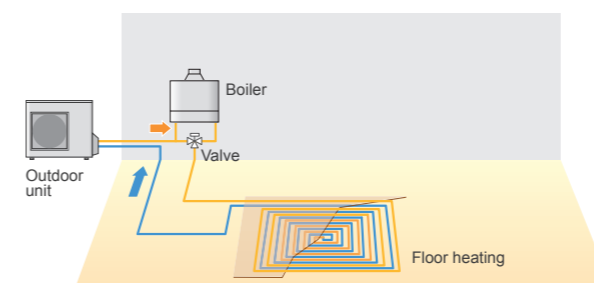
2 types of heat distribution

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		1Ø		3Ø			1Ø				
		11	14	11	14	16	5	6	8	10	8	10	11	14	11	14	16	5	6	8	10		
2nd Circuit Kit	 UTW-KZSXE	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	—	—	—			
	 UTW-KZDXE	—	—	—	—	—	—	—	—	—	—	●	●	●	●	●	●	●	●	●			
Boiler Connection kit	 UTW-KBSXD	●	●	●	●	●	●	●	●	—	—	—	—	—	—	—	—	—	—	—			
	 UTW-KBDXD	—	—	—	—	—	—	—	—	—	—	●	●	●	●	●	●	●	●	●			
Balancing vessel	 UTW-TEVXA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
DHW kit	 UTW-KDWXA	—	—	—	—	—	—	—	—	●	●	*1	*1	*1	*1	*1	*1	*1	*1	*1			
	 UTW-KDWXD	●	●	●	●	●	●	●	●	—	—	*1	*1	*1	*1	*1	*1	*1	*1	*1			
DHW Expansion Vessel kit	 UTW-KDEXE	—	—	—	—	—	—	—	—	—	●	●	●	●	●	●	●	●	●	●			
DHW tank	200 Liter 300 Liter  UTW-T20XA UTW-T30XA	●	●	●	●	●	●	●	●	●	●	*1	*1	*1	*1	*1	*1	*1	*1	*1			
	300 Liter  UTW-T30XD	●	●	●	●	●	●	●	●	●	●	*1	*1	*1	*1	*1	*1	*1	*1	*1			
	 UTW-T30XD	●	●	●	●	●	●	●	●	●	●	*1	*1	*1	*1	*1	*1	*1	*1	*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	●	●	●	●	●	●	●	●	—	—	●	●	●	●	●	●	●	●	●			

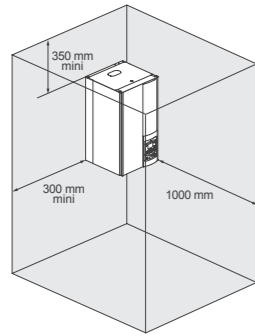
Product Name	Model Name	Split										Monobloc		Split DHW integrated type									
		High Power					Comfort					Compact		High Power					Comfort				
		1Ø		3Ø			1Ø			1Ø		1Ø		1Ø		3Ø			1Ø				
		11	14	11	14	16	5	6	8	10	8	10	11	14	11	14	16	5	6	8	10		
Remote Controller	Wired 	UTW-C75XA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
		UTW-C75XA-E ⁵	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
	Wireless 	UTW-C78XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
		UTW-C78XD-E ⁵	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
Room Thermostat	Wired 	UTW-C55XA	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	Wireless 	UTW-C58XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
Outdoor Sensor Transmitter		UTW-MOSXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
RF Modules	for X60-Port 	UTW-M60XD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
	for BSB-Port 	UTW-MRCXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
Web server		UTW-KWSXD	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●			
		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	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3	●*3			
Service Tool Software		UTW-KPSXD	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4	●*4			

*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)

Equipment Installation

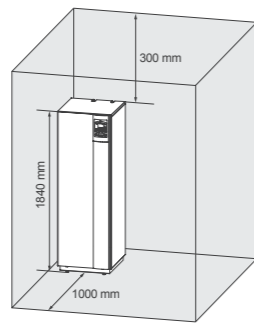
Split type Hydraulic unit

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



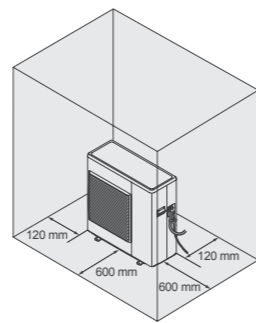
Split DHW integrated type Hydraulic unit

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



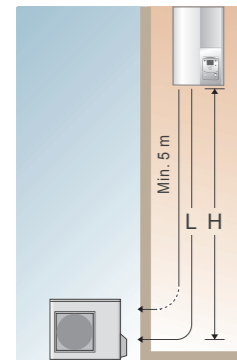
Monobloc type Outdoor unit

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



Piping and Wiring

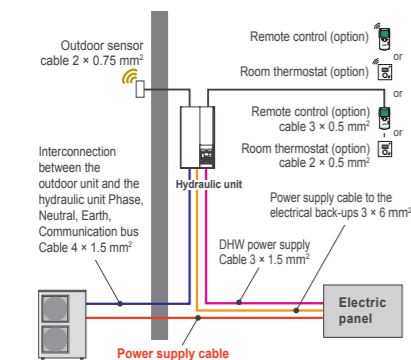
Split type



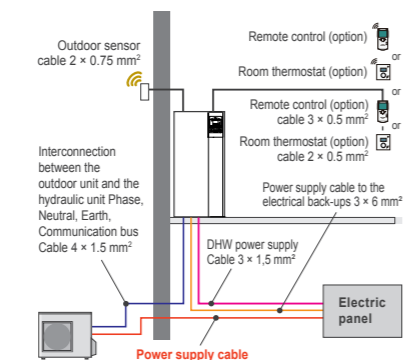
Series	Capacity range(kW)	H (m)	L (m)
Comfort	5	± 15	5-20
	6		
	8		
	10		
High power	11	± 15	5-20
	14		
	16		

Electrical wiring

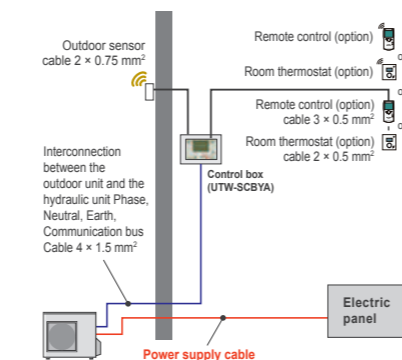
Split type



Split DHW integrated type

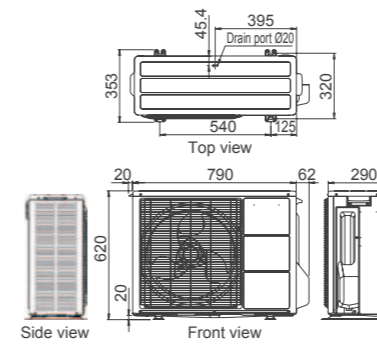


Monobloc type

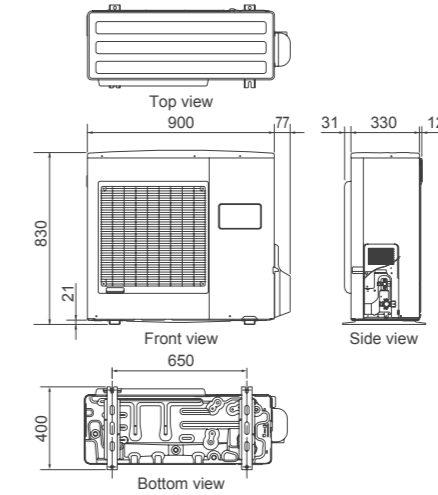


SPLIT TYPE

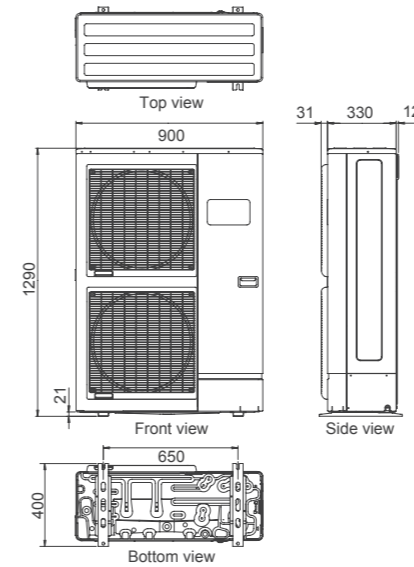
Outdoor Units Comfort series :
WOYA060LDC / Woya080LDC



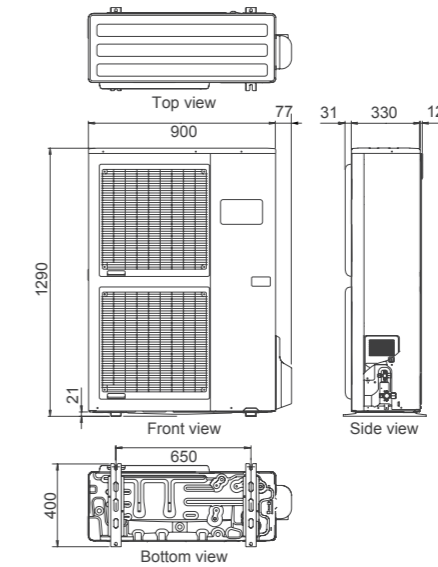
WOYA100LDT



Outdoor Units High Power series :
WOYK112LCT / Woyk140LCT / Woyk160LCT

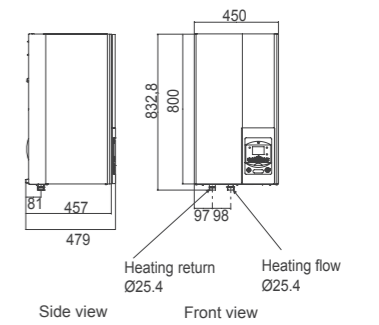


Outdoor Units High Power series :
WOYG112LCT / Woyg140LCT



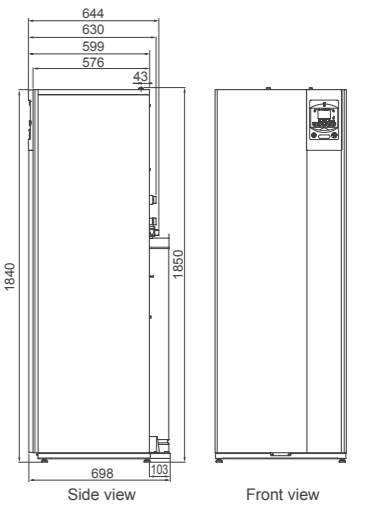
Hydraulic units Split type
High Power series :
WSYG140DC6 / WSYK160DC9

Hydraulic units Split type
Comfort series :
WSYA050DD6 / WSYA100DD6



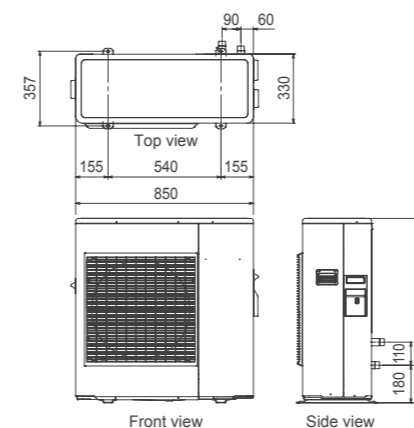
Hydraulic units Split DHW
integrated type High Power series :
WGYG140DD6 / WGYK160DD9

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

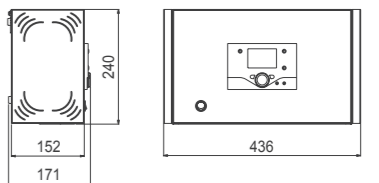


MONOBLOC TYPE

Compact series :
WPYA080LE / WPYA100LE



Control Box :
UTW-SCBYA



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	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	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	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	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	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	6.0 (3.0×2 pcs.)			6.0 (3.0×2 pcs.)		6.0 (3.0×2 pcs.)		6.0 (3.0×2 pcs.)	
Hydraulic unit		Model name								
Power source		Rated								
Water circulation		L/min								
Dimensions H×W×D		mm								
Weight (Net)		kg								
Buffer tank capacity		L								
Expansion vessel capacity		L								
Leaving water temperature range		°C								
Water pipe connection diameter		Flow / Return								
Outdoor unit		Model name								
Power source		Rated								
Current		Max								
Noise level (Sound pressure)		dB(A)								
Dimensions H×W×D		mm								
Weight (Net)		kg								
Refrigerant										
Refrigerant amount		kg								
Additional refrigerant charge amount		g/m								
Connection pipe	Diameter	Liquid	mm							
		Gas	mm							
	Length	Min / Max	m							
	Length (chargeless)	Max	m							
Operation range	Heating	°C								

Monobloc type

Series name	Compact series		
Capacity range (kW)	8		10
+7°C / +35°C floor heating *1	Heating capacity	8.00	
	Input power	1.78	
	COP	4.50	
+2°C / +35°C floor heating *1	Heating capacity	7.40	
	Input power	2.73	
	COP	2.71	
-7°C / +35°C floor heating *1	Heating capacity	7.10	
	Input power	2.93	
	COP	2.42	
+7°C / +45°C radiators *1	Heating capacity	7.80	
	Input power	2.23	
	COP	3.50	
-7°C / +45°C radiators *1	Heating capacity	6.50	
	Input power	2.98	
	COP	2.18	
Monobloc unit		Model name	
Power source		1Ø 230V, 50Hz	
Water circulation	Rated	L/min	
	Min / Max		
Current	Rated	A	
	Max		
Noise level (Sound pressure)	dB(A)		
Dimensions H×W×D	mm		
Weight (Net)	kg		
Water pipe connection diameter	Flow / Return		
Refrigerant		R410A	
Refrigerant amount		kg	
Leaving water temperature range		°C	
Operation range		Heating °C	

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	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	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	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	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	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	6.0 (3.0×2 pcs.)			6.0 (3.0×2 pcs.)		6.0 (3.0×2 pcs.)		6.0 (3.0×2 pcs.)	
Hydraulic unit		Model name								
Power source		Rated								
Water circulation		L/min								
Dimensions H×W×D		mm								
Weight (Net)		kg								
DHW capacity		L								
Hot water heater capacity		kW								
Buffer tank capacity		L								
Expansion vessel capacity		L								
Leaving water temperature range		°C								
Water pipe connection diameter		Flow / Return								
Hot water pipe diameter		mm								
Outdoor unit		Model name								
Power source		Rated								
Current		Max								
Noise level (Sound pressure)		dB(A)								
Dimensions H×W×D		mm								
Weight (Net)		kg								
Refrigerant										
Refrigerant amount		kg								
Additional refrigerant charge amount		g/m								
Connection pipe	Diameter	Liquid	mm							
		Gas	mm							
	Length	Min / Max	m							
	Length (chargeless)	Max	m							
Operation range	Heating	°C								

*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

	Wall Mounted	Floor	Compact Cassette / Cassette	Floor/Ceiling	Ceiling	Slim Duct	Medium Static Pressure Duct	High Static Pressure Duct
	ASYG09/12LCA	ASYG07/09/12/14LCA	ASYG18/30LFC, ASYG24LFC	ASYG07/09/12LCC	ASYG07/09/12LCA	AUYG12/14/18LVB, AUYG24LVA	AUYG30/36RLE, AUYG36/45/54LRLA	ABYG18LVTB, ABYG24LVTB, ABYG30/36/45/54LRTA
Comfortable function								
Human sensor	●							
Up / down swing flaps	●	●	●	●	●	●	●	○
Double swing automatic				●			●	●
Automatic air flow adjustment	●	●	●	●	●	●	●	●
Auto restart	●	●	●	●	●	●	●	●
Auto-changeover	●	●	●	●	●	●	●	●
10°C heat operation	●	●	●	●	●	○	●	○
Connectable distributing duct						●		○
Connectable fresh air duct						○	●	○
Fresh air intake						○	○	○
Economy mode	●	●	●	●	●	●	●	●
Powerful mode	●	●	●	●				
Low Noise mode	●	●	●				○ (45/54) (36LRLA)	○ (45/54) (36LRTA)
							○ (45) (36LMLA)	○ (60)
Convenient function								
Sleep timer	●	●	●	●	●	●	○	○
Program timer	●	●	●	●	●	●	○	○
Weekly timer	●	●						
Weekly + setback timer	○	○	○	○	○	○	○	○
Filter sign	●	●	●	●	●	●	●	●
Clean function								
Ion deodorization filter	●	●	●	●	●	●		
Apple-catechin filter	●	●	●	●	●	●		
Washable panel			●	●	●	●		

○: Optional function