FUJITSU GENERAL LIMITED
1116, Suenaga, Takatsu-ku, Kawasaki 213-8502, Japan
http://www.fujitsu-general.com/

ISO 9001 Certified number : 01 100 89394 ISO 14001 Certified number : 01 104 9245/01
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 : 00609Q11061R2M ISO 14001 Certified number : 00609E20454R2M
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.

Cooling	Indoor temp. : 27˚C DB / 19˚C WB Outdoor temp. : 35˚C DB / 24˚C WB	Heating	Indoor temp. : 20˚C DB / 15˚C WB Outdoor temp. : 7˚C DB / 6˚C WB

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

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

Distributed by :

3EF009-1312E

PRODUCT CATALOGUE 2014

FUJITSU

AIR CONDITIONERS LINEUP

The Intelligent Choice in Comfort

FUJITSU GENERAL LIMITED

PRODUCT CATALOGUE 2014

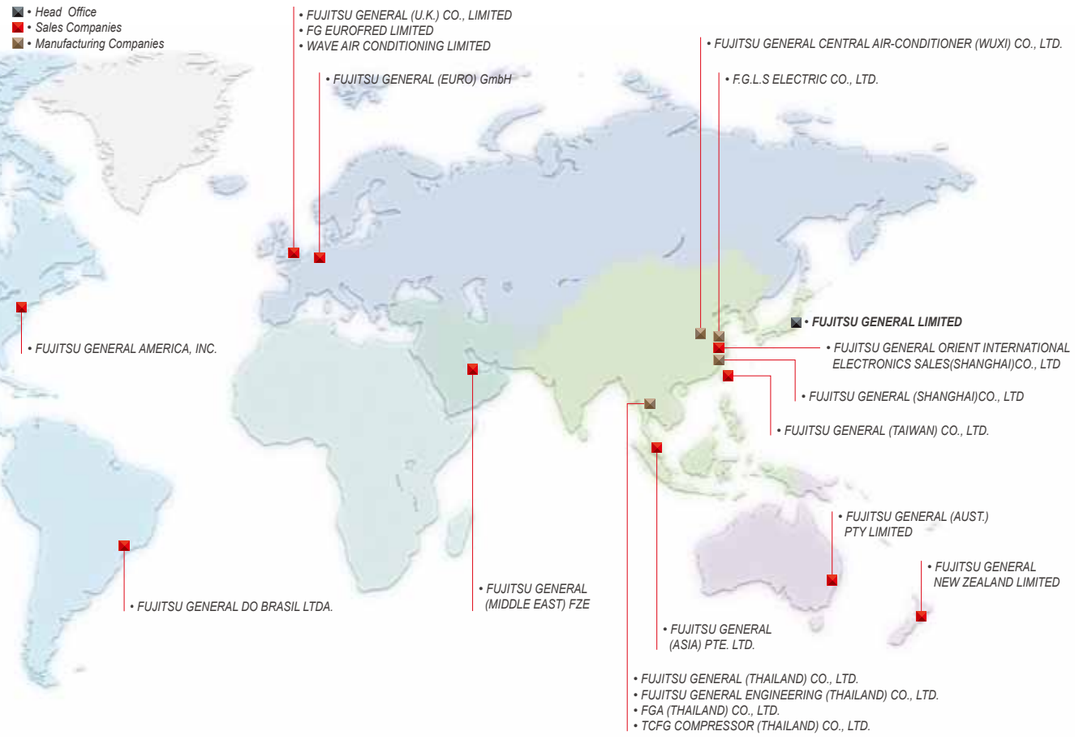
SPLIT / MULTI SPLIT / VRF / VENTILATION / AIR TO WATER

FUJITSU GENERAL LIMITED

Creation of Comfort

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

12 Overseas Sales Companies and 7 Overseas Manufacturing Companies



High Quality Development & Production Environment

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

Fujitsu General (Shanghai) Co., Ltd.

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

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

FGA (Thailand) Co., Ltd.

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

Our History Since 1936

Overseas Air Conditioning Business since 1971

1936:
Established as Yaou Shouten Ltd.

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

1971:
Air conditioner exports to Middle East.

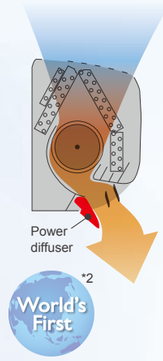
1977:
"Super Power, Super Quiet" series

1982:
Window type 3 Super series
AL/AX series

1985:
Large wall mounted and multi air conditioner introduced.

1991:
Air conditioner with the world's first lambda heat exchanger

1995:
Air conditioner with the world's first power diffuser



2001:
VRF air conditioners

AIRSTAGE

2003:
Air conditioner with the world's first automatic self-cleaning filter system

nocria™

2009:
VRF combination type

AIRSTAGE V-II

Air to Water system

WATERSTAGE™

2011:
Hi-spec Design model

LT Series LU Series

Small VRF series

AIRSTAGE J-II

2012:
VRF Heat Recovery type

AIRSTAGE VR-II

2014:
Small VRF series

AIRSTAGE J-IIS

1936 | 1980 | 1990 | 2000 | 2005 | 2010 | 2011 | 2012 | 2014

Company Establishment

Manufacturing Company Establishment

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.

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

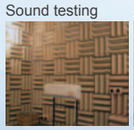
2006:
China sales company

*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

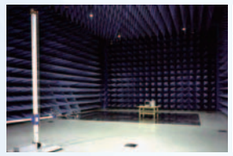
Severe environmental testing

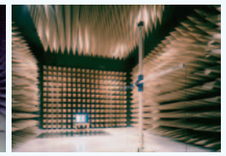
Water shower testing

Testing
Laboratory

Fujitsu General EMC Laboratory Limited

International test site for EMC regulation





60-m Hight Difference Testing Tower

Objective is to confirm oil circulation of compressor for reliability

R & D Center

High Quality Assurance
Product quality assurance

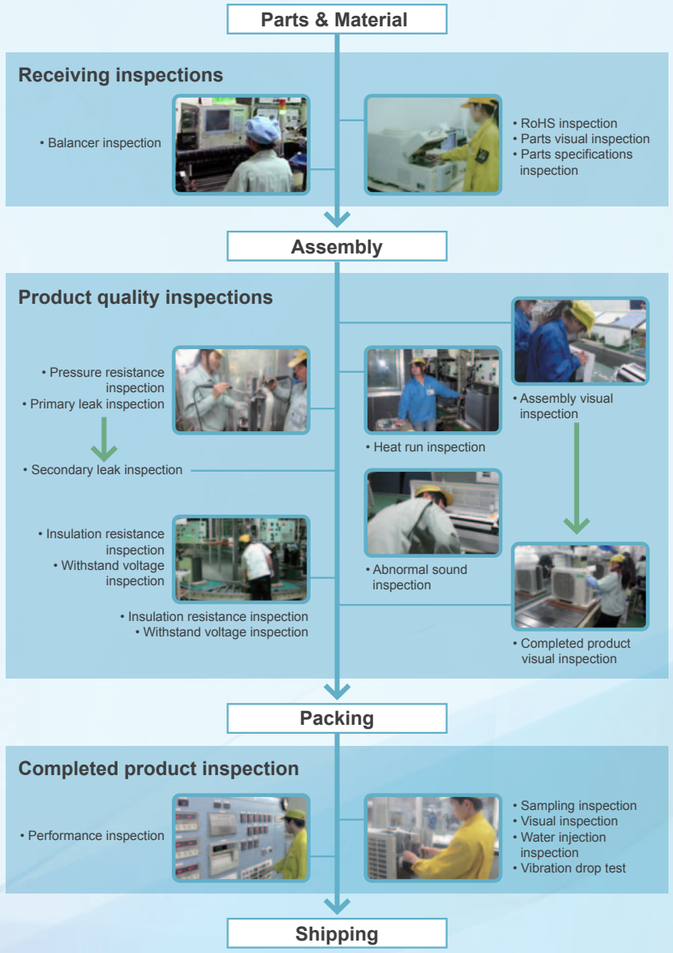
All Fujitsu General factories have acquired ISO 9001, and have built a quality control system common around the world. High quality products are offered to all over the world based on stringent quality inspections.

Receiving inspection

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

Stringent product quality inspection

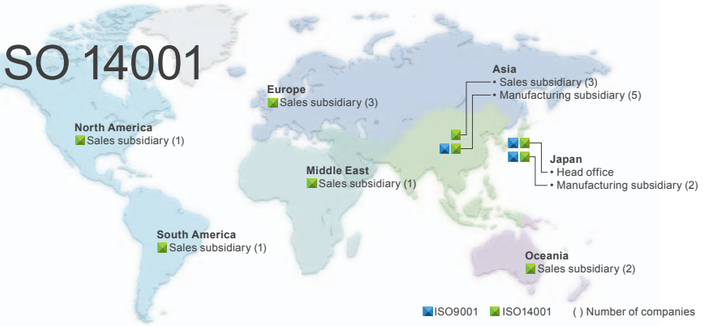
Stringent quality inspection is carried out at all production processes. High quality is maintained by stringent checks by inspectors and repetitive inspection.



Acquisition of
ISO 9001 and ISO 14001

Each of overseas production bases (5 companies) has completed the acquisition of ISO 9001 and ISO 14001 individually.

In 2012, overseas sales bases (11 companies) acquired the certification of ISO 14001.



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.

reddot design award winner 2012

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

America

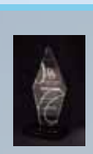

Training (Brazil)


Billboard (Montreal)


Call center


Distributor meeting

HVAC trade show in Brasil (FEBRAVA)


"Dealer Design Awards" of "the NEWS"


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

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



Coolworld Industry Awards "Most Efficient Air Conditioner"

Canstar Blue Most Satisfied Customers Award

Asia


Billboard (Tianjin)


Factory tour for primary school


Billboard (Hong Kong)


Distributor meeting


SE training


Presentation for sales companies (Myanmar)


China State Construction Engineering Luban Prize

GOOD DESIGN

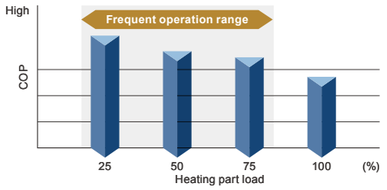
The Good Design Award is sponsored by the Japan Institute of Design Promotion and is awarded once a year for an item of excellent design.

High Efficiency

All DC Inverter Technology

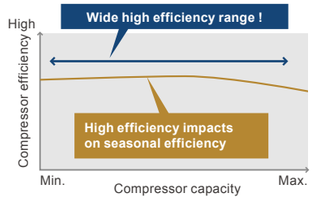
DC twin rotary compressor

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.



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.

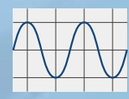


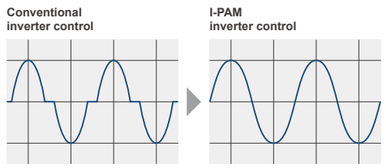
DC fan motor

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.

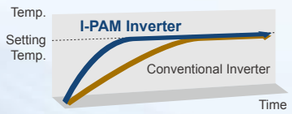




Optimized Inverter Control

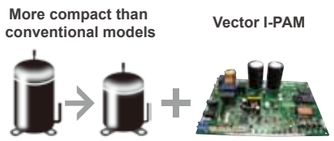
I-PAM (IPM* + PAM) inverter control

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.

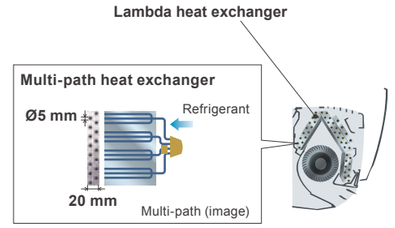
IPM*: Intelligent Power Module



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

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

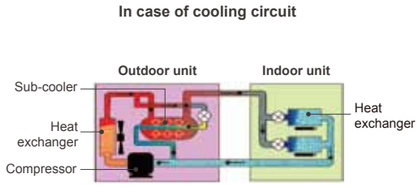
V-PAM inverter control reduces the effects of magnetic flux and increases the maximum speed and efficiency of the compressor by vector control technology. With this technology, further miniaturization, higher efficiency, and better performance are attained.



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

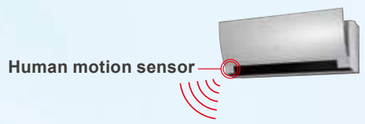
Higher performance achieved by mounting of counter type bypass circuit. (Large multi type, VRF)

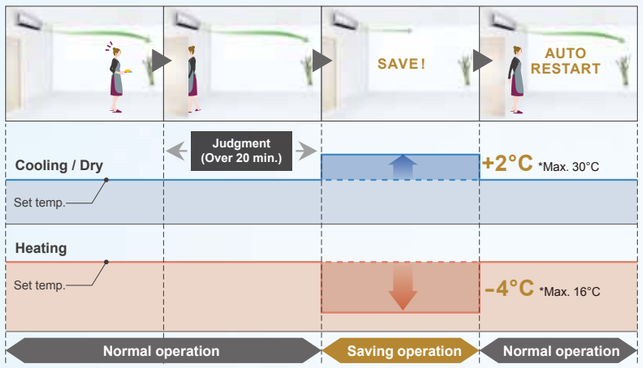
Energy Saving Control

Smart Operation

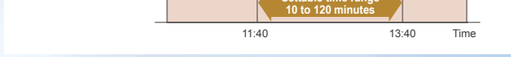
Human motion sensor control

Human motion 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.



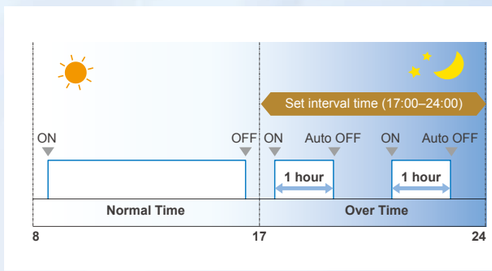


Human motion sensor coverage



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.



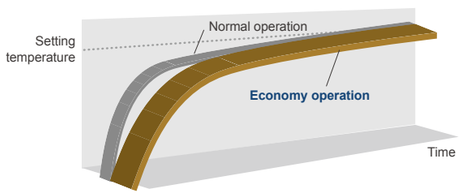
Auto-off timer

- 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

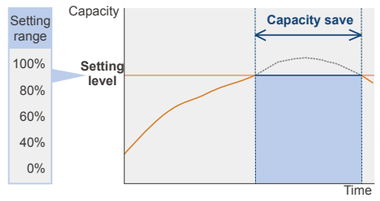
Set temperature auto return

- 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.



Economy operation

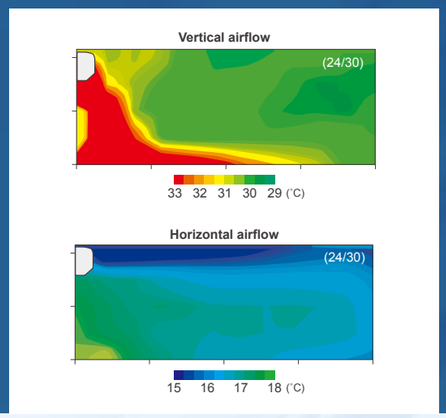
Limits the maximum operation current, and the power consumption is cut down and the maximum load is suppressed.



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



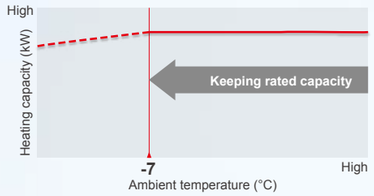
Quick Comfort

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.

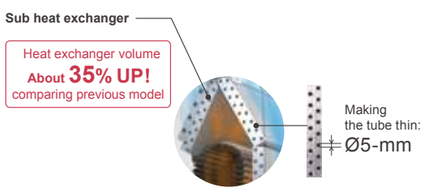
Powerful Heating

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



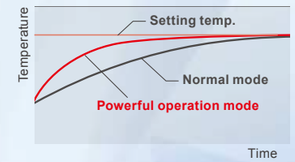
High density heat exchanger

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



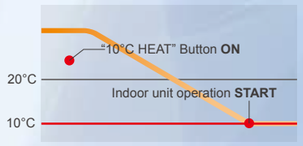
All DC inverter technology

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



Powerful operation

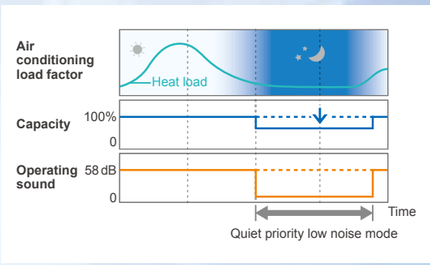
Continuous operation by maximum airflow and maximum compressor speed after a certain period of time allows the temperature to reach the setting temp. quickly.



10°C Heat operation

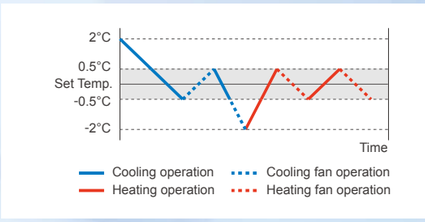
When you leave, minimum heating operation is performed to maintain the room temperature. (Maintained at 10°C)

Quiet and Comfort Control



Outdoor unit low noise operation

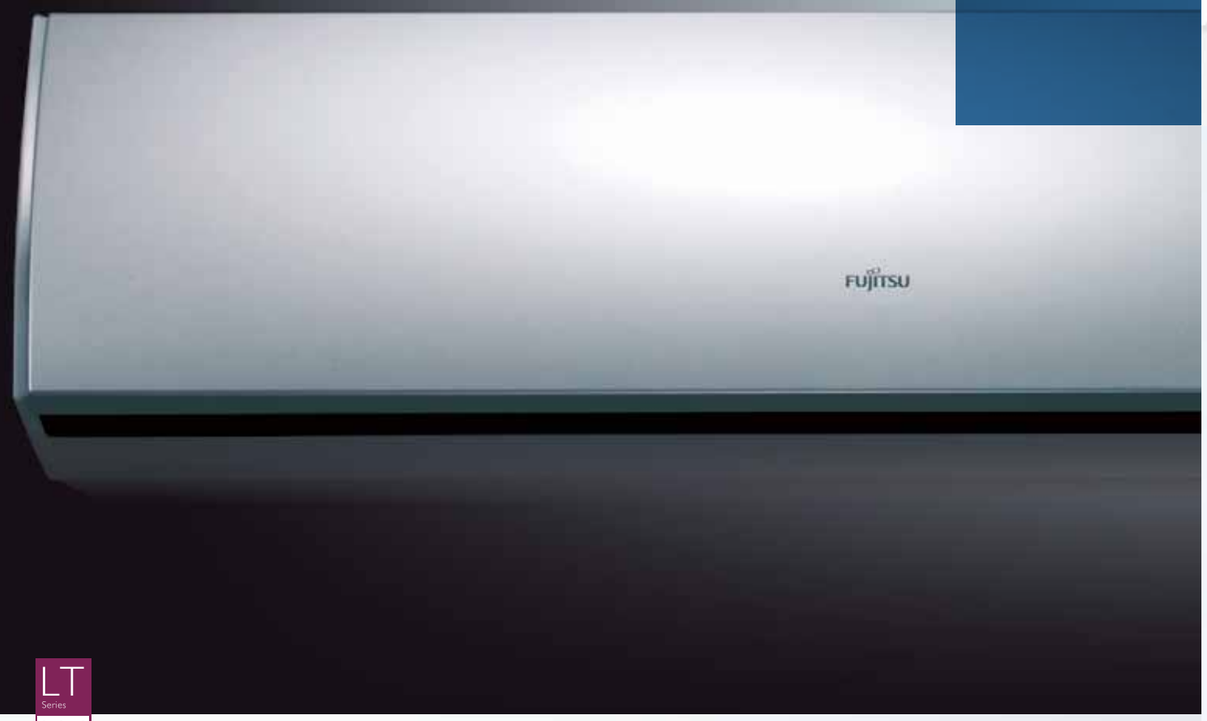
Users can choose low noise levels, depending on the installation environment. The operation time can be set using the timer.



Auto changeover function

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

Smart Design



LT Series
LU Series

Pursuit of advanced design achieving both functionality and beauty.

product design award 2012

GOOD DESIGN

reddot design award winner 2012

LM Series

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

LL Series

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

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

Wall Mounted

High Spec. & Design : ASYG09LTCA / ASYG12LTCA

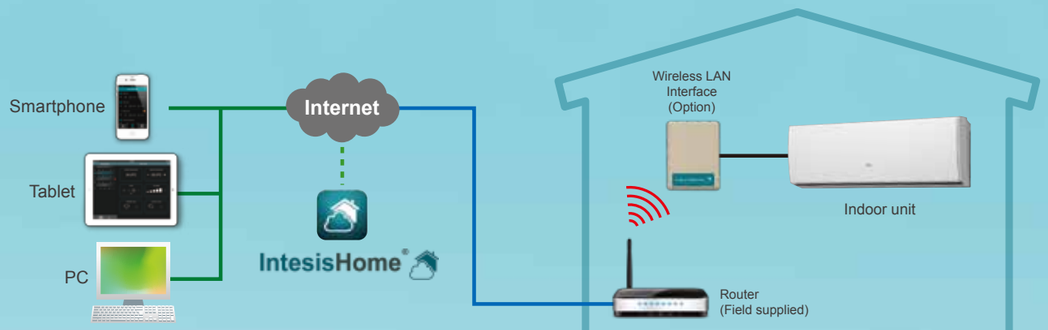
High COP : ASYG07LUCA / ASYG09LUCA / ASYG12LUCA / ASYG14LUCA

Standard : ASYG07LMCA / ASYG09LMCA / ASYG12LMCA / ASYG14LMCA

Basic : ASYG07LLCC/ASYG09LLCC/ASYG12LLCC

Easy-To-Use Control
Residential use

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



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

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

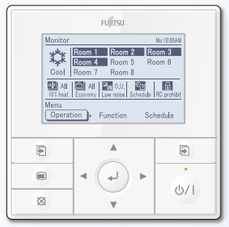
This allows customers to easily perform central control and monitoring of air conditioning equipment.

Fujitsu General provides various easy-to-use Controllers

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

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

Home central control



Central
Remote Controller

Simple individual control

Wired
Remote Controller

Simple
Remote Controller

Slim Wireless
Remote Controller

Easy-To-Use Control
Commercial use

Fujitsu General provides various easy-to-use Controllers

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

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

Individual & Simple central control

NEW

Touch Panel

Wired Remote Controller

Each floor or Small building management control

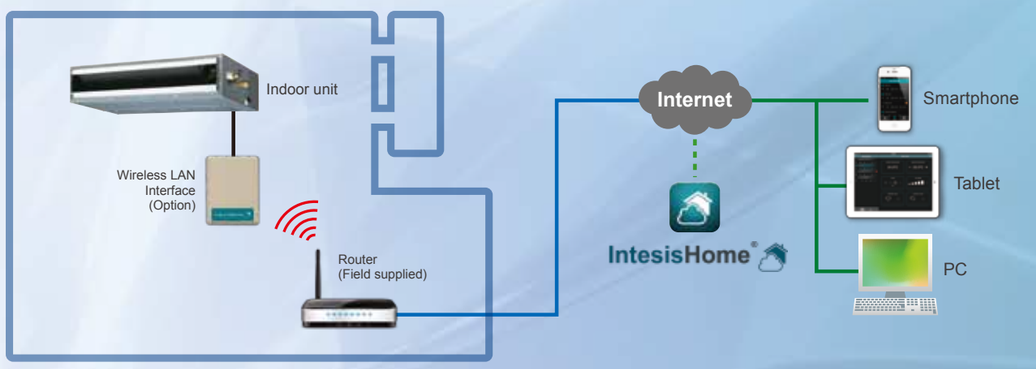
Touch Panel Controller

Large building management control

System Controller

Software

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



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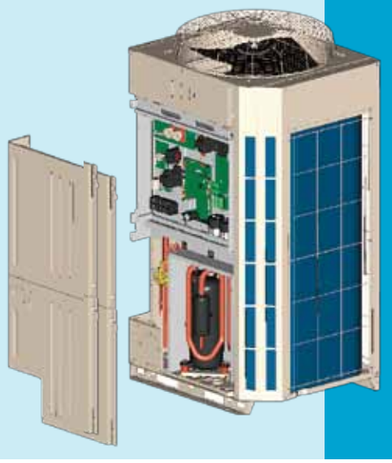
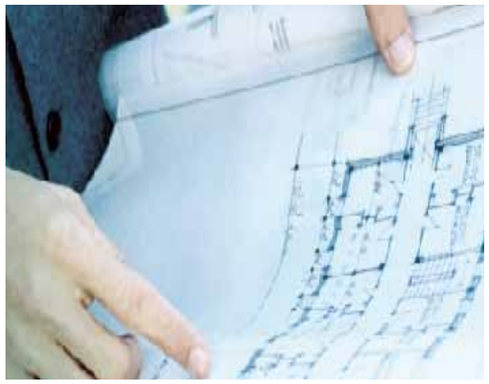
Fujitsu General provides an interface that supports central management systems such as KNX®, MODBUS®, BACnet®, and LonWorks®.

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.



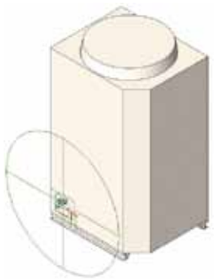


Technical information

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

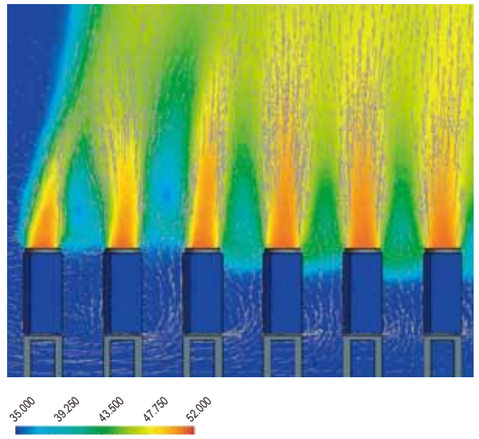
Presentation & training for dealers 2

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

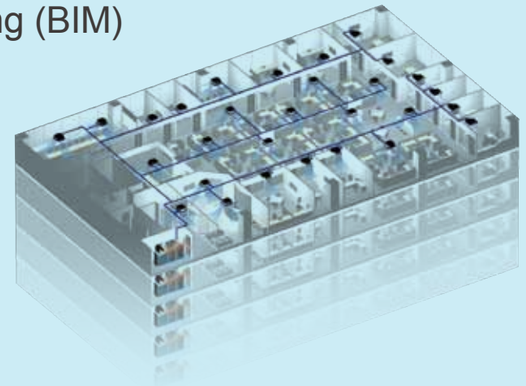
- CFD Simulation
- Guide line
- Commissioning Support

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.

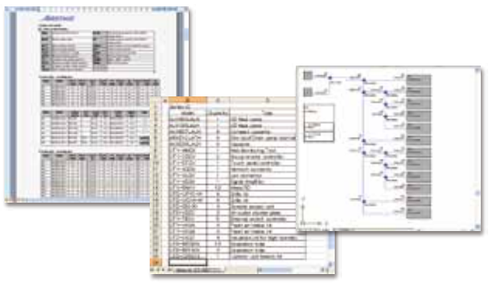
Building Information Modeling (BIM)

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



Automatically create model selection information

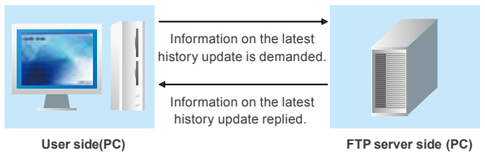
- Each unit can be automatically set by entering the required performance, type, and temperature conditions for each indoor unit and then dragging and dropping into the outdoor unit.
- Piping and wiring diagrams can be created automatically and it is easy to set branches, grouping, and options.
- The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

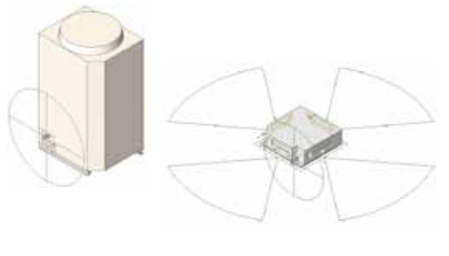
The information specific to your project can be exported in a number of industry standard file formats.

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



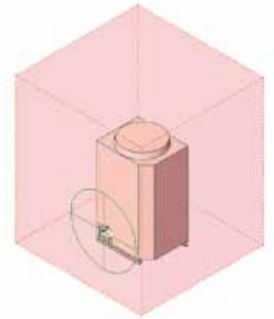
Update your Design Simulator

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



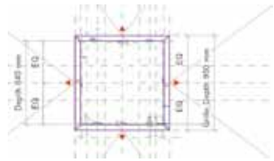
3D and 2D product data

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

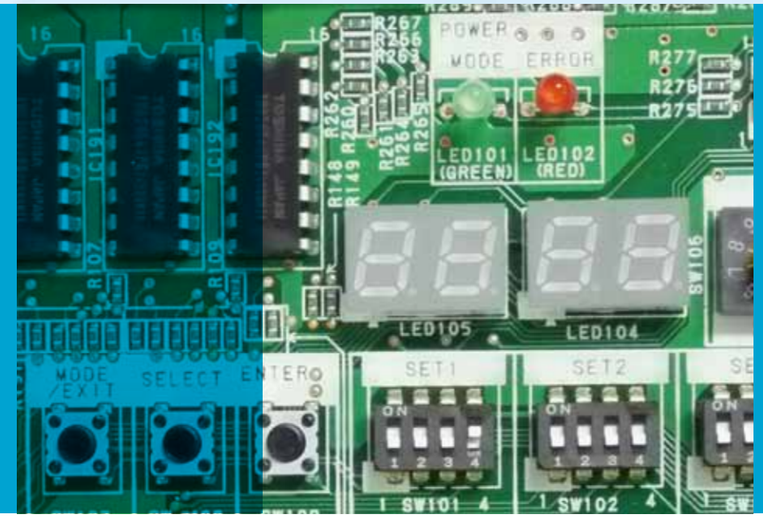
Other information, such as symbols showing the airflow direction that are required for installation drawings, is built in and can be automatically reflected in 2D drawings. Installation drawings can be created easily.

Product specifications & link information

Contains the basic information required for air conditioner design, including unit size, capacity, input power, noise, and airflow rate. These data can be procured from the Fujitsu General Website, Design Simulator, and Autodesk® Seek Website.

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

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



7-segment LED

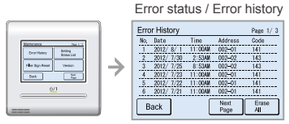
Design for easy maintenance

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.

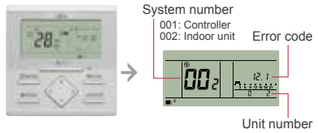
- Operation mode status
- Discharge temperature / Pressure status
- Compressor operation indication
- Address / Type / Number of outdoor unit
- Error code

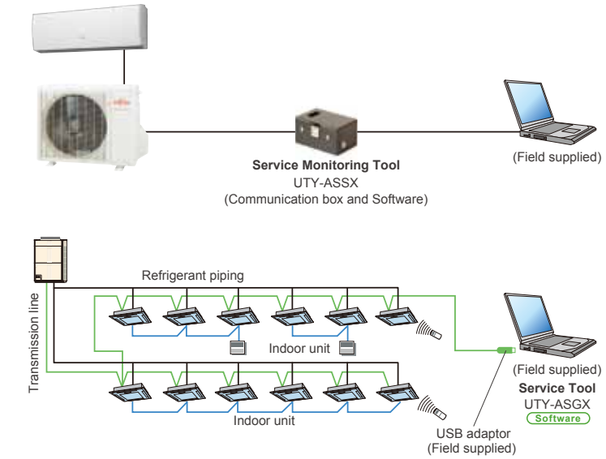
Wired Remote Controller (Touch panel)

Error status / Error history



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 opearting condition
- Monitoring sensor data
- Indication of trend graph
- Error history
- Indication of refrigerant circuit diagram (for VRF)

Mobile Technician ***FREE***

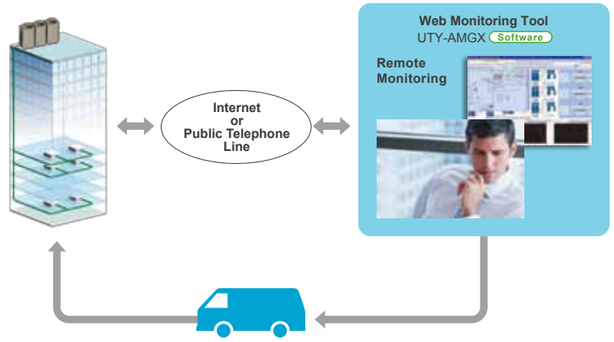
Mobile trouble shooting tool for iPhone

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 CO_2 Emissions

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

20% share of Renewable Energy

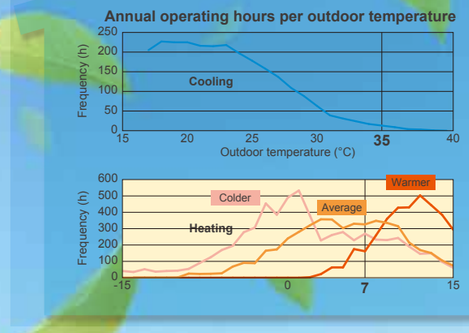
Fujitsu General promoting air sourced heat pumps as renewable energy source heating systems

Pursuit of Energy Saving Taking Actual Operation into Consideration

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

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

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



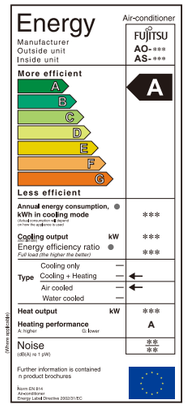
Fujitsu General provides air conditioners with higher SEER and SCOP.

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

Energy Efficiency Classifications

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

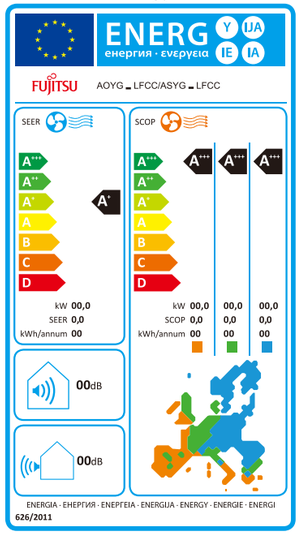
Current Energy Label



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

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

New Energy Label*



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

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

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

	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

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

Current Energy Labelling Points		New Energy Labelling Points
Rated efficiency • Full capacity • One point temperature condition EER COP	Annual efficient operation	**Seasonal efficiency** • Integrates part load capacity • Optimised for several rating temperatures SEER SCOP
Operating power consumption	Reduce total power consumption	**Total power consumption** • Operating power consumption • Standby power consumption • Crank case heater • Thermo off
Sound pressure level	Low noise products	**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 Wired Remote Controller

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

NEW Outdoor Air Unit

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

14 kW　22.4 kW　28 kW

NEW DX-Kit for air handling applications

Future Release

Features
- Possible to connect the air handling unit and the fan coil unit
- Optimial 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

EEV unit　Control unit

New Air to Water systems

WATERSTAGE™

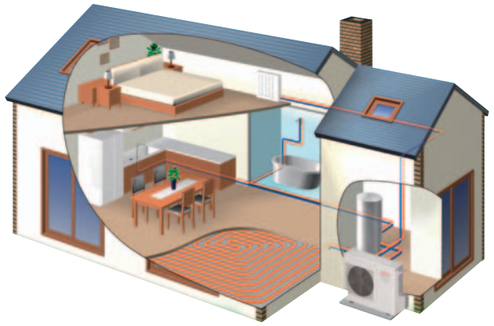
Control box

NEW 5-kW Monobloc series

Future Release

Features
- 55°C hot water supply even at -20°C outdoor temperature
- Heating and DHW in one system*

*Optional parts are required.



CONTENTS

AIR CONDITIONERS LINEUP

PRODUCT CATALOGUE 2014

ALL TYPE LINEUP SPLIT & MULTI SPLIT

SPLIT

Capacity (kW)	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
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										
Wall Mounted — **High COP** INVERTER	ASYG07LUCA	ASYG09LUCA	ASYG12LUCA	ASYG14LUCA									
Wall Mounted — **Standard** INVERTER	ASYG07LMCA	ASYG09LMCA	ASYG12LMCA	ASYG14LMCA	ASYG18LFCA	ASYG24LFCC	ASYG30LFCA						
Wall Mounted — **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 [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 45LBT8				
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	67.0	73.5	78.5	85.0	90.0	95.0	100.5	107.0	112.0	118.5	123.5	130.0	135.0
HP	4	5	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48
J-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	AJY216LALH	AJY234LALH	AJY252LALH	AJY270LALH	AJY288LALH	AJY306LALH	AJY324LALH	AJY342LALH	AJY360LALH	AJY378LALH	AJY396LALH	AJY414LALH	AJY432LALH
V-II series — **Energy efficiency** Page 118 ~ Set Model								AJY144LALHH			AJY198LALHH	AJY216LALHH	AJY234LALHH	AJY252LALHH	AJY270LALHH	AJY288LALHH	AJY306LALHH	AJY324LALHH		AJY360LALHH	AJY378LALHH	AJY396LALHH		
VR-II series Heat Recovery — **Space saving** Page 126 ~ Set Model				AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJY162GALH	AJY180GALH	AJY198GALH	AJY216GALH	AJY234GALH	AJY252GALH	AJY270GALH	AJY288GALH	AJY306GALH	AJY324GALH	AJY342GALH	AJY360GALH	AJY378GALH	AJY396GALH	AJY414GALH	AJY432GALH
VR-II series — **Energy efficiency** Page 126 ~ Set Model								AJY144GALHH			AJY198GALHH	AJY216GALHH	AJY234GALHH	AJY252GALHH	AJY270GALHH	AJY288GALHH	AJY306GALHH	AJY324GALHH	AJY342GALHH	AJY360GALHH	AJY378GALHH	AJY396GALHH		

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					WSYG140DC6 / WOYG112LCT	WSYG140DC6 / WOYG140LCT	
Split — **3 phase** Page 178 Hydraulic Unit / Outdoor Unit					WSYK160DC9 / WOYK112LCT	WSYK160DC9 / WOYK140LCT	WSYK160DC9 / WOYK160LCT
Split — **Comfort series** Page 178 Hydraulic Unit / Outdoor Unit	WSYA050DD6 / WOYA060LDC	WSYA100DD6 / WOYA060LDC	WSYA100DD6 / WOYA080LDC	WSYA100DD6 / WOYA100LDT			
Split DHW integrated — **High Power series** — **Single phase** Page 179 Hydraulic Unit / Outdoor Unit					WGYG140DD6 / WOYG112LCT	WGYG140DD6 / WOYG140LCT	
Split DHW integrated — **3 phase** Page 179 Hydraulic Unit / Outdoor Unit					WGYK160DD9 / WOYK112LCT	WGYK160DD9 / WOYK140LCT	WGYK160DD9 / WOYK160LCT
Split DHW integrated — **Comfort series** Page 179 Hydraulic Unit / Outdoor Unit	WGYA050DD6 / WOYA060LDC	WGYA100DD6 / WOYA060LDC	WGYA100DD6 / WOYA080LDC	WGYA100DD6 / WOYA100LDT			
Monobloc — **Compact model** Page 180	NEW		WPYA080LE	WPYA100LE			

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

SPLIT

High Spec. & Design : ASYG09LTCA / ASYG12LTCA

GOOD DESIGN

reddot design award winner 2012

Wireless R.C.

For ASYG09LTCA

For ASYG12LTCA

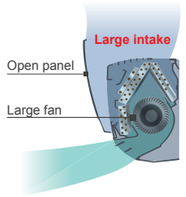
ALL DC

i-PAM | Human Sensor | Up/Down | Adjust | Restart | Auto Changeover | 10°C HEAT | Economy | POWERFUL | Low noise | Sleep | Program | Weekly | Filter | Ion | AF

Features

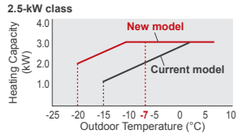
Thin & Slim design

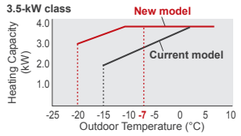
Thin and slim design is realized by high density multi-path heat exchanger and high efficiency wind blower.



Powerful heating

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





Powerful operation mode

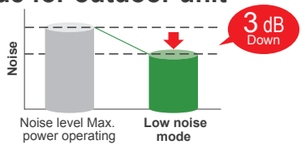
20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.

10°C HEAT Operation

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

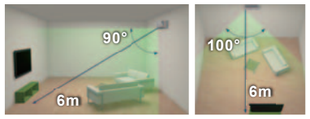
Low noise mode for outdoor unit

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



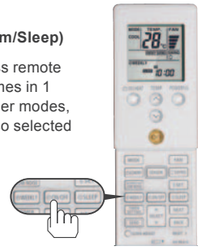
Energy saving control

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

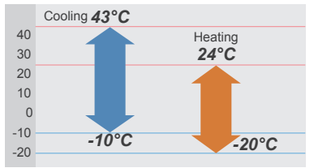


3 Mode timer (Weekly/Program/Sleep)

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



Low ambient operation



Optional parts

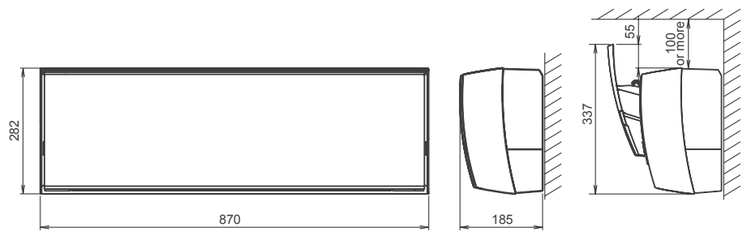
Wired Remote Controller:	UTY-RNNYM / UTY-RVNYM
Simple Remote Controller:	UTY-RSNYM
Communication kit:	UTY-TWBXF

Specifications

Model No.	Indoor unit			ASYG09LTCA	ASYG12LT CA
	Outdoor unit			AOYG09LTC	AOYG12LTC
Power Source			V/Ø/Hz	230/1/50	230/1/50
Capacity	Cooling		kW	2.5 (0.9-3.5)	3.5 (1.1-4.0)
	Heating			3.2 (0.9-5.4)	4.0 (0.9-6.5)
Input Power	Cooling/Heating		kW	0.505/0.660	0.850/0.910
EER	Cooling		W/W	4.95	4.12
COP	Heating			4.85	4.40
Pdesign	Cooling/Heating (@-10℃)		kW	2.5/3.0	3.5/4.0
SEER	Cooling		W/W	8.50	8.50
SCOP	Heating (Average)			4.60	4.60
Energy Efficiency Class	Cooling			A+++	A+++
	Heating (Average)			A++	A++
Running Current	Cooling/Heating		A	2.6/3.3	4.0/4.3
Annual Energy Consumption	Cooling		kWh/a	103	144
	Heating			912	1217
Moisture Removal			l/h	1.3	1.8
Sound Pressure (Cooling)	Indoor	H/M/L/Q	dB(A)	42/36/32/21	43/37/32/21
	Outdoor	High		48	48
Sound Power (Cooling)	Indoor	High		59	60
	Outdoor	High		63	64
Airflow Rate (High)	Indoor / Outdoor		m^3/h	800/1,700	850/2,050
Net Dimension H x W x D	Indoor		mm	282×870×185	282×870×185
			kg(lbs)	9.5 (21)	9.5 (21)
	Outdoor		mm	540×790×290	620×790×290
			kg(lbs)	33 (73)	40 (88)
Piping Connections (Small / Large)			mm	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
Max Pipe Length (Pre-Charge)			m	20 (15)	20 (15)
Max Height Difference				15	15
Operation Range	Cooling		°CDB	-10 to 43	-10 to 43
	Heating			-20 to 24	-20 to 24
Refrigerant (Global Warming Potential)				R410A (1,975)	R410A (1,975)

Dimensions

Models: ASYG09LTCA / ASYG12LTCA (Unit : mm)



High COP : ASYG07LUCA / ASYG09LUCA / ASYG12LUCA / ASYG14LUCA

GOOD DESIGN

reddot design award winner 2012

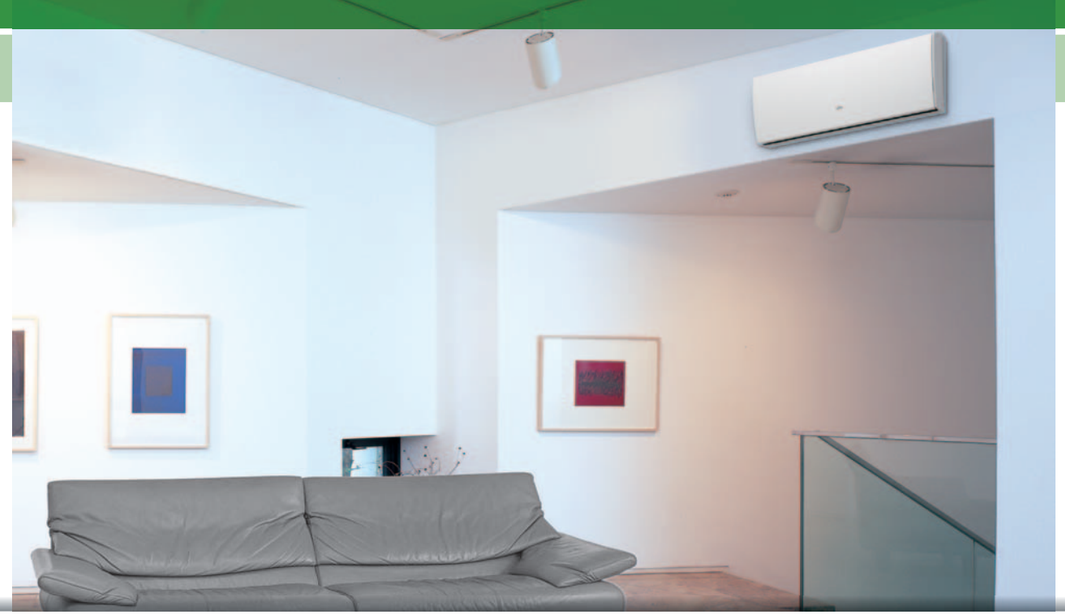
Wireless R.C.

For ASYG07/09LUCA

For ASYG12/14LUCA

ALL DC

i-PAM | Up/Down | Adjust | Restart | Auto Changeover | 10°C HEAT | Economy | POWERFUL | Low noise | Sleep | Program | Weekly | Filter | Ion | AF



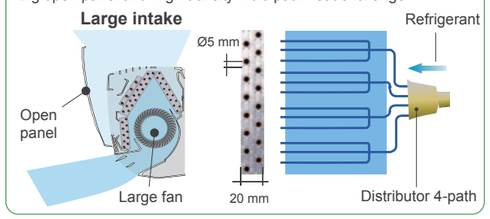
Features

Thin & Slim design

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

H282 X W870 X D185

Big open panel and High density multi path heat exchanger



Powerful operation

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

10°C HEAT Operation

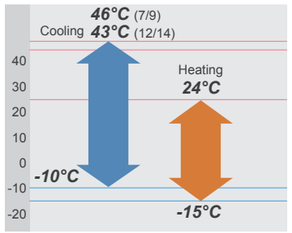
The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied.

*Only available with Wireless RC.

3 Mode timer (Weekly/Program/Sleep)

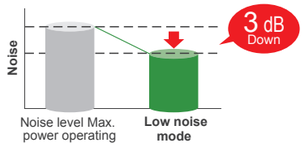
Weekly timer can be easily set by wireless remote controller. ON, OFF can be set up to 4 times in 1 day and up to 28 times in 1 week. For other modes, program timer and sleep timer can be also selected by one push.

Low ambient operation



Low noise mode for outdoor unit

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



Optional parts

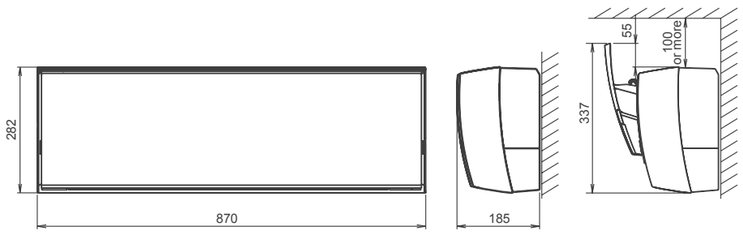
Wired Remote Controller:	UTY-RNNYM, UTY-RVNYM
Simple Remote Controller:	UTY-RSNYM
Communication kit:	UTY-TWBXF

Specifications

Model No.	Indoor unit		ASYG07LUCA	ASYG09LUCA	ASYG12LUCA	ASYG14LUCA
	Outdoor unit		AOYG07LUCA	AOYG09LUCB	AOYG12LUC	AOYG14LUC
Power Source		V/Ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	2.0 (0.5-3.0)	2.5 (0.5-3.2)	3.5 (0.9-4.0)	4.2 (0.9-5.0)
	Heating		3.0 (0.5-4.0)	3.2 (0.5-4.2)	4.0 (0.9-5.6)	5.4 (0.9-6.0)
Input Power	Cooling/Heating	kW	0.460/0.660	0.555/0.680	0.905/0.930	1.235/1.380
EER	Cooling	W/W	4.35	4.50	3.87	3.40
COP	Heating		4.55	4.71	4.30	3.91
Pdesign	Cooling/Heating (@-10°C)	kW	2.0/2.6	2.5/2.8	3.5/3.9	4.2/4.8
SEER	Cooling	W/W	7.20	7.10	7.05	6.78
SCOP	Heating (Average)		4.10	4.10	4.00	4.00
Energy Efficiency Class	Cooling		A++	A++	A++	A++
	Heating (Average)		A+	A+	A+	A+
Running Current	Cooling/Heating	A	2.6/3.4	3.1/3.4	4.6/4.7	5.8/6.3
Annual Energy Consumption	Cooling	kWh/a	97	123	174	217
	Heating		887	956	1363	1677
Moisture Removal		l/h	1.0	1.3	1.8	2.1
Sound Pressure (Cooling)	Indoor H/M/L/Q	dB(A)	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
Net Dimension H x W x D	Indoor	mm	282×870×185	282x870x185	282x870x185	282x870x185
		kg(lbs)	9.5 (21)	9.5 (21)	9.5 (21)	9.5 (21)
	Outdoor	mm	540×660×290	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		-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

Wireless R.C.

For ASYG07/09/12LMCA

For ASYG14LMCA

ALL DC

i-PAM | Up/Down | Adjust | Restart | Auto Changeover | 10°C HEAT | Economy | POWERFUL | Low noise | Sleep | Program | Filter | Ion | AF | Wash

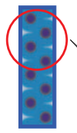
Features

High efficient compact design

High density heat exchanger

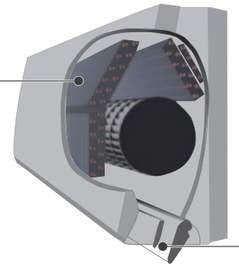
Making the tube thin:
7 mm → 5 mm

Increase of heat exchanger volume by high density and adopting sub heat exchanger



Even temperature

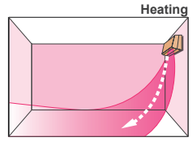
Improved heat exchanger effectiveness



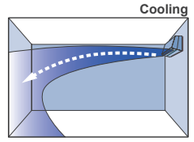
More comfort airflow

Power diffuser

Vertical airflow provides powerful floor level heating.



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



Powerful operation

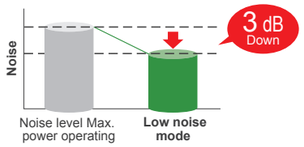
20 minutes continuous operation by maximum airflow and maximum compressor speed is possible. Rapid cooling and heating makes the room comfortable quickly.

10°C HEAT Operation

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

Low noise mode for outdoor unit

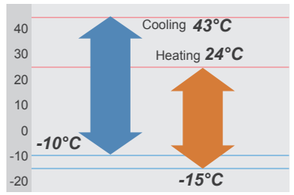
Low noise mode of outdoor unit can be selected by wireless remote controller.



24 hr Programmable timer

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

Low ambient operation



Optional parts

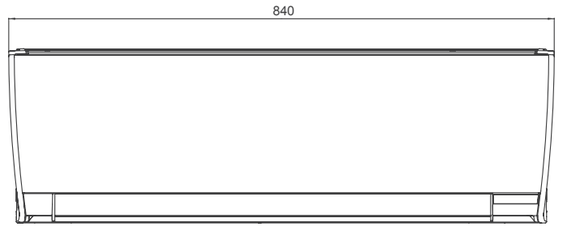
Wired Remote Controller:	UTY-RNNYM, UTY-RVNYM
Simple Remote Controller:	UTY-RSNYM
Communication kit:	UTY-XCBXZ2

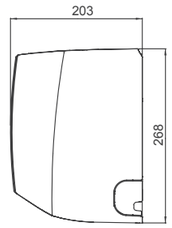
Specifications

Model No.	Indoor unit		ASYG07LMCA	ASYG09LMCA	ASYG12LMCA	ASYG14LMCA
	Outdoor unit		AOYG07LMCA	AOYG09LMCA	AOYG12LMCA	AOYG14LMCA
Power Source		V/ Ø/Hz	230/1/50	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	2.0 (0.5-3.0)	2.5 (0.5-3.2)	3.4 (0.9-3.9)	4.0 (0.9-4.4)
	Heating		3.0 (0.5-3.4)	3.2 (0.5-4.0)	4.0 (0.9-5.3)	5.0 (0.9-6.0)
Input Power	Cooling/Heating	kW	0.465/0.685	0.65/0.73	0.97/1.02	1.135/1.365
EER	Cooling	W/W	4.30	3.85	3.50	3.52
COP	Heating		4.38	4.38	3.92	3.66
Pdesign	Cooling/Heating (@-10°C)	kW	2.0/2.3	2.5/2.4	3.4/3.5	4.0/3.9
SEER	Cooling	W/W	6.80	7.00	7.00	6.90
SCOP	Heating (Average)		4.10	4.10	4.00	4.00
Energy Efficiency Class	Cooling		A++	A++	A++	A++
	Heating (Average)		A+	A+	A+	A+
Running Current	Cooling/Heating	A	2.5/3.3	3.2/3.5	4.6/4.8	5.3/6.3
Annual Energy Consumption	Cooling	kWh/a	103	125	170	203
	Heating		786	820	1225	1365
Moisture Removal		l/h	1.0	1.3	1.8	2.1
Sound Pressure (Cooling)	Indoor H/M/L/Q	dB(A)	43/40/32/21	43/40/32/21	43/40/32/21	44/40/33/25
	Outdoor High		45	45	50	49
Sound Power (Cooling)	Indoor High		59	59	59	60
	Outdoor High		58	58	61	63
Airflow Rate (High)	Indoor / Outdoor	m³/h	750/1670	750/1670	750/1830	750/1800
Net Dimension H x W x D	Indoor	mm	268X840X203	268X840X203	268X840X203	268X840X203
		kg(lbs)	8.5 (19)	8.5 (19)	8.5 (19)	8.5 (19)
	Outdoor	mm	535X663X293	535X663X293	535X663X293	540X790X290
		kg(lbs)	21 (46)	21 (46)	26 (57)	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		-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant (Global Warming Potential)			R410A (1,975)	R410A (1,975)	R410A (1,975)	R410A (1,975)

Dimensions

Models : ASYG07LMCA / ASYG09LMCA / ASYG12LMCA / ASYG14LMCA (Unit : mm)





Wall Mounted

Basic : ASYG07LLCC / ASYG09LLCC / ASYG12LLCC

Wireless R.C.

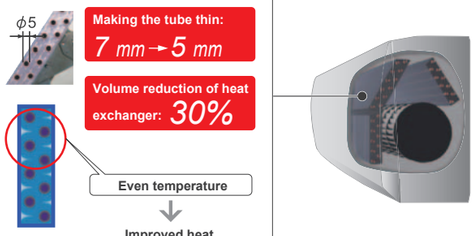
ALL DC

i-PAM | Up/Down | Adjust | Restart | Auto Changeover | Economy | POWERFUL | Sleep | Program | Filter | Wash

Features

High efficient compact design

High density heat exchanger

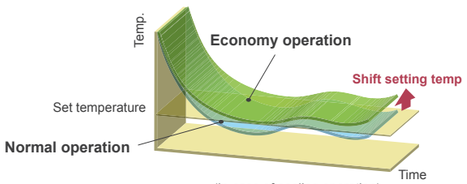


Powerful operation

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

Economy operation

Setting temp. is shifted by 1°C automatically.

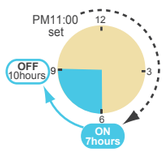


(In case of cooling operation)

ON-OFF Programmable timer

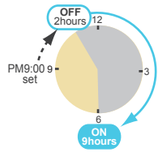
You can set an integrated ON-OFF or OFF-ON timer suitable for your life style.
(Setting time: 0.5, 1, 1.5, 2, 2.5, -----9.5, 10, 11, 12 hours)

From wake up to go to work



ON-OFF timer

From sleep to wake up



OFF-ON timer

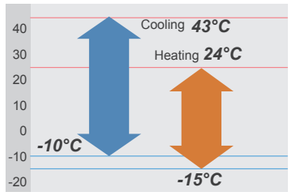
Super Quiet Operation

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.

Fan speed ***Quiet***

Noise level ***22 dB (A)***

Low ambient operation



Optional parts

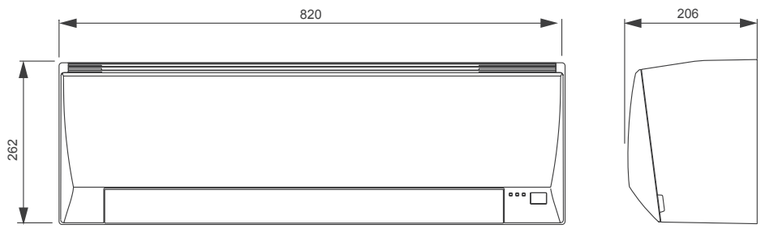
Remote Controller Holder: UTZ-RXLA

Specifications

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

Dimensions

Models : ASYG07LLCC / ASYG09LLCC / ASYG12LLCC (Unit : mm)



Standard : ASYG18LFCA / ASYG24LFCC / ASYG30LFCA

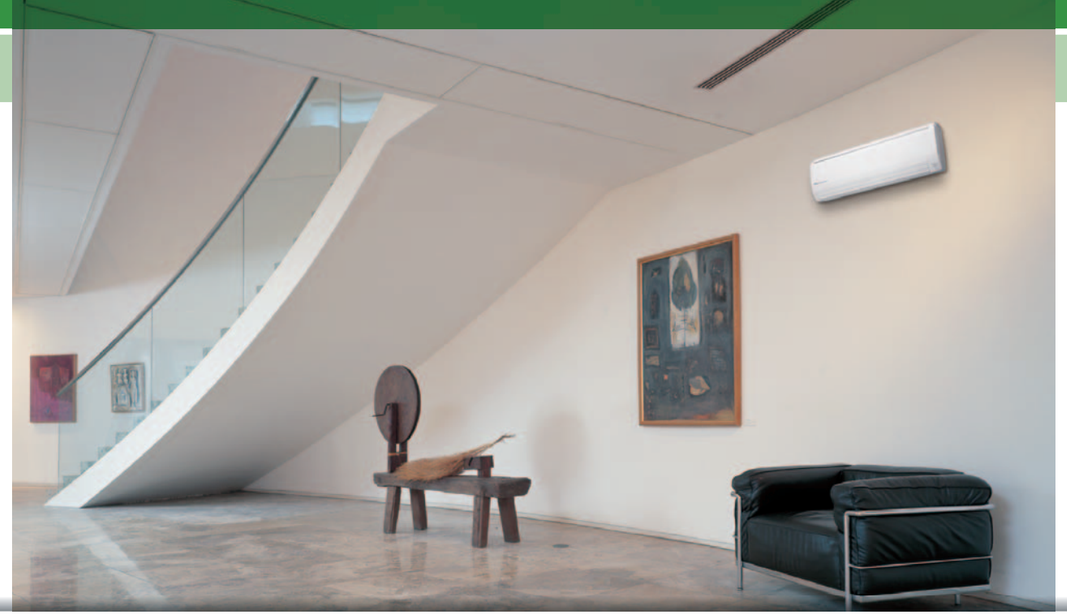
Wireless R.C.

For ASYG18LFCA
ASYG24LFCC

For ASYG30LFCA

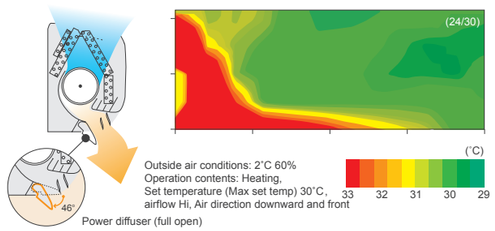
ALL DC

(24) (18/30) V-PAM · i-PAM · Double · Adjust · Restart · Auto Changeover · 10°C HEAT · Economy · Sleep · Program · Filter · Ion · AF · Wash



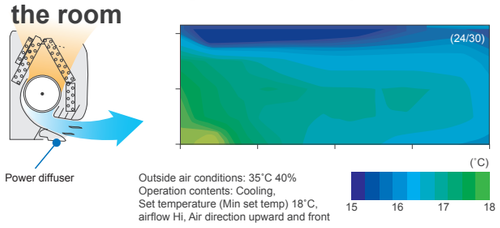
Features

"Vertical airflow" provides powerful floor level heating



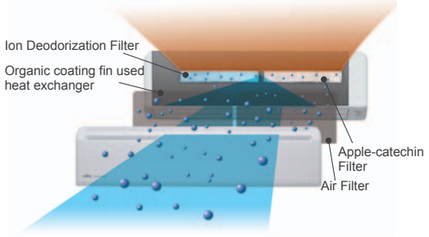
Outside air conditions: 2˚C 60%
Operation contents: Heating,
Set temperature (Max set temp) 30˚C,
airflow Hi, Air direction downward and front

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



Outside air conditions: 35˚C 40%
Operation contents: Cooling,
Set temperature (Min set temp) 18˚C,
airflow Hi, Air direction upward and front

Air conditioner filter features



Antibacterial deodorizing pre-filter with special ceramic powder

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.

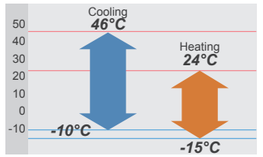
Flexible Installation

	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

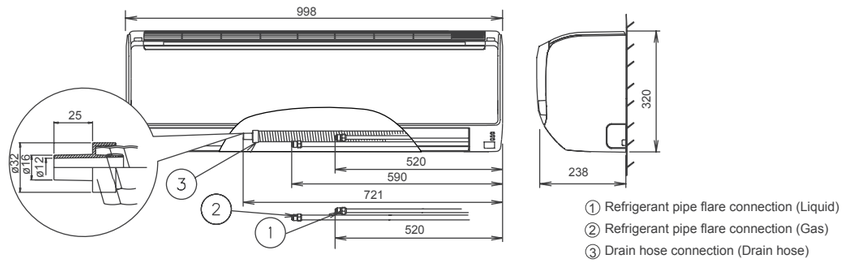
Simple Remote Controller: UTY-RSNYM

Specifications

Model No.	Indoor unit			ASYG18LFCA	ASYG24LFCC	ASYG30LFCA
	Outdoor unit			AOYG18LFC	AOYG24LFCC	AOYG30LFT
Power Source			V/Ø/Hz	230/1/50	230/1/50	230/1/50
Capacity	Cooling		kW	5.2 (0.9-6.0)	7.1 (0.9-8.0)	8.0 (2.9-9.0)
	Heating			6.3 (0.9-9.1)	8.0 (0.9-10.6)	8.8 (2.2-11.0)
Input Power	Cooling/Heating		kW	1.52/1.71	2.20/2.21	2.49/2.44
EER	Cooling		W/W	3.42	3.23	3.21
COP	Heating			3.68	3.61	3.61
Pdesign	Cooling/Heating (@-10°C)		kW	5.2/5.9	7.1/7.1	8.0/8.0
SEER	Cooling		W/W	6.94	6.11	5.69
SCOP	Heating (Average)			3.87	3.80	3.80
Energy Efficiency Class	Cooling			A++	A++	A+
	Heating (Average)			A	A	A
Running Current	Cooling/Heating		A	6.8/7.6	9.7/9.7	10.9/10.7
Annual Energy Consumption	Cooling		kWh/a	262	406	492
	Heating			2130	2610	2941
Moisture Removal			l/h	2.6	2.7	3.2
Sound Pressure (Cooling)	Indoor	H/M/L/Q	dB(A)	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		m^3/h	900/2150	1120/2460	1100/3600
Net Dimension H x W x D	Indoor		mm	320X998X238	320X998X238	320X998X238
			kg(lbs)	14 (31)	14 (31)	14 (31)
	Outdoor		mm	620X790X298	620X790X298	830X900X330
			kg(lbs)	41 (90)	41 (90)	61 (135)
Piping Connections (Small / Large)			mm	6.35/12.8	6.35/15.88	9.52/15.88
Drain Hose Diameter (I.D./O.D.)				12/16	12/16	12/16
Max Pipe Length (Pre-Charge)			m	25 (15)	30 (15)	50 (20)
Max Height Difference				20	20	30
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24
Refrigerant (Global Warming Potential)				R410A (1,975)	R410A (1,975)	R410A (1,975)

Dimensions

Models : ASYG18LFCA / ASYG24LFCC / ASYG30LFCA (Unit : mm)



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

Model : AGYG09LVCA / AGYG12LVCA / AGYG14LVCA

Wireless R.C.

For AGYG09/12LVCA

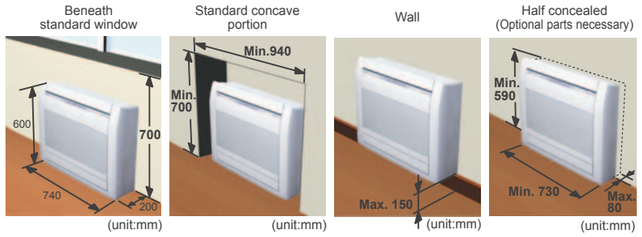
For AGYG14LVCA

ALL DC

V-PAM | Up/Down | Adjust | Restart | Auto Changeover | 10°C HEAT | Economy | Sleep | Program | Filter | Ion | AF | Wash

Features

Flexible & easy installation



(unit:mm) (unit:mm) (unit:mm) (unit:mm)

Filter features

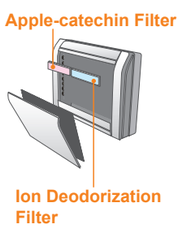
Ion Deodorization Filter

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.

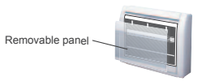


10°C HEAT Operation

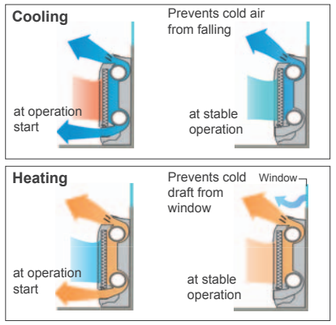
The room temperature can be set to go no lower than 10°C, thus ensuring that the room does not get too cold when not occupied

Easy maintenance

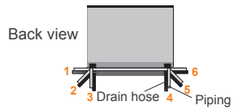
Removable and washable panel



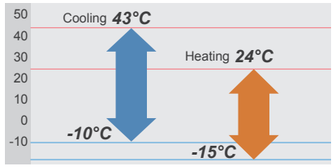
2-Fan & Wide airflow



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/Ø/Hz	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	2.6 (0.-3.5)	3.5 (0.9-4.0)	4.2 (0.9-5.0)
	Heating		3.5 (0.9-5.5)	4.5 (0.9-6.6)	5.2 (0.9-8.0)
Input Power	Cooling/Heating	kW	0.53/0.79	0.94/1.19	1.14/1.44
EER	Cooling	W/W	4.91	3.72	3.68
COP	Heating		4.43	3.78	3.61
Pdesign	Cooling/Heating (@-10°C)	kW	2.6/2.9	3.5/3.8	4.2/4.7
SEER	Cooling	W/W	7.00	6.50	6.40
SCOP	Heating (Average)		4.20	4.00	4.00
Energy Efficiency Class	Cooling		A++	A++	A++
	Heating (Average)		A+	A+	A+
Running Current	Cooling/Heating	A	2.6/3.8	4.4/5.5	5.2/6.4
Annual Energy Consumption	Cooling	kWh/a	130	188	230
	Heating		967	1330	1645
Moisture Removal		l/h	1.3	1.8	2.1
Sound Pressure (Cooling)	Indoor H/M/L/Q	dB(A)	40/35/29/22	40/35/29/22	44/38/31/22
	Outdoor High		47	48	50
Sound Power (Cooling)	Indoor High		55	55	58
	Outdoor High		64	64	65
Airflow Rate (High)	Indoor / Outdoor	m^3/h	570/1680	570/1680	650/1910
Net Dimension H x W x D	Indoor	mm	600x740x200	600x740x200	600x740x200
		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 to16.7	13.8/15.8 to 16.7
Max Pipe Length (Pre-Charge)		m	20 (15)	20 (15)	20 (15)
Max Height Difference			15	15	15
Operation Range	Cooling	°CDB	-10 to 43	-10 to 43	-10 to 43
	Heating		-15 to 24	-15 to 24	-15 to 24
Refrigerant (Global Warming Potential)			R410A (1,975)	R410A (1,975)	R410A (1,975)

Dimensions

Models : AGYG09LVCA / AGYG12LVCA / AGYG14LVCA (Unit : mm)