

AIR CONDITIONERS LINEUP

PRODUCT CATALOGUE 2017

FUJITSU

AIR CONDITIONING



FUJITSU GENERAL AIR CONDITIONING (UK)

OUR SOLUTIONS FOR ALL BUILDING TYPES



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OUR POLICY 2017

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

In 2017,
Fujitsu General will provide
air conditioning systems focused
on these three elements.



**GREEN
SOLUTIONS**



**SOLUTIONS
FOR DIFFERENT
BUILDING
TYPES**



**UNIQUE
AIR CONDITIONING
FEATURES**



SOLUTIONS FOR DIFFERENT BUILDING TYPES

Fujitsu General provides
the best solutions suitable
for all types of buildings.

Solution Point

We provide Fujitsu General
solutions for all property
requirements.



Target Building Types

LIGHT COMMERCIAL

For Small offices,
Shops and Restaurants
etc.

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



COMMERCIAL

For Large Buildings and
Hotels

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

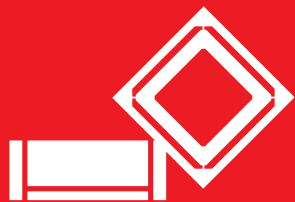


RESIDENTIAL

For Houses
and Large apartments etc.

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





UNIQUE AIR CONDITIONING FEATURES

Fujitsu General creates unique brand value by developing products closely tied to the market.

Advanced Airflow

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

NEW

nocriaTMX

On page
030



The Dual Side Fans

Power Diffuser



*1, *2, *3, *4

Advanced Technology

nocriaTMX Is Compilation of **WORLD'S FIRST** original technologies

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

*2: Announced 1994. In room air conditioner for the home (our company's investigation)

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

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



The Dual Side Fans^{*1}



Power Diffuser^{*2}



Filter Auto Clean^{*3}

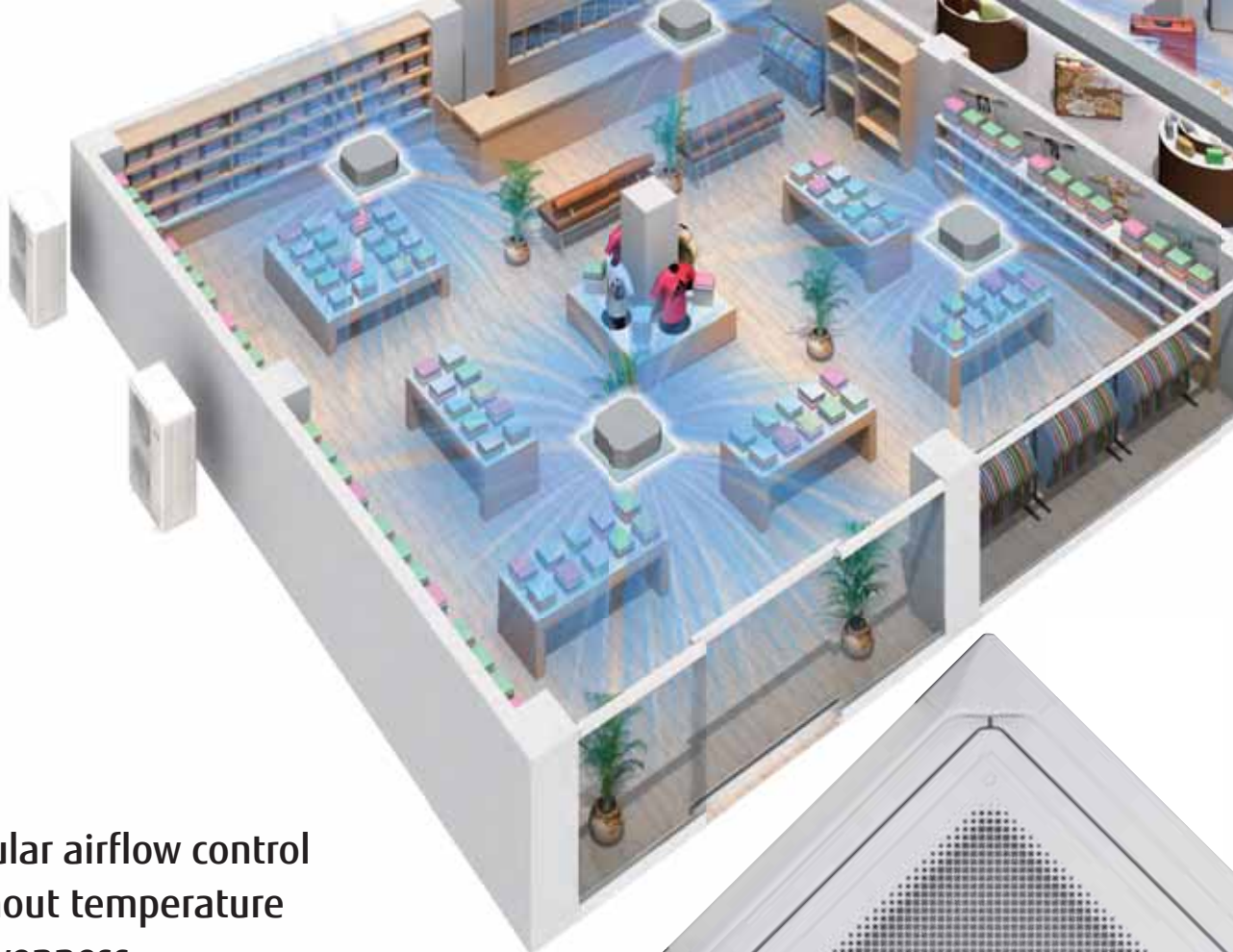


Lambda Heat Exchanger^{*4}

Developed by us.

Our own world's first technologies are the standards now.

Power Diffuser and Lambda Heat Exchanger are also equipped with our Wall Mounted type products.



Circular airflow control without temperature unevenness.

Circular Airflow Cassette

- Improved installation in office environments
- Optimum operation by monitoring the room temperature and people's movement with optional sensor

On page
050



Advanced Design

Beautiful designs from all angles Circular Airflow Cassette



On page
050

Many globally authoritative design awards attained.

Split Wall Mounted

On page
036



reddot design award
winner 2012





Fujitsu General is promoting air conditioning development according to environmental regulations in Europe.

Green Aspect for Refrigerant

EU strengthen F-gas Regulation introduced 2014.

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

Key elements

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

Fujitsu General works on the reduction of HFC with innovative efforts

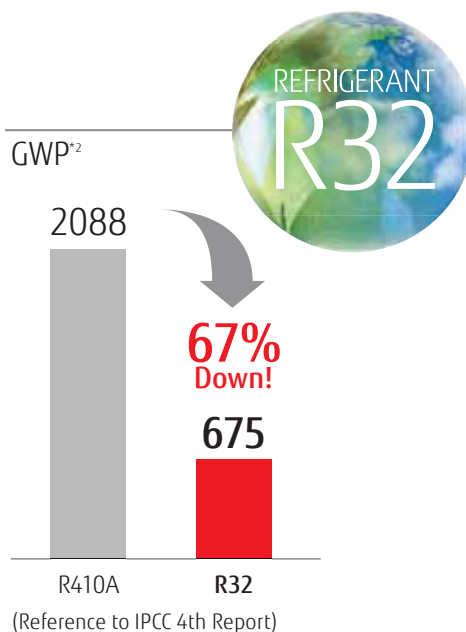
New refrigerant R32 for the reduction of the global warming potential.

Key points

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

^{*1} ODP (Ozone-Depleting Potential): This is the relative value indicating the impact of ozone-depleting substances per unit weight if they are emitted into the atmosphere when CFC-11 (trichlorofluoromethane, CCl₃F) is considered to be 1.0.

^{*2} GWP (Global-Warming Potential): This is the number that indicates the global warming capability of other greenhouse gases with reference to carbon dioxide as the standard. This is the estimated integration value, which is indicated as a ratio to CO₂, of the radiant energy given to the earth (i.e., Impact on global warming).



Models equipped with the New R32 Refrigerant



On page
030

nocris™ X



On page
032

Wall Mounted

Our Pioneering Efforts Make a Green Future

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

20% Less Primary Energy Use

Fujitsu General products with high efficiency and therefore low electrical input.

20% Less CO₂ Emissions

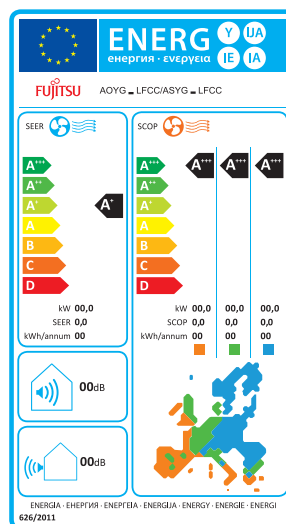
Fujitsu General products following the F-gas regulation 842/2006/EC

20% Share of Renewable Energy

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

New Energy Labelling Requirement 626/2011/EU:

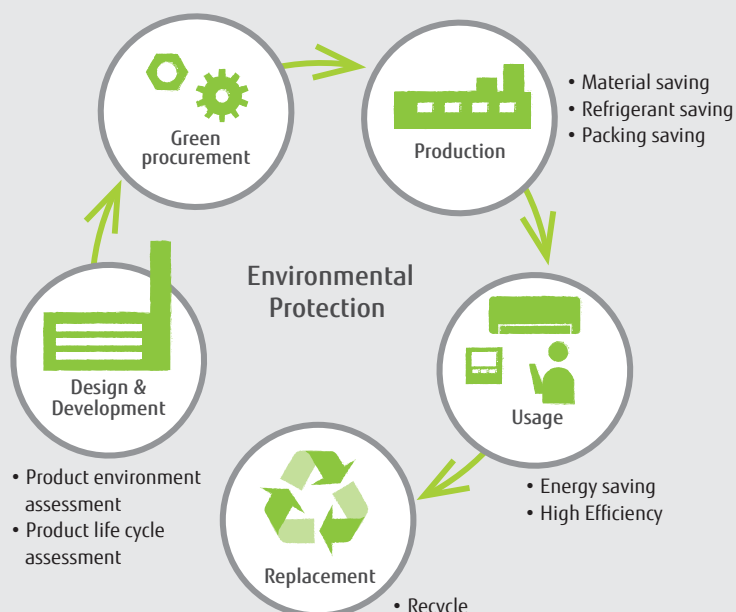
Our Air Conditioners have reached the "Class A" ranking, the highest energy efficiency level that is now shown on energy labels in Europe.



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

Environmental Protection and Company Activities.

The Fujitsu General Group is working to improve its environmental friendliness by building an environmental management system(EMS); taking environmental protection measures throughout the product life-cycle of materials procurement, product development and design, manufacturing, and recycling; and by taking the environment into consideration during business activities such as by saving energy and resources and reducing waste.



AIRSTAGE™/RAC SUPPORT TOOL

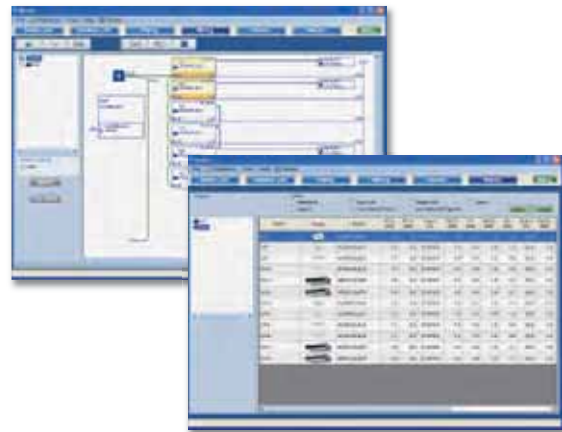
Put the charts and pens away and design your projects on your computer with ease using the Design Simulator. Everything from selecting indoor and outdoor units, allocating controls and optional parts to designing the piping and wiring systems is made easier using the program's built-in features.

Once your project is designed take advantage of the Export functions to easily get materials lists, product specifications, refrigerant calculations and more - it'll even export to Word, Excel, or Acrobat formats, and group the relevant CAD data for your project.

Design Simulator

Automatically create model selection information

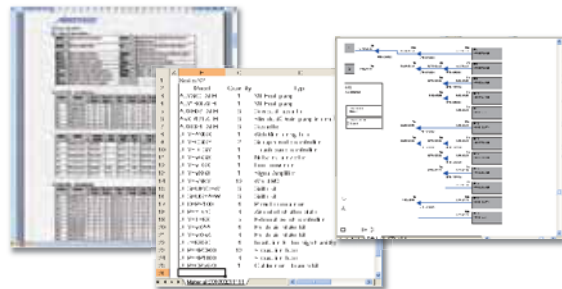
- Each unit can be automatically set by entering the required performance, type, and temperature conditions for each indoor unit and then dragging and dropping into the outdoor unit.
- Piping and wiring diagrams can be created automatically and it is easy to set branches, grouping, and options.
- The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

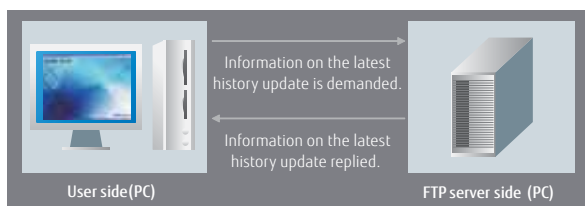
The information specific to your project can be exported in a number of industry standard file formats.

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



Update your Design Simulator

Database can be easily updated online using Auto Update function through FTP.

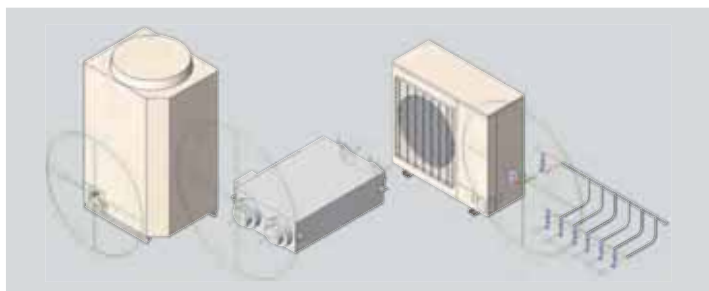


BIM Building Information Modelling

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

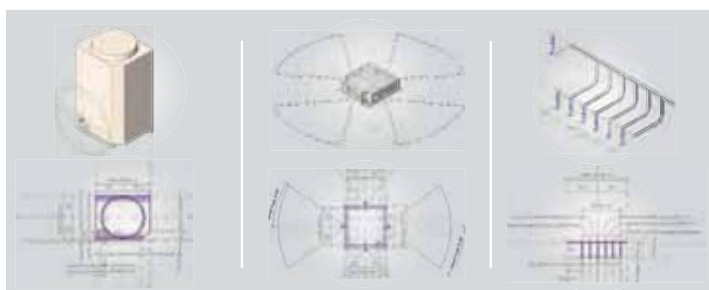
3D and 2D product data

We provide 3D data that closely resemble the actual product appearance. 2D CAD design operations are supported and 2D display is also provided. The data can also be output in other formats, such as DXF and DWG, which are used by other design CAD.



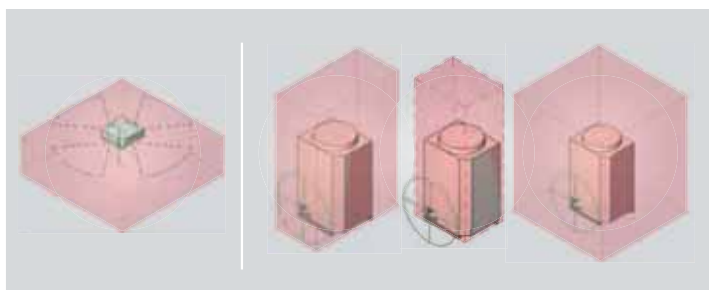
Installation limitation

The equipment installation limitation range is shown. Installation requirements, such as distance from the wall, is automatically displayed to make it easy to produce highly reliable layout designs.



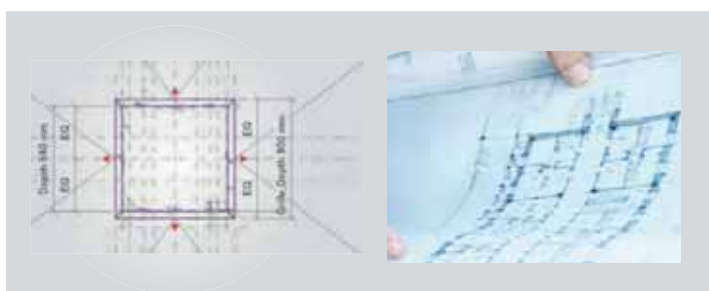
Installation information

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



Product specifications & link information

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



QUICK SERVICE & MAINTENANCE

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

Mobile troubleshooting tool for iPhone & Android



We have released a Troubleshooting Tool App to be used on Android and Apple products. This application is a troubleshooting tool for Fujitsu General air conditioning products (RAC/VRF)

It helps you to check for Error codes, Sensor check, Troubleshooting and to check the condition of the air conditioner.



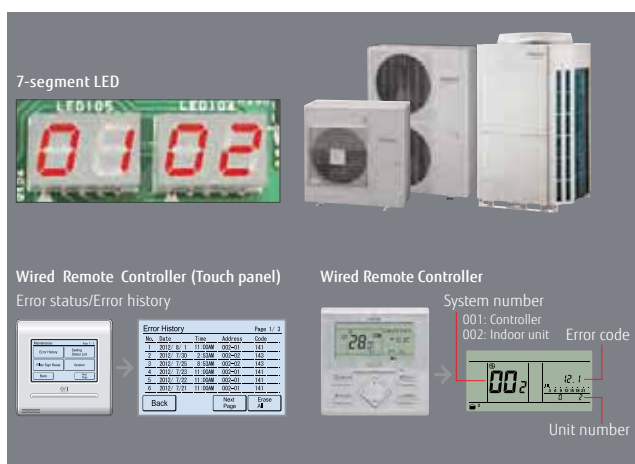
Easy maintenance & monitoring

Design for easy maintenance

The air conditioner operating status and error 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 a quick response is also possible.

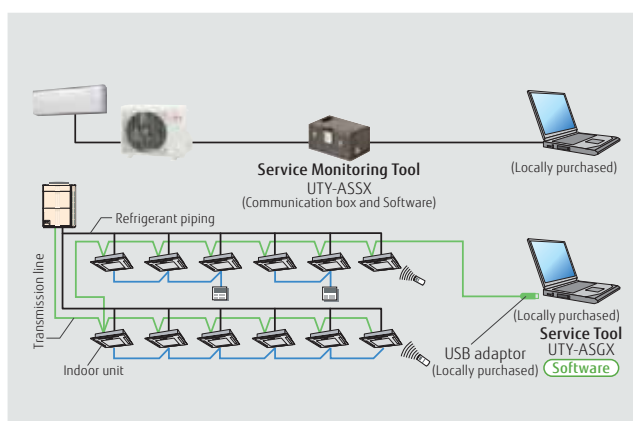
- Operation mode status
- Discharge temperature/Pressure status
- Compressor operation indication
- Address/Type/Number of outdoor unit
- Error code.



Error diagnosis by Service Tool

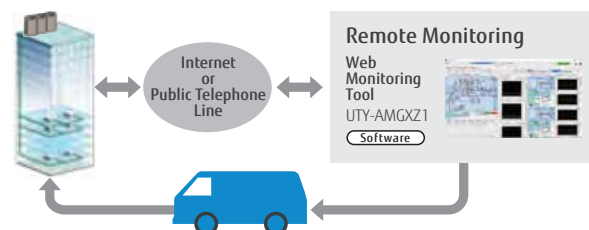
The unit status details from single split models to a VRF system can be checked on a PC screen by connecting the Service Tool.

- Operation status/control
- Monitoring operating condition
- Monitoring sensor data
- Indication of trend graph
- Error history
- Indication of refrigerant circuit diagram (For VRF)



Remote monitoring

VRF system operating status and trouble status details can be constantly and remotely monitored over the Internet, etc. Rapid cooperation with the service personnel are also possible



2017 NEW PRODUCTS

For SPLITS

Wall Mounted Flagship Range Series **nocria™ X** Page 030

- 9/12 class 2 models
- Comfortable airflow control to prevent the body from being exposed to draughts



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

Wall Mounted Designer Range Series Page 032

- 7/9/12/14 class 4 models
- Slim & stylish square design
- High performance and low noise model with an emphasis on its design



Wall Mounted Standard Range Series Page 038

- 7 to 14 class 4 models
- High efficient compact design
- Standard Range Series High Efficiency & Comfort



Wall Mounted ECO Range Series Page 044

- 9/12 class 2 models
- ECO Range Series Compact & Comfort





5-6 Rooms Multi Page 078

- 36/45 class Single phase 2 models
- Wide range of indoor units with various models
- Compact design
- Easy installation
- Centralized control by Home Controller



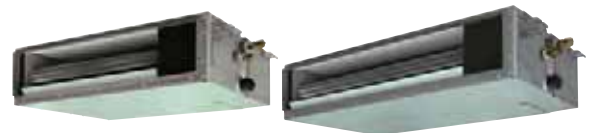
Big Duct Page 066

- 72/90 class 2 models
- Separation is possible by lightweight compact design
- Automatic Airflow adjustment function
- High Efficiency & Quiet operation



Bulkhead Duct Page 054

- 12/14/18 class 3 models
- Large living space available
- Optimum airflow path and low noise operation
- Auto Louvre Grille Kit (Option)
- Micro design duct for narrow ceiling only 450 mm depth 198 mm Height



2017 NEW PRODUCTS

For VRF



Indoor Units For Small & Large VRF

Page 162-169

- 4 type 31 models
- The substantial capacity range and indoor unit type to suit various room size and layout
- High seasonal energy efficiency
- Low ambient operation



Small VRF AIRSTAGE™ J-III L

Page 140~143

- 8 to 12 HP class 3 phase 3 models
- Compact Design
- Small Room Application
- Top Class Low Operating Sound
- Up to 30 units can be connected



Circular Flow Cassette
Slim & Large type
18 to 54 class models



Wall Mounted
Compact & Comfort
7 to 9 class models



Bulkhead Duct
7-12 class models



Wall Mounted
Standard Range Series Large Capacity
18/24 class 2 models



Compact Floor
7 to 14 class 4 models



Wall Mounted
Standard Range Series New Design
30/34 class 2 models



AIRSTAGE J-IIS



AIRSTAGE J-III



AIRSTAGE J-III L



AIRSTAGE VR-II

AIRSTAGE V-III

Optional Parts

Individual Control

Wired Remote Controller (Touch Panel) Page 176

- Easy-to-use and highly-functional controllers
- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.



Simple Remote Controller Page 178

- Up to 16 indoor units can be controlled
- Simple design to match the stylish interior.
- Large LCD screen & simple operation buttons



Centralised Control

Touch Panel Controller Page 184

- Up to 400 indoor units can be controlled
- Control and monitor Fujitsu's air conditioner via LAN or Internet.
- Easy maintenance & installation



System Controller Software

System Controller Lite Software

Page 186

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.*
- Simple BMS, 3rd party supported by Modbus communication can be controlled.



*: System controller lite = Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.

Converter/Adaptor

Various Convertors

Page 190

- 4 models of hardware and software are available on the market all together.

BACnet® Gateway
Page 190~191

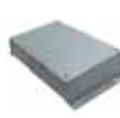


Software



Hardware

KNX® Converter
Page 193



For VRF



For indoor unit
for Splits

External Switch Controller
Page 194



Service & Maintenance Tool

Service Tool & Web Monitoring Tool Software

Page 196~197

- Extensive monitoring and analysis functions for installation and maintenance
- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Automatic operation check for refrigeration cycle.



SPLIT SYSTEMS





SPLIT

- 022 PRODUCT LINEUP
- 026 Feature Explanation & Summary
- 030 Wall Mounted Flagship Range Series

nocria™ X

- 032 Wall Mounted Designer Range Series
 - High Spec & Design
 - High COP
- 038 Wall Mounted Standard Range Series
 - High Efficiency & Comfort
 - Comfort for Large Room
- 042 Wall Mounted Standard Range Series
- 044 Wall Mounted ECO Range Series
- 046 Floor
- 048 Cassette Compact 4-way Flow Series
- 050 Cassette Circular Flow Series
- 052 Cassette 4-way Flow Series
- 054 Bulkhead Duct
- 056 Slim Duct
- 058 Medium Static Pressure Duct
- 062 High Static Pressure Duct
- 066 Big Duct
- 068 Floor/Ceiling
- 070 Ceiling

SPLIT Indoor Units

Type	Series	BTU		
		7	9	12
NEW Flagship Range Series nocria^X Page 030			 ASYG09KXCA	 ASYG12KXCA
NEW Designer Range Series High Spec & Design Page 032		 ASYG07KGCA*	 ASYG09KGCA*	 ASYG12KGCA*
Designer Range Series High Spec & Design Page 034			 ASYG09LTCA	 ASYG12LTCA
Designer Range Series High COP Page 036		 ASYG07LUCA	 ASYG09LUCA	 ASYG12LUCA
NEW Standard Range Series High Efficiency & Comfort Page 038		 ASYG07LMCE	 ASYG09LMCE	 ASYG12LMCE
Standard Range Series Comfort for Large Room Page 040				
Standard Range Series New Design & Large Capacity Page 042				
NEW ECO Range Series Compact & Comfort Page 044			 ASYG09LLCE	 ASYG12LLCE
Floor Compact & Comfort Page 046			 AGYG09LVCA	 AGYG12LVCA



FUJITSU GENERAL (Euro) GmbH participates in the ECP programme for AIR CONDITIONERS. Check ongoing validity of certificate: www.eurovent-certification.com or using www.certiflash.com
* Models so marked are not Eurovent certified, at time of print.

BTU				
14	18	24	30	36
 ASYG14KGCA*				
 ASYG14LUCA				
 ASYG14LMCE				
	 ASYG18LFCA	 ASYG24LFCC		
			 ASYG30LMTA	 ASYG36LMTA
 AGYG14LVCA				



SPLIT Indoor Units

Type	Series	BTU				
		12	14	18	24	
Cassette Page 048~	Compact 4-way Flow Series Compact & Comfort Page 048	 AUYG12LVLB	 AUYG14LVLB	 AUYG18LVLB	 AUYG24LVLA	
	Circular Flow Series Comfort for Large Room Page 050			 AUXG18LRLB	 AUXG24LRLB	
	4-way Flow Series Comfort for Large Room Page 052					
Duct Page 054~	 Bulkhead Duct Page 054	 ARYG12LSLAP*	 ARYG14LSLAP*	 ARYG18LSLAP*		
	Slim Duct Page 056	 ARYG12LLTB	 ARYG14LLTB	 ARYG18LLTB		
	 Medium Static Pressure Duct Compact & Comfort Page 058	 ARYG12LHTBP	  ARYG14LHTBP	 ARYG18LHTBP	 ARYG24LHTBP	
	Medium Static Pressure Duct Standard Page 060				 ARYG24LMLA	
	High Static Pressure Duct Page 062					
	 Big Duct Page 066					
Floor/Ceiling Comfort & Dual Design Page 068				 ABYG18LVTB	 ABYG24LVTA	
Ceiling Comfort a Large Room Page 070						



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* Models so marked are not Eurovent certified, at time of print.

BTU							
	30	36	45	54	60	72	90
	 AUXG30LRLB	 AUXG36LRLB	 AUXG45LRLB	 AUXG54LRLB			
	 AUYG30LRLE	 AUYG36LRLE AUYG36LRLA	 AUYG45LRLA	 AUYG54LRLA			
	 ARYG30LHTBP	 ARYG36LHTBP	 ARYG45LHTBP	 ARYG54LHTBP			
	 ARYG30LMLE	 ARYG36LMLE ARYG36LMLA	 ARYG45LMLA				
			 ARYG45LHTA	 ARYG54LHTA	 ARYG60LHTA	 ARYC72LHTA	 ARYC90LHTA
						 ARYG72LHTA*	 ARYG90LHTA*
	 ABYG30LRTE	 ABYG36LRTE ABYG36LRTA	 ABYG45LRTA	 ABYG54LRTA			

SPLIT Feature Explanation

Energy Saving Function



Dual side fans

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



Room temperature set point limitation

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



Save human sensor

Human sensor detects the movement of people in the room to operate the energy saving function / operation.



Set temperature auto return

The setting temperature automatically returns to the previously set temperature.



Economy mode

Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.

Comfortable Function



Powerful heating

Keeping the rated heating capacity even when the outdoor ambient temperature is -7°C.



10°C HEAT operation

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



Up/down swing flaps

The up/down flaps automatically swing up and down.



Auto restart

In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once power supply is restored.



Power diffuser

An additional louvre that opens based on monitoring sensors to quickly enhance immediate comfort needs.



Low noise mode

Sound noise level of outdoor unit can be selected.



Double swing automatic

Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.



Fresh air intake

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



Powerful mode

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



Auto-changeover

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



Automatic fan speed

The micro-computer automatically adjusts the airflow effectively to follow the changes of room temperature.



Server room operation

Interlock operation is possible by connecting 2 indoor units even in the low temperature.

Convenient Function



Auto off timer

Automatically stops operation when a fixed time has elapsed from the start of operation.



Weekly timer

Different ON-OFF times can be set for each day.



External error output



Sleep timer

The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.



Weekly + setback timer

Weekly + Setback timer can set temperature for two time spans and for each day of the week.



External ON/OFF input



Program timer

This digital timer allows selection of one of four options: ON, OFF, ON » OFF or OFF » ON.



Filter sign

Indicates the filter cleaning period by lamp.



Wireless LAN control

The exclusive Wi-Fi adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.

Clean Function



Plasma air clean

The electrostatic precipitator removes dust particles such as pollens and house dust. It is washable so can be kept clean.



Apple-catechin filter

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



Filter auto clean

The dust collected by the air filter is automatically removed. A routine disposal of the dust stored in the dust box is necessary.



Washable panel

Since the front panel is easy to remove, maintenance is also easy.



Ion deodorisation filter

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

Installation



Drain pump as standard



Blue fin



ALL DC models



i-PAM control models

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



V-PAM control models

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



SPLIT Feature Summary

Type		Wall Mounted								Floor
		Flagship Range	Designer Range			Standard Range			ECO Range	
Model No.		ASYG09/12 KXCA	ASYG07/09/12/14KGCA	ASYG09/12 LTCA	ASYG07/09/12/14LUCA	ASYG07/09/12/14LMCE	ASYG18/30 LFCA, ASYG24LFCC	ASYG30/36 LMTA	ASYG07/09/12LLCE	AGYG09/12/14LVCA
Energy Saving Function	Dual side fans	●								
	Save human sensor	●	●	●		●		●		
	Economy mode	●	●	●	●	●	●	●	●	●
	Room temperature set point limitation		○	○	○	○	○	○		○
	Set temperature auto return		○	○	○	○	○	○		○
Comfortable Function	Server room operation							●		
	Powerful heating			●						
	Power diffuser	●				●	●			
	Powerful mode	●	●	●	●	●		●		
	10°C HEAT operation	●	●	●	●	●	●	●	●	●
	Low noise mode	●	●	●	●	●		●		
	Auto-changeover	●	●	●	●	●	●	●	●	●
	Up/down swing flaps			●	●				●	●
	Double swing automatic	●	●			●	●	●		
	Automatic fan speed	●	●	●	●	●	●	●	●	●
	Auto restart	●	●	●	●	●	●	●	●	●
	Fresh air intake									
	Convenient Function	Auto off timer		○	○	○	○	○	○	
Sleep timer		●	●	●	●	●	●	●	●	●
Program timer		●	●	●	●	●	●	●	●	●
Weekly timer			●	●	●	●		●		
Weekly + setback timer			○	○	○	○	○	○		○
Filter sign			○	●	●	○	●	●	●	●
External error output			○	○	○	○	○	○		○
External ON/OFF input			●	○	○	○	○	○		○
Clean Function	Wireless LAN control	●	○	○	○	○	○	○		○
	Plasma air clean	●								
	Filter auto clean	●								
	Ion deodorisation filter		○	●	●	●	●	●		●
	Apple-catechin filter		○	●	●	●	●	●		●
Installation	Washable panel					●	●	●	●	●
	Drain pump as standard									
	Blue fin						●	●		

○: Optional function

SPLIT Feature Explanation

Energy Saving Function



Save human sensor

Human sensor detects the movement of people in the room to operate the energy saving function / operation.



Save & Stop human sensor

Human sensor (option) detects movement of people in the room and decides whether to save energy or stop the unit.



Economy mode

Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.



Room temperature set point limitation

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



Set temperature auto return

The setting temperature automatically returns to the previously set temperature.

Comfortable Function



Low noise mode

Sound noise level of outdoor unit can be selected.



Auto-changeover

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



Up/down swing flaps

The up/down flaps automatically swing up and down.



Double swing automatic

Complex swing action of flaps enables automatically to swing both horizontal and vertical directions.



Automatic fan speed

The micro-computer automatically adjusts the airflow effectively to follow the changes of room temperature.



Auto restart

In the event of a temporary power failure, the air conditioner will automatically restart in the same operating mode as before, once power supply is restored.



Connectable fresh air duct

Outside air can be introduced by attaching Locally purchased duct to fresh air knockout and optional part.



Fresh air intake

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



Connectable distributing duct

Systems are capable of attaching Locally purchased branch ducts distributing the airflow.



Individual airflow direction control

Each louver of 4-way Cassette type can be controlled individually and provides comfortable airflow.



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.

Convenient Function



Auto off timer

Automatically stops operation when a fixed time has elapsed from the start of operation.



Sleep timer

The micro-computer gradually changes the room temperature automatically to afford a comfortable night's sleep.



Program timer

This digital timer allows selection of one of four options: ON, OFF, ON » OFF or OFF « ON.



Weekly timer

Different ON-OFF times can be set for each day.



Weekly + setback timer

Weekly + Setback timer can set temperature for two time spans and for each day of the week.



Filter sign

Indicates the filter cleaning period by lamp.



External error output



External ON/OFF input



Wireless LAN control

The exclusive Wi-Fi adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.

Clean Function



Ion deodorisation filter

The filter deodorises by powerfully decomposing absorbed odors using the oxidising 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

Since the front panel is easy to remove, maintenance is also easy.



Long life filter

Installation



Automatic airflow adjustment

Automatically detects required airflow in each application case and adjusts the volume.



Drain pump as standard



Blue fin



All DC models



i-PAM control models

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



V-PAM control models

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



SPLIT Feature Summary

Type	Cassette			Duct							Floor/ Ceiling	Ceiling
	Compact 4-way Flow	Circular Flow	4-way Flow	Mini	Slim	Medium Static Pressure		High Static Pressure	High Static Pressure	Big		
Model No.	AUYG12/14/ 18LVLB, AUYG22/24 LVLA	AUXG18/24/ 30/36/45/ 54LRLB	AUYG30/36 LRLE, AUYG36/45/ 54LRLA	ARYG 12/14/18 LSLAP	ARYG 12/14/18 LLTB	ARYG22/ 24/36/45 LMLA, ARYG30/36 LMLE	ARYG12/14/ 18/24/30/ 36/45/54 LHTBP	ARYG45/54/ 60LHTA	ARYC72/90 LHTA	ARYG72/90 LHTA	ABYG18 LVTB, ABYG22/24 LVTA	ABYG30/36 LRTE, ABYG36/45/ 54LRTA
Energy Saving Function	Save human sensor											
	Save & Stop human sensor	○										
	Economy mode	●	●	●	●	●	●	●	●	●	●	●
	Room temperature set point limitation	○	●	○	●	○	●	○	○	●	○	○
	Set temperature auto return	○	●	○	●	○	●	○	○	●	○	○
Comfortable Function	10°C HEAT operation	●	○	○	○	○	○	○ (60)		○	●	●
	Low noise mode		○ (45/54)			○ (45) (36LMLA)	○ (45/54)	○	○	○		○ (45/54) (36LRTA)
	Auto-changeover	●	●	●	●	●	●	●	●	●	●	●
	Up/down swing flaps	●	●	●	○	○						
	Double swing automatic										●	●
	Automatic fan speed	●	●	●		●	●	●	●	●	●	●
	Auto restart	●	●	●	●	●	●	●	●	●	●	●
	Connectable fresh air duct	○	●	●		●	●					●
	Fresh air intake	○	○	○	○	○	○	○	○	○		○
	Connectable distributing duct		●	●		●						
	Individual airflow direction control		●									
Convenient Function	Auto off timer	○	●	○	●	○	●	○	○	●	○	○
	Sleep timer	●	○	○	○	○	○	○ (60)	○	○	●	●
	Program timer	●	○	○	○	○	○	○ (60)	○	○	●	●
	Weekly timer		●		●		●					
	Weekly + setback timer	○		●	●	●		●	●		○	○
	Filter sign	●	●	●	●	●	●	●		●	●	●
	External error output		○		○		○		○	○		
	External ON/OFF input	○	●	○	●	○	●	○	○	●	○	○
	Wireless LAN control	○	○	○	○	○	○	○		○	○	○
Clean Function	Ion deodorisation filter											
	Apple-catechin filter											
	Washable panel											
	Long life filter					○	○	○ (60)		○		
Installation	Automatic airflow adjustment						●			●		
	Drain pump as standard	●	●	●	●	○	●					○
	Blue fin		● (30/36/45/54)	● (45/54)			● (30/36/45/54)	●	●	●		● (45)

○: Optional function



Features

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



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



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

Filter Auto Clean



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



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

Plasma Air Clean

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



Human Sensor

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



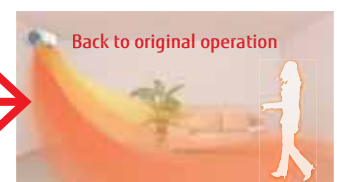
SEER

8.5^{*1}

*1: All classes

SCOP

5.1^{*1}



Model: ASYG09KXCA / ASYG12KXCA



Wireless R.C.



Wireless LAN Interface

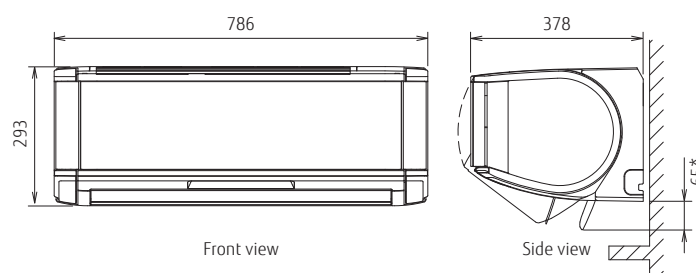


Specifications

Model No.	Indoor unit		ASYG09KXCA		ASYG12KXCA		
	Outdoor unit		AOYG09KXCA		AOYG12KXCA		
Power Source			Single-phase, ~230V, 50Hz				
Capacity	Cooling	kW	2.5 (0.6-3.5)		3.4 (0.6-5.3)		
	Heating		3.6 (0.6-7.1)		5.0 (0.6-9.0)		
UK Total/Sensible Cooling			TBC		TBC		
Input Power	Cooling/Heating	kW	0.460/0.630		0.670/1.020		
EER	Cooling	W/W	5.45		5.09		
COP	Heating		5.72		4.90		
Pdesign	Cooling/Heating(-10°C)	kW	2.5/3.4		3.4/3.5		
SEER	Cooling	W/W	8.50		8.50		
SCOP	Heating (Average)		5.10		5.10		
Energy Efficiency Class	Cooling		A+++		A+++		
	Heating (Average)		A+++		A+++		
Max. Operating Current	Cooling/Heating	A	8.5/14.0		9.0/16.0		
Annual Energy Consumption	Cooling	kWh/a	103		140		
	Heating		934		961		
Moisture Removal		l/h	1.1		1.2		
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	46/42/38/28		46/42/38/28	
	Indoor (Heating)	H/M/L/Q		48/43/39/30		48/43/39/30	
Sound Power Level	Outdoor(Cooling/Heating)	High		40/41		44/43	
	Indoor(Cooling/Heating)	High		58/62		58/62	
	Outdoor(Cooling/Heating)	High		53/57		57/57	
Airflow Rate	Indoor / Outdoor (Cooling)	High	m³/h	670/1,975		670/2,230	
	Indoor / Outdoor (Heating)			810/1,820		810/1,975	
Net Dimensions H x W x D	Indoor	mm	293×786×378				
		kg	20				
Weight	Outdoor	mm	704×820×315				
		kg	41				
Suggested MCB Size		Amp	16				
Connection Pipe Diameter (Gas / Liquid)		Inch	3/8 & 1/4				
Max Pipe Length (Pre-Charge)		m	15 (15)				
Max Height Difference			10				
Operation Range	Cooling	°CDB	-10 to 43				
	Heating		-15 to 24				
Refrigerant	Type		R32				
	Charge	g	1300				
	Additional Charge	g/m	0				
System List Price		£	2120		2461		

Dimensions

(Unit : mm)



*Dimensions in case of air flowing downward

Wall Mounted Designer Range High Spec & Design



Features

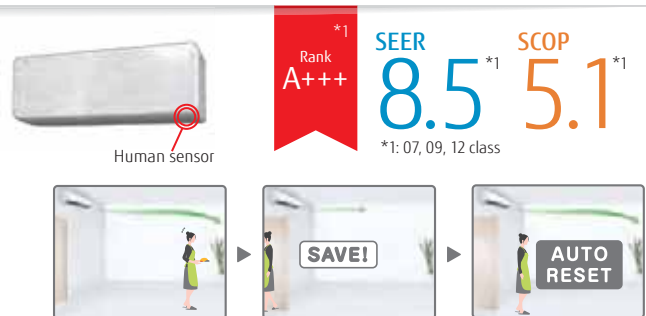
Slim & stylish square design

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



High seasonal efficiency

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.



Silent model

19dB(A)

Smartphone Control (Option)

Easy air conditioner control from inside or outside the house and office using the Smartphones, Tablets, and PC.
(Supplied loose as standard for site installation).



Wireless LAN Interface

The exclusive Wi-Fi adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.

Model: ASYG07KGCA / ASYG09KGCA / ASYG12KGCA / ASYG14KGCA



Wireless R.C.



Specifications

Model No.	Indoor unit		ASYG07KGCA		ASYG09KGCA		ASYG12KGCA		ASYG14KGCA		
	Outdoor unit		AOYG07KGCA		AOYG09KGCA		AOYG12KGCA		AOYG14KGCA		
Power Source			Single-phase, ~230V, 50Hz								
Capacity	Cooling	kW	2.0		2.5		3.4		4.2		
	Heating		2.5		2.8		4.0		5.4		
UK Total/Sensible Cooling			TBC		TBC		TBC		TBC		
Input Power	Cooling/Heating	kW	0.440/0.500		0.555/0.560		0.805/0.990		1.175/1.350		
EER	Cooling	W/W	4.55		4.50		4.22		3.57		
COP	Heating		5.00		5.00		4.04		4.00		
Pdesign	Cooling/Heating(-10°C)	kW	2.00/2.30		2.50/2.40		3.40/2.50		4.20/4.00		
SEER	Cooling	W/W	8.50		8.50		8.50		7.10		
SCOP	Heating (Average)		5.10		5.10		5.10		4.30		
Energy Efficiency Class	Cooling	A+++		A+++		A+++		A++			
	Heating (Average)		A+++		A+++		A+++		A+		
Max. Operating Current	Cooling/Heating	A									
Annual Energy Consumption	Cooling	kWh/a									
	Heating										
Moisture Removal			l/h								
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	43/ / /		43/ / /		43/ / /		43/ / /	
	Indoor (Heating)	H/M/L/Q		43/ / /		43/ / /		43/ / /		43/ / /	
Sound Power Level	Outdoor(Cooling/Heating)	High									
	Indoor(Cooling/Heating)	High									
Airflow Rate	Outdoor(Cooling/Heating)	High	m³/h								
	Indoor / Outdoor	High									
Net Dimensions H x W x D	Indoor	mm	270×834×215								
		kg									
Weight	Outdoor	mm	540×799×290								
		kg									
Suggested MCB Size		Amp	TBC		TBC		TBC		TBC		
Connection Pipe Diameter (Gas / Liquid)			Inch	3/8 & 1/4							
Max Pipe Length (Pre-Charge)			m	20 (15)							
Max Height Difference				15							
Operation Range	Cooling	°CDB	-10 to 46								
	Heating		-15 to 24								
Refrigerant	Type		R32		R32		R32		R32		
	Charge	g	770		770		890		940		
	Additional Charge	g/m	0		0		0		0		
System List Price			£	Future Release							

Optional parts

Wired Remote Controller: UTYRNRZ2 £161

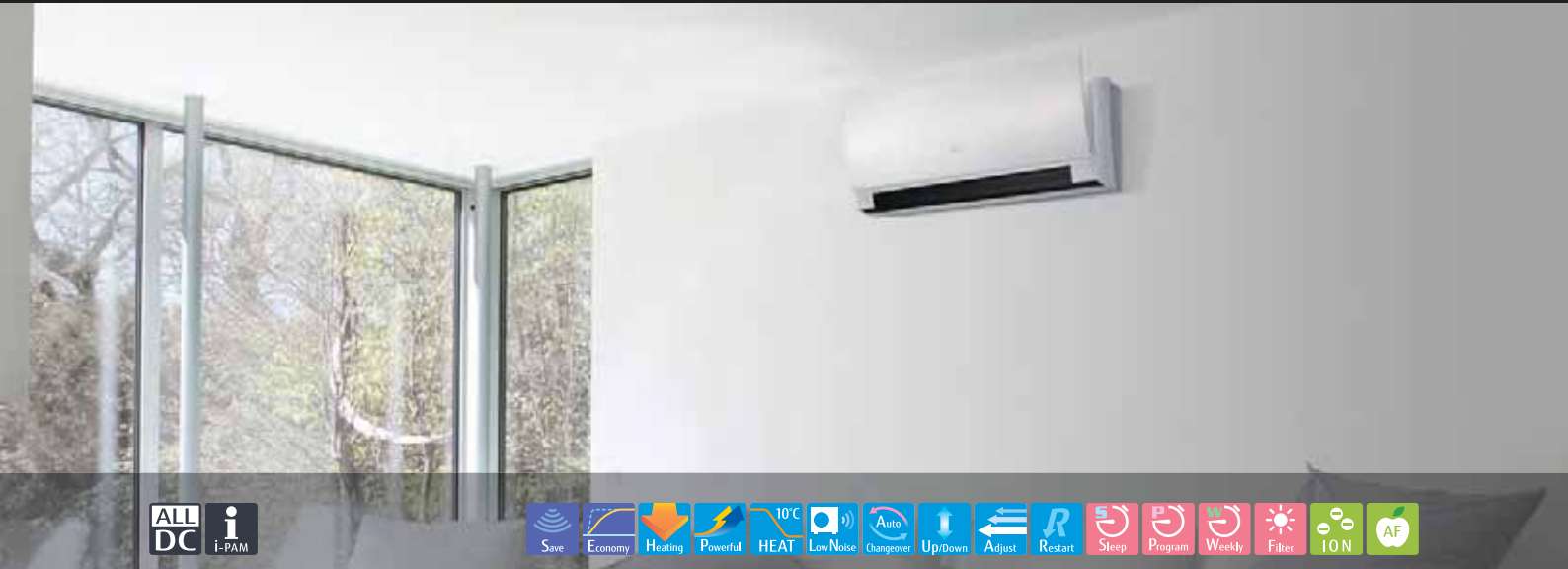
Simple Remote Controller: UTYSNYM £83

Communication kit: UTYXCBKZ2 £90

Dimensions

(Unit : mm)

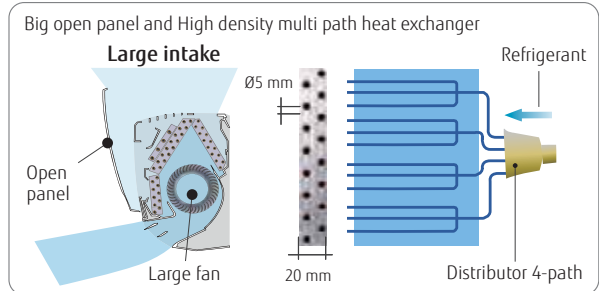
Wall Mounted Designer Range High Spec & Design



Features

Thin & Slim design

Thin and slim design is realised by high density multi-path heat exchanger and high efficiency fan.



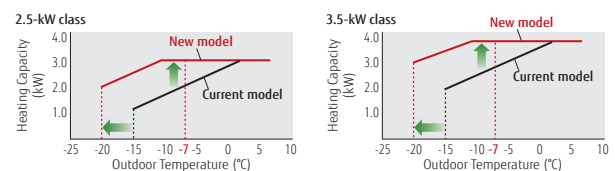
Human sensor

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



Powerful heating

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

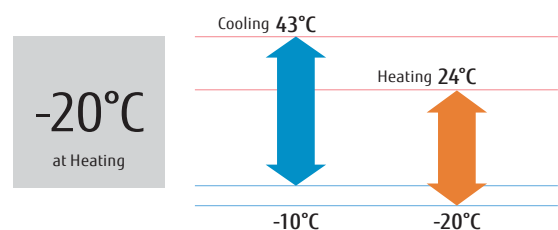


3 Mode timer (Weekly/Program/Sleep)

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



Low ambient operation



Model: ASYG09LTCA / ASYG12LTCA



reddot design award
winner 2012



Wireless R.C.



For ASYG09LTCA



For ASYG12LTCA

Specifications

Model No.	Indoor unit		ASYG09LTCA		ASYG12LTCA		
	Outdoor unit		AOYG09LTC		AOYG12LTC		
Power Source			Single-phase, ~230V, 50Hz				
Nominal Capacity	Cooling	kW	2.50 (0.90-3.50)		3.50 (1.10-4.00)		
	Heating		3.20 (0.90-5.40)		4.00 (0.90-6.50)		
UK Total/Sensible Cooling			2.42/1.59		3.40/2.24		
Power Consumption	Cooling/Heating	kW	0.55/0.66		0.85/0.91		
EER	Cooling	W/W	4.95		4.12		
COP	Heating		4.85		4.40		
Pdesign	Cooling/Heating(-10°C)	kW	2.50/3.00		3.50/4.00		
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++		
Annual Energy Consumption	Cooling	kWh/a	103		144		
	Heating		912		1217		
Moisture Removal			l/h		1.80		
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	42/36/32/21		43/37/32/21	
	Indoor (Heating)	H/M/L/Q		42/37/32/21		43/38/32/21	
	Outdoor(Cooling/Heating)	High		48/50		48/49	
Sound Power Level	Indoor(Cooling/Heating)	High		59/61		60/62	
	Outdoor(Cooling/Heating)	High	63/65		64/65		
Airflow Rate	Indoor / Outdoor	High	m³/h	800/1700		850/2050	
Net Dimensions H x W x D Weight	Indoor		mm	282×870×185		282×870×185	
			kg	9.5		9.5	
	Outdoor		mm	540×790×290		620×790×290	
			kg	33		40	
Remote Controller Type			Wireless		Wireless		
Interconnecting Cable (Suggested cable size 1.5mm)			3 core + Earth				
Suggested MCB Size			10		10		
Max. Operating Current	Cooling/Heating	Amp	2.60/3.30		4.00/4.30		
Power Supply To			Outdoor Unit				
Connection Pipe Diameter (Gas / Liquid)		Inch	3/8 & 1/4		3/8 & 1/4		
Max Pipe Length (Factory Gas Charge Pipe Length)		m	20 (15)		20 (15)		
Max Height Difference			15		15		
Refrigerant	Type		R410A		R410A		
	Charge	g	1,050		1,200		
	Additional Charge	g/m	20		20		
Operation Range	Cooling	°CDB	-10 to 43		-10 to 43		
	Heating		-20 to 24		-20 to 24		
System List Price			£	1030	1198		

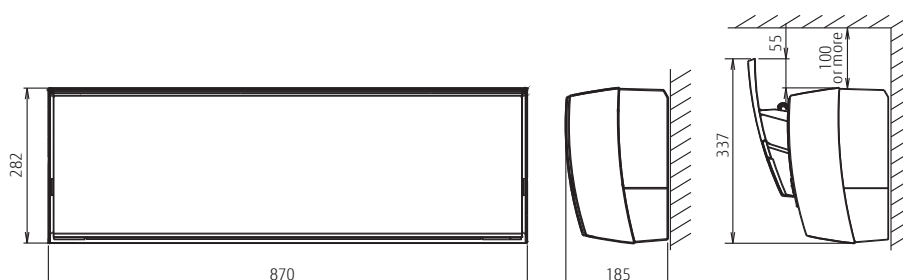
Optional parts

Wired Remote Controller:	UTYRVNYM	£104	(Must use with Communication Kit below)
Simple Remote Controller:	UTYRSNYM	£83	(Must use with Communication Kit below)
External Connect Kit:	UTYXWZXZ5	£9	(Must use with Communication Kit below)
Modbus Interface:	FJRCMSB1	£234	(Must use with Communication Kit below)
KNX Interface:	FJRCKNXTi	£265	(Must use with Communication Kit below)
WiFi Interface:	FJRCWIFI1	£234	(Must use with Communication Kit below)
Communication kit:	UTYTWBXF	£90	

(Refer to page 102 for accessory combinations)

Dimensions

(Unit : mm)



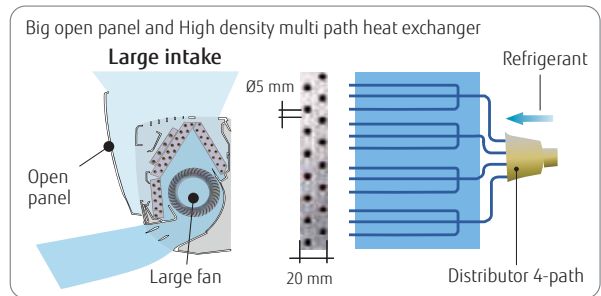
Wall Mounted Designer Range High COP



Features

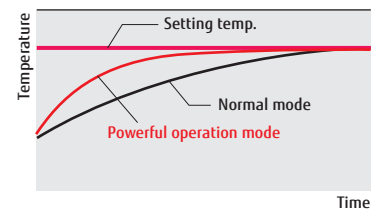
Thin & Slim design

Thin and slim design is realised by Ø5 mm heat exchanger and high efficiency fan.



Powerful operation

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



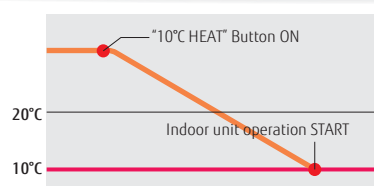
3 Mode timer (Weekly/Program/Sleep)

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.

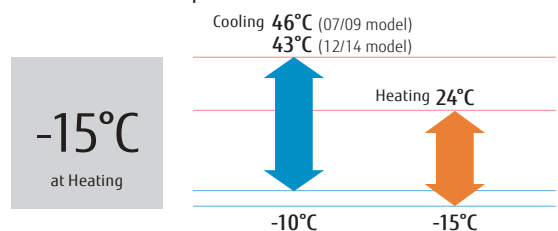


10°C HEAT Operation

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 ambient operation



Model: ASYG07LUCA / ASYG09LUCA / ASYG12LUCA / ASYG14LUCA



reddot design award
winner 2012



Wireless R.C.



For ASYG07/09LUCA



For ASYG12/14LUCA

Specifications

Model No.	Indoor unit		ASYG07LUCA		ASYG09LUCA		ASYG12LUCA		ASYG14LUCA		
	Outdoor unit		AOYG07LUCA		AOYG09LUCB		AOYG12LUC		AOYG14LUC		
Power Source			Single-phase, ~230V, 50Hz								
Nominal 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)		
UK Total/Sensible Cooling			1.94 / 1.30		2.42 / 1.59		3.40 / 2.24		4.07 / 2.73		
Power Consumption	Cooling/Heating		kW	0.46/0.74		0.55/0.68		0.91/0.93		1.24/1.38	
EER	Cooling		W/W	4.35		4.50		3.87		3.40	
COP	Heating			4.05		4.71		4.30		3.91	
Pdesign	Cooling/Heating(-10°C)		kW	2.00/2.60		2.50/2.80		3.50/3.90		4.20/4.80	
SEER	Cooling		W/W	7.20		7.10		7.05		6.78	
SCOP	Heating (Average)			4.02		4.10		4.00		4.00	
Energy Efficiency Class	Cooling		A++		A++		A++		A++		
	Heating (Average)		A+		A+		A+		A+		
Annual Energy Consumption	Cooling		kWh/a	97		123		174		217	
	Heating			887		956		1363		1677	
Moisture Removal			I/h	1.00		1.30		1.80		2.10	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	38/35/31/21		42/36/32/21		43/37/32/21		45/40/33/25	
	Indoor (Heating)	H/M/L/Q		38/35/31/21		42/37/32/21		43/38/32/21		45/40/34/27	
	Outdoor(Cooling/Heating)	High		46/46		48/48		50/50		50/50	
Sound Power Level	Indoor(Cooling/Heating)	High	57/59		59/61		60/62		60/64		
	Outdoor(Cooling/Heating)	High	58/58		60/60		65/65		65/65		
Airflow Rate	Indoor / Outdoor	High	m ³ /h	680/1,720		800/1,720		850/1,940		900/1,940	
Net Dimensions H x W x D Weight	Indoor	mm	282×870×185		282×870×185		282×870×185		282×870×185		
		kg	9.5		9.5		9.5		9.5		
	Outdoor	mm	540×660×290		540×660×290		540×790×290		540×790×290		
		kg	23		25		33		34		
Remote Controller Type			Wireless		Wireless		Wireless		Wireless		
Interconnecting Cable (Suggested cable size 1.5mm)			3 Core + Earth								
Suggested MCB Size			Amp	10		10		10		16	
Max. Operating Current			Amp	6.0/7.5		6.0/7.5		6.5/9.0		9.0/10.5	
Starting Current			Amp	3.40		3.40		4.70		6.30	
Power Supply To			Outdoor								
Connection Pipe Diameter (Gas / Liquid)			Inch	3/8 & 1/4		3/8 & 1/4		3/8 & 1/4		1/2 & 1/4	
Max Pipe Length (Factory Gas Charge Pipe Length)			m	20 (15)		20 (15)		20 (15)		20 (15)	
Max Height Difference				15		15		15		15	
Refrigerant	Type		g	R410A		R410A		R410A		R410A	
	Charge			700		850		1,050		1,050	
	Additional Charge			20		20		20		20	
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	
System List Price			£	870		931		1082		1246	

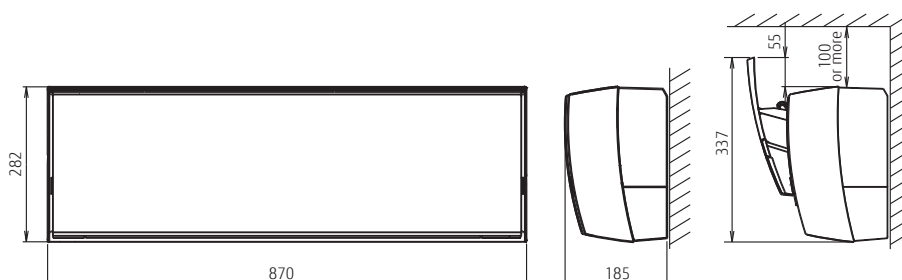
Optional parts

Wired Remote Controller:	UTYRVNYM	£104	(Must use with Communication Kit below)
Simple Remote Controller:	UTYRSNYM	£83	(Must use with Communication Kit below)
External Connect Kit:	UTYXWZXZ5	£9	(Must use with Communication Kit below)
Modbus Interface:	FJRCMBS1	£234	(Must use with Communication Kit below)
KNX Interface:	FJRCNX1i	£265	(Must use with Communication Kit below)
WiFi Interface:	FJRCWIFI1	£234	(Must use with Communication Kit below)
Communication kit:	UTYTWBXF	£90	

(Refer to page 102 for accessory combinations)

Dimensions

(Unit : mm)



Wall Mounted Standard Range High Efficiency & Comfort



Features

High efficient compact design



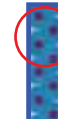
High density heat exchanger



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



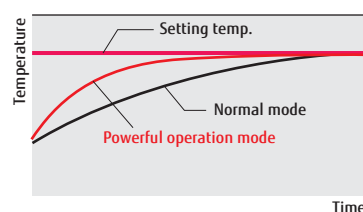
Vertical airflow provides powerful floor level heating



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

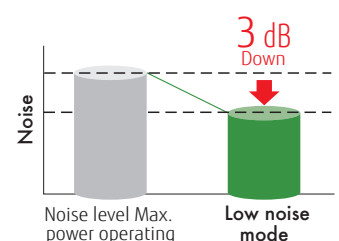
Powerful operation

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



Low noise mode for outdoor unit

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





Wireless R.C.



For ASYG07/09/12LMCE



For ASYG14LMCE

Specifications

Model No.	Indoor unit		ASYG07LMCE	ASYG09LMCE	ASYG12LMCE	ASYG14LMCE		
	Outdoor unit		AOYG07LMCE	AOYG09LMCE	AOYG12LMCE	AOYG14LMCE		
Power Source			Single-phase, ~230V,50Hz					
Nominal 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)		
UK Total/Sensible Cooling			1.94/1.30	2.42/1.59	3.30/2.14	3.87/2.52		
Power Consumption	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	2.00/2.30	2.50/2.40	3.40/3.50	4.00/3.90		
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+		
Annual Energy Consumption	Cooling	kWh/a	103	125	170	203		
	Heating		786	820	1225	1365		
Moisture Removal			l/h	1.00	1.30	1.80	2.10	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	43/40/32/21	43/40/32/21	43/40/32/21	44/40/33/25	
	Indoor (Heating)	H/M/L/Q		43/38/33/22	43/38/33/22	43/38/33/22	44/40/35/27	
Sound Power Level	Outdoor(Cooling/Heating)	High	45/45	45/45	50/50	50/50		
	Indoor(Cooling/Heating)	High	59/59	59/59	59/59	60/60		
	Outdoor(Cooling/Heating)	High	58/56	58/56	61/61	65/65		
Airflow Rate	Indoor / Outdoor	High	m³/h	750/1670	750/1670	750/1830	750/1800	
Net Dimensions H x W x D Weight	Indoor	mm	270×870×204	270×870×204	270×870×204	270×870×204		
		kg	8.5	8.5	8.5	8.5		
	Outdoor	mm	535×663×293	535×663×293	535×663×293	540×790×290		
		kg	21	21	26	34		
Remote Controller Type			Wireless	Wireless	Wireless	Wireless		
Interconnecting Cable (Suggested cable size 1.5mm)			3 Core + Earth					
Suggested MCB Size			Amp	10	10	10	16	
Max. Operating Current			Cooling/Heating	Amp	6.00/7.50	6.00/7.50	6.50/9.00	9.00/10.50
Starting Current			Amp	3.30	3.50	4.80	6.30	
Power Supply To			Outdoor					
Connection Pipe Diameter (Gas / Liquid)			Inch	3/8 & 1/4	3/8 & 1/4	3/8 & 1/4	1/2 & 1/4	
Max Pipe Length (Factory Gas Charge Pipe Length)			m	20(15)	20(15)	20(15)	20(15)	
Max Height Difference				15	15	15	15	
Refrigerant	Type		R410A	R410A	R410A	R410A		
	Charge	g	700	700	850	1050		
	Additional Charge	g/m	20	20	20	20		
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		
System List Price			£	620	653	743	855	

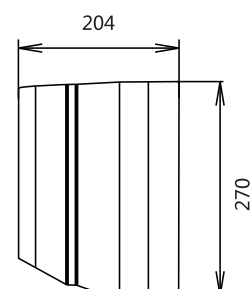
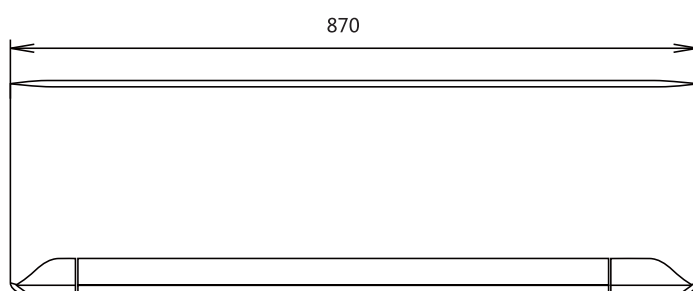
Optional parts

Wired Remote Controller:	UTYRVNYM	£104	(Must use with Communication Kit below)
Simple Remote Controller:	UTYRSNYM	£83	(Must use with Communication Kit below)
External Connect Kit:	UTYXWZXZ5	£9	(Must use with Communication Kit below)
Modbus Interface:	FJRCMB51	£234	(Must use with Communication Kit below)
KNX Interface:	FJRCKNX1i	£265	(Must use with Communication Kit below)
WiFi Interface:	FJRCWIF1	£234	(Must use with Communication Kit below)
Communication kit:	UTYTWBXF	£90	

(Refer to page 102 for accessory combinations)

Dimensions

(Unit : mm)

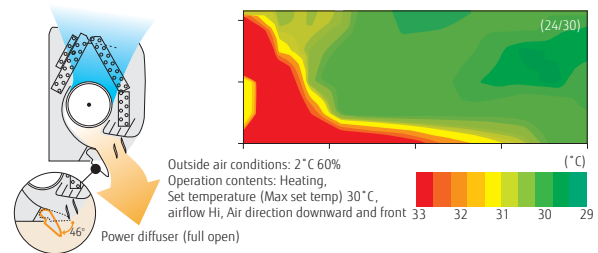


Wall Mounted Standard Range Comfort for Large Room

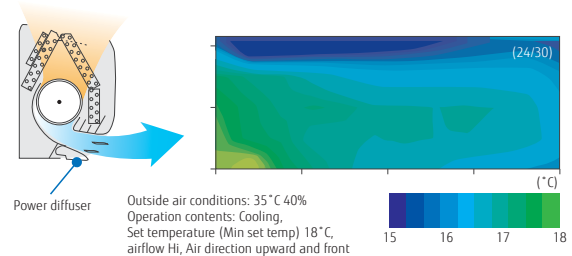


Features

“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 Deodorisation Filter

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



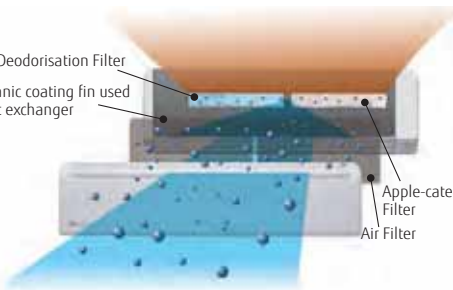
Using different filters at both sides



Apple-catechin Filter

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

Ion Deodorisation Filter
Organic coating fin used
heat exchanger

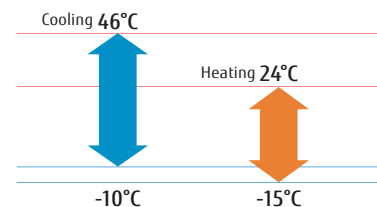


Flexible Installation

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

Low ambient operation

-15°C
at Heating



Model: ASYG18LFCA / ASYG24LFCC



Wireless R.C.



For ASYG18LFCA,
ASYG24LFCC

Specifications

Model No.	Indoor unit		ASYG18LFCA		ASYG24LFCC				
	Outdoor unit		AOYG18LFC		AOYG24LFCC				
Power Source			Single-phase, ~230V, 50Hz						
Nominal Capacity	Cooling	kW	5.2 (0.9-6.0)		7.1 (0.9-8.0)				
	Heating		6.3 (0.9-9.1)		8.0 (0.9-10.6)				
UK Total/Sensible Cooling			5.04/3.25		7.13/5.15				
Power Consumption	Cooling/Heating	kW	1.52/1.71		2.20/2.21				
EER	Cooling	W/W	3.42		3.23				
COP	Heating		3.68		3.61				
Pdesign	Cooling/Heating(-10°C)	kW	5.20/5.90		7.10/7.10				
SEER	Cooling	W/W	6.94		6.11				
SCOP	Heating (Average)		3.87		3.80				
Energy Efficiency Class	Cooling		A++		A++				
	Heating (Average)		A		A				
Annual Energy Consumption	Cooling	kWh/a	262		406				
	Heating		2130		2610				
Moisture Removal			l/h		2.70				
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	43/37/33/26		49/42/37/32			
	Indoor (Heating)	H/M/L/Q		42/37/33/25		48/42/37/32			
	Outdoor(Cooling/Heating)	High		50/51		55/56			
Sound Power Level	Indoor(Cooling/Heating)	High		58/58		64/64			
	Outdoor(Cooling/Heating)	High		65/-		68/-			
Airflow Rate			Indoor / Outdoor	High	m³/h	900/2150		1120/2460	
Net Dimensions H x W x D Weight	Indoor				mm	320×998×238		320×998×238	
					kg	14		14	
	Outdoor				mm	620×790×298		620×790×298	
					kg	41		41	
Remote Controller Type			Wireless		Wireless				
Interconnecting Cable (Suggested cable size 1.5mm)			3 Core + Earth						
Suggested MCB Size			Amp		20				
Max. Operating Current	Cooling/Heating	Amp	9.00/12.50		13.50/18.50				
Power Supply To			Outdoor						
Connection Pipe Diameter (Gas / Liquid)			Inch		5/8 & 1/4				
Max Pipe Length (Factory Gas Charge Pipe Length)			m		30 (15)				
Max Height Difference					20				
Refrigerant	Type		R410A		R410A				
	Charge	g	1,200		1,650				
	Additional Charge	g/m	20		20				
Operation Range	Cooling	°CDB	-10 to 46		-10 to 46				
	Heating		-15 to 24		-15 to 24				
System List Price			£	943	1483				

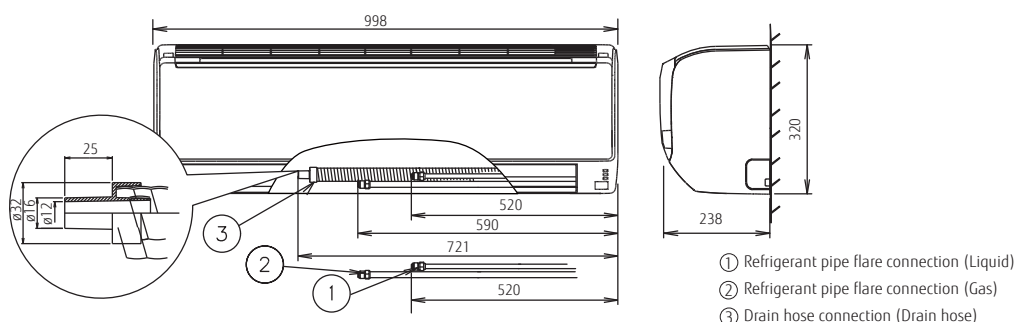
Optional parts

Wired Remote Controller: UTYRVNYM £104
 Simple Remote Controller: UTYRSNYM £83
 External Connect Kit: UTYXWZXZ5 £9
 Modbus Interface: FJRCMBS1 £234
 KNX Interface: FJRCKNX1i £265
 WiFi Interface: FJRCWIFI1 £234

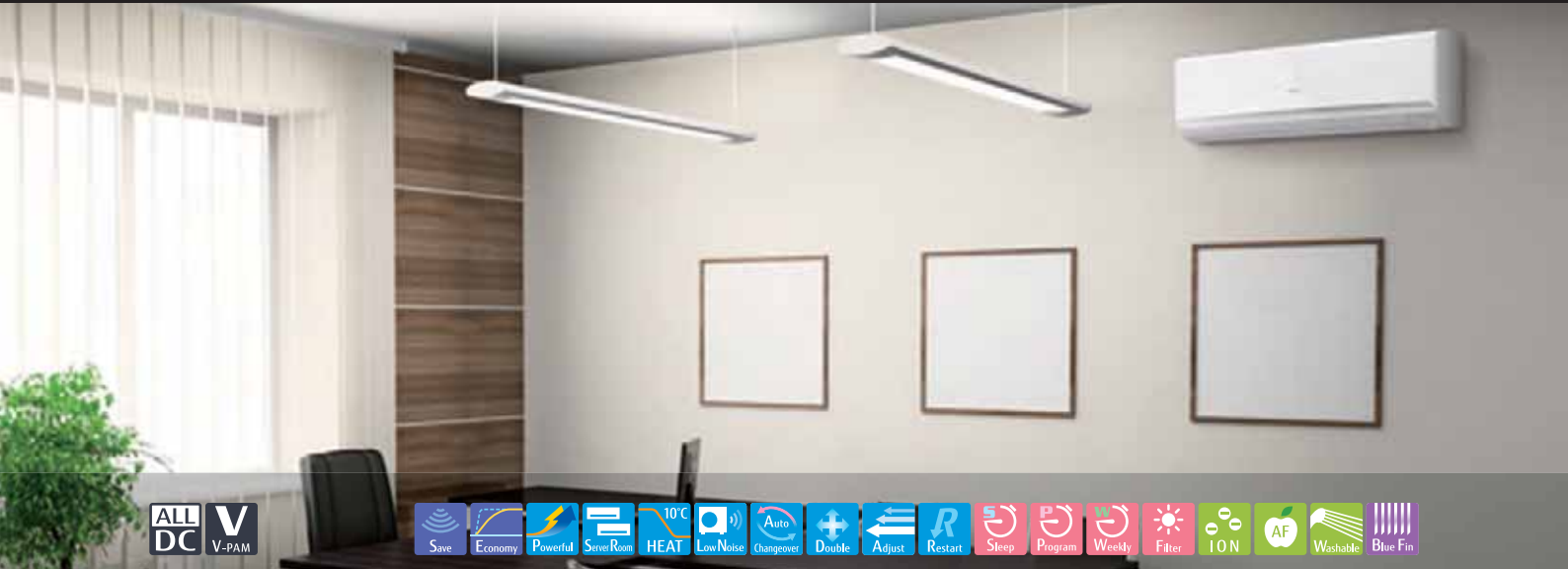
(Refer to page 102 for accessory combinations)

Dimensions

(Unit : mm)



Wall Mounted Standard Range New Design & Large Capacity



Features

Large Capacity & Powerful airflow

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



Human sensor

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

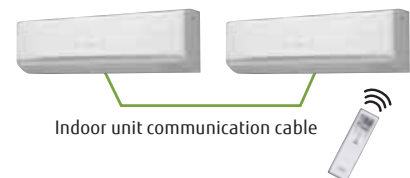


Server room function*

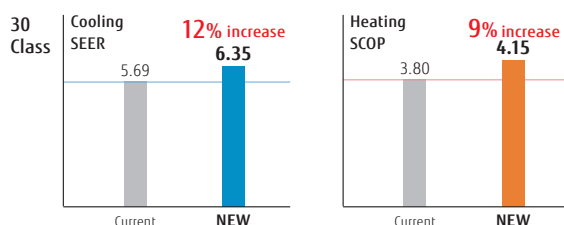
The following interlock operation is possible by connecting 2 indoor units with a cable. Cooling operation can be performed even in the low outdoor temperature and low humidity environment.

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

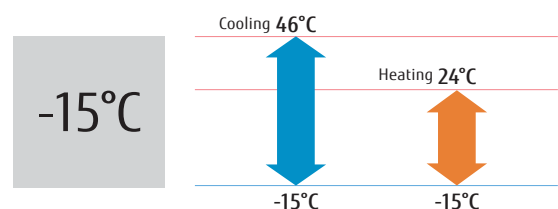
* 2 x UTY-XWNX of optional parts are required.



High seasonal energy efficiency



Low ambient operation





Model: ASYG30LMTA / ASYG36LMTA



Wireless R.C.



For ASYG30LMTA
ASYG36LMTA

Specifications

Model No.	Indoor unit		ASYG30LMTA		ASYG36LMTA		
	Outdoor unit		AOYG30LMTA		AOYG36LMTA		
Power Source			Single-phase, ~230V, 50Hz				
Nominal Capacity	Cooling	kW	8.0 (2.9-9.0)		9.4 (2.9-10.0)		
	Heating		8.8 (2.2-11.0)		10.1 (2.7-11.2)		
UK Total/Sensible Cooling			7.88/5.86		9.00/6.63		
Power Consumption	Cooling/Heating	kW	2.33/2.41		3.16/2.96		
EER	Cooling	W/W	3.43		2.97		
COP	Heating		3.65		3.41		
Pdesign	Cooling/Heating(-10°C)	kW	8.00/6.50		9.40/7.10		
SEER	Cooling	W/W	6.35		5.73		
SCOP	Heating (Average)		4.15		4.19		
Energy Efficiency Class	Cooling		A++		A+		
	Heating (Average)		A+		A+		
Annual Energy Consumption	Cooling	kWh/a	441		575		
	Heating		2,193		2,373		
Moisture Removal			l/h		3.70		
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	50/44/38/31		50/44/38/31	
	Indoor (Heating)	H/M/L/Q		49/44/39/33		49/44/39/33	
	Outdoor(Cooling/Heating)	High		52/55		55/56	
Sound Power Level	Indoor(Cooling/Heating)	High		65/65		65/65	
	Outdoor(Cooling/Heating)	High		67/68		68/70	
Airflow Rate	Indoor / Outdoor	High	m³/h	1380/3600		1380/3800	
Net Dimensions H x W x D Weight	Indoor		mm	340×1150×280		340×1150×280	
			kg	18		18	
	Outdoor		mm	830×900×330		830×900×330	
			kg	61		61	
Remote Controller Type			Wireless		Wireless		
Interconnecting Cable (Suggested cable size 1.5mm)			3 Core + Earth				
Suggested MCB Size			16		20		
Max. Operating Current	Cooling/Heating	Amp	14.50/14.50		19.00/19.00		
Power Supply To			Outdoor				
Connection Pipe Diameter (Gas / Liquid)		Inch	5/8 & 3/8		5/8 & 3/8		
Max Pipe Length (Factory Gas Charge Pipe Length)		m	50 (20)		50 (20)		
Max Height Difference			30		30		
Refrigerant	Type		R410A		R410A		
	Charge	g	2,100		2,100		
	Additional Charge	g/m	40		40		
Operation Range	Cooling	°CDB	-15 to 46		-15 to 46		
	Heating		-15 to 24		-15 to 24		
System List Price			£	2100	2240		

Optional parts

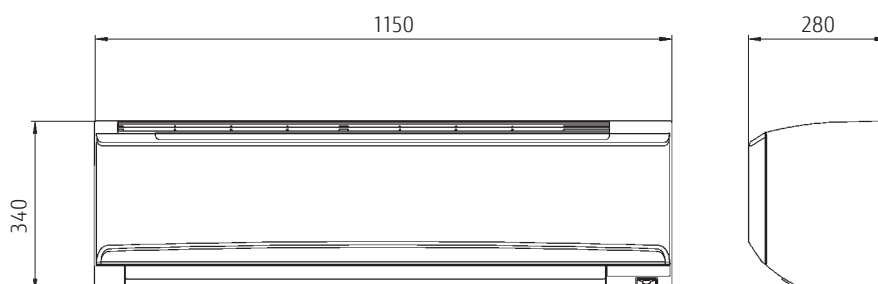
Wired Remote Controller (Touch panel (two-wire)):	UTYRNRZY1 + UTYTWRX	£161 + £78
Wired Remote Controller (High grade (three-wire)):	UTYRVNYM + UTYXWNX	£104 + £17
Wired Remote Controller (two-wire):	UTYRLRY + UTYTWRX	£125 + £78
Simple Remote Controller (three-wire):	UTYRSNYM + UTYXWNX	£83 + £17
External input and output PCB (with box):	UTYXCSXZ1 + UTZGXXB	£85 + £28
External Connect Kit:	UTYXWZX	£9
External Connect Kit:	UTYXWNX	£17

Modbus Interface:	FJRCMBS1	£234
KNX Interface:	FJRCKNX1i	£265
WiFi Interface:	FJRCWIFI1	£234

(Refer to page 102 for accessory combinations)

Dimensions

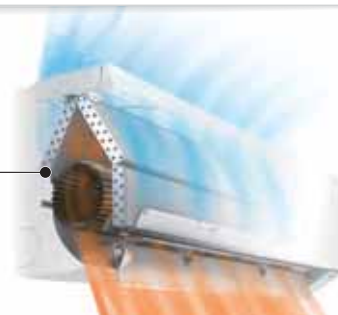
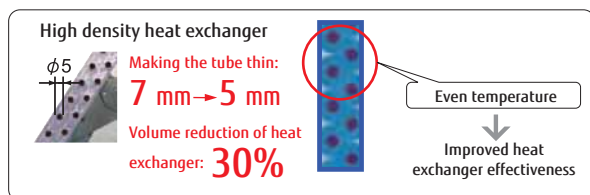
(Unit : mm)





Features

High efficient compact design

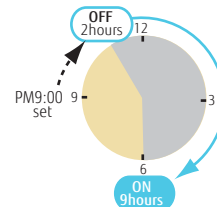
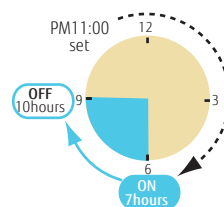


ON-OFF Programmable timer

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)

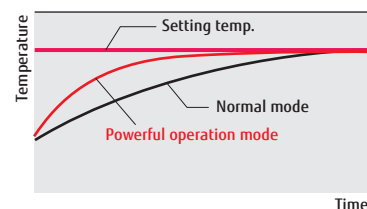
From wake up to go to work

From sleep to wake up



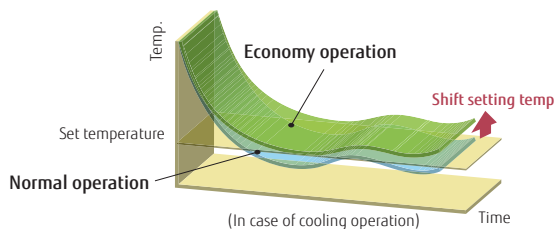
Powerful operation

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

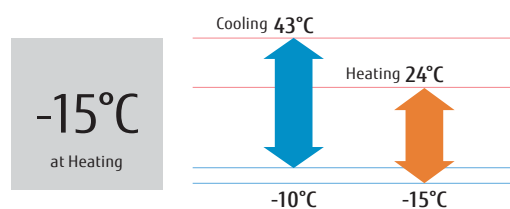


Economy operation

Setting temp. is shifted by 1°C automatically.



Low ambient operation



Model: ASYG09LLCE / ASYG12LLCE



Wireless R.C.



For ASYG09LLCE
ASYG12LLCE

Specifications

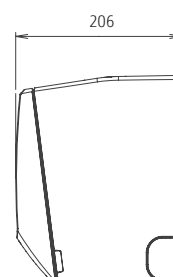
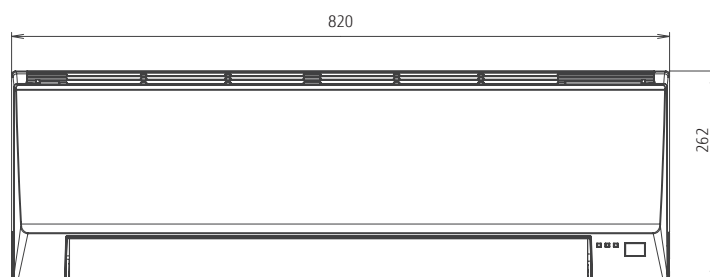
Model No.	Indoor unit		ASYG09LLCE		ASYG12LLCE		
	Outdoor unit		AOYG09LLCE		AOYG12LLCE		
Power Source			Single-phase, ~230V,50Hz				
Nominal Capacity	Cooling	kW	2.5(0.9-3.0)		3.4(0.9-3.8)		
	Heating		3.0(0.9-3.8)		4.0(0.9-5.0)		
UK Total/Sensible Cooling			2.42 / 1.59		3.29 / 2.14		
Power Consumption	Cooling/Heating	kW	0.730-0.740		1.080/1.130		
EER	Cooling	W/W	3.42		3.15		
COP	Heating		4.05		3.54		
Pdesign	Cooling/Heating(-10°C)	kW	2.50/2.30		3.40/3.20		
SEER	Cooling	W/W	6.90		6.60		
SCOP	Heating (Average)		4.00		3.80		
Energy Efficiency Class	Cooling		A++		A++		
	Heating (Average)		A+		A		
Annual Energy Consumption	Cooling	kWh/a	127		180		
	Heating		805		1,179		
Moisture Removal			l/h		1.30		
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	43/38/33/22		43/38/33/22	
	Indoor (Heating)	H/M/L/Q		43/38/33/22		43/38/33/22	
	Outdoor(Cooling/Heating)	High		47/48		50/51	
Sound Power Level	Indoor(Cooling/Heating)	High		59/60		59/60	
	Outdoor(Cooling/Heating)	High		61/61		65/65	
Airflow Rate	Indoor / Outdoor	High	m³/h	720/1,670		720/1,830	
Net Dimensions H x W x D Weight	Indoor		mm	262×820×206		262×820×206	
			kg	7.0		7.0	
	Outdoor		mm	535×663×293		535×663×293	
			kg	24		26	
Remote Controller Type			Wireless		Wireless		
Interconnecting Cable (Suggested cable size 1.5mm)			3 Core + Earth				
Suggested MCB Size		Amp	10		10		
Max. Operating Current	Cooling/Heating	Amp	6.00/7.50		6.50/9.00		
Power Supply To			Outdoor				
Connection Pipe Diameter (Gas / Liquid)		Inch	3/8 & 1/4		3/8 & 1/4		
Max Pipe Length (Factory Gas Charge Pipe Length)		m	20(15)		20(15)		
Max Height Difference			15		15		
Refrigerant	Type		R410A		R410A		
	Charge	g	650		850		
	Additional Charge	g/m	20		20		
Operation Range	Cooling	°CDB	-10 to 43		-10 to 43		
	Heating		-15 to 24		-15 to 24		
System List Price		£	555		632		

Optional parts

Remote Controller Holder: UTZRXL A £8

Dimensions

(Unit : mm)

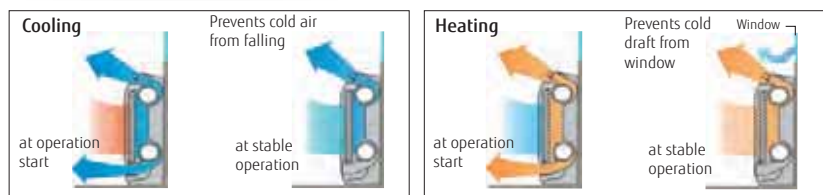




Features

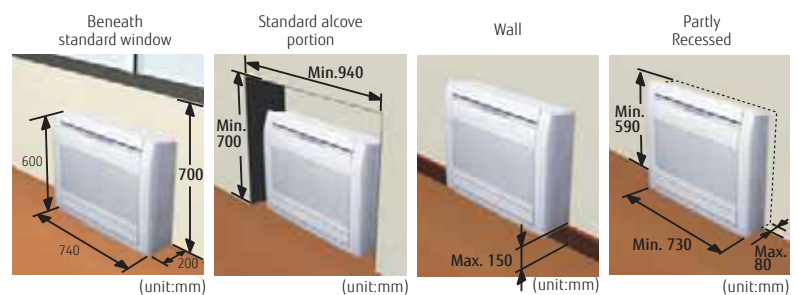
2-Fan & Wide airflow

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



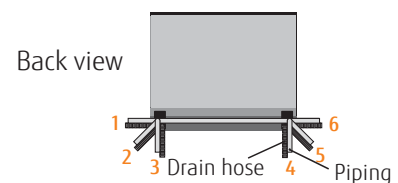
Flexible & easy installation

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



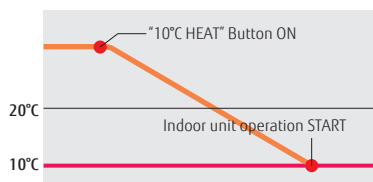
Flexible piping connection 6 possible ways of drain & piping

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

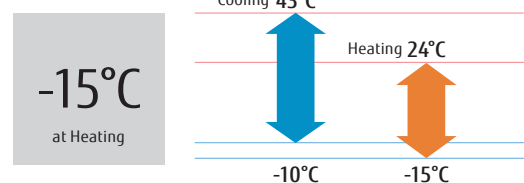


10°C HEAT Operation

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



Low ambient operation



Model: AGYG09LVCA / AGYG12LVCA / AGYG14LVCA



Wireless R.C.



For AGYG09/12LVCA



For AGYG14LVCA

Specifications

Model No.	Indoor unit		AGYG09LVCA		AGYG12LVCA		AGYG14LVCA		
	Outdoor unit		AOYG09LVCA		AOYG12LVCA		AOYG14LVLA		
Power Source			Single-phase, ~230V, 50Hz						
Nominal Capacity	Cooling	kW	2.60 (0.90-3.50)		3.50 (0.90-4.00)		4.20 (0.90-5.00)		
	Heating		3.50 (0.90-5.50)		4.50 (0.90-6.60)		5.20 (0.90-8.00)		
UK Total/Sensible Cooling			2.49/2.24		3.36/2.59		4.03/2.92		
Power Consumption	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	2.60/2.90		3.50/3.80		4.20/4.70	
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+	
Annual Energy Consumption	Cooling		kWh/a	130		188		230	
	Heating			967		1330		1645	
Moisture Removal			l/h	1.30		1.80		2.10	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	40/35/29/22		40/35/29/22		44/38/31/22	
	Indoor (Heating)	H/M/L/Q		40/35/29/22		40/35/29/22		43/37/29/22	
	Outdoor(Cooling/Heating)	High		47/48		48/49		50/50	
Sound Power Level	Indoor(Cooling/Heating)	High		55/56		55/56		58/58	
	Outdoor(Cooling/Heating)	High		64/65		64/65		65/66	
Airflow Rate	Indoor / Outdoor	High	m³/h	570/1680		570/1680		650/1910	
Net Dimensions H x W x D Weight	Indoor		mm	600×740×200		600×740×200		600×740×200	
			kg	14		14		14	
	Outdoor		mm	540×790×290		540×790×290		578×790×300	
			kg	36		36		40	
Remote Controller Type				Wireless		Wireless		Wireless	
Interconnecting Cable (Suggested cable size 1.5mm)				3 Core + Earth					
Suggested MCB Size			Amp	10		10		16	
Max. Operating Current	Cooling/Heating		Amp	7.00/10.00		7.00/10.00		9.00/13.50	
Starting Current			Amp	3.80		5.50		6.40	
Power Supply To				Outdoor					
Connection Pipe Diameter (Gas / Liquid)			Inch	3/8 & 1/4		3/8 & 1/4		1/2 & 1/4	
Max Pipe Length (Factory Gas Charge Pipe Length)			m	20 (15)		20 (15)		20 (15)	
Max Height Difference				15		15		15	
Refrigerant	Type			R410A		R410A		R410A	
	Charge		g	1,050		1,050		1,150	
	Additional Charge		g/m	20		20		20	
Operation Range	Cooling		°CDB	-10 to 43		-10 to 43		-10 to 43	
	Heating			-15 to 24		-15 to 24		-15 to 24	
System List Price			£	1148		1287		1480	

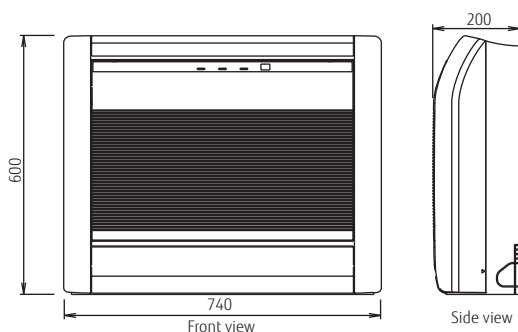
Optional parts

Wired Remote Controller:	UTYRVNYM	£104
Simple Remote Controller:	UTYRSNYM	£83
External Connect Kit:	UTYXWZX	£9
Modbus Interface:	FJRCMB51	£234
KNX Interface:	FJRCKNX1i	£265
WiFi Interface:	FJRCWIFI1	£234

(Refer to page 102 for accessory combinations)

Dimensions

(Unit : mm)



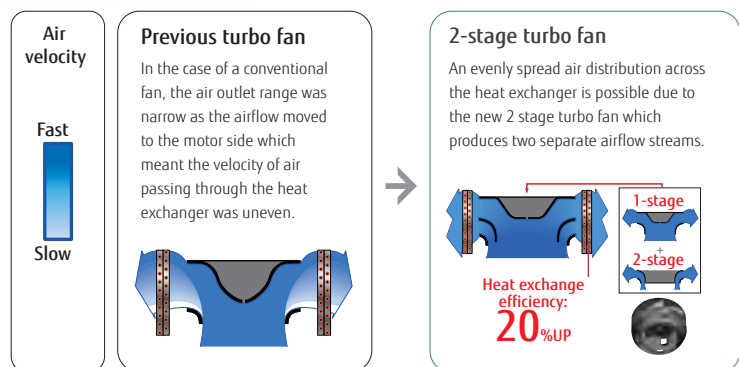
Compact Cassette 4-way Flow Compact & Comfort



Features

2-stage turbo fan

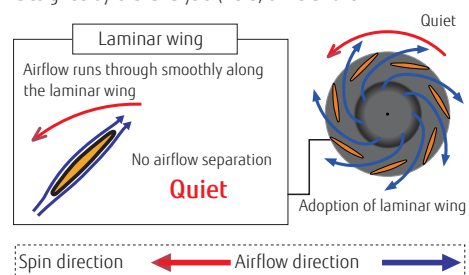
High efficiency design by 2 stage fan



Quiet Air flow

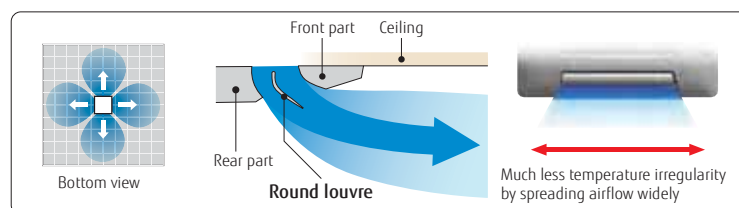
Optimised wing form (laminar wing type) and wing number (7 blades each)

Designed by CFD-analysis (fluid) simulations

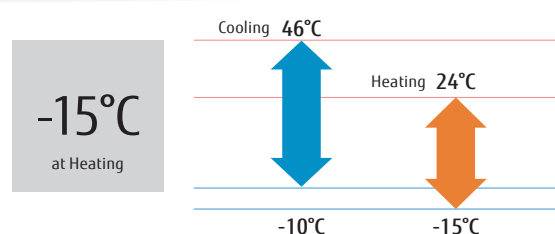


Improvement of the airflow distribution

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





Model : AUYG12LVLB / AUYG14LVLB / AUYG18LVLB / AUYG24LVLA



Wireless R.C.



For AUYG12/14/18LVLB



For AUYG24LVLA

Specifications

Model No.	Indoor unit		AUYG12LVLB	AUYG14LVLB	AUYG18LVLB	AUYG24LVLA		
	Outdoor unit		AOYG12LALL	AOYG14LALL	AOYG18LALL	AOYG24LALA		
Power Source			Single-phase, ~230V, 50Hz					
Nominal Capacity	Cooling	kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)	6.8 (0.9-8.0)		
	Heating		4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)	8.0 (0.9-9.1)		
UK Total / Sensible Cooling		kW	3.46 / 2.37	3.96 / 2.70	4.79 / 3.09	5.94 / 4.42		
Input Power	Cooling / Heating		kW	1.05 / 1.11	1.33 / 1.34	1.62 / 1.66	2.21 / 2.26	
EER	Cooling	W/W	3.33	3.21	3.21	3.08		
COP	Heating		3.69	3.71	3.61	3.54		
Pdesign	Cooling / Heating(-10°C)		kW	3.5 / 4.2	4.3 / 4.5	5.2 / 5.2	6.8 / 6.0	
SEER	Cooling	W/W	6.20	6.40	6.20	5.60		
SCOP	Heating (Average)		4.10	4.40	4.20	3.90		
Energy Efficiency Class	Cooling		A++	A++	A++	A+		
	Heating (Average)		A+	A+	A+	A		
Annual Energy Consumption	Cooling	kWh/a	198	235	293	425		
	Heating		1431	1432	1731	2151		
Moisture Removal			l/h	1.2	1.5	2.2	2.7	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	37/34/30/27	38/34/30/27	38/34/30/26	49/44/36/30	
	Indoor (Heating)	H/M/L/Q		37/34/31/29	43/38/34/30	43/38/34/30	49/45/40/33	
	Outdoor(Cooling/Heating)	High		47 / 48	49 / 49	50 / 50	52 / 53	
Sound Power Level	Indoor(Cooling / Heating)	High	49 / 49	50 / 55	50 / 55	59 / 61		
	Outdoor(Cooling/Heating)	High	61 / 63	62 / 64	62 / 65	67 / 70		
Airflow Rate	Indoor / Outdoor		High	m³/h	600 / 1780	680 / 1910	680 / 2000	930 / 2470
Net Dimensions H x W x D	Indoor		mm	245×570×570	245×570×570	245×570×570	245×570×5700	
			kg	15	15	15	16	
			mm	578×790×300	578×790×300	578×790×300	578×790×315	
Weight	Outdoor		kg	40	40	40	44	
Remote Controller Type (Supplied with unit)			Wireless	Wireless	Wireless	Wireless		
Interconnecting Cable(Suggested cable size 1.5mm)			3 Core + Earth					
Suggested MCB Size		Amp	16	16	16	16		
Max. Operating Current	Cooling / Heating		Amp	7.5 / 10.0	9.0 / 12.5	9.0 / 12.5	12.0 / 13.5	
Power Supply To			Outdoor					
Connection Pipe Diameter (Gas & Liquid)			Inch	3/8 & 1/4	1/2 & 1/4	1/2 & 1/4	5/8 & 1/4	
Max Pipe Length (Factory Gas Charge Pipe Length)			m	25 (15)	25 (15)	25 (15)	30 (15)	
Max Height Difference			m	15	15	15	20	
Refrigerant	Type		R410A	R410A	R410A	R410A		
	Charge	g	1,150	1,250	1,250	1,700		
	Additional Charge	g/m	20	20	20	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		
Cassette Grille	Model name		UTG-UFYD-W	UTG-UFYD-W	UTG-UFYD-W	UTG-UFYD-W		
	Dimensions (H × W × D)	mm	49×700×700	49×700×700	49×700×700	49×700×700		
	Weight	kg	2.6	2.6	2.6	2.6		
System List Price			£	1191	1467	1615	1988	

Optional parts

Wired Remote Controller: UTYRVNYM £104
Simple Remote Controller: UTYRSNYM £83
External Connect Kit: UTYXWZX £9
Fresh Air Intake Kit: UTZVXAA £291

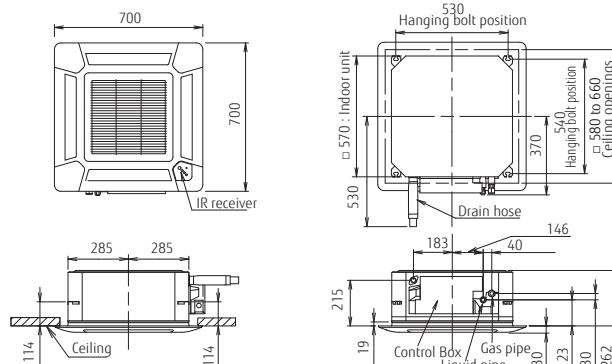
Modbus Interface: FJRCMB51 £234
KNX Interface: FJRCKNX1i £265
WiFi Interface: FJRCWIF1 £234

(Refer to page 102 for accessory combinations)



Dimensions

(Unit : mm)



Cassette

Circular Flow Comfort for large room



(30/36/45/54)

Features

Unique Circular Flow design

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

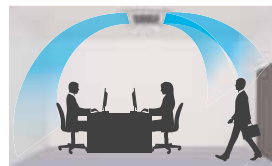
ø7mm high density Heat exchanger
New DC fan motor
High efficient turbo fan
Seamless airflow louvre



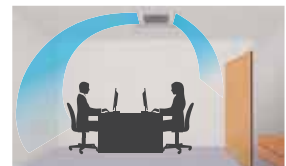
Individual louvre control

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

*Touch Panel Wired RC (UTY-RNRYZ2) only



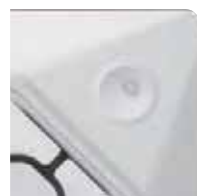
Comfortable air conditioning by preventing direct blowing of cold air and by providing swinging air flow simultaneously.



Efficient air conditioning based on the room layout

Human sensor increases more energy saving

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



Human sensor (Option)

2 modes can be selected.

Auto saving

Power is saved while people are away.

Auto OFF

Operation stops after people go out.

*Touch Panel Wired RC (UTY-RNRYZ2) only

Condensate lift pump height





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



Touch Panel Wired R.C.



For AUXG18/24LRLB For AUXG30/36LRLB For AUXG45/54LRLB

Specifications

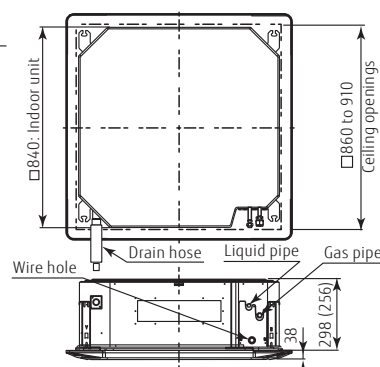
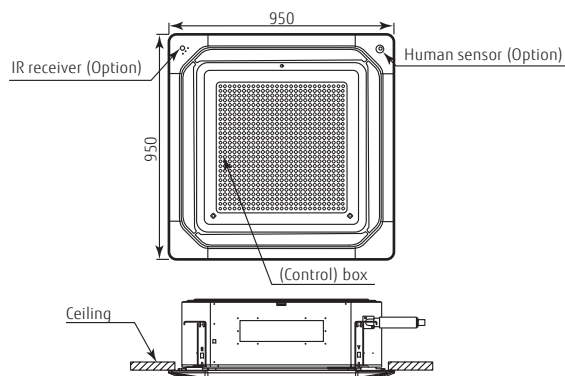
Model No.	Indoor unit		AUXG18LRLB	AUXG24LRLB	AUXG30LRLB	AUXG36LRLB	AUXG45LRLB	AUXG54LRLB	
	Outdoor unit		AOYG18LBCA	AOYG24LBCA	AOYG30LBT A	AOYG36LBT A	AOYG45LBT A	AOYG54LBT A	
Power Source			Single-phase, ~230V, 50Hz						
Nominal Capacity	Cooling	kW	5.2 (0.9-6.5)	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.5 (2.8-11.2)	12.5 (4.0-14.0)	13.3 (4.5-14.5)	
	Heating		6.0 (0.9-8.0)	7.8 (0.9-9.1)	10.0 (2.7-11.2)	10.8 (2.7-12.7)	14.0 (4.2-16.2)	15.8 (4.7-16.5)	
UK Total / Sensible Cooling		kW	6.0 / 4.54	6.99 / 5.2	10.15 / 7.32	11.79 / 8.49	13.06 / 9.67	13.39 / 9.82	
Input Power	Cooling / Heating	kW	1.42 / 1.50	2.16 / 2.18	2.56 / 2.77	2.96 / 2.91	3.85 / 3.73	4.38 / 4.58	
EER	Cooling	W/W	3.66	3.15	3.32	3.21	3.25	3.04	
COP	Heating		4.00	3.58	3.61	3.71	3.75	3.45	
Pdesign	Cooling / Heating (@ -10°C)	kW	5.2 / 4.3	6.8 / 6.0	8.5 / 8.0	9.5 / 8.7	-	-	
SEER	Cooling	W/W	7.05	6.60	6.70	6.40	-	-	
SCOP	Heating (Average)		4.40	4.20	4.30	4.30	-	-	
Energy Efficiency Class	Cooling		A++	A++	A++	A++	-	-	
	Heating (Average)		A+	A+	A+	A+	-	-	
Annual Energy Consumption	Cooling	kWh/a	258	361	444	519	-	-	
	Heating		1367	1999	2604	2833	-	-	
Moisture Removal			l/h	2.2	2.7	2.5	3.3	4.5	5.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	33/32/31/28	35/33/32/29	40/38/36/33	44/41/38/34	46/42/39/35	47/43/40/36
	Indoor (Heating)	H/M/L/Q		33/32/31/28	35/33/32/29	40/38/36/33	44/41/38/34	46/42/39/35	47/43/40/36
	Outdoor (Cooling/Heating)	High		51/50	55/56	53/55	54/55	55/55	55/57
Sound Power Level	Indoor (Cooling/Heating)	High		47/47	49/49	54/54	58/58	60/60	61/61
	Outdoor (Cooling/Heating)	High		64/62	68/68	67/69	68/70	68/68	69/71
Airflow Rate	Indoor / Outdoor	High		m³/h	1050/1900	1150/2460	1600/3600	1900/3800	2000/6750
Net Dimensions H x W x D Weight	Indoor	mm	246×840×840	246×840×840	288×840×840	288×840×840	288×840×840	288×840×840	
		kg	24	24	26	26	29	29	
	Outdoor	mm	620×790×290	620×790×290	830×900×330	830×900×330	1290×900×330	1290×900×330	
		kg	41	41	61	61	86	86	
Remote Controller Type (Supplied With Grille)			Wired	Wired	Wired	Wired	Wired	Wired	
Interconnecting Cable (Suggested cable size 1.5 mm)			3 core + Earth						
Suggested MCB Size		Amp	16	20	20	25	25	25	
Max. Operating Current	Cooling / Heating	Amp	10.0 / 13.5	13.5 / 18.5	17.0 / 17.0	20.0 / 20.0	20.5 / 20.5	21.5 / 21.5	
Power Supply To			Outdoor Unit						
Connection Pipe Diameter (Gas & Liquid)		Inch	1/2 & 1/4	5/8 & 1/4	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8	
Max Pipe Length (Factory Gas Charge Pipe Length)		m	30 (15)	30 (15)	50 (20)	50 (20)	50 (20)	50 (20)	
Max Height Difference			20	20	30	30	30	30	
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	
	Charge	g	1,800	1,800	2,100	2,100	3,350	3,350	
	Additional Charge	g/m	20	20	40	40	40	40	
Operation Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	
Cassette Grille (to be ordered separately)	Model name		UTG-UKYA-W	UTG-UKYA-W	UTG-UKYA-W	UTG-UKYA-W	UTG-UKYA-W	UTG-UKYA-W	
	Dimensions (H × W × D)	mm	53×950×950	53×950×950	53×950×950	53×950×950	53×950×950	53×950×950	
	Weight	kg	6.0	6.0	6.0	6.0	6.0	6.0	
System List Price		£	2003	2127	2426	2859	3154	3662	

Optional parts

Simple Remote Controller:	UTYRSNYM	£83	Modbus Interface:	FJRCMB51	£234
IR Receiver Kit:	UTYLBTYC	£98	KNX Interface:	FJRCNX1i	£265
Human Sensor Kit:	UTYSHZXC	£61	WiFi Interface:	FJRCWIF1i	£234
Fresh Air Intake Kit:	UTZVXRA	£364			
External Input & Output PCB (with box):	UTYXCXSX + UTZGXRA	£85 + £53	(Refer to page 102 for accessory combinations)		
External Connect Kit:	UTYXWZXZG, UTYXWZXZ3	£8, £9			

Dimensions

(Unit : mm)



() : AUXG18/24LRLB

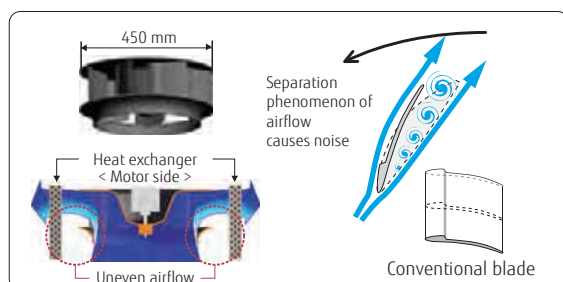
Cassette 4-way Flow Comfort for large room



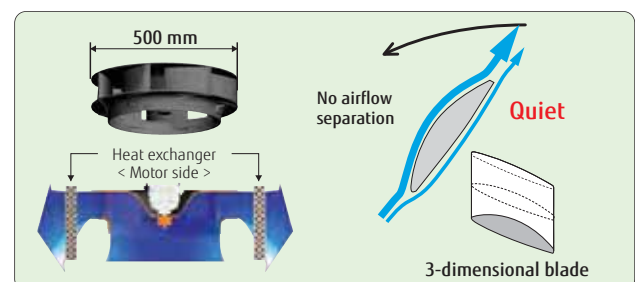
Features

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.



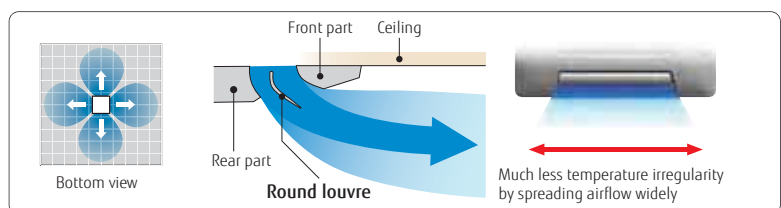
New turbo fan: High efficiency airflow distribution has been achieved by the introduction of a 3 dimensional blade which increases the air passing over the heat exchanger.



← : Spin direction → : Airflow direction ••••• : Turbulent flow noise

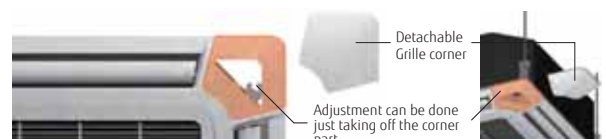
Improvement of the airflow distribution

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

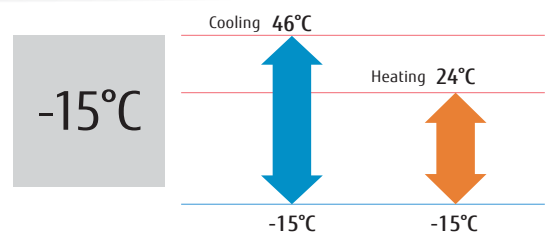


Adjustment of hanger position is possible after installation

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



Low ambient operation





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



Wired R.C.



For AUYG30/36LRLE



For AUYG36/45/54LRLA

Specifications

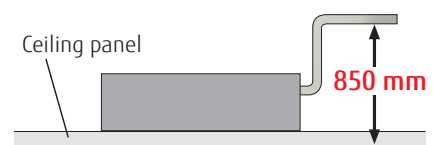
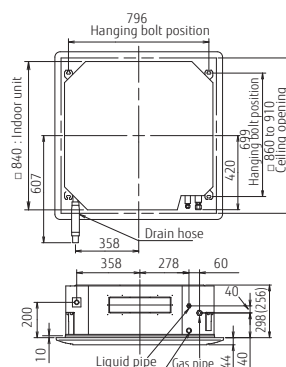
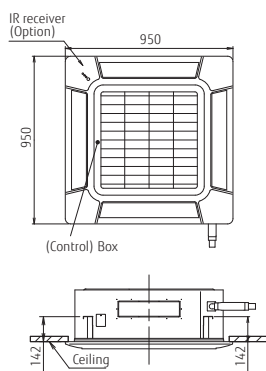
Model No.	Indoor unit		AUYG30LRLE	AUYG36LRLE	AUYG45LRLA	AUYG54LRLA	AUYG36LRLA	AUYG45LRLA	AUYG54LRLA	
	Outdoor unit		AOYG30LETL	AOYG36LETL	AOYG45LETL	AOYG54LETL	AOYG36LATT	AOYG45LATT	AOYG54LATT	
Power Source			Single-phase, ~230V, 50Hz				3-phase, ~400V, 50Hz			
Nominal Capacity	Cooling	kW	8.5 (2.8-10.0)	10.0 (2.8-11.2)	12.5 (4.0-14.0)	13.3 (4.5-14.5)	10.0 (4.7-11.4)	12.5 (5.0-14.0)	14.0 (5.4-16.0)	
	Heating		10.0 (2.7-11.2)	11.2 (2.7-12.7)	14.0 (4.2-16.2)	16.0 (4.7-16.5)	11.2 (5.0-14.0)	14.0 (5.4-16.2)	16.0 (5.8-18.0)	
UK Total / Sensible Cooling		kW	8.63 / 6.22	10.53 / 7.58	11.66 / 8.63	12.28 / 9.01	9.27 / 6.42	11.63 / 7.64	12.87 / 8.51	
Input Power	Cooling / Heating	kW	2.65 / 2.77	3.12 / 3.02	3.88 / 3.77	4.42 / 4.69	2.44 / 2.56	3.54 / 3.58	4.36 / 4.43	
EER	Cooling	W/W	3.21	3.21	3.22	3.01	4.10	3.53	3.21	
COP	Heating		3.61	3.71	3.71	3.41	4.38	3.91	3.61	
Pdesign	Cooling / Heating (-10°C)	kW	8.5 / 8.0	10.0 / 8.7	-	-	10.0 / 10.0	-	-	
SEER	Cooling	W/W	6.50	6.30	-	-	6.50	-	-	
SCOP	Heating (Average)		4.30	4.20	-	-	4.30	-	-	
Energy Efficiency Class	Cooling		A++	A++	-	-	A++	-	-	
	Heating (Average)		A+	A+	-	-	A+	-	-	
Annual Energy Consumption	Cooling	kWh/a	458	555	-	-	573	-	-	
	Heating		2604	2897	-	-	3253	-	-	
Moisture Removal		l/h	2.5	3.5	4.5	5.0	3.0	4.5	5.0	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	40/38/36/32	43/38/36/32	46/42/40/36	47/43/41/37	44/39/36/33	46/42/40/36	47/43/41/37
	Indoor (Heating)	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(Cooling/Heating)	High		53/55	54/55	55/55	55/57	51/53	54/54	55/56
Sound Power Level	Indoor(Cooling/Heating)	High	54/54	57/57	-	-	58/58	-	-	
	Outdoor(Cooling/Heating)	High	68/69	69/70	-	-	67/69	-	-	
Airflow Rate	Indoor / Outdoor	High	m³/h	1600/3600	1800/3800	1900/6750	2000/6750	1800/6200	1900/6900	2000/6900
Net Dimensions H x W x D	Indoor (ex grille)	mm	288x840x840	288x840x840	288x840x840	288x840x840	288x840x840	288x840x840	288x840x840	
		kg	26	26	26	26	26	26	26	
Weight	Outdoor	mm	830×900×330	830×900×330	1290×900×330	1290×900×330	1290×900×330	1290×900×330	1290×900×330	
		kg	61	61	86	86	104	104	104	
Remote Controller Type (Supplied with unit)			Wired	Wired	Wired	Wired	Wired	Wired	Wired	
Interconnecting Cable (Suggested cable size 1.5mm)			3 Core + Earth				3 Core + Earth			
Suggested MCB Size		Amp	20	25	25	25	16	16	16	
Max. Operating Current		Amp	17.0 / 17.0	18.5 / 20.0	20.5 / 20.5	21.5 / 21.5	7.9 / 7.9	8.9 / 8.9	9.9 / 9.9	
Power Supply To			Outdoor				Outdoor			
Connection Pipe Diameter (Gas & Liquid)		Inch	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8	
Max Pipe Length (Factory Gas Charge Length)		m	50 (20)	50 (20)	50 (20)	50 (20)	75 (30)	75 (30)	75 (30)	
Max Height Difference			30	30	30	30	30	30	30	
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	R410A	
	Charge	g	2,100	2,100	3,350	3,350	3,450	3,450	3,450	
Operation Range	Additional Charge		g/m	40	40	40	40	50	50	50
	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	
Cassette Grille	Model name		UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	UTG-UGYA-W	
	Dimensions (H × W × D)	mm	50×950×950	50×950×950	50×950×950	50×950×950	50×950×950	50×950×950	50×950×950	
	Weight	kg	5.5	5.5	5.5	5.5	5.5	5.5	5.5	
System List Price			£	2265	2608	2828	3271	2621	2974	3449

Optional parts

Wired Remote Controller:	UTYRVNYM	£104	Modbus Interface:	FJRCMS1	£234
Simple Remote Controller:	UTYRSNYM	£83	KNX Interface:	FJRCKNX1i	£265
IR Receiver Kit:	UTYLRHYA2	£76	WiFi Interface:	FJRCWIFI1	£234
External Connect Kit:	UTYXWZX	£9			
Fresh Air Intake Kit:	UTZVXGA	£364	(Refer to page 102 for accessory combinations)		

Dimensions

(Unit : mm)



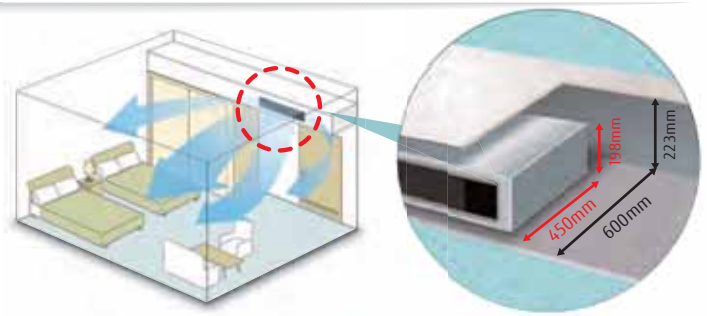
Bulkhead Duct Built-in Drain Pump



Features

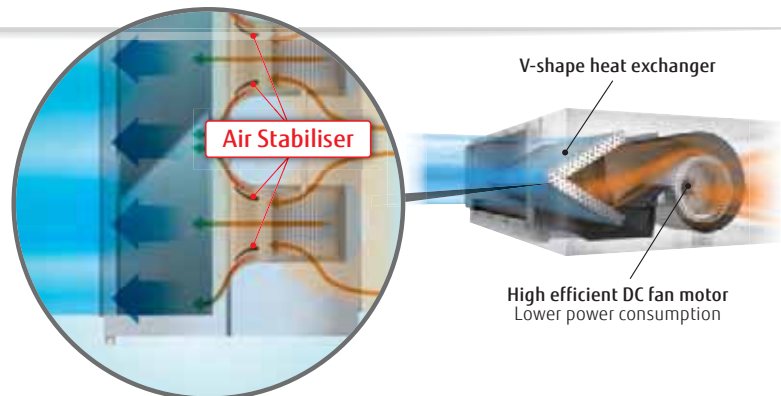
Large living space available

- Installation space can be reduced down to a minimum depth of 450 mm and height of 198 mm and providing a compact design
- Minimum size: Depth 450 mm, Height 198 mm Volume 30% down compared with current model
- Lightweight: 16 kg 10% down



Optimum airflow path and low noise operation

Low noise is realised drastically by stabilised airflow design



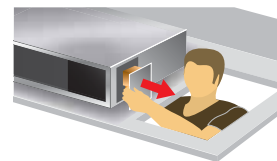
Easy design and maintenance for drain

By using the DC fan motor, it is possible to change the static pressure range from 0 to 50 Pa*.

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

*: 0 to 30 Pa. (12)

Built-in drain pump as standard:
Maintenance is easy



Parts can be replaced from the side of the body where maintenance is easier

Auto Louvre Grille Kit (Option)

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



Easy
Washable filter



Model : ARYG12LSLAP / ARYG14LSLAP / ARYG18LSLAP
(Horizontal only installation)



ARYG12/14LSLAP



ARYG18LSLAP



Wired R.C.



Specifications

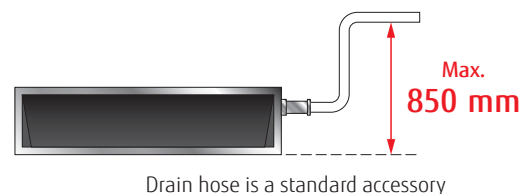
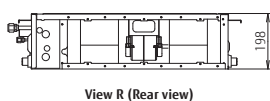
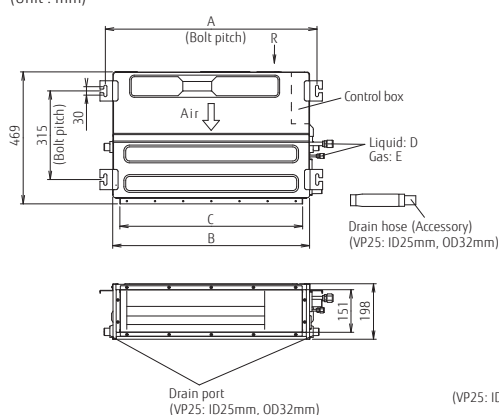
Model No.			Indoor unit		ARYG12LSLAP	ARYG14LSLAP	ARYG18LSLAP
			Outdoor unit		AOYG12LALL	AOYG14LALL	AOYG18LALL
Power Source					Single-phase, ~230V, 50Hz		
Capacity		Cooling	kW	3.50 (0.90-4.40)	4.30 (0.90-5.40)	5.20 (0.90-5.90)	
		Heating		4.10 (0.90-5.70)	5.00 (0.90-6.50)	6.00 (0.90-7.50)	
UK Total/Sensible Cooling			kW	3.36 / 2.56	4.11 / 3.15	4.98 / 3.79	
Input Power		Cooling/Heating	kW	1.03/1.15	1.34/1.49	1.62/1.77	
EER		Cooling	W/W	3.40	3.21	3.21	
COP		Heating		3.56	3.35	3.38	
Pdesign		Cooling/Heating(-10°C)	kW	3.5/4.2	4.3/4.5	5.2/5.2	
SEER		Cooling	W/W	5.70	5.60	5.80	
SCOP		Heating		3.90	3.80	3.80	
Energy Efficiency Class		Cooling		A+	A+	A+	
		Heating		A	A	A	
Annual Energy Consumption		Cooling	kWh/a	215	269	314	
		Heating		1505	1656	1914	
Moisture Removal			l/h	1.2	1.4	1.8	
Sound Pressure Level		Indoor (Cooling)	H/M/L/Q	dB(A)	31/27/25/23	35/30/27/23	33/29/26/23
		Indoor (Heating)	H/M/L/Q		31/27/25/23	35/30/27/23	33/29/26/23
Sound Power Level		Outdoor(Cooling/Heating)	High		47/48	49/49	50/50
		Indoor(Cooling/Heating)	High		55/57	60/62	58/59
		Outdoor(Cooling/Heating)	High	61/63	62/64	62/65	
Airflow Rate		Indoor / Outdoor	High	m³/h	650/1780	800/1910	940/2000
Static pressure range (Standard)				Pa	0 - 30 (10)	0 - 50 (15)	0 - 50 (15)
Net Dimensions H x W x D		Indoor		mm	198×700×450	198×700×450	198×900×450
				kg	15.5	15.5	18.5
Weight		Outdoor		mm	578×790×300	578×790×300	578×790×300
				kg	40	40	40
Remote Controller Type (Supplied With Unit)					Wired	Wired	Wired
Interconnecting Cable (Suggested cable size 1.5mm)					3 Core + Earth		
Suggested MCB Size			Amp	16	16	16	
Max. Operating Current		Cooling/Heating	Amp	7.5/10.0	9.0/12.5	9.0/12.5	
Power Supply To					Outdoor		
Connection Pipe Diameter (Gas & Liquid)			Inch	1/4 & 3/8	1/4 & 1/2	1/4 & 1/2	
Max Pipe Length (Factory Gas Charge Length)			m	25 (15)	25 (15)	25 (15)	
Max Height Difference				15	15	15	
Refrigerant		Type		R410A	R410A	R410A	
		Charge	g	1150	1250	1250	
		Additional Charge	g/m	TBC	TBC	TBC	
Operation Range		Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	
		Heating		-15 to 24	-15 to 24	-15 to 24	
System List Price			£	1281	1386	1581	

Optional parts

Wired Remote Controller:	UTYRNRYZ2	£161	Auto Louvre Grille Kit:	UTDGXSAW (ARYG12/14LSLAP)	£135
Simple Remote Controller:	UTYRSNYM	£83		UTDGXSBW (ARYG18LSLAP)	£151
Simple Remote Controller:	UTYRSRY	£120	(Refer to page 102 for accessory combinations)		
IR Receiver Kit:	UTYLBTYM	£266			
Remote Sensor Unit:	UTYXSZX	£56			
External connect Kit:	UTYXWZXZG	£8			

Dimensions

(Unit : mm)



Drain hose is a standard accessory

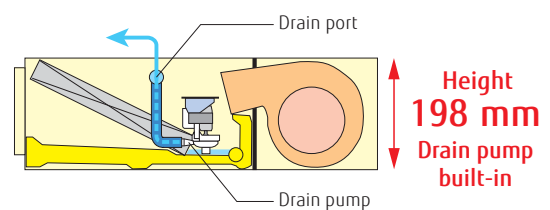
	ARYG12/14LSLAP	ARYG18LSLAP
A	752	952
B	700	900
C	650	850
D	6.35	9.52
E	12.7	15.88



Features

Slim design

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



Flexible installation

2-type installation methods of ceiling concealed and floor concealed can be selected. Can also be installed in a Bulkhead.

Ceiling concealed



Floor concealed



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.

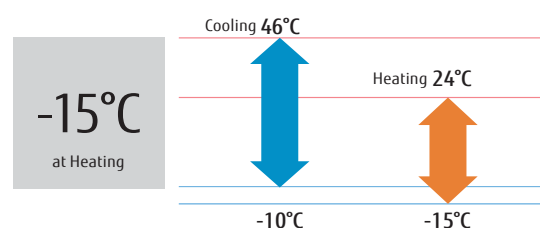
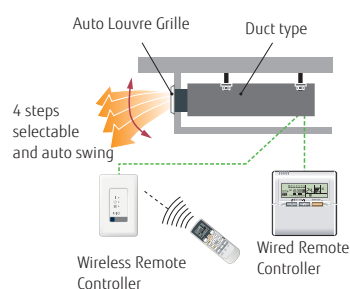
The change of static pressure range is possible by using the remote controller.



Static pressure range
0 to 90 Pa

Auto Louvre Grille Kit (Option)

Simple flat Auto Louvre will provide comfortable airflow and harmonise with the interior.





Model : ARYG12LLTB / ARYG14LLTB / ARYG18LLTB



ARYG12/14LLTB



ARYG18LLTB



Wired R.C.



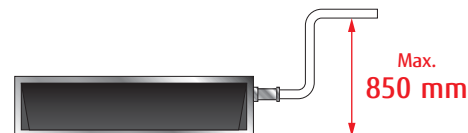
Specifications

Model No.	Indoor unit		ARYG12LLTB	ARYG14LLTB	ARYG18LLTB	
	Outdoor unit		AOYG12LALL	AOYG14LALL	AOYG18LALL	
Power Source			Single-phase, ~230V, 50Hz			
Capacity	Cooling	kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)	
	Heating		4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)	
UK Total / Sensible Cooling		kW	3.48 / 2.47	3.97 / 2.90	4.80 / 3.45	
Input Power	Cooling / Heating		kW	1.05 / 1.11	1.33 / 1.34	1.62 / 1.66
EER	Cooling	W/W	3.33	3.21	3.21	
COP	Heating		3.69	3.71	3.61	
Pdesign	Cooling / Heating(-10°C)		kW	3.5 / 4.2	4.3 / 4.5	5.2 / 5.2
SEER	Cooling	W/W	5.90	5.80	6.20	
SCOP	Heating		4.00	3.90	4.10	
Energy Efficiency Class	Cooling		A+	A+	A++	
	Heating		A+	A	A+	
Annual Energy Consumption	Cooling	kWh/a	207	259	293	
	Heating		1467	1614	1774	
Moisture Removal		l/h	1.3	1.5	2.0	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	29/28/26/25	32/30/28/26	32/30/29/27
	Indoor (Heating)	H/M/L/Q		29/28/26/24	32/30/28/25	32/30/29/27
	Outdoor(Cooling/Heating)	High		47 / 48	49 / 49	50 / 50
Sound Power Level	Indoor(Cooling/Heating)	High	58 / 58	60 / 60	58 / 58	
	Outdoor(Cooling/Heating)	High	61 / 63	62 / 64	62 / 65	
Airflow Rate	Indoor / Outdoor	High	m³/h	650 / 1780	800 / 1910	940 / 2000
Static pressure range (Standard)			Pa	0 to 90 (25)	0 to 90 (25)	0 to 90 (25)
Net Dimensions H x W x D Weight	Indoor	mm	198×700×620	198×700×620	198×900×620	
		kg	19	19	23	
	Outdoor	mm	578×790×300	578×790×300	578×790×300	
		kg	40	40	40	
Remote Controller Type (Supplied With Unit)			Wired	Wired	Wired	
Interconnecting Cable (Suggested cable size 1.5mm)			3 Core + Earth			
Suggested MCB Size		Amp	16	16	16	
Max. Operating Current		Amp	7.5 / 10.0	9.0 / 12.5	9.0 / 12.5	
Power Supply To			Outdoor			
Connection Pipe Diameter (Gas & Liquid)		Inch	3/8 & 1/4	1/2 & 1/4	1/2 & 1/4	
Max Pipe Length (Factory Gas Charge Length)		m	25 (15)	25 (15)	25 (15)	
Max Height Difference			15	15	15	
Refrigerant	Type		R410A	R410A	R410A	
	Charge	g	1,150	1,250	1,250	
	Additional Charge	g/m	20	20	20	
Operation Range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	
	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24	
System List Price		£	1226	1363	1558	

Optional parts

Wired Remote Controller:	UTYRVNYM	£104	Modbus Interface:	FJRCMB51	£234
Simple Remote Controller:	UTYRSNYM	£83	KNX Interface:	FJRKNX1i	£265
IR Receiver Kit:	UTYLRHYM	£262	WiFi Interface:	FJRCWIF1i	£234
Remote Sensor Unit:	UTYXSZX	£56	Auto Louvre Grille Kit:	UTDGXSAW (ARYG12/14LLTB)	£135
External Connect Kit:	UTDECS5A	£14		UTDGXSBW (ARYG18LLTB)	£151

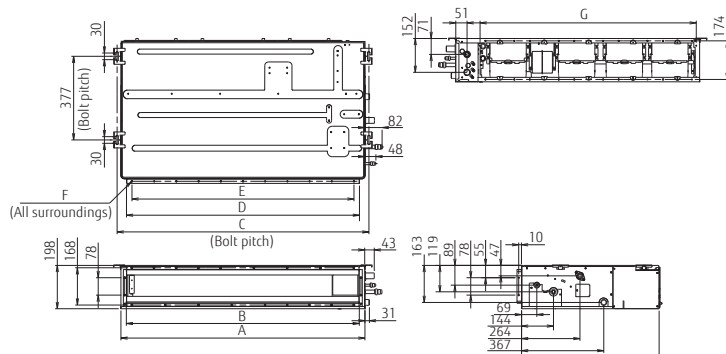
(Refer to page 102 for accessory combinations)



Drain hose is a standard accessory

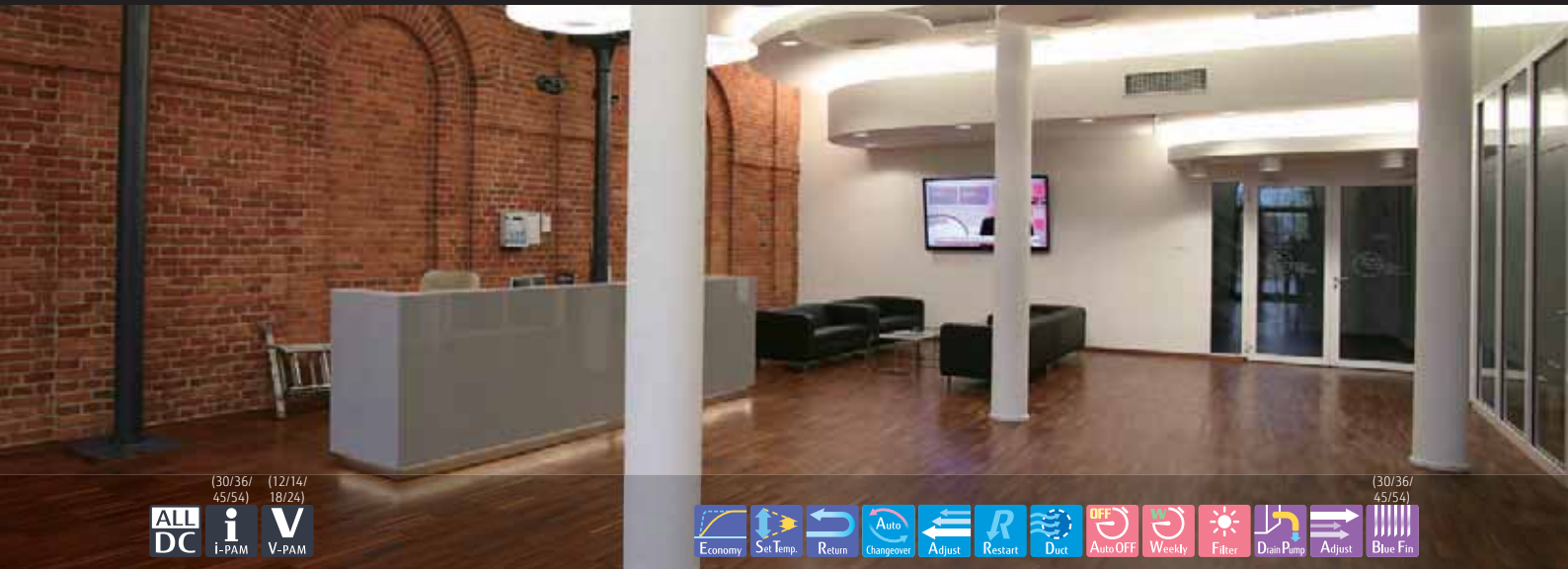
Dimensions

(Unit : mm)



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

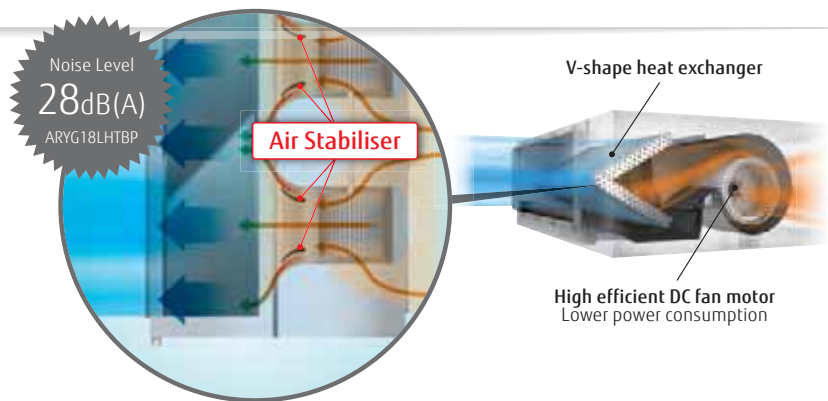
Medium Static Pressure Duct Compact & Comfort



Features

High Efficiency & Quiet operation

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



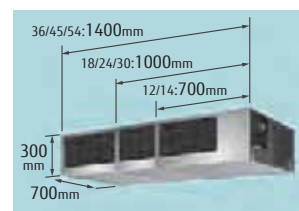
Automatic Airflow adjustment function

This unique and innovative function detects the required air flow for each application and automatically adjusts the air volume.



Improved installation flexibility

- Capable to be installed in various applications that require static pressure of 30 Pa to 200 Pa
- Built-in drain pump, rises drain up to 850 mm
- Unified depth throughout the range enables the selection of the capacity regardless of the additional space.

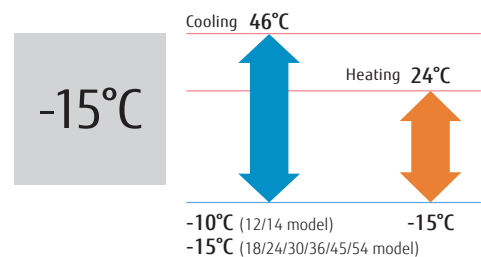


30 Pa 200 Pa
Short duct ↔ Long duct with damper

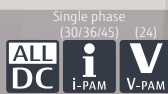
Improved service and maintenance

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

Low ambient operation



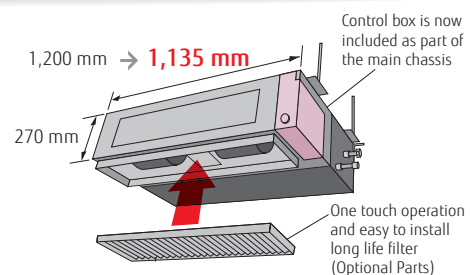
Medium Static Pressure Duct Standard



Features

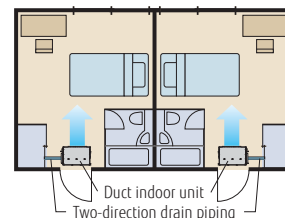
Slim & Compact design

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 as part of the chassis.



Two-direction drain piping

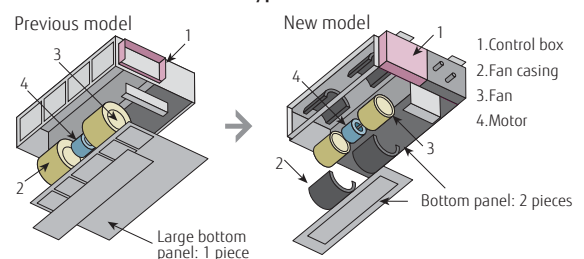
Improves installation possibilities.



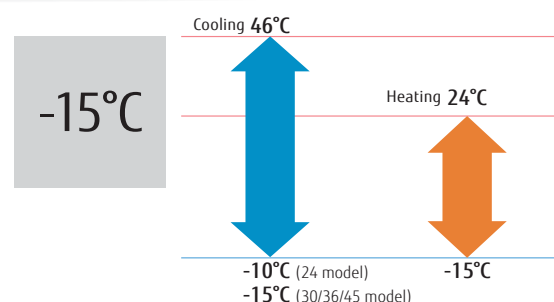
Easy maintenance

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

See below for the case of rear suction type



Low ambient operation





**Model : ARYG24LMLA / ARYG30LMLA / ARYG36LMLA / ARYG45LMLA /
ARYG36LMLA [3phase] / ARYG45LMLA [3phase]**



Wired R.C.



For ARYG24LMLA



For ARYG30/36LMLA



For ARYG36/45LMLA

Specifications

Model No.	Indoor unit		ARYG24LMLA	ARYG30LMLA	ARYG36LMLA	ARYG45LMLA	ARYG36LMLA	ARYG45LMLA	
	Outdoor unit		AOYG24LALA	AOYG30LETL	AOYG36LETL	AOYG45LETL	AOYG36LATT	AOYG45LATT	
Power Source			Single-phase, ~230V, 50Hz				3-phase, ~400V, 50Hz		
Capacity	Cooling	kW	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.4 (2.8-11.2)	12.1 (4.0-13.3)	10.0 (4.7-11.4)	12.5 (5.0-14.0)	
	Heating		8.0 (0.9-9.1)	10.0 (2.7-11.2)	11.2 (2.7-12.7)	13.3 (4.2-15.5)	11.2 (5.0-14.0)	14.0 (5.4-16.2)	
UK Total / Sensible Cooling		kW	5.98 / 4.52	8.41 / 6.66	9.03 / 6.72	11.31 / 8.53	9.07 / 6.39	11.38 / 7.69	
Input Power	Cooling / Heating	kW	2.21 / 2.26	2.65 / 2.68	2.96 / 3.10	1.33 / 1.34	2.84 / 2.87	3.89 / 3.88	
EER	Cooling	W/W	3.08	3.21	3.18	3.77	3.52	3.21	
COP	Heating		3.54	3.73	3.61	3.68	3.90	3.61	
Pdesign	Cooling / Heating (-10°C)	kW	6.8 / 6.0	8.5 / 8.0	9.4 / 8.7	3.21 / 3.61	10.0 / 10.0	3.21 / 3.61	
SEER	Cooling	W/W	6.20	5.90	5.70	-	5.80	-	
SCOP	Heating		4.00	3.90	3.80	-	4.00	-	
Energy Efficiency Class	Cooling		A++	A+	A+	-	A+	-	
	Heating		A+	A	A	-	A+	-	
Annual Energy Consumption	Cooling	kWh/a	384	504	576	-	603	-	
	Heating		2098	2868	3202	-	3497	-	
Moisture Removal		l/h	2.5	2.5	3.0	4.0	3.0	4.5	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	31 / 29 / 27 / 25	39 / 35 / 30 / 26	39 / 35 / 30 / 26	42 / 38 / 32 / 28	38 / 36 / 31 / 26	42 / 38 / 32 / 28
	Indoor (Heating)	H/M/L/Q		31 / 29 / 27 / 25	42 / 35 / 30 / 26	42 / 35 / 30 / 26	42 / 38 / 32 / 28	40 / 36 / 31 / 26	42 / 38 / 32 / 28
Sound Power Level	Outdoor (Cooling/Heating)	High		52 / 53	53 / 55	54 / 55	55 / 55	51 / 53	54 / 54
	Indoor (Cooling/Heating)	High		60 / 62	65 / 69	65 / 70	-	65 / 67	-
Sound Power Level	Outdoor (Cooling/Heating)	High	67 / 70	68 / 69	69 / 70	-	67 / 69	-	
	Airflow Rate	Indoor / Outdoor	High	m ³ /h	1100 / 2470	1900 / 3600	1900 / 3800	2100 / 6750	1800 / 6200
Static pressure range (Standard)			Pa	30 to 150 (35)	30 to 150 (47)	30 to 150 (47)	0 to 150 (60)	30 to 150 (47)	30 to 150 (60)
Net Dimensions H x W x D	Indoor		mm	270×1135×700	270×1135×700	270×1135×700	270×1135×620	270×1135×700	270×1135×700
		kg	38	40	40	40	40	40	
Weight	Outdoor		mm	578×790×315	830×900×330	830×900×330	1290×900×330	1290×900×330	1290×900×330
		kg	44	61	61	86	104	104	
Remote Controller Type (Supplied with unit)			Wired	Wired	Wired	Wired	Wired	Wired	
Interconnecting Cable (Suggested cable size 1.5mm)			3 Core + Earth				3 Core + Earth		
Suggested MCB Size		Amp	15	20	25	25	10	10	
Max. Operating Current		Amp	12.0 / 13.5	17.0 / 17.0	18.5 / 20.0	21.0 / 21.0	8.5 / 8.5	9.5 / 9.5	
Power Supply To			Outdoor				Outdoor		
Connection Pipe Diameter (Gas & Liquid)		Inch	5/8 & 1/4	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8	
Max Pipe Length (Factory Gas Charge Length)		m	30 (15)	50 (20)	50 (20)	50 (20)	75 (30)	75 (30)	
Max Height Difference			20	30	30	15	30	30	
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A	
	Charge	g	1,700	2,100	2,100	3,350	3,450	3,450	
	Additional Charge	g/m	20	40	40	40	50	50	
Operation Range	Cooling	°CDB	-10 to 46	-15 to 46	-15 to 46	-10 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	
System List Price			£	1993	2467	2662	2999	2882	3145

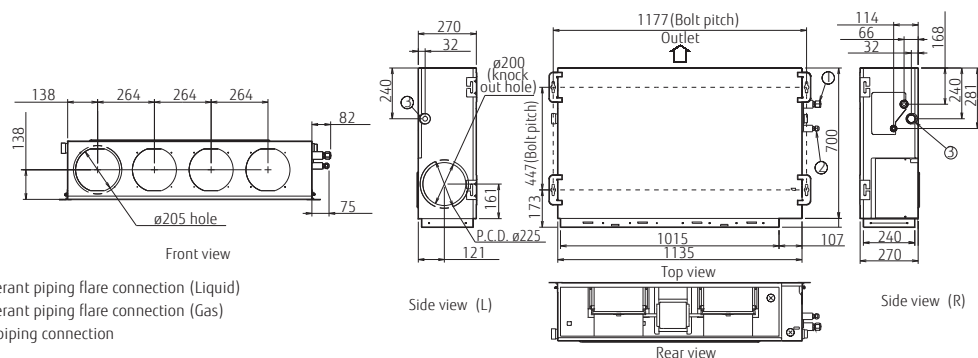
Optional parts

Wired Remote Controller:	UTYRVNYM	£104	Drain Pump Unit:	UTZPX1NBA	£62
Simple Remote Controller:	UTYRSNYM	£83	IR Receiver Kit:	UTYLRYHM	£262
Flange (Round):	UTDRF204	£31	External Connect Kit:	UTDECSA	£14
Flange (Square):	UTDSF045T	£42	Modbus Interface:	FJRCMSB1	£234
Long Life Filter:	UTDLF25NA	£95	KNX Interface:	FJRCKNX1i	£265
Remote Sensor Unit:	UTYXSZX	£56	WiFi Interface:	FJRCWIFI1	£234

(Refer to page 102 for accessory combinations)

Dimensions

(Unit : mm)



High Static Pressure Duct

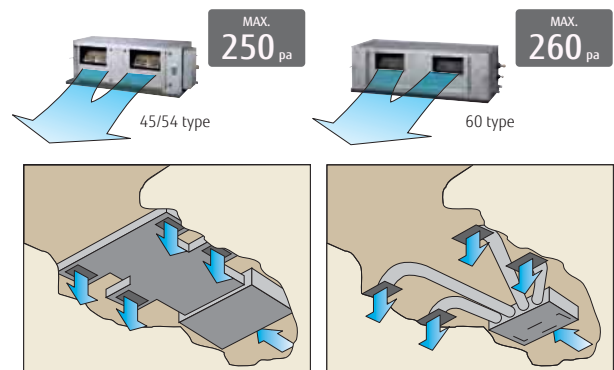


Features

High energy efficiency

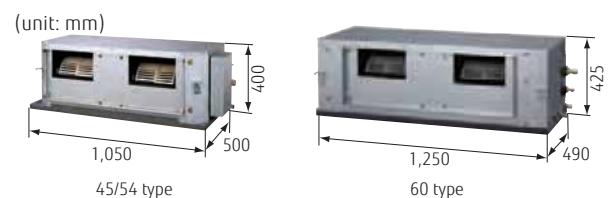
Significantly greater efficiency is achieved by using all DC inverter technology. (60 type)

Design has improved high static pressure.



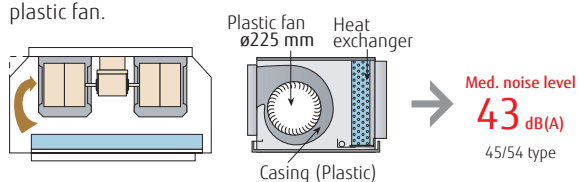
Easy installation (Compact size & Lightweight)

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

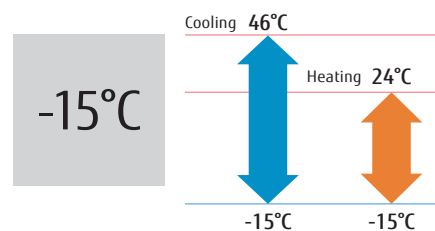


Low noise

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



Low ambient operation





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



Wired R.C.



ARYG45/54LHTA



ARYG60LHTA



Specifications

Model No.	Indoor unit		ARYG45LHTA	ARYG54LHTA	ARYG45LHTA	ARYG54LHTA	ARYG60LHTA	
	Outdoor unit		AOYG45LETL	AOYG54LETL	AOYG45LATT	AOYG54LATT	AOYG60LATT	
Power Source			Single-phase, ~230V, 50Hz		3-phase, ~400V, 50Hz			
Capacity	Cooling	kW	12.5 (4.5-14.0)	13.4 (5.0-14.5)	12.5 (5.0-14.0)	14.0 (5.4-16.0)	15.0 (6.2-17.5)	
	Heating		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)	
UK Total / Sensible Cooling			kW	12.07 / 10.17	13.14 / 10.93	11.47 / 9.59	12.85 / 10.32	13.47 / 12.77
Input Power	Cooling/Heating		kW	4.30 / 3.80	4.77 / 4.69	4.06 / 3.67	4.65 / 4.37	4.70 / 5.15
EER	Cooling		W/W	2.91	2.81	3.08	3.01	3.19
COP	Heating			3.68	3.41	3.81	3.66	3.50
Moisture Removal			l/h	1.5	2.0	1.5	2.5	2.0
Sound Pressure	Indoor (Cooling)	H / M / L	dB(A)	47 / 43 / 40	47 / 43 / 40	47 / 43 / 40	47 / 43 / 40	45 / 40 / 36
	Indoor (Heating)	H / M / L		47 / 43 / 40	47 / 43 / 40	47 / 43 / 40	47 / 43 / 40	45 / 40 / 36
	Outdoor(Cooling/Heating)	High		55 / 55	55 / 57	54 / 54	55 / 56	56 / 58
Airflow Rate	Indoor / Outdoor	High	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)
Net Dimensions H x W x D	Indoor	mm	400×1050×500	400×1050×500	400×1050×500	400×1050×500	400×1050×500	425×1250×490
		kg	46	46	46	46	54	
	Outdoor	mm	1290×900×330	1290×900×330	1290×900×330	1290×900×330	1290×900×330	1290×900×330
Weight			kg	86	86	104	104	104
Remote Controller Type (Supplied with unit)			Wired	Wired	Wired	Wired	Wired	Wired
Interconnecting Cable (Suggested cable size 2.5mm)			3 Core + Earth		3 Core + Earth			
Suggested MCB Size			Amp	25	25	15	15	15
Max. Operating Current			Amp	22.5 / 22.5	23.5 / 23.5	11.0 / 11.0	12.0 / 12.0	12.5 / 12.5
Power Supply To			Outdoor		Outdoor			
Connection Pipe Diameter (Gas & Liquid)			Inch	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8
Max Pipe Length (Factory Gas Charge Length)			m	50 (20)	50 (20)	75 (30)	75 (30)	75 (30)
Max Height Difference				30	30	30	30	30
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge	g	3,350	3,350	3,450	3,450	3,450	
	Additional Charge	g/m	40	40	50	50	50	
Operation Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	
System List Price			£	3059	3293	3205	3471	3726

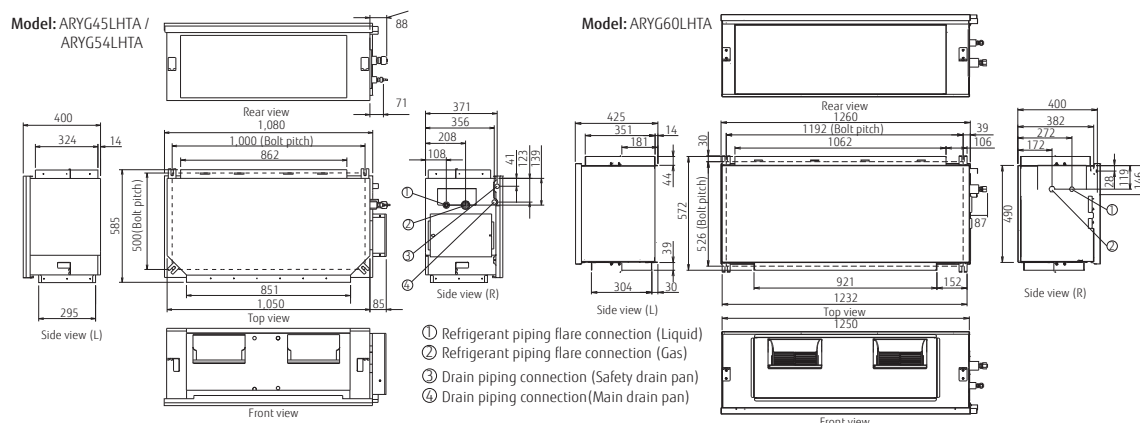
Optional parts

Wired Remote Controller:	UTYRVNYM	£104	External Connect Kit: - Indoor	UTDECSSA	£14
Simple Remote Controller:	UTYRSNYM	£83	External Connect Kit: - Outdoor	UTYXWZXZ2	£19
Long Life Filter:	UTDLF60KA (for ARYG45/54LHTA only)	£95	Modbus Interface:	FJRCMBS1	£234
Remote Sensor Unit:	UTYXSZX	£56	KNX Interface:	FJRCKNX1i	£265
IR Receiver Kit:	UTYLRYHM (for ARYG60LHTA only)	£262	WiFi Interface:	FJRCWIF1i	£234

(Refer to page 102 for accessory combinations)

Dimensions

(Unit : mm)



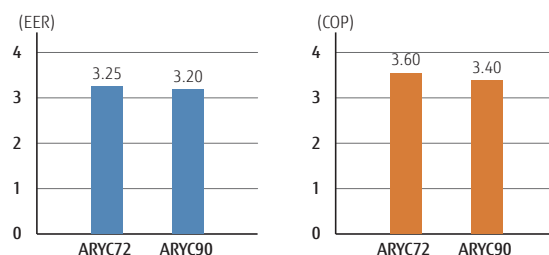
High Static Pressure Duct



Features

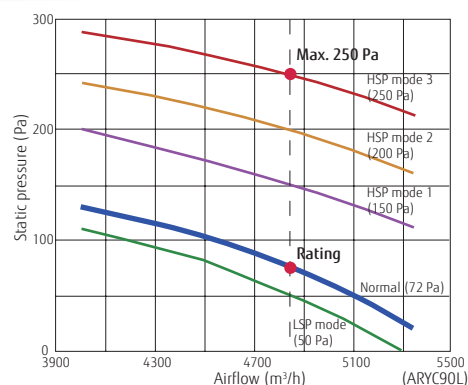
High energy efficiency

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



5 Static Pressure selection

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



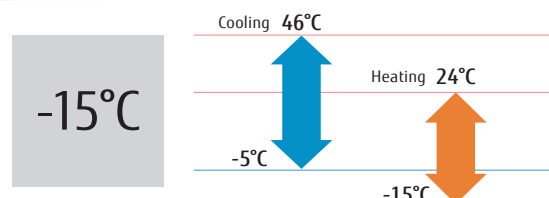
Outdoor unit quiet operation

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.

Low ambient operation

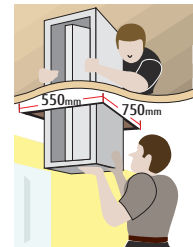
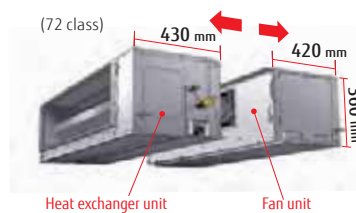




Features

Separation of the fan coil is possible by lightweight compact design

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



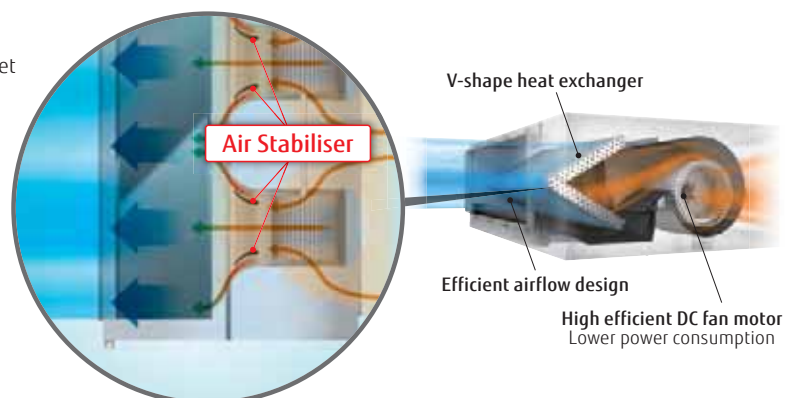
Automatic Airflow adjustment function

This function can set the optimum airflow automatically, so that time spent balancing the airflow is considerably reduced.



Quiet operation

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





Model : ARYG72LHTA / ARYG90LHTA

Future Release



Wired R.C.



Specifications

Tentative

Model No.	Indoor unit		ARYG72LHTA		ARYG90LHTA		
	Outdoor unit		AOYG72LRLA		AOYG90LRLA		
Power Source			3-phase, ~400V, 50Hz				
Capacity	Cooling	kW	19.0 (10.8-20.9)		22.0 (11.2-24.2)		
	Heating		22.4 (12.0-24.6)		27.0 (12.5-29.2)		
UK Total / Sensible Cooling			18.96 / 14.65		21.95 / 16.62		
Input Power	Cooling/Heating		kW	6.46 / 6.93		8.30 / 8.94	
EER	Cooling	W/W	2.94		2.65		
COP	Heating		3.23		3.02		
Max. Operating Current	Cooling/Heating	A	13.3 / 13.3		16/16		
Moisture Removal		l/h	4.5		6.0		
Sound Pressure	Indoor (Cooling)	H/M/L/Q	46*/ * / * /35*		47*/ * / * /35*		
	Indoor (Heating)	H/M/L/Q	46*/ * / * /35*		47*/ * / * /35*		
	Outdoor(Cooling/Heating)	High	55*/55*		55*/57*		
Airflow Rate	Indoor / Outdoor	High	m³/h	4300/8400		4300/9000	
Static pressure range (Standard)			Pa	50 to 150 (72)		50 to 200 (72)	
Net Dimensions H x W x D Weight	Indoor		mm	360×1400×850		360×1400×850	
		kg(lbs)	69* (152*)		81* (178*)		
	Outdoor		mm	1428×1080×480		1428×1080×480	
		kg(lbs)	165* (363*)		172* (378*)		
Remote Controller Type (Supplied with unit)			Wired		Wired		
Interconnecting Cable (Suggested cable size 2.5mm)			3 Core +Earth				
Suggested MCB Size		Amp	TBC		TBC		
Max. Operating Current		Amp	TBC		TBC		
Power Supply To			Outdoor				
Connection Pipe Diameter (Gas / Liquid)		Inch	7/8 / 1/2		7/8 & 1/2		
Max Pipe Length (Pre-Charge)		m	100* (30)		100* (30)		
Height Difference			30		30		
Refrigerant	Type		R410A		R410A		
	Charge	g	5,600		7,160		
	Additional Charge	g/m	110		110		
Operation Range	Cooling	°CDB	-5 to 46		-5 to 46		
	Heating		-20 to 24		-20 to 24		
System List Price		£	Future Release		Future Release		

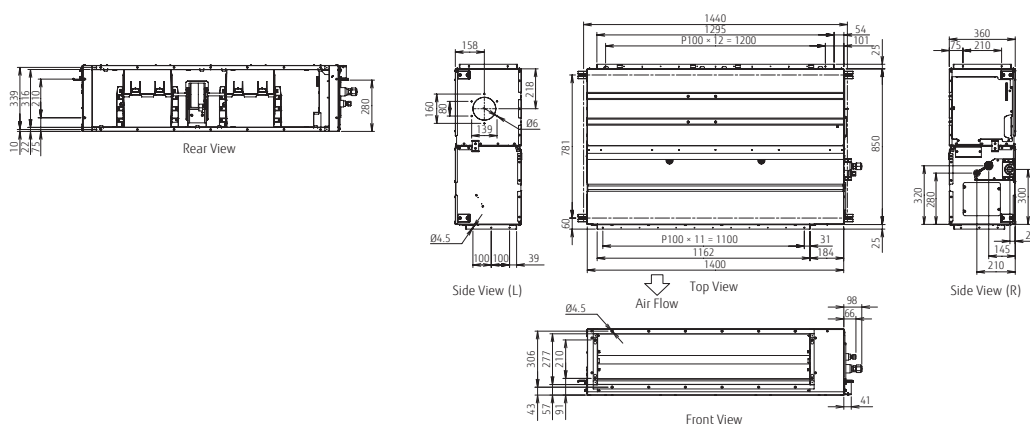
*: That specification is not fixed yet.

Optional parts

Wired Remote Controller:	UTYRNRVZ2	£161	External input & output PCB (with bracket):	UTYXCSX + UTZGXNA	£85 + £28
Wired Remote Controller:	UTYRVNYM	£104	Drain Pump Unit:	UTZPX1NAB	£ TBC
Simple Remote Controller:	UTYRSNYM	£83	Long Life Filter:	UTDLFNA	£61
Simple Remote Controller:	UTYRSRY	£120			
IR Receiver Unit:	UTYLBTYM	£266	(Refer to page 102 for accessory combinations)		
Remote Sensor Unit:	UTYXSZX	£56			
External Connect Kit:	UTYXWZXZG	£8			

Dimensions

(Unit : mm)





Features

Flexible installation

Example for floor installation

Floor console



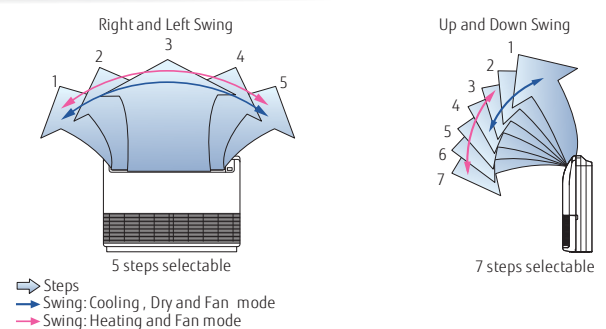
Example for ceiling installation

Under ceiling



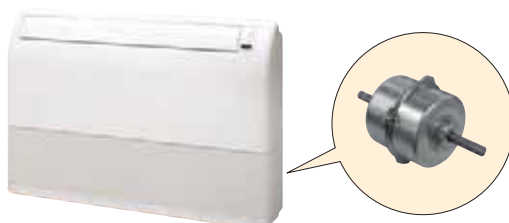
Double auto swing

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

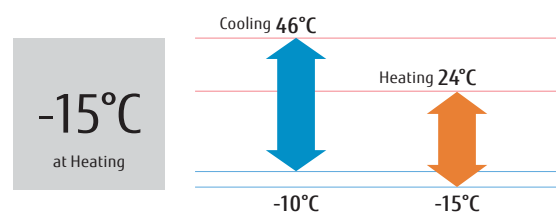


High power DC fan motor

- High power
- Wide rotation range
- High efficiency



Low ambient operation





Model : ABYG18LVTB / ABYG24LVTA



Wireless R.C.



For ABYG18LVTB



For ABYG24LVTA

Specifications

Model No.	Indoor unit		ABYG18LVTB		ABYG24LVTA		
	Outdoor unit		AOYG18LALL		AOYG24LALA		
Power Source			Single-phase, ~230V, 50Hz				
Capacity	Cooling	kW	5.2 (0.9-5.9)		6.8 (0.9-8.0)		
	Heating		6.0 (0.9-7.5)		8.0 (0.9-9.1)		
UK Total / Sesible Cooling			4.79 / 3.33		6.05 / 4.51		
Input Power	Cooling/Heating	kW	1.62/1.66		2.21/2.26		
EER	Cooling	W/W	3.21		3.08		
COP	Heating		3.61		3.54		
Pdesign	Cooling/Heating(-10°C)	kW	5.2/5.2		6.8/6.0		
SEER	Cooling	W/W	6.10		5.60		
SCOP	Heating (Average)		4.00		3.90		
Energy Efficiency Class	Cooling		A++		A+		
	Heating (Average)		A+		A		
Annual Energy Consumption	Cooling	kWh/a	298		425		
	Heating		1819		2150		
Moisture Removal			l/h		2.7		
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	dB(A)	43/40/34/31		48/44/40/35	
	Indoor (Heating)	H/M/L/Q		43/40/34/31		48/44/40/35	
	Outdoor(Cooling/Heating)	High		50/50		52/53	
Sound Power Level	Indoor(Cooling/Heating)	High		57/57		61/61	
	Outdoor(Cooling/Heating)	High		62/65		67/70	
Airflow Rate			Indoor / Outdoor	High	m³/h	780/2000	980/2470
Net Dimensions H x W x D Weight	Indoor		mm	199×990×655		199×990×655	
		kg(lbs)	27 (59)		27 (59)		
	Outdoor		mm	578×790×300		578×790×315	
		kg(lbs)	40 (88)		44 (97)		
Remote Controller Type (Supplied with unit)			Wireless		Wireless		
Interconnecting Cable (Suggested cable size 1.5mm)			3 Core + Earth				
Suggested MCB Size			Amp		16		
Max. Operating Current	Cooling/Heating	A	9.0/12.5		12.0/13.5		
Power Supply To			Outdoor				
Connection Pipe Diameter (Gas & Liquid)			Inch		1/4 & 1/2		
Max Pipe Length (Factory Gas Charge)			m		25 (15)		
Max Height Difference					15		
Refrigerant	Type		R410A		R410A		
	Charge	g	1,250		1,700		
	Additional Charge	g/m	20		20		
Operation Range	Cooling	°CDB	-10 to 46		-10 to 46		
	Heating		-15 to 24		-15 to 24		
System List Price			£	1471	1827		

Optional parts

Wired Remote Controller: UTYRVNYM £104

Simple Remote Controller: UTYRSNYM £83

External Connect Kit: UTYXWZX £9

Modbus Interface: FJRCMBS1 £234

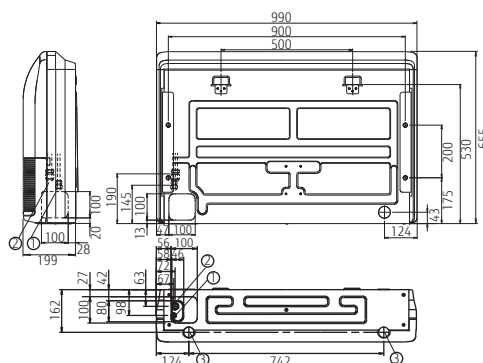
KNX Interface: FJRCNX1i £265

WiFi Interface: FJRCWIFI1 £234

(Refer to page 102 for accessory combinations)

Dimensions

(Unit : mm)



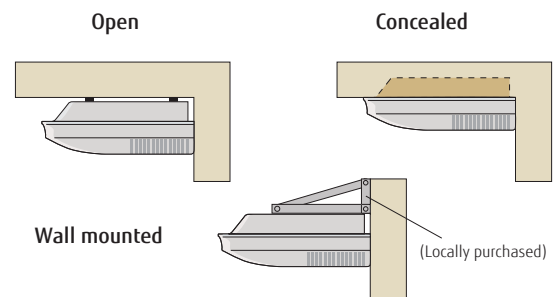
- ① Refrigerant piping flare connection (Liquid)
- ② Refrigerant piping flare connection (Gas)
- ③ Drain piping connection



Features

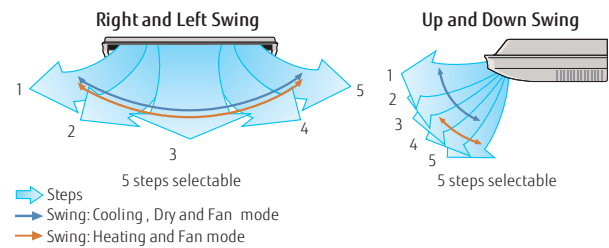
Flexible installation

Various installations are possible to match the room layout.

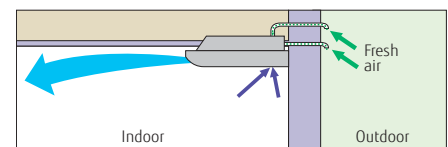


Multi auto swing

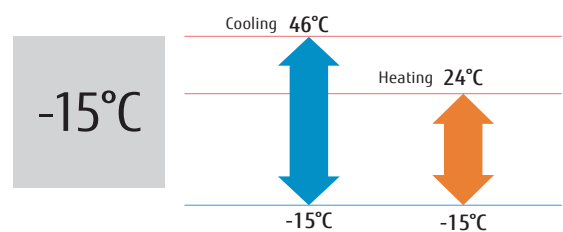
A combination of right/left and up/down directional swing allows 3-dimensional air direction control.



Fresh air intake



Low ambient operation





**Model : ABYG30LRT / ABYG36LRT / ABYG45LRTA /
ABYG36LRTA [3phase] / ABYG45LRTA [3phase] / ABYG54LRTA [3phase]**



Wireless R.C.



For ABYG30/36LRT

For ABYG36/45/54LRTA

Specifications

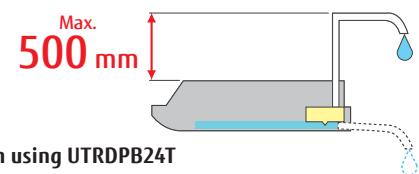
Model No.	Indoor unit		ABYG30LRT	ABYG36LRT	ABYG45LRTA	ABYG36LRTA	ABYG45LRTA	ABYG54LRTA
	Outdoor unit		AOYG30LETL	AOYG36LETL	AOYG45LETL	AOYG36LATT	AOYG45LATT	AOYG54LATT
Power Source			Single-phase, ~230V, 50Hz			3-phase, ~400V, 50Hz		
Capacity	Cooling	kW	8.5 (2.8-10.0)	9.4 (2.8-11.2)	12.1 (4.0-13.3)	10.0 (4.7-11.4)	12.5 (5.0-14.0)	14.0 (5.4-16.0)
	Heating		10.0 (2.7-11.2)	11.2 (2.7-12.7)	13.3 (4.2-15.5)	11.2 (5.0-14.0)	14.0 (5.4-16.2)	16.0 (5.8-18.0)
Input Power		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
Input Power	Cooling/Heating	kW	2.65 / 2.77	2.93 / 3.02	3.77 / 3.68	2.84 / 2.87	3.89 / 3.88	4.65 / 4.67
EER	Cooling	W/W	3.21	3.21	3.21	3.52	3.21	3.01
COP	Heating		3.61	3.71	3.61	3.90	3.61	3.43
Pdesign	Cooling / Heating(-10°C)	kW	8.5 / 8.0	9.4 / 8.7	-	10.0 / 10.0	-	-
SEER	Cooling	W/W	6.10	6.00	-	6.10	-	-
SCOP	Heating		4.20	4.10	-	4.10	-	-
Energy Efficiency Class	Cooling		A++	A+	-	A++	-	-
	Heating		A+	A+	-	A+	-	-
Annual Energy Consumption	Cooling	kWh/a	487	548	-	573	-	-
	Heating		2662	2965	-	3414	-	-
Moisture Removal		l/h	2.5	3.0	4.0	3.0	4.5	5.0
Sound Pressure Level	Indoor (Cooling)	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
	Indoor (Heating)	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
Sound Power Level	Outdoor(Cooling/Heating)	High	53 / 55	54 / 55	55 / 55	51 / 53	54 / 54	55 / 56
	Indoor(Cooling/Heating)	High	57 / 60	60 / 61	-	61 / 61	-	-
Airflow Rate	Indoor / Outdoor	High	68 / 69	69 / 70	-	67 / 69	-	-
		m³/h	1660 / 3600	1900 / 3800	2100 / 6200	1900 / 6200	2100 / 6900	2300 / 6900
Net Dimensions	Indoor	kg(lbs)	240×1660×700	240×1660×700	240×1660×700	240×1660×700	240×1660×700	240×1660×700
H x W x D		mm	46 (101)	46 (101)	46 (101)	46 (101)	46 (101)	48 (106)
Weight	Outdoor	kg(lbs)	830×900×330	830×900×330	1290×900×330	1290×900×330	1290×900×330	1290×900×330
		mm	61 (134)	61 (134)	86 (189)	104 (229)	104 (229)	104 (229)
Remote Controller Type (Supplied with unit)			Wireless	Wireless	Wireless	Wireless	Wireless	Wireless
Interconnecting Cable (Suggested cable size 1.5mm)			3 Core + Earth			3 Core + Earth		
Suggested MCB Size		Amp	20	25	25	16	16	16
Max. Operating Current	Cooling / Heating	Amp	17.0 / 17.0	18.5 / 20.0	20.5 / 20.5	7.9 / 7.9	8.9 / 8.9	9.9 / 9.9
Power Supply To			Outdoor			Outdoor		
Connection Pipe Diameter (Gas & Liquid)		Inch	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8	5/8 & 3/8
Max Pipe Length (Factory Gas Charge Length)		m	50 (20)	50 (20)	50 (20)	75 (30)	75 (30)	75 (30)
Max Height Difference			30	30	30	30	30	30
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A
	Charge	g	2,100	2,100	3,350	3,450	3,450	3,450
	Additional Charge	g/m	40	40	40	50	50	50
Operation Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
System List Price		£	2363	2872	3192	2859	3338	3507

Optional parts

Wired Remote Controller:	UTYRVNYM	£104
Simple Remote Controller:	UTYRSNYM	£83
Drain Pump Unit:	UTRDPB24T	£47
Flange	UTDRF204	£31

External Connect Kit:	UTYXWZX	£9
Modbus Interface:	FJRCMB51	£234
KNX Interface:	FJRCKNX1i	£265
WiFi Interface:	FJRCWIFI1	£234

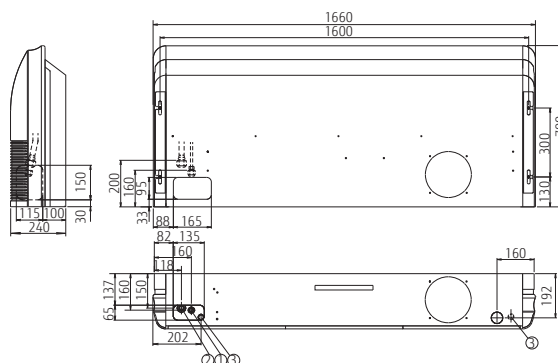
(Refer to page 102 for accessory combinations)



When using UTRDPB24T

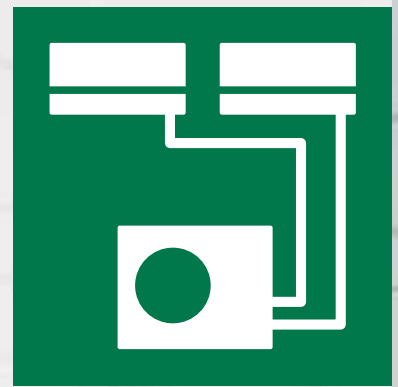
Dimensions

(Unit : mm)



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

MULTI SPLIT





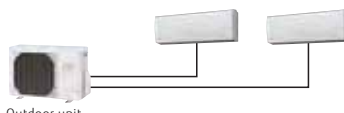
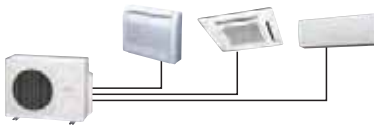
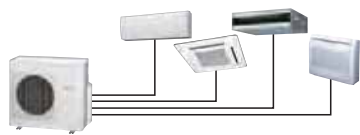
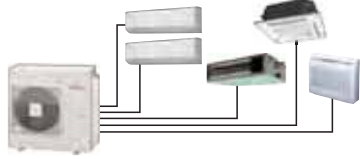
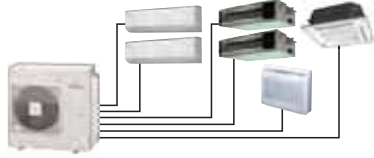
MULTI SPLIT

- 074 PRODUCT LINEUP
- 076 2 & 3-4 ROOMS MULTI
- 078 5-6 ROOMS MULTI
- 080 INDOOR UNITS FOR MULTI SPLIT SPECIFICATIONS
- 082 MULTI COMBINATION TABLE

MULTI SPLIT Outdoor Units



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

		Indoor unit						
Model code		14	18		24	30	36	45
Cooling rated capacity(kW)		4	5	5.4	6.8	8	10	12.5
2 Rooms Multi Up to 2 units	 Outdoor unit	● AOYG 14LAC2	● AOYG 18LAC2					
3 Rooms Multi Up to 3 units	 Outdoor unit			● AOYG 18LAT3*	● AOYG 24LAT3*			
4 Rooms Multi Up to 4 units	 Outdoor unit					● AOYG 30LAT4*		
NEW 5 Rooms Multi Up to 5 units	 Outdoor unit						● AOYG 36LBA5*	
NEW 6 Rooms Multi Up to 6 units	 Outdoor unit							● AOYG 45LBA6*

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 6.0kW.

AOYG18LAC2: Total capacity of indoor units connected must be between 4.0 kW and 7.0 kW.

2. 3 Rooms Multi: Connectable indoor units are 2 to 3 units.

AOYG18LAT3: Total capacity of indoor units connected must be between 4.0 kW and 8.5 kW.

AOYG24LAT3: Total capacity of indoor units connected must be between 4.0 kW and 10.5 kW.

3. 4 Rooms Multi: Connectable indoor units are 3 to 4 units.

AOYG30LAT4: Total capacity of indoor units connected must be between 7.5 kW and 14.0 kW.

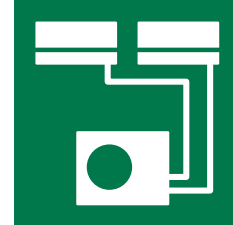
4. 5 Rooms Multi: Connectable indoor units are 2 to 5 units

AOYG36LBA5: Total capacity of indoor units connected must be between 7.5 kW and 15.5 kW.

5. 6 Rooms Multi: Connectable indoor units are 2 to 6 units

AOYG45LBA6 Total capacity of indoor units connected must be between 9.5 kW and 18.0 kW.

MULTI SPLIT Connectable Indoor Units



Outdoor Unit	Type		2 Rooms		3 Rooms		4 Rooms	5 Rooms	6 Rooms
	Model name		AOYG14LAC2	AOYG18LAC2	AOYG18LAT3	AOYG24LAT3	AOYG30LAT4	AOYG36LBA5	AOYG45LBA6
									
	Capacity (kW)	Cooling Heating	4.0	5.0	5.4	6.8	8.0	10.0	12.5
			4.4	5.6	6.8	8.0	9.6	12.0	13.5

Indoor Unit	BTU	kW Class							
 ASYG07/09/12/14LMCE	7000	2.0	●	●	●	●	●	●	●
	9000	2.5	●	●	●	●	●	●	●
 ASYG07/09/12/14LUCA	12000	3.5	●	●	●	●	●	●	●
	14000	4.0	—	●	●	●	●	●	●
 ASYG18/24LF	18000	5.0	—	—	—	●	●	●	●
	24000	7.0	—	—	—	—	●	●	●
 AGYG09/12/14LV	9000	2.5	—	●	●	●	●	●	●
	12000	3.5	—	●	●	●	●	●	●
	14000	4.0	—	—	●	●	●	●	●
 AUYG07/09/12/14/18LV	7000	2.0	—	●	●	●	●	●	●
	9000	2.5	—	●	●	●	●	●	●
	12000	3.5	—	●	●	●	●	●	●
	14000	4.0	—	—	●	●	●	●	●
	18000	5.0	—	—	—	●	●	●	●
 ABYG14/18LV	14000	4.0	—	—	●	●	●	●	●
	18000	5.0	—	—	—	●	●	●	●
 ARYG07/09/12/14/18SLAP	7000	2.0	—	●	●	●	●	●	●
	9000	2.5	—	●	●	●	●	●	●
	12000	3.5	—	●	●	●	●	●	●
	14000	4.0	—	—	●	●	●	●	●
	18000	5.0	—	—	—	●	●	●	●
 ARYG07/09/12/14/18LL	7000	2.0	—	●	●	●	●	●	●
	9000	2.5	—	●	●	●	●	●	●
	12000	3.5	—	●	●	●	●	●	●
	14000	4.0	—	—	●	●	●	●	●
	18000	5.0	—	—	—	●	●	●	●



2, 3 & 4 Rooms Multi



ALL
DC



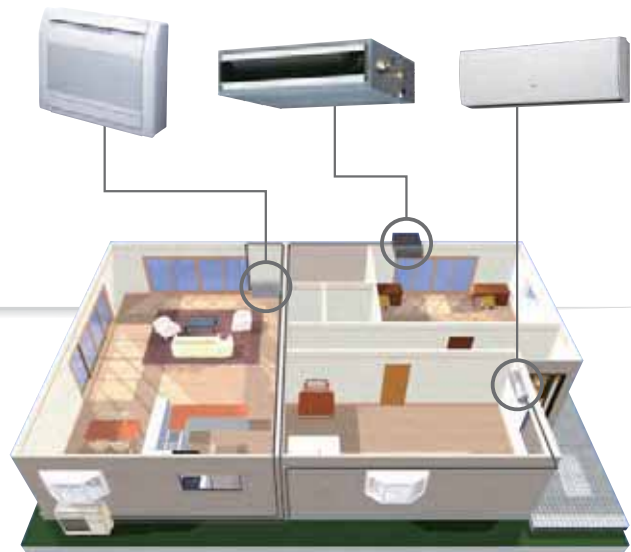
Features

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.

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 realise the space-saving installation.



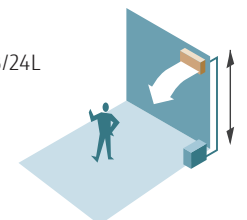
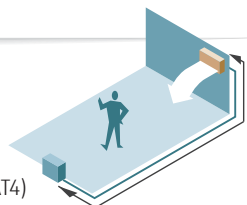
Flexible installation

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

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)



2 Rooms: AOYG14LAC2 / AOYG18LAC2

3 Rooms: AOYG18LAT3 / AOYG24LAT3

4 Rooms: AOYG30LAT4

Specifications (2 ROOMS, 3 ROOMS, 4 ROOMS)

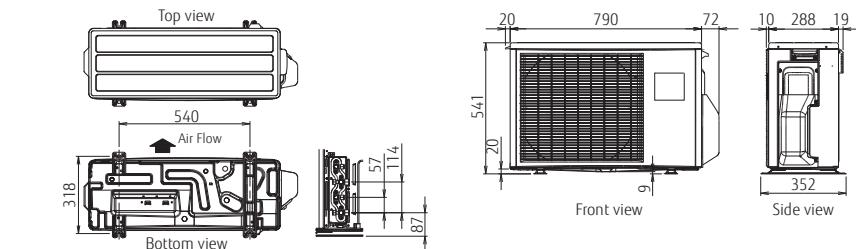
Model No.	Outdoor unit			AOYG14LAC2	AOYG18LAC2	AOYG18LAT3	AOYG24LAT3	AOYG30LAT4
Power Source				Single-phase, ~230V, 50Hz				
Nominal Capacity	Cooling	kW		4.0 (1.40-4.40)	5.0 (1.70-5.60)	5.4 (1.80-6.80)	6.8 (1.80-8.50)	8.0 (3.50-10.10)
	Heating			4.4 (1.10-5.40)	5.6 (1.80-6.10)	6.8 (2.00-8.00)	8.0 (2.00-8.80)	9.6 (3.70-12.00)
Power Consumption	Cooling/Heating		kW	1.09/1.03	1.56/1.41	1.35/1.62	1.94/2.00	2.22/2.40
EER	Cooling	W/W		3.67	3.21	4.00	3.51	3.60
COP	Heating			4.27	3.97	4.20	4.00	4.00
Pdesign	Cooling/Heating(-10°C)		kW	4.00/3.80	5.00/4.20	5.40/5.00	6.80/5.20	8.00/6.20
SEER	Cooling	W/W		6.70	6.60	6.90	6.40	6.20
SCOP	Heating (Average)			4.10	4.10	4.30	4.20	4.00
Energy Efficiency Class	Cooling			A++	A++	A++	A++	A++
	Heating (Average)			A+	A+	A+	A+	A+
Annual Energy Consumption	Cooling	kWh/a		209	265	274	372	451
	Heating			1296	1434	1627	1730	2169
Sound Pressure Level	Cooling	High	dB(A)	47	50	46	48	50
	Heating			49	51	47	49	51
Sound Power Level	Cooling/Heating	High		61/63	63/64	65/67	68/70	68/70
Airflow Rate	Indoor / Outdoor	High	m³/h	1850/1850	2050/2050	3050/2750	3300/3300	3500/3300
Net Dimensions	H x W x D Outdoor		mm	540×790×290	540×790×290	700×900×330	700×900×330	830×900×330
Weight	Outdoor		kg	37	38	55	55	68
Interconnecting Cable (Suggested cable size 1.5mm)				3 Core + Earth				
Suggested MCB Size			Amp	16	16	16	16	20
Max. Operating Current	Cooling/Heating		Amp	5.12/4.91	6.90/6.30	5.90/7.10	8.50/8.80	9.70/10.50
Starting Current			Amp	4.90	6.30	7.10	8.80	10.50
Power Supply To				Outdoor				
Connection Pipe Diameter	Gas	Inch		3/8 x2	3/8 x2	3/8 x2 / 1/2 x1	3/8 x2 / 1/2 x1	3/8 x2 / 1/2 x2
	Liquid			1/4 x2	1/4 x2	1/4 x3	1/4 x3	1/4 x4
Max Pipe Length (Factory Gas Charge Pipe Length)			m	30	30	50	50	70
Max Height Difference				15	15	15	15	15
Refrigerant	Type			R410A	R410A	R410A	R410A	R410A
	Charge	g		1,250	1,300	2,200	2,200	3,300
	Additional Charge	g/m		10	20	20	20	25
Operation Range	Cooling	°CDB		10 to 46	10 to 46	-10 to 46	-10 to 46	0 to 46
	Heating			-15 to 24	-15 to 24	-15 to 24	-15 to 24	-10 to 24
List Price			£	940	1136	1282	1462	1996

* Connect to connection valve by the adapter.

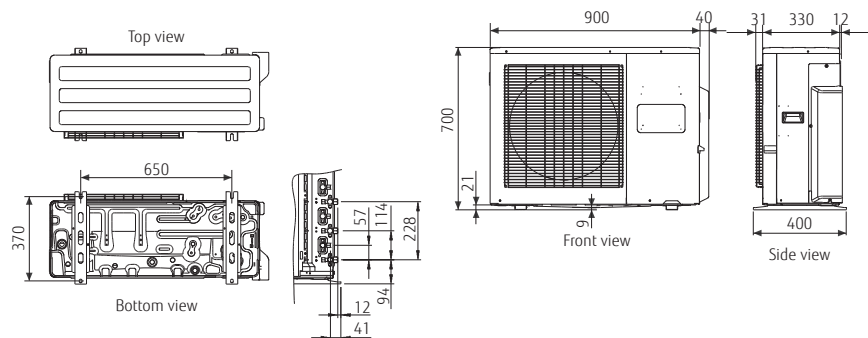
Dimensions

(Unit : mm)

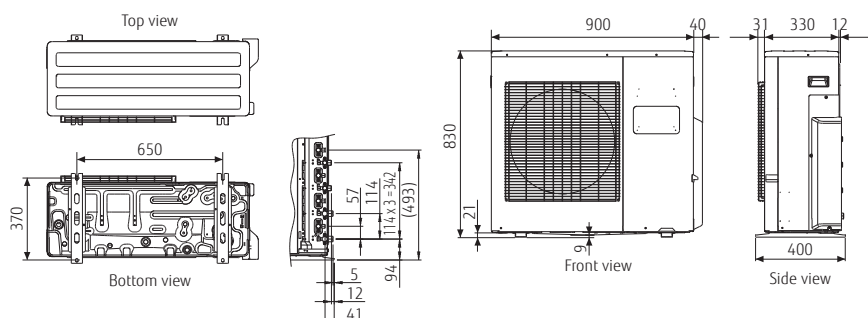
2 Rooms: AOYG14LAC2/AOYG18LAC2



3 Rooms: AOYG18LAT3/AOYG24LAT3



4 Rooms: AOYG30LAT4



5-6 Rooms Multi



Features

Wide range of indoor units with various models

6 types 26 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.



Compact design

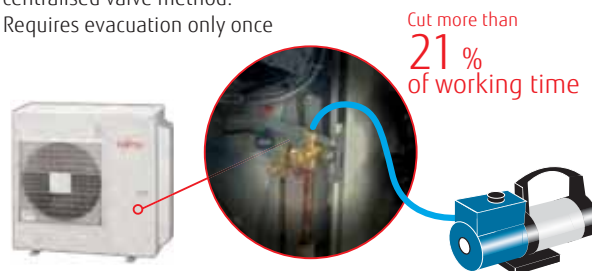
Multiple indoor units can be connected to 1 outdoor unit, and long piping connection is also possible. Compared with single type, the outdoor unit can be installed in various places to realise the space-saving installation.



970 mm

Easy installation

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

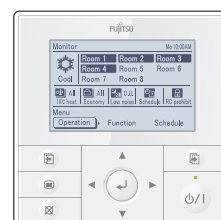


Central & Individual Control

- Batched control of up to 6 indoor units. The temperature, airflow volume, and remote control prohibition settings of all indoor units can be batched.
- Corresponds to 9 different languages (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)
- Large backlight LED screen
- Large easy-to-see operation panel

Max. Controllable
1 multi system

Max. Controllable
6 indoor units



5 Rooms: AOYG36LBLA5

6 Rooms: AOYG45LBLA6



Specifications (5 ROOMS, 6 ROOMS)

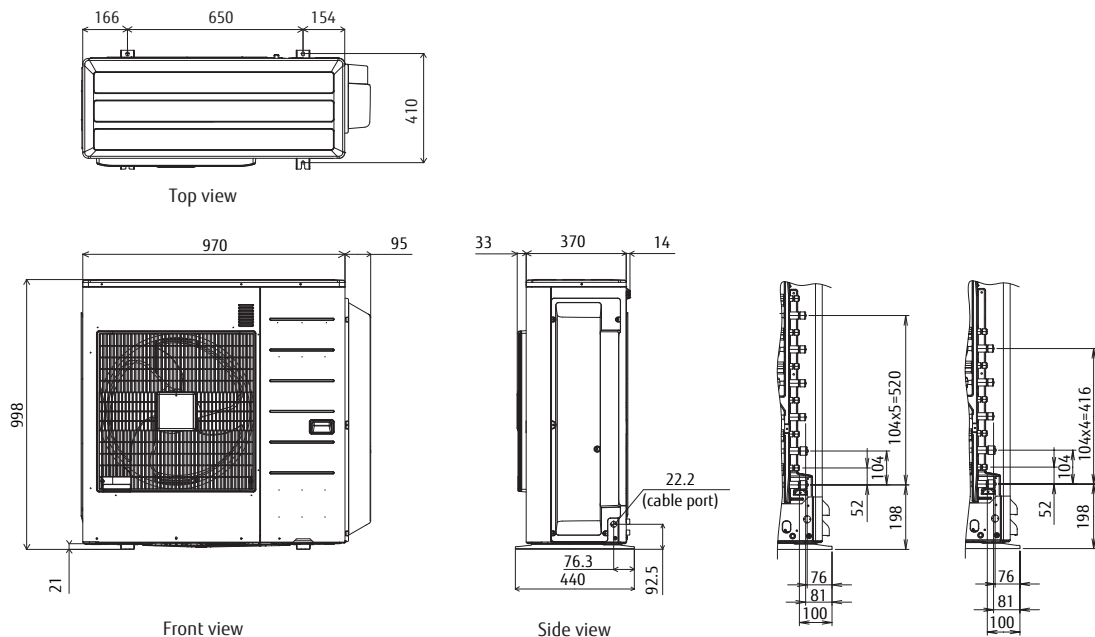
Model No.	Outdoor unit			AOYG36LBLA5	AOYG45LBLA6
Power Source				Single-phase, ~230V, 50Hz	
Nominal Capacity	Cooling	kW		10.0 (3.5-12.5)	12.5 (3.5-14.0)
	Heating			12.0 (3.5-14.0)	13.5 (3.5-16.0)
Power Consumption	Cooling/Heating		kW	2.44/2.79	3.57/3.37
EER	Cooling	W/W		4.10	3.50
COP	Heating			4.30	4.00
Pdesign	Cooling/Heating(-10°C)		kW	10.00/9.00	-
SEER	Cooling	W/W		7.00	-
SCOP	Heating (Average)			4.40	-
Energy Efficiency Class	Cooling			A++	-
	Heating (Average)			A+	-
Annual Energy Consumption	Cooling	kWh/a		500	-
	Heating			2859	-
Sound Pressure Level	Cooling	High	dB(A)	53	53
	Heating			55	55
Sound Power Level	Cooling/Heating		High	67/68	67/68
Airflow Rate	Outdoor	High	m³/h	4200	4200
Net Dimensions	H x W x D Outdoor		mm	998×970×370	998×970×370
Weight	Outdoor		kg	94	94
Interconnecting Cable (Suggested cable size 1.5mm)				Upto 5 x 3 Core + Earth	Upto 6 x 3 Core + Earth
Suggested MCB Size		Amp		25	30
Max. Operating Current	Cooling/Heating		Amp	20.6	24
Starting Current		Amp		12.30	15.70
Power Supply To				Outdoor	
Connection Pipe	Gas	Inch		3/8 x3, 1/2 x2	3/8 x4, 1/2 x2
Diameter	Liquid				1/4 x5
Max Pipe Length (Factory Gas Charge Pipe Length)		m		80 (50)	80 (50)
Max Height Difference					15
Refrigerant	Type			R410A	R410A
	Charge	g		4,000	4,000
	Additional Charge	g/m		20	20
Operation Range	Cooling	°CDB		-10 to 46	-10 to 46
	Heating			-15 to 24	-15 to 24
List Price			£	2522	2862

Optional parts

Central Remote Controller: UTYDMMYM £468

Dimensions

(Unit : mm)



MULTI SPLIT

Indoor Units for MULTI SPLIT Specifications

Compact wall mounted



Model No.	Indoor unit			ASYG07LUCA	ASYG09LUCA	ASYG12LUCA	ASYG14LUCA
kW Class		kW		2.0	2.5	3.5	4.0
Power Source				Single-phase, ~230V, 50Hz			
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	35/30/28/21	36/32/28/21	37/34/31/21	41/36/33/25
	Heating			35/30/28/21	36/32/28/21	37/34/31/21	41/36/34/27
Sound Power Level	Cooling	H	dB(A)	53	54	55	59
	Heating			53	54	55	59
Airflow Rate	Cooling	H/M/L/Q	m³/h	570/520/470/330	600/550/470/330	660/600/530/330	710/640/570/390
	Heating			570/520/470/330	600/550/470/330	660/600/530/330	710/640/590/430
Net Dimensions H x W x D			mm	282×870×185	282×870×185	282×870×185	282×870×185
Weight			kg	9.5	9.5	9.5	9.5
Connection Pipe Diameter		Liquid/Gas	Inch	1/4 & 3/8	1/4 & 3/8	1/4 & 3/8	1/4 & 1/2
List Price			£	392	419	487	561

Wall mounted



Model No.	Indoor unit			ASYG18LFCA	ASYG24LFCC
kW Class		kW		5.0	7.0
Power Source				Single-phase, ~230V, 50Hz	
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	43/37/33/26	49/42/37/33
	Heating			42/37/33/25	48/42/37/33
Sound Power Level	Cooling	H	dB(A)	58	64
	Heating			58	64
Airflow Rate	Cooling	H/M/L/Q	m³/h	900/740/620/550	1120/900/740/620
	Heating			900/740/620/550	1100/900/740/620
Net Dimensions H x W x D			mm	320×998×238	320×998×238
Weight			kg	14	14
Connection Pipe Diameter		Liquid/Gas		Inch	1/4 & 5/8
List Price			£	415	668

Compact wall mounted

NEW

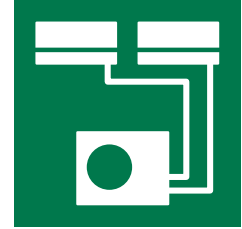


Model No.	Indoor unit			ASYG07LMCE	ASYG09LMCE	ASYG12LMCE	ASYG14LMCE
kW Class		kW		2.0	2.5	3.5	4.0
Power Source				Single-phase, ~230V, 50Hz			
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	36/32/29/21	37/33/29/21	40/36/30/21	42/38/33/25
	Heating			36/32/29/22	37/33/29/22	40/36/31/22	42/38/35/27
Sound Power Level	Cooling	H	dB(A)	51	52	54	56
	Heating			51	52	55	57
Airflow Rate	Cooling	H/M/L/Q	m³/h	560/500/430/310	600/520/430/310	660/560/450/310	730/600/530/360
	Heating			560/500/430/330	600/520/430/330	660/560/470/330	730/615/560/375
Net Dimensions H x W x D			mm	270×870×204	270×870×204	270×870×204	270×870×204
Weight			kg	8.5	8.5	8.5	8.5
Connection Pipe Diameter		Liquid/Gas	Inch	1/4 & 3/8	1/4 & 3/8	1/4 & 3/8	1/4 & 1/2
List Price			£	279	295	334	385

Floor



Model No.	Indoor unit			AGYG09LVCA	AGYG12LVCA	AGYG14LVCA
kW Class			kW	2.5	3.5	4.0
Power Source				Single-phase, ~230V, 50Hz		
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	39/34/28/22	42/36/30/22	44/38/31/22
	Heating			39/35/30/22	42/38/32/22	44/39/33/22
Sound Power Level	Cooling	H	dB(A)	52	55	56
	Heating			52	55	56
Airflow Rate	Cooling	H/M/L/Q	m³/h	530/440/360/270	600/490/380/270	650/520/400/270
	Heating			530/460/380/270	600/510/410/270	650/540/430/270
Net Dimensions H x W x D			mm	600×740×200	600×740×200	600×740×200
Weight			kg	14	14	14
Connection Pipe Diameter		Liquid/Gas	Inch	1/4 & 3/8	1/4 & 3/8	1/4 & 1/2
List Price			£	505	579	666



Floor ceiling



Model No.	Indoor unit			ABYG14LVTA	ABYG18LVTB
kW Class		kW		4.0	5.0
Power Source				Single-phase, ~230V, 50Hz	
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	36/34/33/29 (Under ceiling) 39/37/36/32 (Floor console)	41/38/34/32 (Under ceiling) 44/41/37/35 (Floor console)
	Heating			36/34/33/29 (Under ceiling) 39/37/36/32 (Floor console)	41/38/34/32 (Under ceiling) 44/41/37/35 (Floor console)
Sound Power Level	Cooling	H	dB(A)	51	55
	Heating			51	55
Airflow Rate	Cooling	H/M/L/Q	m³/h	640/590/540/480	780/700/560/500
	Heating			640/590/540/480	780/700/560/500
Net Dimensions H x W x D			mm	199×990×655	
Weight			kg	27	
Connection Pipe Diameter		Liquid/Gas		1/4 & 1/2	
List Price			£	417	687

Compact cassette



Model No.	Indoor unit			AUYG07LVLA	AUYG09LVLA	AUYG12LVLB	AUYG14LVLB	AUYG18LVLB
kW Class		kW		2.0	2.5	3.5	4.0	5.0
Power Source				Single-phase, ~230V, 50Hz				
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	33/31/29/27	33/31/29/27	37/33/31/28	40/35/32/29	42/37/33/29
	Heating			34/32/29/27	34/32/29/27	37/33/31/28	40/37/34/29	44/40/37/30
Sound Power Level	Cooling	H	dB(A)	46	46	49	52	54
	Heating			47	47	49	52	56
Airflow Rate	Cooling	H/M/L/Q	m³/h	540/490/440/390	540/490/440/390	610/530/470/410	680/580/490/410	750/610/520/410
	Heating			540/490/440/390	540/490/440/390	610/530/470/410	700/620/550/430	800/710/600/450
Net Dimensions H x W x D			mm	245×570×570	245×570×570	245×570×570	245×570×570	245×570×570
Weight			kg	15	15	15	15	15
Panel				UTG-UFYD-W				
Connection Pipe Diameter		Liquid/Gas	Inch	1/4 & 3/8	1/4 & 3/8	1/4 & 3/8	1/4 & 1/2	1/4 & 1/2
List Price			£	513	518	530	749	831

Mini duct

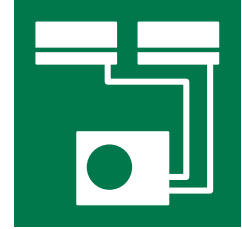


Model No.	Indoor unit			ARYG07LSLAP	ARYG09LSLAP	ARYG12LSLAP	ARYG14LSLAP	ARYG18LSLAP
kW Class		kW		2.0	2.5	3.5	4.0	5.0
Power Source				Single-phase, ~230V, 50Hz				
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	29/26/24/23	29/26/24/23	31/27/25/23	35/30/27/23	33/29/26/23
	Heating			29/26/24/23	29/26/24/23	31/27/25/23	35/30/27/23	33/29/26/23
Sound Power Level	Cooling	H	dB(A)	52	54	55	60	58
	Heating			53	56	57	62	59
Airflow Rate	Cooling	H/M/L/Q	m³/h	550/440/390/360	600/450/400/360	650/490/430/360	800/640/530/360	940/750/540/480
	Heating			550/440/390/360	600/450/400/360	650/490/430/360	800/640/530/360	940/750/540/480
Net Dimensions H x W x D			mm	198×700×450	198×700×450	198×700×450	198×700×450	198×900×450
Weight			kg	15.5				18.5
Connection Pipe Diameter		Liquid/Gas	Inch	1/4 & 3/8			1/4 & 1/2	
External static pressure			Pa	0 to 30			0 to 50	
Drain pump				Standard				
List Price			£	512	519	619	668	797

Slim duct



Model No.	Indoor unit			ARYG07LLTA	ARYG09LLTA	ARYG12LLTB	ARYG14LLTB	ARYG18LLTB
kW Class			kW	2.0	2.5	3.5	4.0	5.0
Power Source				Single-phase, ~230V, 50Hz				
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	28/26/25/24	28/27/26/25	29/28/27/26	32/30/28/26	32/31/30/29
	Heating			28/26/25/24	28/26/25/24	29/28/27/24	33/30/28/25	33/32/31/29
Sound Power Level	Cooling	H	dB(A)	57	57	58	60	58
	Heating			57	57	58	61	59
Airflow Rate	Cooling	H/M/L/Q	m³/h	550/490/470/440	600/550/500/450	650/600/550/480	800/700/600/480	940/880/820/750
	Heating			550/490/470/440	600/550/500/450	650/600/550/480	800/700/600/480	940/880/820/750
Net Dimensions H x W x D			mm	198×700×620	198×700×620	198×700×620	198×700×620	198×900×620
Weight			kg	17	19	19	19	23
Connection Pipe Diameter		Liquid/Gas	Inch	1/4 & 3/8	1/4 & 3/8	1/4 & 3/8	1/4 & 1/2	1/4 & 1/2
External static pressure				0 to 90				
Drain pump				Standard				
List Price			£	509	515	565	645	774

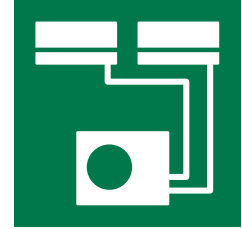


5 Rooms Multi cooling

AOYG36LBLA5		Combination of Indoor Unit		COOLING OPERATION												Seasonal Data					
				Cooling Capacity						Input Power (min-max)		EER	Pdesign kW	SEER	Energy efficiency class						
				Room 1	Room 2	Room 3	Room 4	Room 5	Total Capacity (min-max)												
				kW	kW	kW	kW	kW	kW	kW											
5 Room	7	7	7	7	7	7	2.00	2.00	2.00	2.00	2.00	10.0 (3.5-12.5)	2.44 (0.8-3.88)	4.10	10.0	7.0	A++				
	7	7	7	7	9	9	1.89	1.89	1.89	1.89	2.44	10.0 (3.5-12.5)	2.44 (0.8-3.88)	4.10	10.0	7.0	A++				
	7	7	7	7	12	12	1.75	1.75	1.75	1.75	3.00	10.0 (3.5-12.5)	2.43 (0.8-3.88)	4.11	10.0	7.0	A++				
	7	7	7	7	14	14	1.67	1.67	1.67	1.67	3.32	10.0 (3.5-12.5)	2.42 (0.8-3.88)	4.13	10.0	7.0	A++				
	7	7	7	7	18	18	1.52	1.52	1.52	1.52	3.92	10.0 (3.5-12.5)	2.41 (0.8-3.88)	4.15	10.0	6.9	A++				
	7	7	7	7	24	24	1.35	1.35	1.35	1.35	4.60	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.19	10.0	6.9	A++				
	7	7	7	9	9	9	1.79	1.79	1.79	2.31	2.31	10.0 (3.5-12.5)	2.43 (0.8-3.88)	4.11	10.0	7.0	A++				
	7	7	7	9	12	12	1.67	1.67	1.67	2.14	2.85	10.0 (3.5-12.5)	2.42 (0.8-3.88)	4.13	10.0	7.0	A++				
	7	7	7	9	14	14	1.59	1.59	1.59	2.05	3.18	10.0 (3.5-12.5)	2.42 (0.8-3.88)	4.14	10.0	7.0	A++				
	7	7	7	9	18	18	1.46	1.46	1.46	1.88	3.74	10.0 (3.5-12.5)	2.40 (0.8-3.88)	4.17	10.0	6.9	A++				
	7	7	7	9	24	24	1.30	1.30	1.30	1.67	4.43	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.21	10.0	6.9	A++				
	7	7	7	12	12	12	1.56	1.56	1.56	2.66	2.66	10.0 (3.5-12.5)	2.41 (0.8-3.88)	4.15	10.0	7.0	A++				
	7	7	7	12	14	14	1.49	1.49	1.49	2.55	2.98	10.0 (3.5-12.5)	2.40 (0.8-3.88)	4.16	10.0	6.9	A++				
	7	7	7	12	18	18	1.37	1.37	1.37	2.35	3.54	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.19	10.0	6.9	A++				
	7	7	7	14	14	14	1.43	1.43	1.43	2.86	2.86	10.0 (3.5-12.5)	2.40 (0.8-3.88)	4.17	10.0	6.9	A++				
	7	7	7	14	18	18	1.32	1.32	1.32	2.64	3.40	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.20	10.0	6.9	A++				
	7	7	9	9	9	9	1.70	1.70	2.20	2.20	2.20	10.0 (3.5-12.5)	2.43 (0.8-3.88)	4.12	10.0	7.0	A++				
	7	7	9	9	12	12	1.59	1.59	2.05	2.05	2.72	10.0 (3.5-12.5)	2.42 (0.8-3.88)	4.14	10.0	7.0	A++				
	7	7	9	9	14	14	1.52	1.52	1.96	1.96	3.04	10.0 (3.5-12.5)	2.41 (0.8-3.88)	4.15	10.0	6.9	A++				
	7	7	9	9	18	18	1.40	1.40	1.80	1.80	3.60	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.18	10.0	6.9	A++				
	7	7	9	12	12	12	1.49	1.49	1.92	2.55	2.55	10.0 (3.5-12.5)	2.40 (0.8-3.88)	4.16	10.0	6.9	A++				
	7	7	9	12	14	14	1.43	1.43	1.84	2.45	2.85	10.0 (3.5-12.5)	2.40 (0.8-3.88)	4.17	10.0	6.9	A++				
	7	7	9	12	18	18	1.32	1.32	1.70	2.26	3.40	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.20	10.0	6.9	A++				
	7	7	9	14	14	14	1.37	1.37	1.76	2.75	2.75	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.19	10.0	6.9	A++				
	7	7	12	12	12	12	1.40	1.40	2.40	2.40	2.40	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.18	10.0	6.9	A++				
	7	7	12	12	14	14	1.35	1.35	2.31	2.31	2.68	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.19	10.0	6.9	A++				
	7	7	12	14	14	14	1.30	1.30	2.22	2.59	2.59	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.21	10.0	6.9	A++				
	7	9	9	9	9	9	1.64	2.09	2.09	2.09	2.09	10.0 (3.5-12.5)	2.42 (0.8-3.88)	4.13	10.0	7.0	A++				
	7	9	9	9	12	12	1.52	1.96	1.96	1.96	2.60	10.0 (3.5-12.5)	2.41 (0.8-3.88)	4.15	10.0	6.9	A++				
	7	9	9	9	14	14	1.46	1.88	1.88	1.88	2.90	10.0 (3.5-12.5)	2.40 (0.8-3.88)	4.17	10.0	6.9	A++				
	7	9	9	9	18	18	1.35	1.73	1.73	1.73	3.46	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.19	10.0	6.9	A++				
	7	9	9	12	12	12	1.42	1.84	1.84	2.45	2.45	10.0 (3.5-12.5)	2.40 (0.8-3.88)	4.17	10.0	6.9	A++				
	7	9	9	12	14	14	1.37	1.76	1.76	2.35	2.76	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.19	10.0	6.9	A++				
	7	9	9	14	14	14	1.32	1.70	1.70	2.64	2.64	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.20	10.0	6.9	A++				
	7	9	12	12	12	12	1.34	1.73	2.31	2.31	2.31	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.19	10.0	6.9	A++				
	7	9	12	12	14	14	1.30	1.67	2.22	2.22	2.59	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.21	10.0	6.9	A++				
	9	9	9	9	9	9	2.00	2.00	2.00	2.00	2.00	10.0 (3.5-12.5)	2.41 (0.8-3.88)	4.15	10.0	7.0	A++				
	9	9	9	9	12	12	1.88	1.88	1.88	1.88	2.48	10.0 (3.5-12.5)	2.40 (0.8-3.88)	4.17	10.0	6.9	A++				
	9	9	9	9	14	14	1.80	1.80	1.80	1.80	2.80	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.18	10.0	6.9	A++				
	9	9	9	9	18	18	1.67	1.67	1.67	1.67	3.32	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.21	10.0	6.9	A++				
	9	9	9	12	12	12	1.76	1.76	1.76	2.36	2.36	10.0 (3.5-12.5)	2.39 (0.8-3.88)	4.19	10.0	6.9	A++				
	9	9	9	12	14	14	1.70	1.70	1.70	2.26	2.64	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.20	10.0	6.9	A++				
	9	9	12	12	12	12	1.67	1.67	2.22	2.22	2.22	10.0 (3.5-12.5)	2.38 (0.8-3.88)	4.21	10.0	6.9	A++				

- Note:
- 7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models
 - The above is the value for connecting with Wall Mounted type.
 - 2 or more indoor units should be connected.
 - Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
 - Pipe Length: 5m, Height difference: 0m (Outdoor unit to Indoor unit)
 - The Total ability of connected indoor unit is up to 54000Btu from 27000Btu.





5 Rooms Multi heating

AOYG36LBA5	Combination of Indoor Unit					HEATING OPERATION										Seasonal Data					
						Heating Capacity						Input Power (min-max)	COP								
						Room 1	Room 2	Room 3	Room 4	Room 5	Total Capacity (min-max)										
						kW	kW	kW	kW	kW	kW	kW	Pdesign kW	SCOP	Energy efficiency class						
5 Room	7	7	7	7	7	2.40	2.40	2.40	2.40	2.40	12.0 (3.5-14.0)	2.79 (0.7-3.82)	4.30	9.0	4.4	A+					
	7	7	7	7	9	2.27	2.27	2.27	2.27	2.92	12.0 (3.5-14.0)	2.79 (0.7-3.82)	4.30	9.0	4.4	A+					
	7	7	7	7	12	2.10	2.10	2.10	2.10	3.60	12.0 (3.5-14.0)	2.78 (0.7-3.82)	4.31	9.0	4.4	A+					
	7	7	7	7	14	2.00	2.00	2.00	2.00	4.00	12.0 (3.5-14.0)	2.78 (0.7-3.82)	4.32	9.0	4.4	A+					
	7	7	7	7	18	1.83	1.83	1.83	1.83	4.68	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+					
	7	7	7	7	24	1.62	1.62	1.62	1.62	5.52	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+					
	7	7	7	9	9	2.15	2.15	2.15	2.77	2.77	12.0 (3.5-14.0)	2.78 (0.7-3.82)	4.31	9.0	4.4	A+					
	7	7	7	9	12	2.00	2.00	2.00	2.57	3.43	12.0 (3.5-14.0)	2.78 (0.7-3.82)	4.32	9.0	4.4	A+					
	7	7	7	9	14	1.91	1.91	1.91	2.45	3.82	12.0 (3.5-14.0)	2.78 (0.7-3.82)	4.32	9.0	4.4	A+					
	7	7	7	9	18	1.75	1.75	1.75	2.25	4.50	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+					
	7	7	7	9	24	1.56	1.56	1.56	2.00	5.32	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+					
	7	7	7	12	12	1.87	1.87	1.87	3.20	3.20	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+					
	7	7	7	12	14	1.79	1.79	1.79	3.06	3.57	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+					
	7	7	7	12	18	1.65	1.65	1.65	2.82	4.23	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+					
	7	7	7	14	14	1.71	1.71	1.71	3.43	3.43	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+					
	7	7	7	14	18	1.58	1.58	1.58	3.17	4.09	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+					
	7	7	9	9	9	2.05	2.05	2.63	2.63	2.63	12.0 (3.5-14.0)	2.78 (0.7-3.82)	4.31	9.0	4.4	A+					
	7	7	9	9	12	1.91	1.91	2.45	2.45	3.28	12.0 (3.5-14.0)	2.78 (0.7-3.82)	4.32	9.0	4.4	A+					
	7	7	9	9	14	1.83	1.83	2.35	2.35	3.64	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+					
	7	7	9	9	18	1.68	1.68	2.16	2.16	4.32	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+					
	7	7	9	12	12	1.79	1.79	2.30	3.06	3.06	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+					
	7	7	9	12	14	1.71	1.71	2.20	2.94	3.44	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+					
	7	7	9	12	18	1.58	1.58	2.04	2.72	4.08	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+					
	7	7	9	14	14	1.65	1.65	2.12	3.29	3.29	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+					
	7	7	12	12	12	1.68	1.68	2.88	2.88	2.88	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+					
	7	7	12	12	14	1.62	1.62	2.77	2.77	3.22	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+					
	7	7	12	14	14	1.56	1.56	2.66	3.11	3.11	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+					
	7	9	9	9	9	1.96	2.51	2.51	2.51	2.51	12.0 (3.5-14.0)	2.78 (0.7-3.82)	4.32	9.0	4.4	A+					
	7	9	9	9	12	1.83	2.35	2.35	2.35	3.12	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+					
	7	9	9	9	14	1.75	2.25	2.25	2.25	3.50	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+					
	7	9	9	9	18	1.62	2.08	2.08	2.08	4.14	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+					
	7	9	9	12	12	1.72	2.20	2.20	2.94	2.94	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+					
	7	9	9	12	14	1.65	2.12	2.12	2.82	3.29	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+					
	7	9	9	14	14	1.58	2.04	2.04	3.17	3.17	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+					
	7	9	12	12	12	1.61	2.08	2.77	2.77	2.77	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+					
	7	9	12	12	14	1.56	2.00	2.67	2.67	3.10	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+					
	9	9	9	9	9	2.40	2.40	2.40	2.40	2.40	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+					
	9	9	9	9	12	2.25	2.25	2.25	2.25	3.00	12.0 (3.5-14.0)	2.77 (0.7-3.82)	4.33	9.0	4.4	A+					
	9	9	9	9	14	2.16	2.16	2.16	2.16	3.36	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+					
	9	9	9	9	18	2.00	2.00	2.00	2.00	4.00	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+					
	9	9	9	12	12	2.12	2.12	2.12	2.82	2.82	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.34	9.0	4.4	A+					
	9	9	9	12	14	2.04	2.04	2.04	2.72	3.16	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+					
	9	9	12	12	12	2.00	2.00	2.67	2.67	2.67	12.0 (3.5-14.0)	2.76 (0.7-3.82)	4.35	9.0	4.4	A+					

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



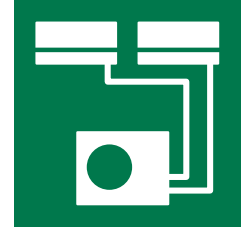
MULTI SPLIT

Multi Combination Table for 6 Rooms–Cooling/Heating

6 Rooms Multi cooling

AOYG45LBLA6	Combination of Indoor Unit						COOLING OPERATION							EER	
							Cooling Capacity					Total Capacity (min-max)	Input Power (min-max)		
							Room 1	Room 2	Room 3	Room 4	Room 5	Room 6			
6 Room							kW	kW	kW	kW	kW	kW	kW	3.61	
7	7	7	7	7	7	2.00	2.00	2.00	2.00	2.00	2.00	12.0 (3.5-13.4)			
7	7	7	7	7	9	2.00	2.00	2.00	2.00	2.00	2.50	12.5 (3.5-14.0)			
7	7	7	7	7	12	1.86	1.86	1.86	1.86	1.86	3.20	12.5 (3.5-14.0)			
7	7	7	7	7	14	1.79	1.79	1.79	1.79	1.79	3.55	12.5 (3.5-14.0)			
7	7	7	7	7	18	1.65	1.65	1.65	1.65	1.65	4.25	12.5 (3.5-14.0)			
7	7	7	7	7	24	1.48	1.48	1.48	1.48	1.48	5.10	12.5 (3.5-14.0)			
7	7	7	7	9	9	1.90	1.90	1.90	1.90	2.45	2.45	12.5 (3.5-14.0)			
7	7	7	7	9	12	1.79	1.79	1.79	1.79	2.29	3.05	12.5 (3.5-14.0)			
7	7	7	7	9	14	1.72	1.72	1.72	1.72	2.20	3.42	12.5 (3.5-14.0)			
7	7	7	7	9	18	1.59	1.59	1.59	1.59	2.05	4.09	12.5 (3.5-14.0)			
7	7	7	7	9	24	1.43	1.43	1.43	1.43	1.85	4.93	12.5 (3.5-14.0)			
7	7	7	7	12	12	1.68	1.68	1.68	1.68	2.89	2.89	12.5 (3.5-14.0)			
7	7	7	7	12	14	1.62	1.62	1.62	1.62	2.78	3.24	12.5 (3.5-14.0)			
7	7	7	7	12	18	1.51	1.51	1.51	1.51	2.59	3.87	12.5 (3.5-14.0)			
7	7	7	7	14	14	1.56	1.56	1.56	1.56	3.13	3.13	12.5 (3.5-14.0)			
7	7	7	7	14	18	1.46	1.46	1.46	1.46	2.92	3.74	12.5 (3.5-14.0)			
7	7	7	9	9	9	1.82	1.82	1.82	2.34	2.34	2.34	12.5 (3.5-14.0)			
7	7	7	9	9	12	1.72	1.72	1.72	2.21	2.21	2.92	12.5 (3.5-14.0)			
7	7	7	9	9	14	1.65	1.65	1.65	2.12	2.12	3.31	12.5 (3.5-14.0)			
7	7	7	9	9	18	1.54	1.54	1.54	1.97	1.97	3.94	12.5 (3.5-14.0)			
7	7	7	9	12	12	1.62	1.62	1.62	2.08	2.78	2.78	12.5 (3.5-14.0)			
7	7	7	9	12	14	1.56	1.56	1.56	2.01	2.68	3.13	12.5 (3.5-14.0)			
7	7	7	9	12	18	1.46	1.46	1.46	1.88	2.50	3.74	12.5 (3.5-14.0)			
7	7	7	9	14	14	1.51	1.51	1.51	1.93	3.02	3.02	12.5 (3.5-14.0)			
7	7	7	12	12	12	1.54	1.54	1.54	2.63	2.63	2.63	12.5 (3.5-14.0)			
7	7	7	12	12	14	1.48	1.48	1.48	2.54	2.54	2.98	12.5 (3.5-14.0)			
7	7	7	12	14	14	1.43	1.43	1.43	2.47	2.87	2.87	12.5 (3.5-14.0)			
7	7	9	9	9	9	1.75	1.75	2.25	2.25	2.25	2.25	12.5 (3.5-14.0)			
7	7	9	9	9	12	1.65	1.65	2.12	2.12	2.12	2.84	12.5 (3.5-14.0)			
7	7	9	9	9	14	1.59	1.59	2.05	2.05	2.05	3.17	12.5 (3.5-14.0)			
7	7	9	9	9	18	1.48	1.48	1.91	1.91	1.91	3.81	12.5 (3.5-14.0)			
7	7	9	9	12	12	1.56	1.56	2.01	2.01	2.68	2.68	12.5 (3.5-14.0)			
7	7	9	9	12	14	1.51	1.51	1.94	1.94	2.59	3.01	12.5 (3.5-14.0)			
7	7	9	9	12	18	1.41	1.41	1.81	1.81	2.42	3.64	12.5 (3.5-14.0)			
7	7	9	9	14	14	1.46	1.46	1.88	1.88	2.91	2.91	12.5 (3.5-14.0)			
7	7	9	12	12	12	1.48	1.48	1.92	2.54	2.54	2.54	12.5 (3.5-14.0)			
7	7	9	12	12	14	1.43	1.43	1.85	2.46	2.46	2.87	12.5 (3.5-14.0)			
7	7	12	12	12	12	1.41	1.41	2.42	2.42	2.42	2.42	12.5 (3.5-14.0)			
7	9	9	9	9	9	1.70	2.16	2.16	2.16	2.16	2.16	12.5 (3.5-14.0)			
7	9	9	9	9	12	1.59	2.05	2.05	2.05	2.05	2.71	12.5 (3.5-14.0)			
7	9	9	9	9	14	1.54	1.97	1.97	1.97	1.97	3.08	12.5 (3.5-14.0)			
7	9	9	9	12	12	1.50	1.94	1.94	1.94	2.59	2.59	12.5 (3.5-14.0)			
7	9	9	9	12	14	1.46	1.88	1.88	1.88	2.50	2.90	12.5 (3.5-14.0)			
7	9	9	12	12	12	1.44	1.84	1.84	2.46	2.46	2.46	12.5 (3.5-14.0)			
9	9	9	9	9	9	2.08	2.08	2.08	2.08	2.08	2.08	12.5 (3.5-14.0)			
9	9	9	9	9	12	1.97	1.97	1.97	1.97	1.97	2.65	12.5 (3.5-14.0)			
9	9	9	9	12	12	1.88	1.88	1.88	1.88	2.49	2.49	12.5 (3.5-14.0)			

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



6 Rooms Multi heating

AOYG45LBLA6	Combination of Indoor Unit						HEATING OPERATION							COP	
							Heating Capacity						Input Power (min-max)		
							Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Total Capacity (min-max)		
6 Room							kW	kW	kW	kW	kW	kW	kW		
	7	7	7	7	7	7	2.20	2.20	2.20	2.20	2.20	2.20	13.2 (3.5-15.3)	3.28 (0.7-4.20)	4.02
	7	7	7	7	7	9	2.15	2.15	2.15	2.15	2.15	2.15	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	7	12	2.01	2.01	2.01	2.01	2.01	3.45	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	7	14	1.93	1.93	1.93	1.93	1.93	3.85	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	7	18	1.78	1.78	1.78	1.78	1.78	4.60	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	7	24	1.60	1.60	1.60	1.60	1.60	5.50	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	9	9	2.05	2.05	2.05	2.05	2.65	2.65	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	9	12	1.93	1.93	1.93	1.93	2.48	3.30	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	9	14	1.85	1.85	1.85	1.85	2.38	3.72	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	9	18	1.72	1.72	1.72	1.72	2.21	4.41	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	9	24	1.55	1.55	1.55	1.55	1.99	5.31	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	12	12	1.82	1.82	1.82	1.82	3.11	3.11	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	12	14	1.75	1.75	1.75	1.75	3.00	3.50	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	12	18	1.63	1.63	1.63	1.63	2.79	4.19	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	14	14	1.69	1.69	1.69	1.69	3.37	3.37	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	7	14	18	1.58	1.58	1.58	1.58	3.15	4.03	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	9	9	9	1.97	1.97	1.97	2.53	2.53	2.53	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	9	9	12	1.85	1.85	1.85	2.38	2.38	3.19	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	9	9	14	1.78	1.78	1.78	2.29	2.29	3.58	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	9	9	18	1.66	1.66	1.66	2.13	2.13	4.26	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	9	12	12	1.75	1.75	1.75	2.25	3.00	3.00	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	9	12	14	1.69	1.69	1.69	2.17	2.89	3.37	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	9	12	18	1.58	1.58	1.58	2.03	2.70	4.03	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	9	14	14	1.63	1.63	1.63	2.09	3.26	3.26	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	12	12	12	1.66	1.66	1.66	2.84	2.84	2.84	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	12	12	14	1.60	1.60	1.60	2.75	2.75	3.20	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	7	12	14	14	1.55	1.55	1.55	2.65	3.10	3.10	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	9	9	9	1.89	1.89	2.43	2.43	2.43	2.43	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	9	9	12	1.78	1.78	2.29	2.29	2.29	3.07	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	9	9	14	1.72	1.72	2.21	2.21	2.21	3.43	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	9	9	18	1.60	1.60	2.06	2.06	2.06	4.12	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	9	12	12	1.69	1.69	2.17	2.17	2.89	2.89	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	9	12	14	1.63	1.63	2.09	2.09	2.79	3.27	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	9	12	18	1.52	1.52	1.96	1.96	2.61	3.93	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	9	14	14	1.58	1.58	2.03	2.03	3.14	3.14	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	12	12	12	1.60	1.60	2.05	2.75	2.75	2.75	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	9	12	12	14	1.55	1.55	1.99	2.66	2.66	3.09	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	7	12	12	12	12	1.53	1.53	2.61	2.61	2.61	2.61	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	9	9	9	9	9	1.80	2.34	2.34	2.34	2.34	2.34	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	9	9	9	9	12	1.72	2.21	2.21	2.21	2.21	2.94	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	9	9	9	9	14	1.66	2.13	2.13	2.13	2.13	3.32	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	9	9	9	12	12	1.65	2.09	2.09	2.09	2.79	2.79	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	9	9	9	12	14	1.58	2.03	2.03	2.03	2.69	3.14	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	7	9	9	12	12	12	1.54	1.99	1.99	2.66	2.66	2.66	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	9	9	9	9	9	9	2.25	2.25	2.25	2.25	2.25	2.25	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	9	9	9	9	9	12	2.13	2.13	2.13	2.13	2.13	2.85	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00
	9	9	9	9	12	12	2.03	2.03	2.03	2.03	2.69	2.69	13.5 (3.5-16.0)	3.37 (0.7-4.41)	4.00

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



COMMERCIAL SIMULTANEOUS MULTI SYSTEMS





PRODUCT LINEUP

Type	BTU			
	36	54	72	90
Twin/Triple Single phase Page 098	 AOYG36LBTB	 AOYG54LBTB		
Twin/Triple 3 phase Page 098	 AOYG36LATT	 AOYG54LATT		



SIMULTANEOUS MULTI

098 SIMULTANEOUS MULTI Twin/Triple

Simultaneous Multi Twin/Triple Split

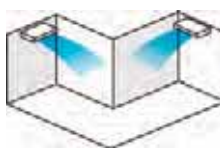


Features

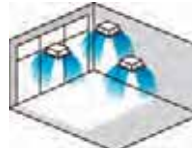
Can support various installation types from office to commercial spaces by multi connection of up to 3 units in the same location.

Indoor units distributed layout according to the shape and number of people and lighting conditions of the room. Ideal comfortable air flow distribution can be achieved.

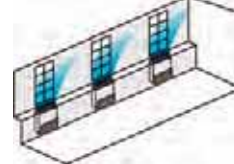
Installation according to floor layout



Installation according to lighting conditions

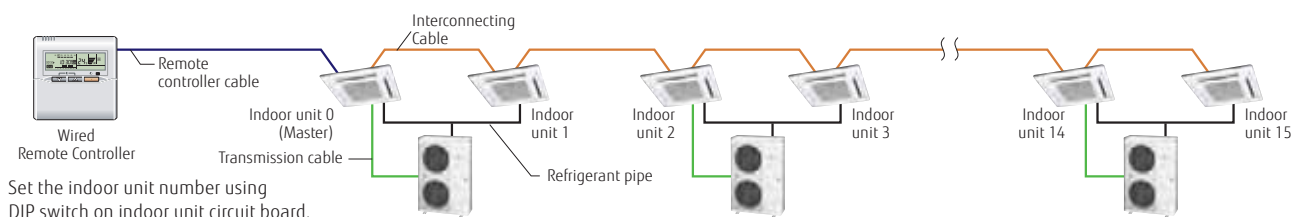


Installation according to layout and lighting conditions



Simultaneous control

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



Simultaneous Operation Multi type Indoor Unit Line up

	Twin		Triple	
	18x2	24x2	18x3	
Cassette	AUYG18LV x2 	AUYG24LV x2 	AUYG18LV x3 	
Duct	ARYG18LL x2 	ARYG24LL x2 	ARYG18LL x3 	
Ceiling	ABYG18LV x2 	ABYG24LV x2 	ABYG18LV x3 	
Outdoor unit	AOYG36LBTB / AOYG36LATT 	AOYG54LBTB / AOYG54LATT 		



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



Specifications

Model No.		Indoor unit		Compact Cassette					
				AUYG18LVLB		AUYG24LVLA			
Power Source				Single-phase, ~230V, 50Hz					
Airflow Rate (High)		Cooling	H/M/L/Q	m³/h	680/580/490/410		930/830/600/450		
Net Dimension H × W × D				mm	245×570×570		245×570×570		
Weight				kg	15		16		
Cassette Grille				UTG-UFYD-W				UTG-UFYD-W	
List Price				£	831		984		

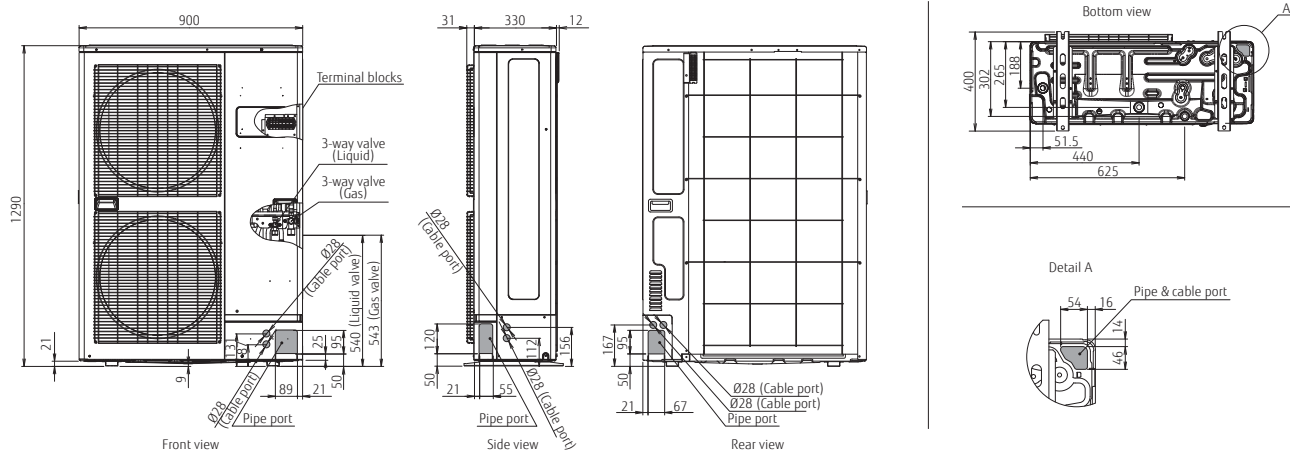
Model No.		Indoor unit		Duct		Floor/Ceiling Universal							
				ARYG18LLTB		ARYG24LMLA		ABYG18LVTB		ABYG24LVTA			
Power Source				Single-phase, ~230V, 50Hz				Single-phase, ~230V, 50Hz					
Airflow Rate (High)		Cooling	H/M/L/Q	m³/h	1100/910/750/580		1100/910/750/580		780/700/560/500		980/820/680/540		
Net Dimension H × W × D				mm	270 × 1135 × 700		270 × 1135 × 700		199 × 990 × 655		199 × 990 × 655		
Weight				kg	38		38		27		27		
Flange (Round) (To be ordered seperately)				-				UTDRF204		-			
Filter (To be ordered seperately)				-				UTDLF25NA		-			
List Price				£	774		1084		687		823		

Model No.		Outdoor unit		AOYG36LBTB		AOYG54LBTB		AOYG36LATT		AOYG54LATT		
				Capacity		Capacity		Capacity		Capacity		
Capacity		Cooling		kW	10.0		13.3		10.0		14.0	
		Heating			11.2		15.0		11.2		16.0	
Power Source				Single-phase, ~230V, 50Hz				3-phase, ~400V, 50Hz				
Pdesign		Cooling		kW	10.0		-		10.0		-	
		Heating (-10°C)			10.0		-		10.0		-	
SEER		Cooling		W/W	5.56		-		6.00		-	
SCOP		Heating			3.90		-		4.00		-	
Annual Energy Consumption		Cooling		kWh/a	629		-		583		-	
		Heating			3588		-		3499		-	
Energy Efficiency Class		Cooling		A		-		A+		-		
		Heating		A		-		A+		-		
Sound Pressure Level (High)		Cooling		dB(A)	52		55		51		55	
Sound Power Level (High)		Heating			69		72		69		71	
Net Dimension H × W × D			mm		1290×900×330		1290×900×330		1290×900×330		1290×900×330	
Weight			kg		93		93		104		104	
Connection Pipe Diameter (Liquid / Gas)			Inch		3/8 & 5/8		3/8 & 5/8		3/8 & 5/8		3/8 & 5/8	
Max Pipe Length (Pre-Charge)			m		75(30)		75(30)		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	
		Heating			-15 to 24		-15 to 24		-15 to 24		-15 to 24	
Refrigerant		Type		R410A		R410A		R410A		R410A		
		Charge		g		3,450		3,450		3,450		
List Price			£		1439		1878		1502		1941	
Separation tube				UTPSX236A(Twin)		UTPSX254A(Twin)/ UTPSX354A(Triple)		UTPSX236A(Twin)		UTPSX254A (Twin) / UTPSX354A (Triple)		
List Price			£		72		72 / 97		72		72 / 97	

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

Dimensions

(Unit : mm)



SPLIT & MULTI SPLIT CONTROLS SYSTEM & OPTIONS

- 102 External Input and Output Table
- 103 Auto Louvre Grille Kit
- 104 Optional Parts List / Function List
For Wall Mounts and Floor Mount Units
- 106 Optional Parts List / Function List
For Cassettes, Ducted and Floor/Ceiling Units
- 108 Optional Parts List

INDIVIDUAL CONTROL

- 110 Wired Remote Controller (Touch Panel)
- 111 Wired Remote Controller
- 112 Simple Remote Controller
- 113 Central Remote Controller for 5-6 Rooms Multi
- 114 MODBUS® Converter
MODBUS® Interface
- 115 KNX® Converter
KNX® Interface
- 116 Wireless LAN Interface





SPLIT
For Light Commercial



SPLIT
For Residential



SIMULTANEOUS MULTI
For Light Commercial



MULTI SPLIT
For Residential

External Input and Output Table



External Control	Input			Output					BMS/Home Automation *C		
	Start / Stop	Peak Cut	Low Noise	Op Status	Error Status	Fresh Air	Aux Heater	Base Heater	KNX	Modbus	Home Controller
WALL MOUNT											
Compact											
Compact											
ASYG09-12LTCA*1	2			2	2				8*A	9*A	10*A
ASYG07-14LUCA*1	2			2	2				8*A	9*A	10*A
ASYG07-14LMCE*	2			2	2				8*A	9*A	10*A
Large											
ASYG18LFCA	1			1/11*A	11*A				8*A	9*A	10*A
ASYG24LFCC	1			1/11*A	11*A				8*A	9*A	10*A
ASYG30-36LMTA*3	1			1	1				8*B	9*B	10*B
DUCT											
Slim											
ARYG07-14LLTA	3			3/11	11	3	3		8	9	10
ARYG12-18LLTB	3			3/11	11	3	3		8	9	10
Bulkhead											
ARYG12-18SLAP	PCB Terminal			7	7		7		8	9	10
Medium Static											
ARYG12-54LHTBP*4	7			7	7		7		8	9	10
ARYG24-45LMLA	3			3/11	11	3			8	9	10
ARYG30-36LMLE	3			3/11	11	3			8	9	10
High Static											
ARYG45-60LHTA	3			3/11	11	3	3		8	9	10
ARYC72-90LHTA	3			3/11	11	3	3		8	9	10
ARYG72-90LHTA	PCB Terminal			7	7		7		8	9	10
CASSETTE											
Compact											
AUYG07-09LVLA	1			1/11	11	3/*C			8	9	10
AUYG12-18LVLB	1			1/11	11	3/*C			8	9	10
AUYG24LVLA	1			1/11	11	3/*C			8	9	10
Circular Flow											
AUXG18-54LRLE*4	7			7	7		7		8	9	10
4 Way Flow											
AUYG30-36LRLE	1			1/11	11	3/*D			8	9	10
FLOOR											
AGYG09-14LVCA	1			1/11	11				8	9	10
FLOOR/CEILING											
ABYG14LVTA	1			1/11	11				8	9	10
ABYG18LVTB	1			1/11	11				8	9	10
ABYG24LVTA	1			1/11	11				8	9	10
CEILING											
ABYG30-36LRTE	1			1/11	11	3			8	9	10
ABYG36-54LRTA	1			1/11	11	3			8	9	10
SINGLE PHASE OUTDOOR											
Split											
AOYG45-54LETL		5	5	5	5						
Multi											
AOYG36-54LBTB		5	5	5	5						
3 PHASE OUTDOOR											
Split											
AOYG36-60LATT		4	4	4	4			6			
AOYA72-90LALT		4	4	4	4						
Multi											
AOYG36-54LATT		4	4	4	4						

*1 UTY-TWBXF Communication Kit required

*2 UTY-XCBXZ2 Communication Kit required

*3 UTY-XCSXZ1 Required for more than 1 input or output

*4 UTY-XCSX Required for more than 1 input or output

*A Part 9705932012 required

*B UTY-XWNX also required

*C Cable included with UTZ-VXAA

*D Cable included with UTZ-VXGA

Wired Remote Connector £15
9705932012



For use with all AS and AG mode Is when using Intesis range and Network converter BMS options and Wired remotes.

Communication system For SPLIT/MULTI SPLIT

External Connect Kit		External Control Set		External Connect Kit	
For Indoor Unit 1=UTYXWZX £9	For Indoor Unit 2=UTYXWZXZ5 £9	For Indoor Unit 3=UTDECSA £14		For Outdoor unit 4=UTYXWZXZ2 £19	For Outdoor unit 5=UTYXWZXZ3 £9
					6=UTYXWZXZ4 £9
External Connect Kit	KNX Interface	Modbus Interface	Home Controller	Error Output Adaptor	
For Outdoor unit 7=UTYXWZXZG £8	8=FJRCNX1i £265	9=FJRCMB51 £234	10=FJRCWIF1 £234	11=UTIERRW £114	
				9705932012 For use with all AS and AG models when using Intesis range and Network converter BMS options	

Auto Louvre Grille Kit



UTD-GXSA-W / UTD-GXSB-W / UTD-GXSC-W



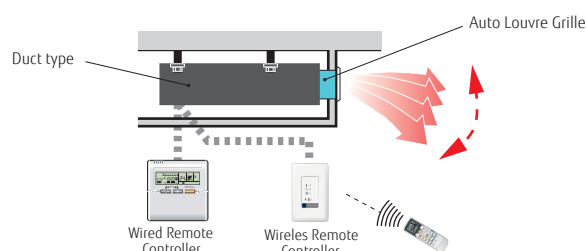
Features

Simple flat Auto Louvre will provide comfortable airflow for luxury space.

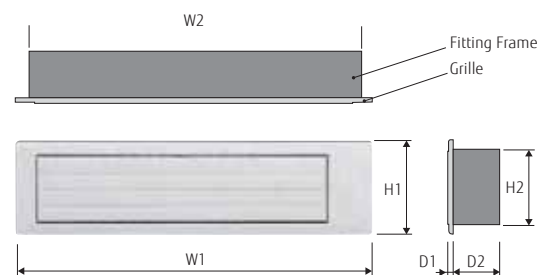


Flexible Control

- **Operation with indoor unit**
Auto Louvre can be operated by synchronising the remote controller of indoor unit.
- **UP and Down auto swing**
 - Auto airflow direction and auto swing
 - 4 steps selectable
- **Auto-closing louvre**
When the operation of the indoor unit has stopped, the louvre will automatically close.



Dimensions



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

Specifications

Model name			UTD-GXSA-W	UTD-GXSB-W	UTD-GXSC-W
Applicable Indoor Unit			ARYG07/09LLTA ARYG12/14LLTB ARYG12/14SLAP ARXK07/09/12GCLH (For VRF) ARXD04/07/09/12/14GALH (For VRF)	ARYG18LLTB ARYG18SLAP ARXD18GALH (For VRF)	ARXD24GALH (For VRF)
Power Supply			Connecting with Control box of indoor unit		
Fixing of Auto Louvre Grille			Screw fixing to Flange or Square Duct		
Extension Square Duct Limit			1.0m (Max. duct length between indoor unit and Grille)		
Net Dimension (H × W × D)		mm (inch)	180×683×(84+9) [7-3/32×26-7/8×(3-5/16+11/32)]	180×883×(84+9) [7-3/32×34-3/4×(3-5/16+11/32)]	180×1083×(84+9) [7-3/32×42-5/8×(3-5/16+11/32)]
Weight	Net	kg (lb.)	2.0 (4.4)	2.5 (5.6)	3.0 (6.7)
	Gross		3.0 (6.7)	3.5 (7.8)	4.0 (8.9)
Colour			White		
Louvre Motor			Stepping Motor		
Accessories			Fitting Frame, etc.		
Operation range	Cooling	°C (°F)	18 to 32 (64 to 90)		
		% RH	80% or less		
	Heating	°C (°F)	16 to 30 (60 to 88)		
List Price		£	135	151	187

OPTIONAL PARTS

SPLIT/MULTI SPLIT Optional Parts List/Function List

Wall Mounts & Floor Mount Units

Controllers/Others

Type			Indoor unit								Outdoor unit	
			Wall Mounted							Floor	Single Phase	
			Flagship Range	Designer Range			Standard Range				ECO Range	5-6 Rooms Multi
				ASYG09/12 KXCA	ASYG07/09/12/14KGCA	ASYG09/12 LTCA	ASYG07/09/12/14LUCA	ASYG07/09/12/14LMCE	ASYG18LFCA, ASYG24LFCC	ASYG30/36 LMTA		
Controllers	Wired Remote Controller			● UTY-RNRYZ1					● UTY-RNRYZ2+ UTY-TWRX			
				● UTY-RLRY					● UTY-RLRY+ UTY-TWRX			
					● UTY-RVNYM		● UTY-RVNYM		● UTY-RVNYM+ UTY-XWNX		● UTY-RVNYM	
	Simple Remote Controller			● UTY-RSNYM	● UTY-RSNYM	● UTY-RSNYM	● UTY-RSNYM	● UTY-RSNYM	● UTY-RSNYM+ UTY-XWNX		● UTY-RSNYM	
	Central Remote Controller											● UTY-DMMYM

Interface

Type			Indoor unit								
			Wall Mounted							Floor	
			Flagship Range	Designer Range			Standard Range				ECO Range
			ASYG09/12 KXCA	ASYG07/09/12/ 14KGCA	ASYG09/12 LTCA	ASYG07/09/12/ 14LUCA	ASYG07/09/12/ 14LMCE	ASYG18LFCA, ASYG24LFCC	ASYG30/36 LMTA	ASYG09/12 LLCE	AGYG09/12/14 LVCA
Interface	Wireless LAN Interface				● UTY-TFNXZ1	● UTY-TFNXZ1	● UTY-TFNXZ1	● UTY-TFNXZ1			● UTY-TFNXZ1
					● FJ-RC-WIFI-1	● FJ-RC-WIFI-1	● FJ-RC-WIFI-1	● FJ-RC-WIFI-1			● FJ-RC-WIFI-1
	KNX Converter								● UTY-VKSX		
	KNX Interface				● FJ-RC-KNX-1i	● FJ-RC-KNX-1i	● FJ-RC-KNX-1i	● FJ-RC-KNX-1i			● FJ-RC-KNX-1i
	MODBUS Converter			● UTY-VMX					● UTY-VMSX		
	MODBUS Interface				● FJ-RC-MBS-1	● FJ-RC-MBS-1		● FJ-RC-MBS-1			● FJ-RC-MBS-1
	External Switch Controller			● UTY-TERX							



External Input and Output Function/External Connect Kit/Communication Kit

Type	Indoor unit								
	Wall Mounted								Floor
	Flagship Range	Designer Range			Standard Range			ECO Range	
	ASYG09/12 KXCA	ASYG07/09/12/ 14KGCA	ASYG09/12 LTCA	ASYG07/09/12/ 14LUCA	ASYG07/09/12/ 14LMCE	ASYG18LFCA, ASYG24LFCC	ASYG30/36 LMIA	ASYG09/12 LLCE	AGYG09/12/14 LVCA
Input	Operation / Stop	● UTY-XWZXZ5+ UTY- TWBXF	● UTY-XWZXZ5+ UTY- TWBXF	● UTY-XWZXZ5+ UTY- TWBXF	● UTY-XWZXZ5+ UTY-XCBXZ2	● UTY-XWZX	● UTY-XWZX or ● UTY-XWZX + UTYXCSXZ1 + UTZ-GXXB		● UTY-XWZX
	Forced Stop	● UTY-XWZXZ5+ UTY- TWBX	● UTY-XWZXZ5+ UTY- TWBX	● UTY-XWZXZ5+ UTY- TWBXF	● UTY-XWZXZ5+ UTY-XCBXZ2	● UTY-XWZX	● UTY-XWZX or ● UTY-XWZX + UTYXCSXZ1 + UTZ-GXXB		● UTY-XWZX
	Forced Thermostat off						● UTY-XWZX + UTYXCSXZ1 + UTZ-GXXB		
	Emergency Stop								
	Low Noise Mode Operation								
	Cooling / Heating Priority								
	Outdoor Unit Operation Peak Control								
Output	Operation Status	● UTY-XWZXZ5+ UTY- TWBXF	○ UTY-XWZXZ5+ UTY- TWBXF	○ UTY-XWZXZ5+ UTY- TWBXF	○ UTY-XWZXZ5+ UTY-XCBXZ2	○ UTY-XWZX	● UTY-XWZX or ○ UTY-XWZX + UTYXCSXZ1 + UTZ-GXXB		○ UTY-XWZX
	Error Status	● UTY-XWZXZ5+ UTY- TWBXF	○ UTY-XWZXZ5+ UTY- TWBXF	○ UTY-XWZXZ5+ UTY- TWBXF	○ UTY-XWZXZ5+ UTY-XCBXZ2		● UTY-XWZX or ○ UTY-XWZX + UTYXCSXZ1 + UTZ-GXXB		
	Indoor Unit Fan Operation Status						● UTY-XWZX or ○ UTY-XWZX + UTYXCSXZ1 + UTZ-GXXB		
	Set point attainment status						● UTY-XWZX		
	Auxiliary Heater Output								
	Base Heater								

●: Dry Contact ○: Apply Voltage



Linwood now offer an extensive range of plenum boxes to suit the Fujitsu General Air Conditioning UK range of ducted air conditioning indoor units

Installing air conditioning ducted fan coil units (FCU's) just got easier with these purpose made plenum boxes designed to save you time and money when fitting VRF or split air conditioning systems

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Email: Sales@linwoodplenums.co.uk
Tel: 0113 868 0410 Mob: 07946 344 474



OPTIONAL PARTS

SPLIT/MULTI SPLIT Optional Parts List/Function List

Cassette, Duct & Floor/Ceiling Units

Controllers/Others

Type			Indoor unit											
			Cassette			Duct							Floor/Ceiling	Ceiling
			4-way Flow Compact	Circular Flow	4-way Flow	Mini	Slim	Medium Static Pressure	Medium Static Pressure	High Static Pressure		Big		
			AUYG12/14/18LVLB, AUYG24LVLA	AUXG18/24/30/36/45/54 LRLB	AUYG30/36 LRLÉ, AUYG36/45/54 LRLA	ARYG12/14/18 LSLAP	ARYG12/14/18 LLTB	ARYG12/14/18/24/30/36/45/54LHTBP	ARYG24/36/45 LMLA, ARYG30/36 LMLE	ARYG45/54/60 LHTA	ARYC72/90 LHTA	ARYG72/90 LHTA	ABYG18LVTB, ABYG24LVTA	ABYG30/36 LRTE, ABYG36/45/54 LRTA
Controllers	Wired Remote Controller			● UTY-RNRYZ1		● UTY-RNRYZ1		● UTY-RNRYZ1				● UTY-RNRYZ1		
				● UTY-RLRY		● UTY-RLRY		● UTY-RLRY				● UTY-RLRY		
			● UTY-RVNYM											
Others	Simple Remote Controller		● UTY-RSNYM	● UTY-RSRY, UTY-RSNYM	● UTY-RSNYM	● UTY-RSRY, UTY-RSNYM	● UTY-RSNYM	● UTY-RSRY, UTY-RSNYM	● UTY-RSNYM			● UTY-RSRY, UTY-RSNYM	● UTY-RSNYM	
	IR Receiver Kit with Wireless Remote Controller	 For Duct For Cassette			● UTY-LRHYA2		● UTY-LRHYM		● UTY-LRHYM	● UTY-LRHYM (60 only)		● UTY-LRHYM	● UTY-LRHYM	
		 For Duct For Cassette		● UTY-LBTYC		● UTY-LBTYM		● UTY-LBTYM				● UTY-LBTYM		
	Human Sensor Kit			● UTY-SHZXC										
	Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.				● UTY-XSZX								
	Cassette Grille	 UTG-UKYA-W UTG-UKYC-W		● UTG-UKYA-W UTG-UKYC-W										
	Auto Louvre Grille Kit					● UTD-GXSA-W (12/14) UTD-GXSB-W (18)								
	Long Life Filter							● UTD-LFNA UTD-LFNB UTD-LFNC	● UTD-LF25NA	● UTD-LF60KA (45/54)		● UTD-LFNA		
	Flange								● UTD-SF045T UTD-RF204					● UTD-RF204
	Drain Pump Unit								● UTZ-PX1NBA			● UTZ-PX1NAB		● UTR-DPB24T
	Fresh Air Intake Kit	 For Compact Cassette	● UTZ-VXAA	● UTZ-VXRA	● UTZ-VXGA									



Interface

Type			Indoor unit											
			Cassette			Duct							Floor/Ceiling	Ceiling
			4-way Flow Compact	Circular Flow	4-way Flow	Mini	Slim	Medium Static Pressure	Medium Static Pressure	High Static Pressure		Big		
			AUYG 12/14/18/LVLB, AUYG24/LVLA	AUXG18/24/30/36/45/54 LRLB	AUYG30/36 LRL, AUYG36/45/54 LRLA	ARYG12/14/18 LSLAP	ARYG12/14/18 LLTB	ARYG12/14/18/24/30/36/45/54LHTBP	ARYG24/36/45 LMLA, ARYG30/36 LMLE	ARYG45/54/60 LHTA	ARYC72/90 LHTA	ARYG72/90 LHTA	ABYG18/LVTB, ABYG24/LVTA	ABYG30/36 LRT, ABYG36/45/54 LRTA
Interface	Wireless LAN Interface		● UTZ-TFNXZ1			● UTZ-TFSXZ1	● UTZ-TFNXZ1					● UTZ-TFSXZ1	● UTZ-TFNXZ1	
			● FJ-RC-WIFI-1		● FJ-RC-WIFI-1		● FJ-RC-WIFI-1	● FJ-RC-WIFI-1					● FJ-RC-WIFI-1	
	KNX Converter		● UTY-VKSX			● UTY-VKSX		● UTY-VKSX				● UTY-VKSX		
	KNX Interface		● FJ-RC-KNX-1i		● FJ-RC-KNX-1i		● FJ-RC-KNX-1i	● FJ-RC-KNX-1i					● FJ-RC-KNX-1i	
	MODBUS Converter		● UTY-VMSX			● UTY-VMSX		● UTY-VMSX				● UTY-VMSX		
	MODBUS Interface		● FJ-RC-MBS-1		● FJ-RC-MBS-1		● FJ-RC-MBS-1	● FJ-RC-MBS-1					● FJ-RC-MBS-1	

External Input and Output Function/External Connect Kit/Communication Kit

Type		Indoor unit											Outdoor unit			
		Cassette			Duct							Floor/Ceiling	Ceiling	Simultaneous Multi		
		4-way Compact	Circular Flow	4-way	Mini	Slim	Medium Static Pressure	High Static Pressure		Big						
		AUYG 12/14/18LVLB, AUYG24LVLB	AUXG 18/24/30/36/45/54 LRLB	AUYG30/36/LRLE, AUYG36/45/54 LRLA	ARYG 12/14/18 LSLAP	ARYG 12/14/18 LLTB	ARYG12/14/18/24/30/36/45/54LHTBP	ARYG24/36/45 LMLA, ARYG36LMLE	ARYG45/54/60 LHTA	ARYC72/90 LHTA	ARYG72/90 LHTA	ABYG18LVTB, ABYG24LVTB	ABYG30/36 LRTE, ABYG36/45/54 LRTA	AOYG36 LBTB	AOYG36/54 LATT	
Function	Input	Operation/Stop	● UTY-XWZX	● PCB Terminal	● UTY-XWZX	● PCB Terminal	● UTD-ECSSA	● PCB Terminal	● UTD-ECSSA	● UTD-ECSSA	● UTD-ECSSA	● PCB Terminal	● UTY-XWZX	● UTY-XWZX		
		Forced Stop	● UTY-XWZX	● PCB Terminal	● UTY-XWZX	● PCB Terminal	● UTD-ECSSA	● PCB Terminal	● UTD-ECSSA	● UTD-ECSSA	● UTD-ECSSA	● PCB Terminal	● UTY-XWZX	● UTY-XWZX		
		Forced Thermostat off		● UTY-XCSX				● UTY-XCSX		● UTD-ECSSA	● UTD-ECSSA	● UTY-XCSX				
		Low Noise Mode Operation													● UTY-XWZXZ3	● UTY-XWZXZ3
		Outdoor Unit Operation Peak Control													● UTY-XWZXZ3	● UTY-XWZXZ3
	Output	Operation Status	○ UTY-XWZX	● UTY-XWZXZG or ○UTY-XCSX + UTZ-GXRA	○ UTY-XWZX	● UTY-XWZXZG	○ UTD-ECSSA	● UTY-XWZXZG or ○UTY-XCSX + UTZ-GXRA	○ UTD-ECSSA	○ UTD-ECSSA	○ UTD-ECSSA	● UTY-XWZXZG or UTY-XCSX	○ UTY-XWZX	○ UTY-XWZX		
		Error Status		● UTY-XWZXZG or ○UTY-XCSX + UTZ-GXRA				● UTY-XWZXZG or ○UTY-XCSX + UTZ-GXRA							● UTY-XWZXZ3	● UTY-XWZXZ2
		Indoor Unit Fan Operation Status	● UTY-VXAA ¹	● UTY-XWZXZG or ○UTY-XCSX + UTZ-GXRA	● UTY-VXGA ¹	● UTY-XWZXZG	● UTD-ECSSA	● UTY-XWZXZG or ○UTY-XCSX + UTZ-GXRA	○ UTD-ECSSA	○ UTD-ECSSA		● UTY-XWZXZG or UTY-XCSX		● UTD-ECSSA		
		Auxiliary Heater Output		● UTY-XWZXZG or ○UTY-XCSX + UTZ-GXRA		● UTY-XWZXZG	● UTD-ECSSA	● UTY-XWZXZG or ○UTY-XCSX + UTZ-GXRA	● UTD-ECSSA	● UTD-ECSSA	● UTD-ECSSA	● UTY-XWZXZG or UTY-XCSX				
		Base Heater													● UTY-XWZXZ3	● UTY-XWZXZ2

*1: This wire is included in Fresh air intake kit (UTZ-VXAA or UTZ-VXGA)

●: Dry Contact ○: Apply Voltage

OPTIONAL PARTS

SPLIT/MULTI SPLIT Optional Parts

Controllers

For Individual & Centralised Control

Wired Remote Controller UTY-RNRYZ1 / Z2 £161 	Wired Remote Controller UTY-RVNYM £104 	Simple Remote Controller UTY-RSNYM £83 UTY-RSRY £120 NEW  	Central Remote Controller UTY-DMMYM £468 For 5-6 Rooms Multi 
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Communication devices

Interface

Wi-Fi Interface Future Release UTY-TFNXZ1 £143 NEW 	Wi-Fi Interface FJ-RC-WIFI-1 £234 	MODBUS® Converter UTY-VMSX £234 	MODBUS® Interface FJ-RC-MBS-1 £234 
KNX® Interface FJ-RC-KNX-1i £265 	KNX® Converter UTY-VKSX £267 NEW 	Wired Remote Connector 9705932012 £15  For use with all AS and AG models when using Intesis range and Network converter BMS options and Wired remotes.	Communication Kit UTY-TWBXF £90 UTY-XCBXZ2 £90 For Wall Mounted type 

Others

For Duct type

IR Receiver Kit UTY-LRHYM £262 	IR Receiver Kit UTY-LBTYM £266 	Remote Sensor Unit UTY-XSZX £56 New amenity space can be offered by installing the Remote sensor. 	Auto Louvre Grille Kit UTD-GXSAW £135 UTD-GXSBW £151 
Long Life Filter UTD-LF25NA £95 UTD-LFNA/UTD-LFNB £61/61 UTD-LFNC/UTDLF60KA £61/95 	Flange UTD-RF204 (Round) £31 UTD-SF045T (Square) £42   (Round) (Square)	Drain Pump Unit UTZ-PX1NBA £62 For Medium Static Pressure Duct 	



For SPLIT/MULTI SPLIT/SIMULTANEOUS MULTI

Seperation Tube

UTP-SX236A / UTP-SX254A £72/72
For 3-phase simultaneous multi



UTP-SX354A £97
For 3-phase simultaneous multi



For Cassette type

IR Receiver Kit
UTY-LRHYA2 £76



IR Receiver Kit
UTY-LBTYC £98



Human Sensor Kit
UTY-SHZXC £61



Fresh Air Intake Kit
UTZ-VXAA £291
For Compact Cassette



Fresh Air Intake Kit
UTZ-VXRA / UTZ-VXGA £364 / £364
For Cassette



Comtest
COMTEST £40



For SPLIT/MULTI SPLIT/SIMULTANEOUS MULTI

External input and output PCB

UTY-XCSXZ1 £85

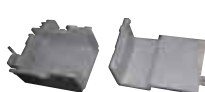


UTY-XCSX £85



External input and output PCB Box

UTZ-GXXB £28



UTZ-GXRA £53



External input and output PCB Bracket

UTZ-GXNA £28



For Wall Mounted type

Remote controller holder
UTZ-RXLA £8
For ASYG09/12LLCE



For Ceiling type

Drain Pump Unit
UTR-DPB24T £47



Service and Maintenance

Service Monitoring Tool
UTY-ASSX £239



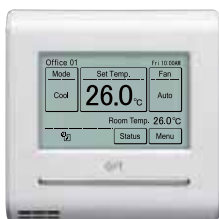
Heat Sink Pack
HSPACK01 £POA



Wired Remote Controller (Touch Panel)


UTY-RNRYZ1 / Z2 (Future Release)

Refer to pages 102-107 for compatibility



Features

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

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

 Max. Controllable
16 indoor units

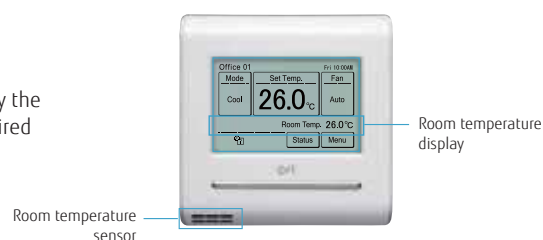
High performance and compact size

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



Accurate and comfortable control functions

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

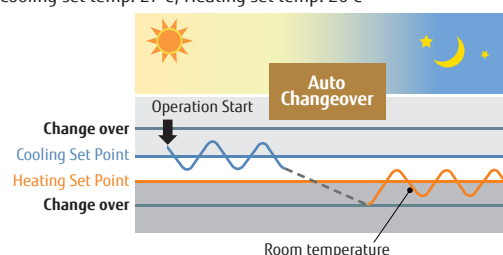


Various energy saving control

Custom Auto

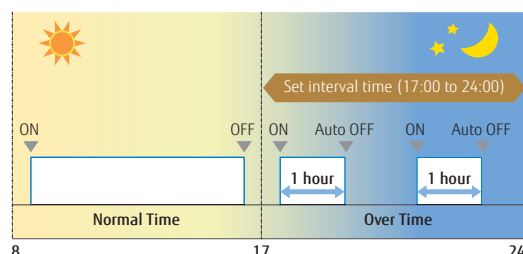
- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.

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



Auto OFF timer

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



2 schedules Weekly Timer

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

Specifications

Model name		UTY-RNRYZ1 / Z2
Power Source		DC 12 V
Dimensions (H × W × D) (mm)		120 × 120 × 20.4
Weight (g)		220
List Price	£	161

DC12 V is supplied by the indoor unit.

Wired Remote Controller



UTY-RVNYM

Refer to pages 102-107 for compatibility



Features

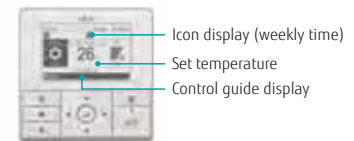
Hi-grade individual control using various functions.

- 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)

Max. Controllable
16 indoor units

High visibility and Easy operation

- Icon display of functions.
- Main functions in large icons: "Mode", "Set Temp", and "Fan".
- Easy to operate by Control guide display.
- Simple operation with easy 4-way navigation pad.



High performance and compact size

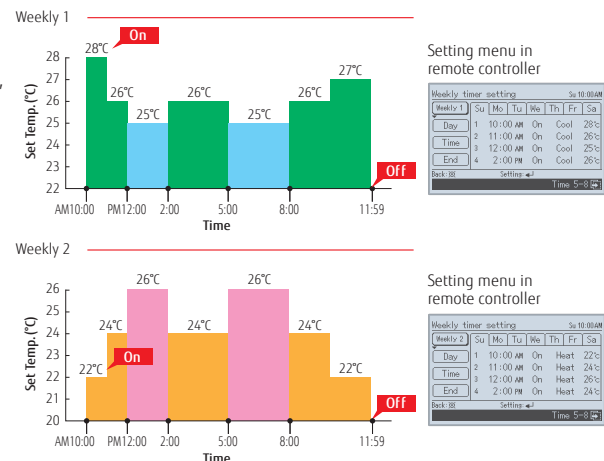
- In addition to the individual control, various energy saving controls can be accessed using only one remote controller.



Various energy saving control functions

Weekly Timer function

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



Auto OFF Timer

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

Specifications

Model name	UTY-RVNYM	
Power Source	DC 12 V	
Dimensions (H × W × D) (mm)	120 × 120 × 21.3	
Weight (g)	220	
List Price	£	104

DC12 V is supplied by the indoor unit.

Simple Remote Controller for SPLIT & MULTI SPLIT



UTY-RSRYM

Refer to pages 102-107 for compatibility



Features

Compact remote controller provides access to basic functions

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

Max. Controllable
16 indoor units

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 remote control unit.
- Following an error display, diagnostics can be carried out on the controller.

Specifications

Model name		UTY-RSRYM
Power Source		DC 12 V
Dimensions (H × W × D) (mm)		120 × 75 × 19.4
Weight (g)		120
List Price	£	83

DC12 V is supplied by the indoor unit.

NEW

Simple Remote Controller



UTY-RSRY

Refer to pages 102-107 for compatibility



Features

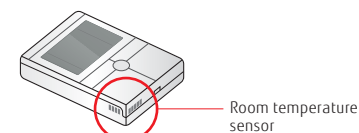
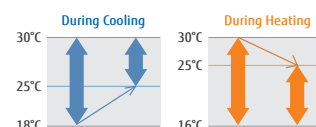
Compact remote controller provides access to basic functions

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

Max. Controllable
16 indoor units

Corresponding to various applications

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



Room temperature sensor

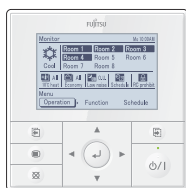
Model name		UTY-RSRY
Power Source		DC 12 V
Dimensions (H × W × D) (mm)		120 × 75 × 19.4
Weight (g)		120
List Price	£	120

DC12 V is supplied by the indoor unit.

Central Remote Controller for 5-6 Rooms Multi only



UTY-DMMYM



Max. Controllable
1 multi system

Max. Controllable
6 indoor units

Features

- Batched control of up to 6 indoor units. The temperature, airflow volume, and remote control prohibition settings of all indoor units can be batched.
- Corresponds to 9 different languages (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)
- Large backlight LED screen
- Large easy-to-see operation panel

System configuration



Central Remote Controller Functions

Weekly schedule timer

The ON/OFF setting can be set for 4 times a day. Two weekly patterns can be set to match the cooling and heating seasons.

Low noise operation

Users can choose from 4 low noise levels, depending on the installation environment. The operation time can be set using the timer.

10°C heat operation

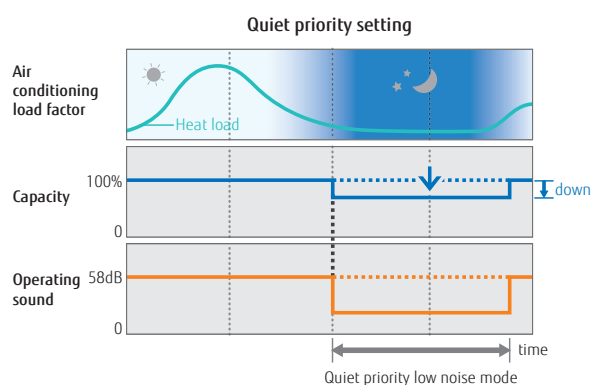
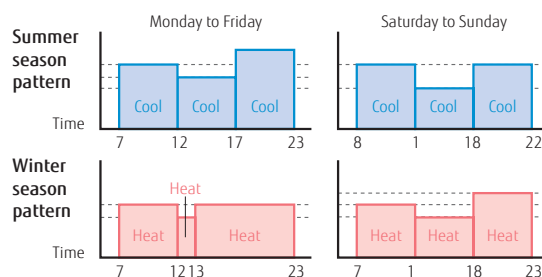
When you leave, minimum heating operation is performed to maintain the room temperature (maintain at 10°C).

Economy operation

Economy operation is energy saving, as the set temperature of indoor unit is shifted by 1°C and the maximum electric value of the outdoor unit is suppressed.

Prohibited Settings

The remote controller operation of all indoor units comes with a lock function to prevent unapproved operations in the various rooms. The central remote controller also has a key lock function to prevent children from playing with it, etc



Specifications

Model name		UTY-DMMYM
Power Source		DC 12 V
Dimensions (H × W × D) (mm)		120 × 120 × 21.3
Weight (g)		220
List Price	£	468

DC12 V is supplied by the indoor unit.

MODBUS® Converter for Indoor Unit



UTY-VMSX

Refer to pages 102-107 for compatibility



Max. Connectable
1 Single
indoor unit

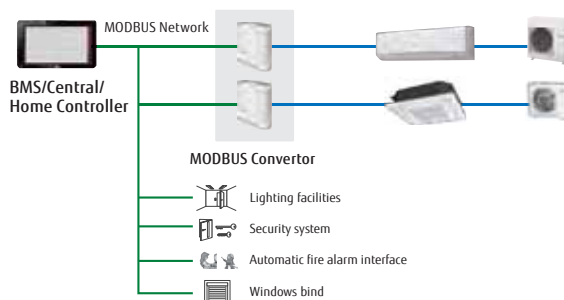
Features

The MODBUS Converter 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 Converter must be connected one by one in the indoor unit.
- The MODBUS Controller permits central monitoring and control of air conditioners from BMS/Central/Home Controller.

Basic control

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



Specifications

Model name			UTY-VMSX
Power supply			AC220/240V 50/60Hz AC208/230V 60Hz
Input Power		W	Max. 1.2
Temperature	Operating / Packaged	°C (°F)	0~46(32~114) / -10~60(14~140)
Humidity	Operating / Packaged	%	0~95 / 0~95
Dimensions (H×W×D)(in.)		mm (in.)	43 × 117 × 140
Weight(oz)		g (oz)	200(7)
Maximum Connectable indoor unit number per 1 MODBUS Converter			1
List Price		£	234

MODBUS® Interface



FJ-RC-MBS-1

Refer to pages 102-107 for compatibility



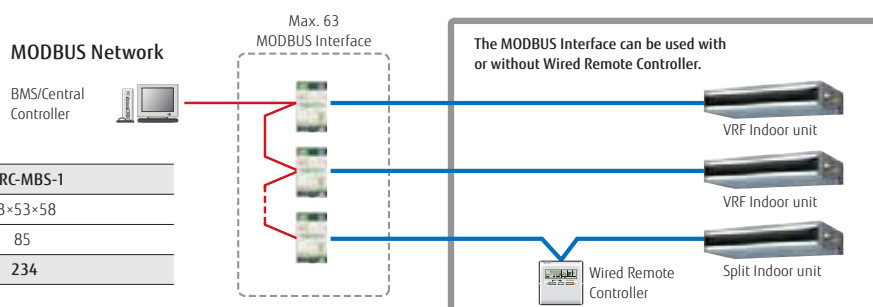
Features

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 × W × D) (mm)		93×53×58
Weight (g)		85
List Price	£	234





UTY-VKSX

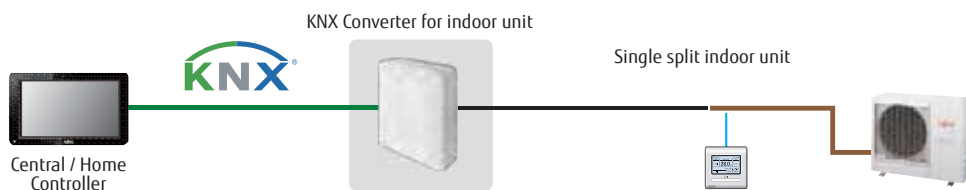
Refer to pages 102-107 for compatibility



Features

It is possible to control the Split system or VRF system from central / home controller via KNX network.

- New KNX Converter enables to connect central/ home controller and FG indoor unit.
- Compact and light weight design



Specifications

Model name	UTY-VKSX	
Power supply	(DC12V)	
Power consumption (W)	0.6	
Dimensions (H × W × D) (mm)	43×117×140	
Weight (g)	250	
List Price	£	267

KNX® Interface



FJ-RC-KNX-1i

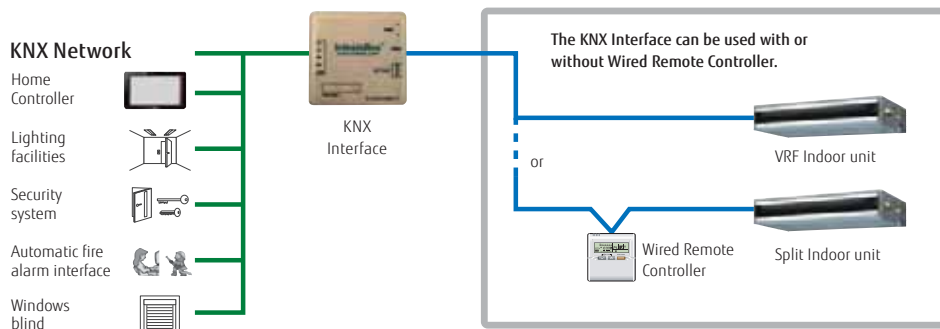
Refer to pages 102-107 for compatibility



Features

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.



Specifications

Model name	FJ-RC-KNX-1i	
Dimensions (H × W × D) (mm)	70×70×28	
Weight (g)	70	
List Price	£	265

Wireless LAN Interface



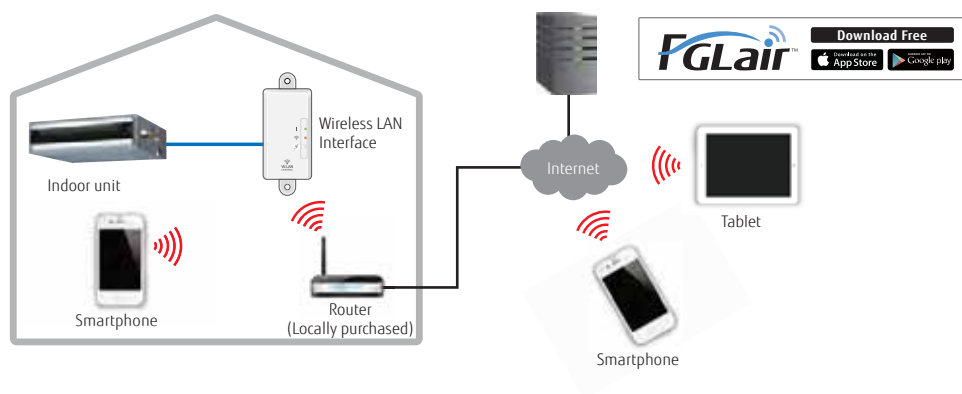
UTY-TFNXZ1 / UTY-TFSXZ1

Refer to pages 102-107 for compatibility



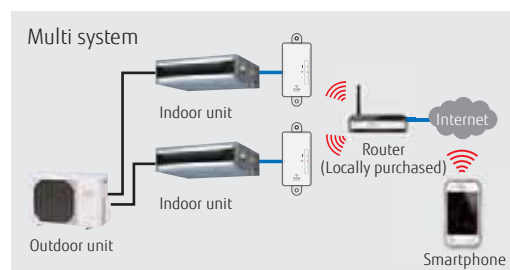
Features

- It is the most advanced solution to remotely manage an Air Conditioning system using all types of mobile devices such as Smartphones, PC and tablets.
- No separate external power supply required
- Can be used for single indoor units and multi system indoor units



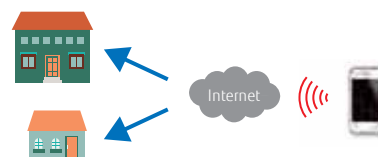
Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Louvre position (Airflow direction setting)
- Timer operation setting (Weekly timer)
- Economy mode setting
- Change set point temperatures



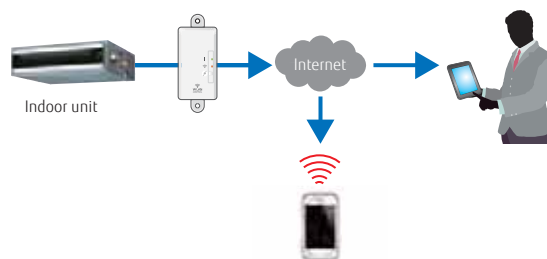
Multiple air conditioning management

- Multiple air conditioning management at difference locations.



Error display & E-mail notification

- Alerts e-mail notification
- Air conditioning malfunction display
- It enables rapid service response when error occurs.



Specifications

Model name		UTY-TFNXZ1 / UTY-TFSXZ1
Dimensions (H × W × D) (mm)		71×38×15
Weight (g)		85
List Price	£	143 / 143

Wireless LAN Interface



FJ-RC-WIFI-1

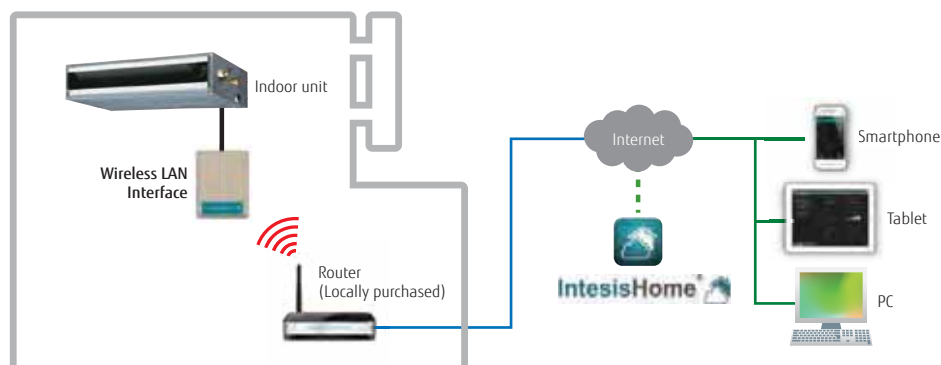
Refer to pages 102-107 for compatibility



Features



- It is the most advanced solution to remotely manage an Air Conditioning system using all types 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
- Louvre position (Airflow direction setting)
- Room temperature display
- Set temperature control
- Multi Language
- One Scene and Timer



(Application screen image)

Advanced control (Optional functions)

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

Notifications and history

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

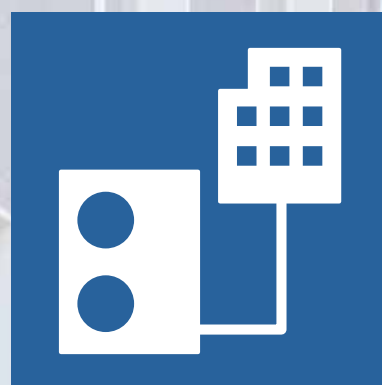
Specifications

Model name		FJ-RC-WIFI-1
Dimensions (H × W × D) (mm)		70×108×28
Weight (g)		80
List Price	£	234

VRF

For Commercial and Light Commercial

AIRSTAGE™





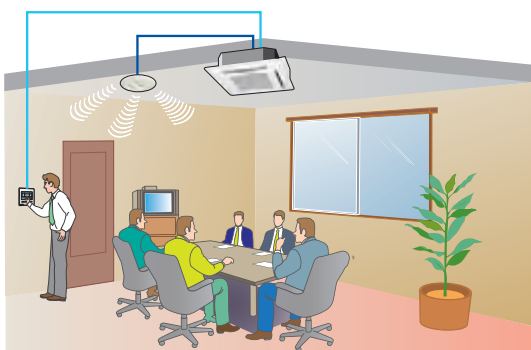
SMALL OFFICES

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

AIRSTAGE™ J-III L

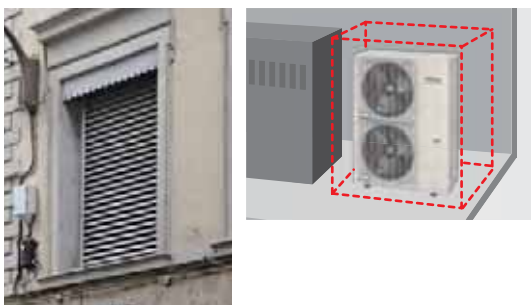
Energy saving solution suitable for meeting rooms and business discussion rooms

When there are no people in the room, save operation starts automatically to prevent unnecessary power consumption by linking up with a human sensor and external input/output kit.



Compact and low noise design outdoor unit

This compact outdoor unit doesn't take up much space even if installed in a plant room or on the rooftop. This unit secures enough static pressure even if there are louvres. Low noise operation is possible at nighttime by a low noise mode.



Small VRF System

Up to 12 HP by compact outdoor unit

Small VRF system is suitable for buildings with many small rooms. Max. 30 indoor units can be connected.

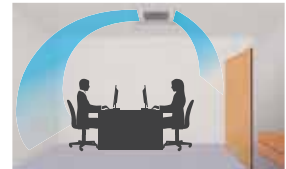
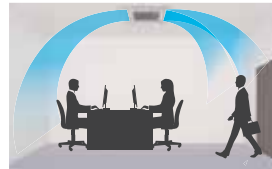
Comfortable office air conditioning without draughts



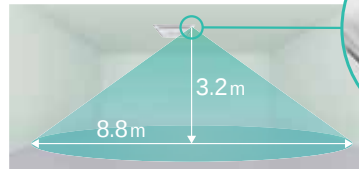
Circular Airflow Cassette blows out in all directions without temperature unevenness



Individual airflow direction control to prevent occupants being exposed to draughts



Energy saving operation when there are no people in the space linking up with the human sensor



Human sensor (option)

1.1 kW personal air conditioning



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

Centralised control of both air conditioning and lighting

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

System Controller Lite



VRF indoor units



Facilities



Lightning

Ventilation

Energy Recovery Ventilator

SHOPS, RESTAURANTS & COMPLEX BUILDINGS

Fujitsu General provides efficient air conditioning systems to tenants and customers in shops and restaurants.



NEW

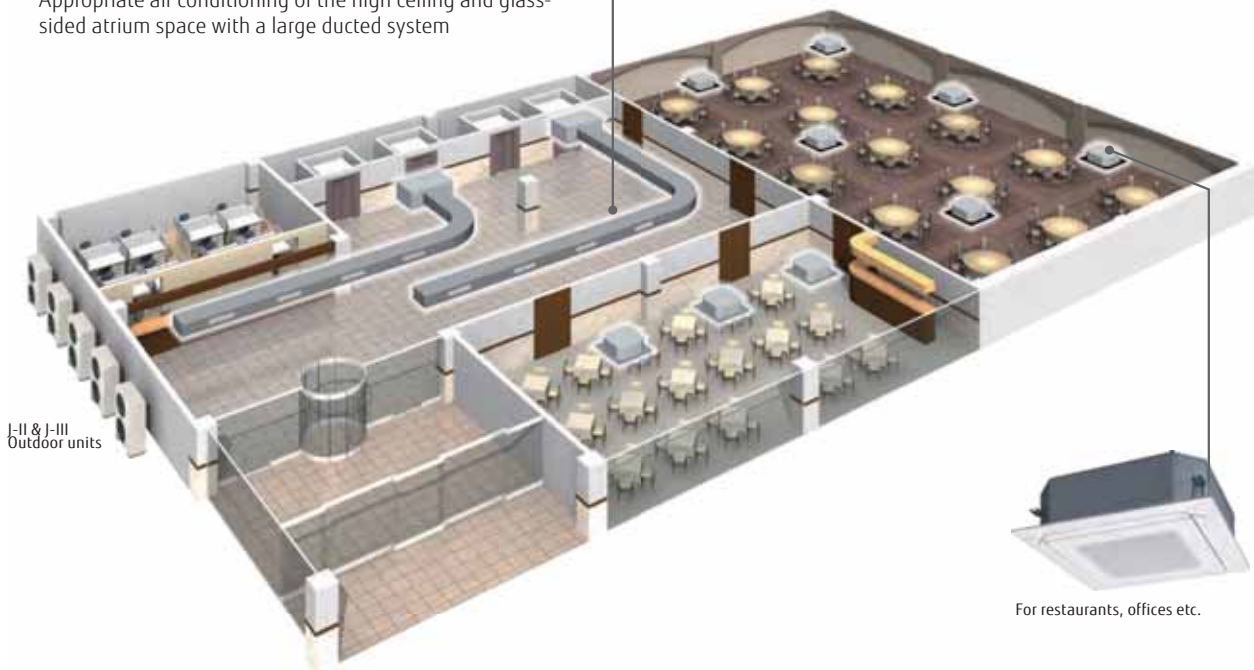


Large Duct

Appropriate air conditioning in the atrium space

Appropriate air conditioning of the high ceiling and glass-sided atrium space with a large ducted system

J-II & J-III **AIRSTAGE™** for RESTAURANTS



For restaurants, offices etc.



NEW

LAN
or Wireless
LAN



Tablet



PC

Centralised control of air conditioning for all tenants

Centralised control with simple touch panel operation of scheduled operation by tenant, centralised control and electricity charge apportionment



Remote monitoring of air conditioning

SMALL VRF **AIRSTAGE™** for COMPLEX BUILDINGS



J-IIS

J-II & J-III

J-IIIIL

SMALL VRF **AIRSTAGE™** for SHOPS



72-108 J-IIIIL

NEW

Cooling possible with low outside air temperature

Low outside air temperature cooling operation is necessary in winter in stores with a lot of heat inside. Air conditioning system can be supported flexibly to allow cooling operation at -15°C

Space saving installation

J-IIIIL type outdoor units can connect up to 30 indoor units (refer to outdoor units for more details). This large capacity model makes large spaces comfortable. Furthermore, this is the top class compact outdoor unit in the industry



30-150 Pa

Medium Static Pressure Ducted

LARGE BUILDING

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

Individual air conditioning system for large buildings

Capacities in simultaneous cooling and heating is possible up to a maximum 48HP.

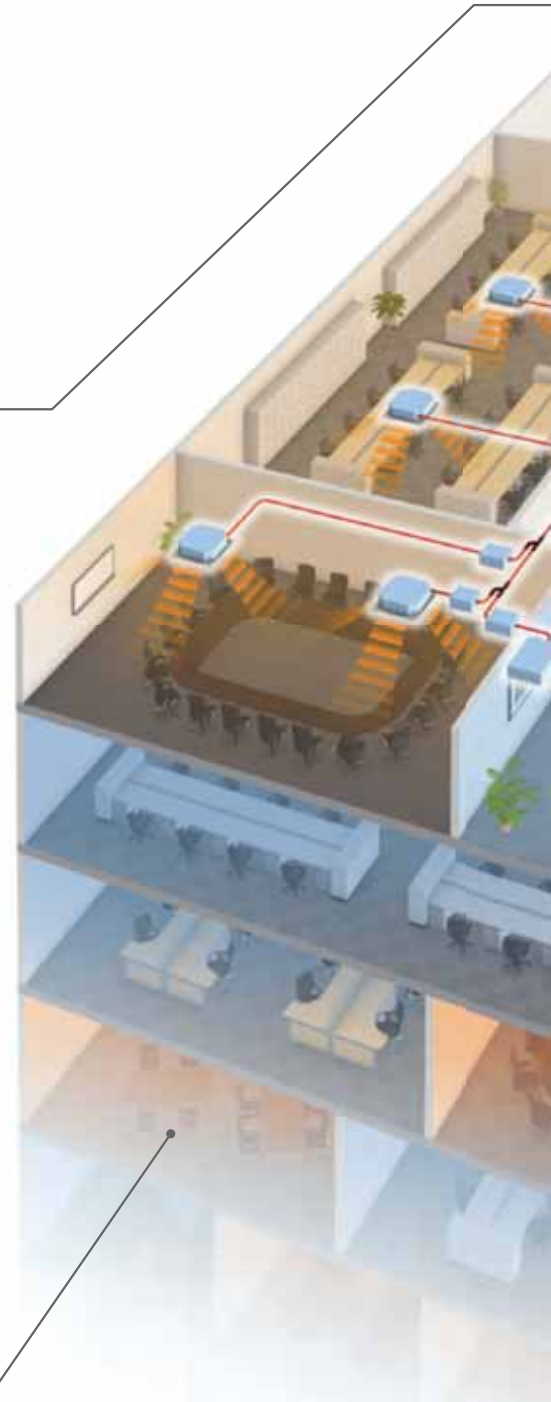


AIRSTAGE™ VR-II

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

8 HP - 48 HP 34 Models

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



Abundant lineup suitable to match the operating environment

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



Heat Pump Modular type for heating or cooling operation

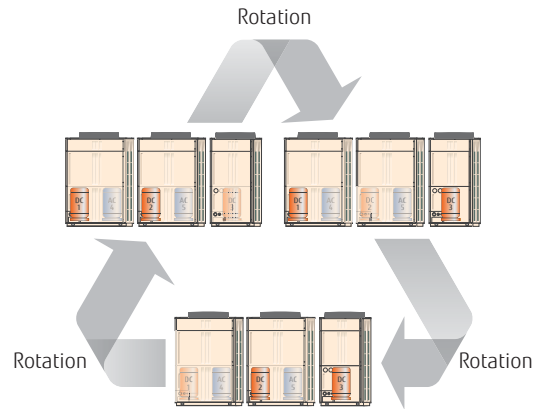
AIRSTAGE™ V-III

8 HP - 54 HP 39 Models

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

Enhancement of functions and basic performance to increase reliability

Longer life expectancy is achieved by controlling excessive load on one unit through rotation operation and refrigerant distribution control.

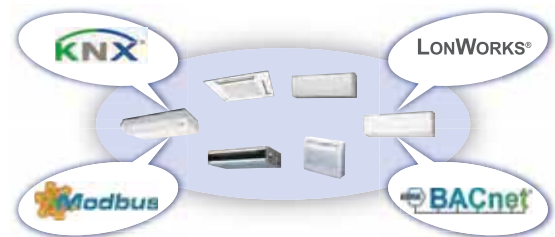


System Controller
(UTY-APGXZ1)

System Controller Lite
(UTY-ALGXZ1 & UTY-PLGXX2)

Link up with a variety of BMS

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

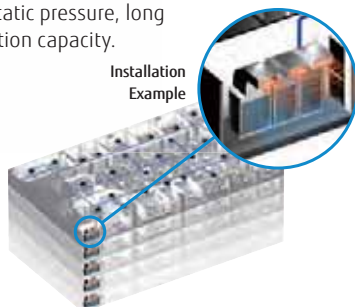


High system flexibility

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

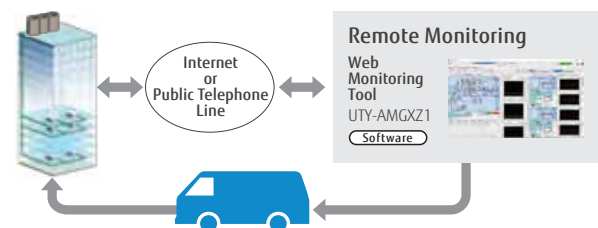


*: For V-III series. VR-II series & V-II series are 80 Pa



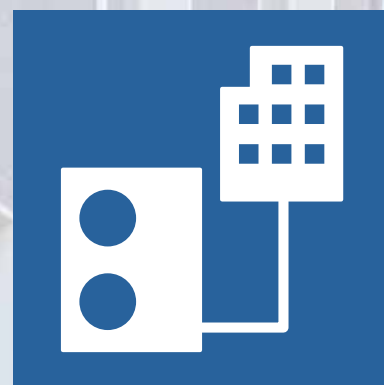
Rapid service support

The air conditioning of the entire building can be monitored remotely with Web Monitoring Tool and System Controller. Rapid response to emergencies is possible by self-diagnosis enabling alert to a maintenance company.



SMALL VRF

AIRSTAGE™



PRODUCT LINE UP SMALL VRF Outdoor Units

Capacity (kW)	12.1	14.0	15.1-15.5	22.4	28.0	33.5
HP	4	5	6	8	10	12
J-IIS Series Page 128	 AJY040LCLAH	 AJY045LCLAH	 AJY054LCLAH			
J-II Series Page 132	 AJYA40LALH	 AJYA45LALH	 AJYA54LALH			
NEW J-III Series Page 136	 AJY040LBLAH AJY040LELAH	 AJY045LBLAH AJY045LELAH	 AJY054LBLAH AJY054LELAH			
NEW J-IIIL Series Page 140				 AJY072LELAH	 AJY090LELAH	 AJY108LELAH



SMALL VRF

- 127 PRODUCT LINEUP SMALL VRF Outdoor Units
- 128 AIRSTAGE™ J-IIS
- 132 AIRSTAGE™ J-II
- 136 AIRSTAGE™ J-III
- 140 AIRSTAGE™ J-IIIL
- 162 PRODUCT LINEUP VRF Indoor Units
- 164 Indoor Units for VRF Specifications

Heat Pump for Small Capacity Type

AIRSTAGE™ J-IIS

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



System Outline

Space saving and low sound level design

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

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

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

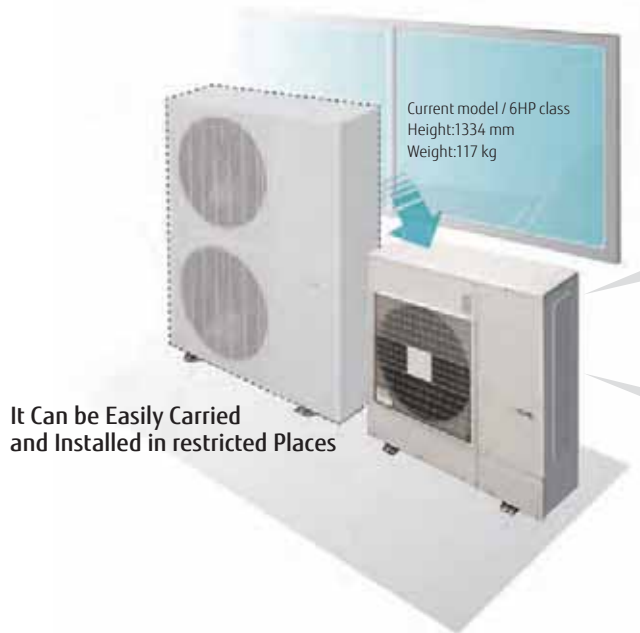


www.eurovent-certification.com
www.certiflash.com



Small and light weight outdoor unit

This model is much more compact than conventional 6 HP 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



It Can be Easily Carried and Installed in restricted Places

Model / 6HP class

Height difference
998 mm
▲ 25%

Light weight
87 kg
▲ 26%

Advanced high efficiency technology



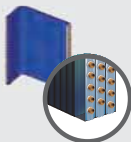
Large propeller fan

High performance and low noise achieved by large propeller and optimisation of angle.



DC fan motor

Miniaturised, 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.



High heat transfer copper tube (Improved lead angle)



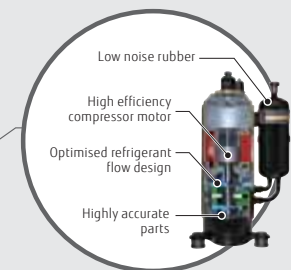
Smooth airflow grille

This grille was aerodynamically designed for good efficiency with little blow loss.



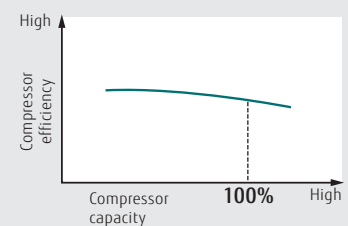
DC inverter control

Efficiency is improved by mounting of new active filter module.



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.

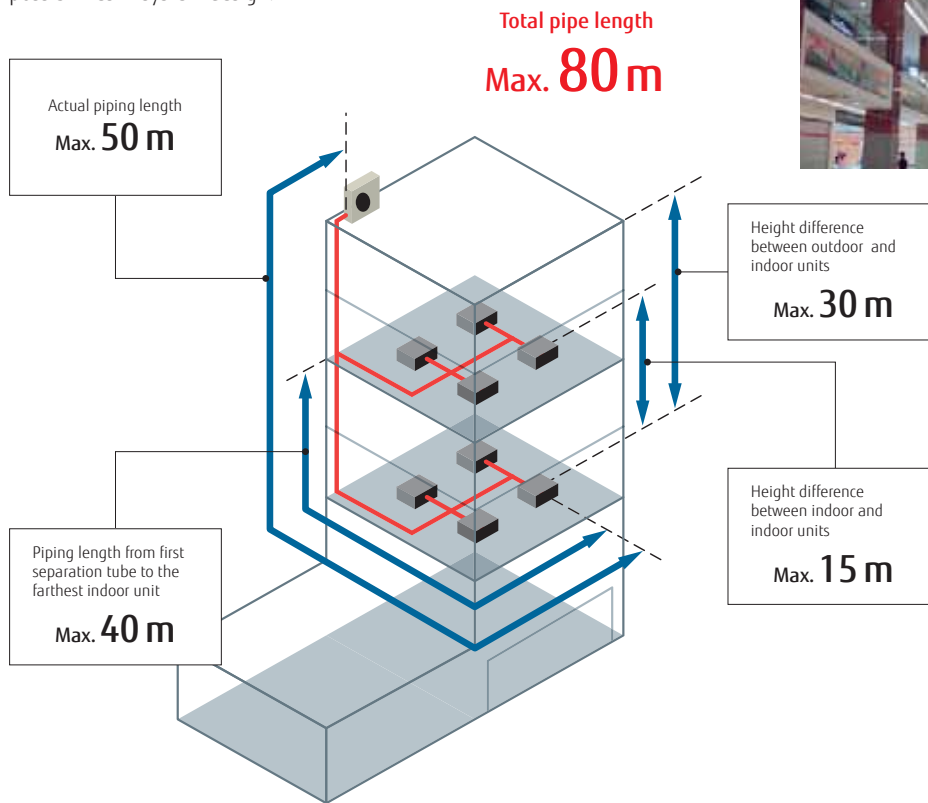


SMALL VRF

Features

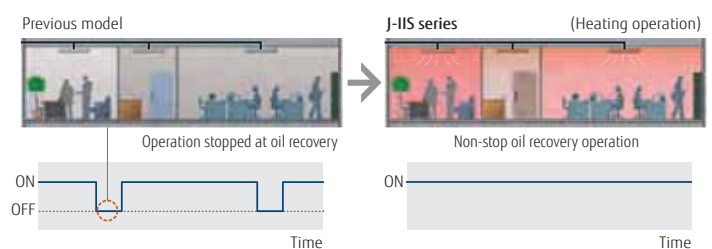
Long piping length

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.



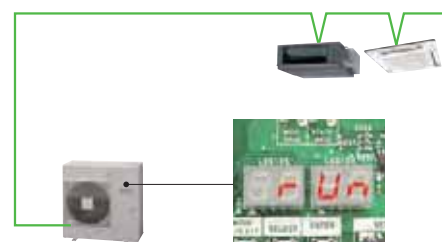
Non-stop oil recovery operation

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
- Duplicated indoor unit addresses can be displayed

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



Specifications

Rating Capacity range		HP	4	5	6
Model name			AJY040LCLAH	AJY045LCLAH	AJY054LCLAH
Maximum Connectable Indoor Unit			7	8	8
Power source			Single-phase, ~230V, 50Hz		
Capacity	Cooling	kW	12.1	14.0	15.1
	Heating		13.6	16.0	16.5
Input power	Cooling	kW	3.44	4.43	5.32
	Heating		3.09	3.93	4.26
EER	Cooling	W/W	3.52	3.16	2.84
COP	Heating	W/W	4.40	4.07	3.87
Air flow rate		m ³ /h	4,040	4,200	4,200
Sound pressure level / Power level	Cooling	dB(A)	51 / 67	53 / 69	54 / 70
	Heating		54 / 68	55 / 69	56 / 70
Minimum Recommended MCB		AMP	32	32	32
Net Dimensions	Height	mm	998	998	998
	Width		970	970	970
	Depth		370	370	370
Weight		kg	86	86	87
Refrigerant	Type		R410A	R410A	R410A
	Charge		4.0	4.0	4.0
Connection pipe diameter	Liquid	Inch	3/8	3/8	3/8
	Gas		5/8	5/8	5/8
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		-20 to 21	-20 to 21	-20 to 21
List Price		£	2402	2621	2839

Note : Specifications are based on the following conditions.

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

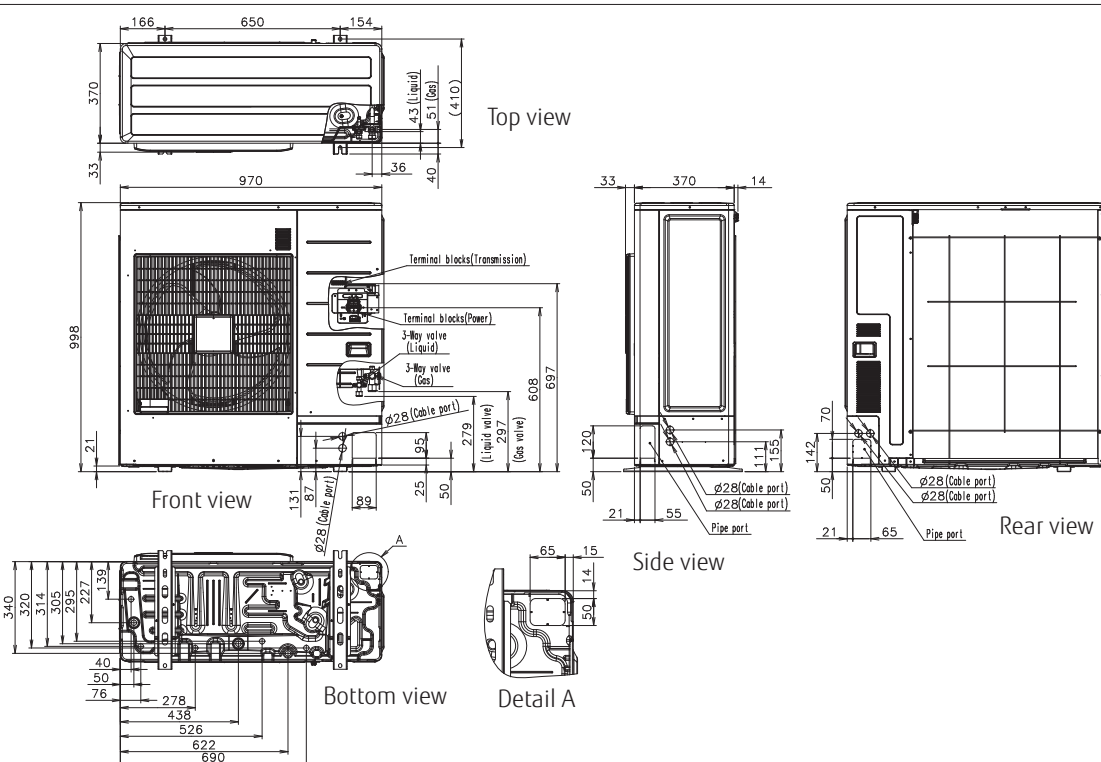
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

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

Dimensions

(Unit : mm)



Heat Pump for Small Capacity Type

AIRSTAGE™ J-II

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



System Outline

High Energy Efficiency

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

Flexible systems for small and medium size buildings air conditioning

Space saving and long piping design allow for flexible installation on roofs or balconies of small and medium-size buildings.

Multiple indoor units of various capacities and types can be connected.



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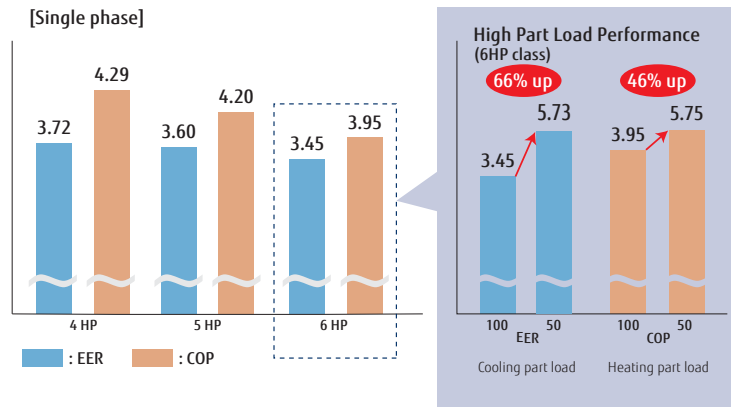




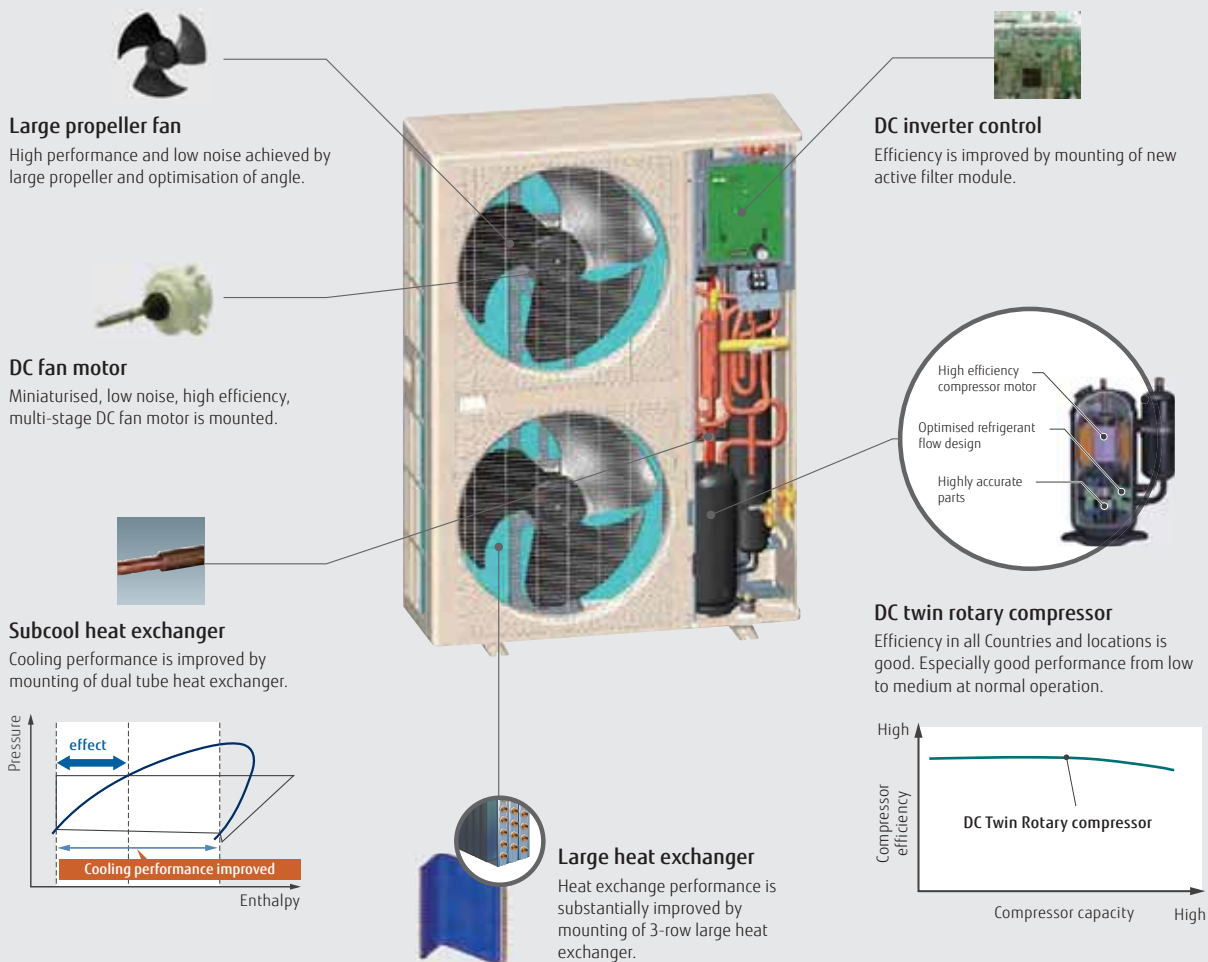
Efficiency in actual operation

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

High EER / COP



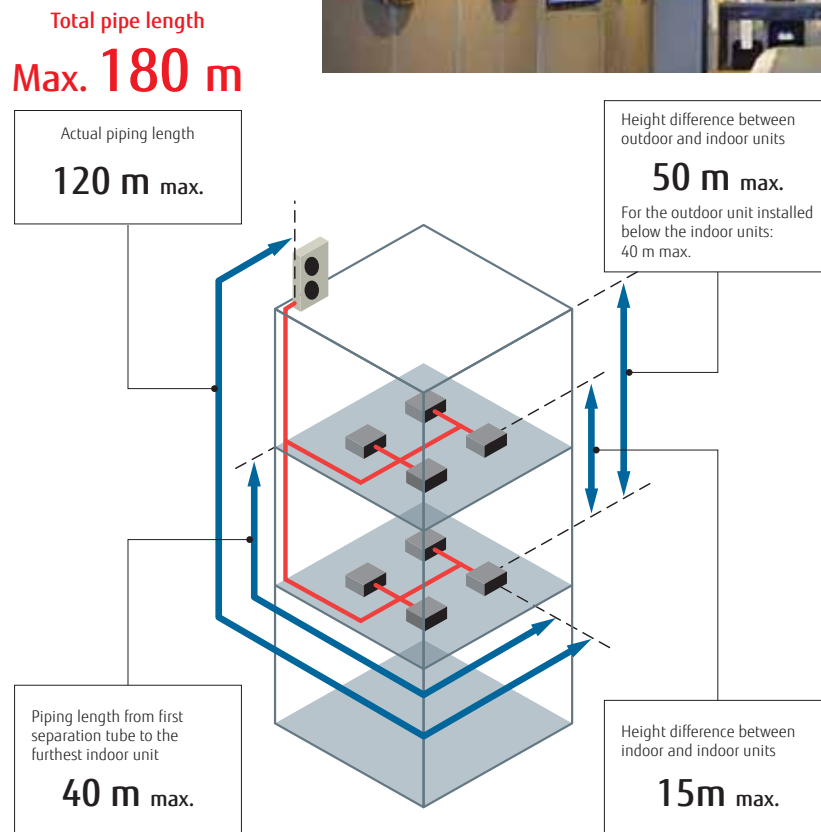
Advanced high efficiency technology



Features

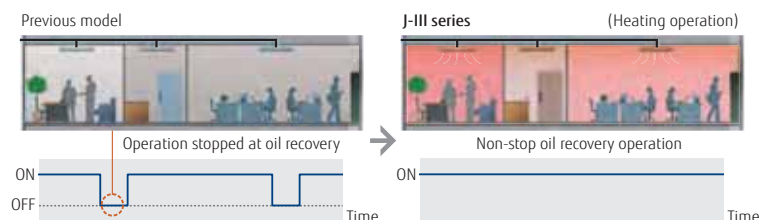
Long Piping Length

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



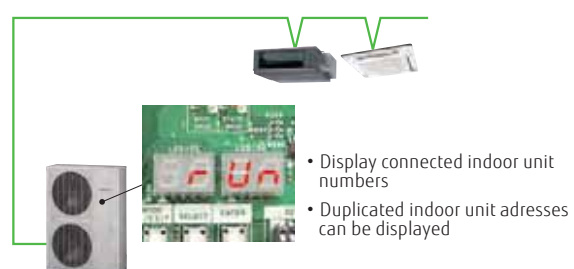
Non-stop oil recovery operation

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



Easier Installation

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



4,5,6HP : AJYA40LALH / AJYA45LALH / AJYA54LALH



Specifications

Rating Capacity range		HP	4	5	6
Model name			AJYA40LALH	AJYA45LALH	AJYA54LALH
Maximum Connectable Indoor Unit			7	8	9
Power source			Single-phase, ~230V, 50Hz		
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 late		m ³ /h	6,200	6,400	6,900
Sound pressure level / Power level	Cooling	dB(A)	50 / 66	51 / 67	53 / 69
	Heating	dB(A)	52 / 66	53 / 67	53 / 69
Minimum Recommended MCB		AMP	32	32	32
Net 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	Type		R410A	R410A	R410A
	Charge	kg	4.8	5.3	5.3
Connection pipe diameter	Liquid	Inch	3/8	3/8	3/8
	Gas	Inch	5/8	5/8	5/8
Total pipe length		m	120	120	120
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
List Price		£	3005	3336	3629

Note : Specifications are based on the following conditions.

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

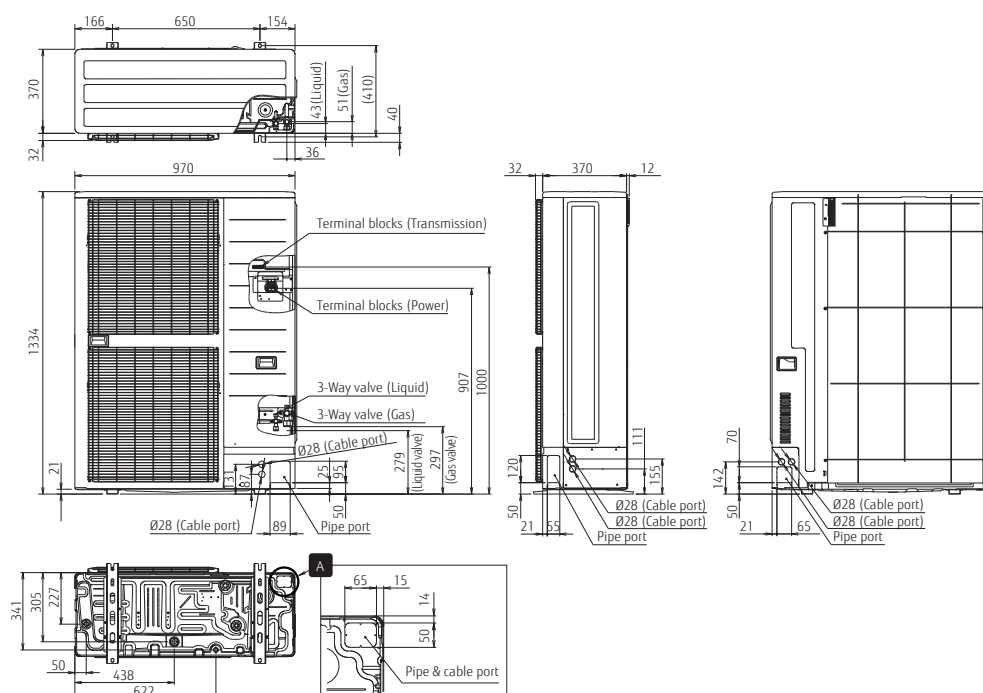
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

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

Dimensions

(Unit : mm)



Heat Pump for Small Capacity Type

AIRSTAGE™ J-III

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

System Outline**High Energy Efficiency**

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

Flexible systems for small and medium size buildings air conditioning

Space saving and long piping design allow for flexible installation on roofs or balconies of small and medium-size buildings.

Multiple indoor units of various capacities and types can be connected.



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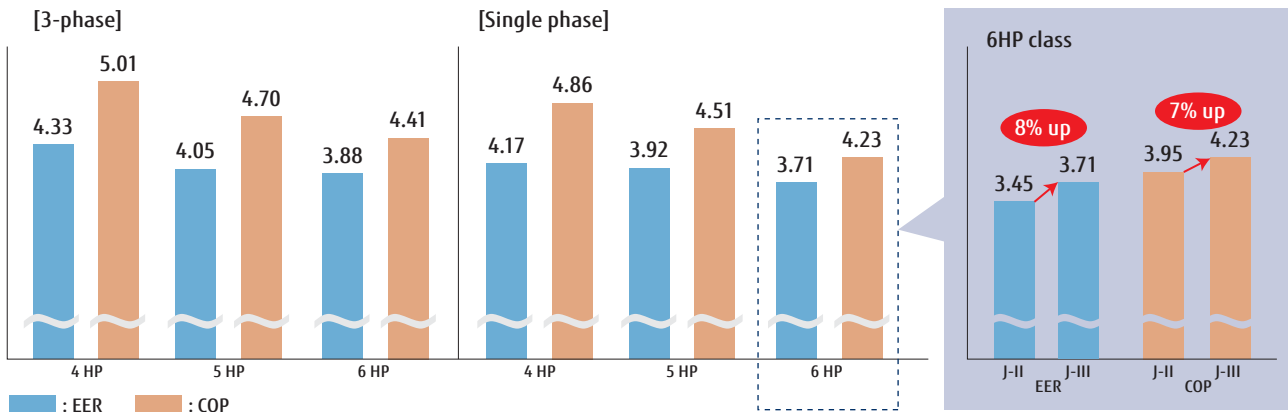




Efficiency in actual operation

Top class high COP is achieved for all models by a large heat exchanger, high efficient DC twin compressor, and our own technologies.

High EER / COP

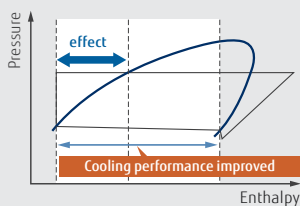


Advanced high efficiency technology

Large propeller fan
High performance and low noise achieved by large propeller and optimisation of angle.

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

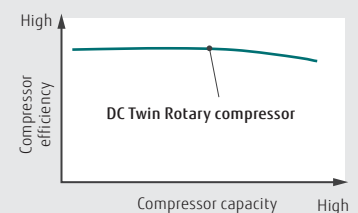
Subcool heat exchanger
Cooling performance is improved by mounting of dual tube heat exchanger.



DC inverter control
Efficiency is improved by mounting of new active filter module.

High efficiency compressor motor
Optimised refrigerant flow design
Highly accurate parts

DC twin rotary compressor
Efficiency in all Countries and locations is good. Especially good performance from low to medium at normal operation.



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

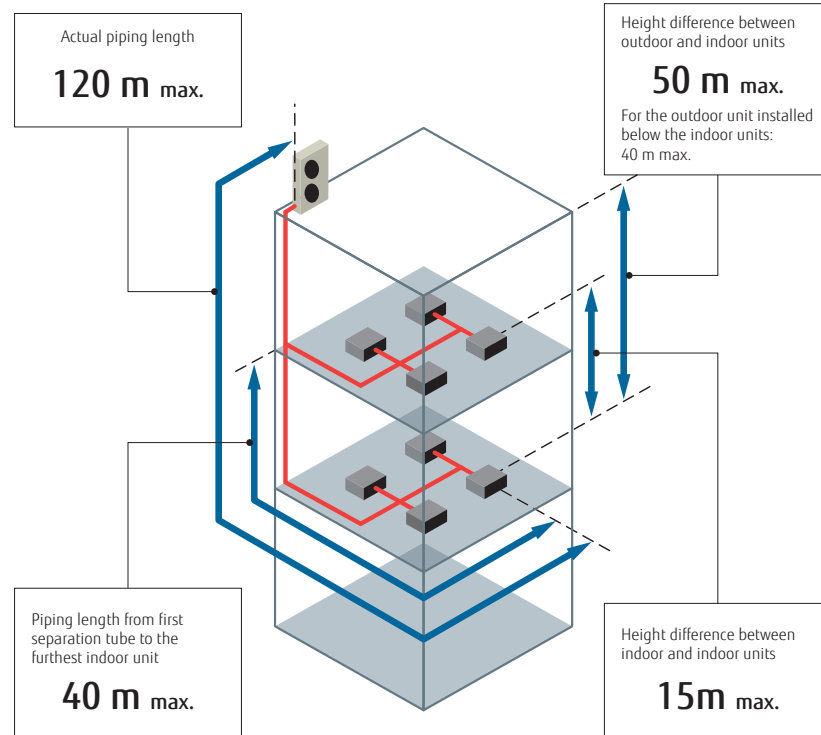
Features

Long Piping Length

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

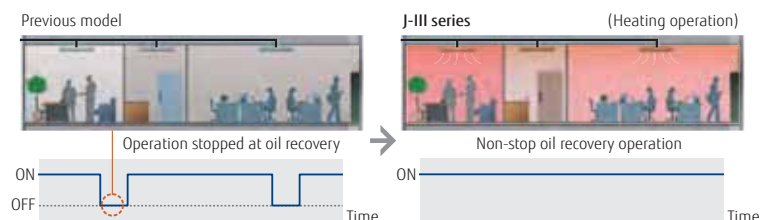


Total pipe length
Max. 180 m



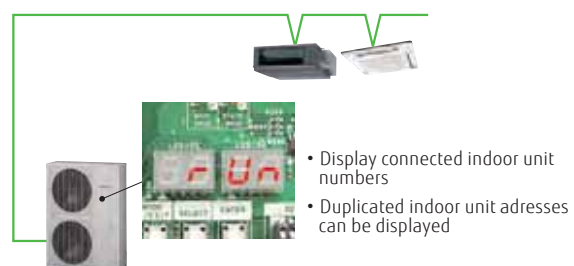
Non-stop oil recovery operation

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



Easier Installation

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





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

NEW



Specifications

Rating Capacity range		HP	4	5	6	4	5	6
Model name			AJY040LBLAH	AJY045LBLAH	AJY054LBLAH	AJY040LELAH	AJY045LELAH	AJY054LELAH
Maximum Connectable Indoor Unit			1-9	1-10	1-13	1-9	1-10	1-13
Power source			Single-phase, ~230V, 50Hz			3-phase, ~400V, 50Hz		
Capacity	Cooling	kW	12.1	14.0	15.5	12.1	14.0	15.5
	Heating	kW	13.6	16.0	18.0	13.6	16.0	18.0
Input power	Cooling	kW	2.90	3.57	4.18	2.79	3.46	3.99
	Heating	kW	2.80	3.55	4.26	2.71	3.40	4.08
EER	Cooling	W/W	4.17	3.92	3.71	4.33	4.05	3.88
	Heating	W/W	4.86	4.51	4.23	5.01	4.70	4.41
Air flow rate		m ³ /h	6,200	6,400	6,900	6,200	6,400	6,900
Sound pressure level / Power level	Cooling	dB(A)	50 / 66	51 / 67	53 / 69	50 / 66	51 / 67	53 / 69
	Heating	dB(A)	52 / 68	53 / 69	55 / 71	52 / 68	53 / 69	55 / 71
Minimum Recommended MCB		AMP	32	32	32	16	16	16
Net Dimensions	Height	mm	1,334	1,334	1,334	1,334	1,334	1,334
	Width	mm	970	970	970	970	970	970
	Depth	mm	370	370	370	370	370	370
Weight		kg	117	117	119	119	119	119
Refrigerant	Type		R410A	R410A	R410A	R410A	R410A	R410A
	Charge	kg	4.8	5.3	5.3	4.8	5.3	5.3
Connection pipe diameter	Liquid	Inch	3/8	3/8	3/8	3/8	3/8	3/8
	Gas	Inch	5/8	5/8	3/4	5/8	5/8	3/4
Total pipe length		m	180	180	180	180	180	180
Max. height difference			50/40 (Outdoor unit: Higher/Lower)			50/40 (Outdoor unit: Higher/Lower)		
Operation range	Cooling	°C	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating	°C	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
List Price		£	3125	3469	3774	3313	3678	3963

Note: Specifications are based on the following conditions.

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

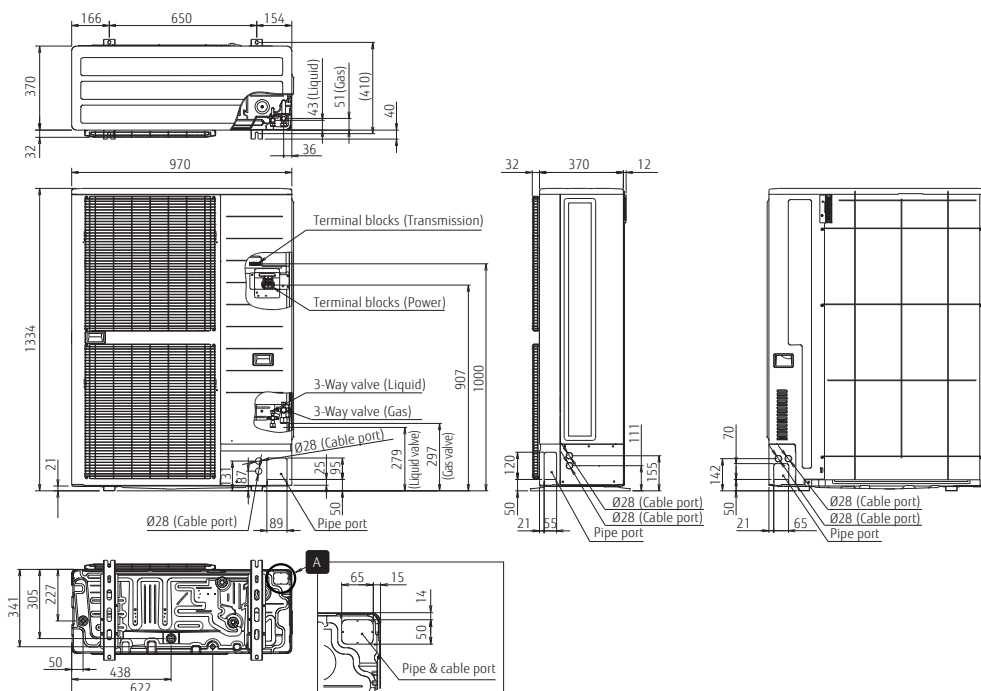
Heating: Indoor temperature of 20°CDB/(15°CWB), and outdoor temperature of 7°CDB/6°CWB.

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

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

Dimensions

(Unit : mm)



Heat Pump for Small Capacity Type

AIRSTAGE™ J-III L

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

System Outline**Compact Outdoor unit**

The compact and low sound level enable the units to be installed in various locations with restrictions or limited spaces such as plant rooms or rooftops.

Small room application

Up to 30 indoor units can be connected Available to be installed in various small rooms.

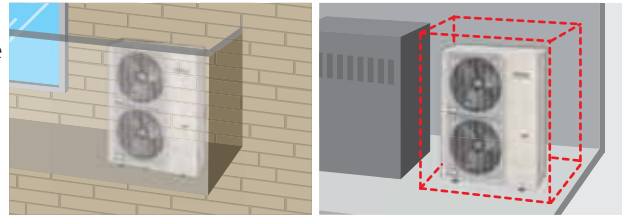
Quiet design

Top class low sound operation has been achieved. This allows installation of the units in locations without any special sound attenuation work.



Compact Design

This model is much more compact than the conventional 12HP comparable outdoor unit. Discreet installation is possible even on the roof.



Model / 12HP class

Height difference
1,428 mm
▲26%

Space area
0.71 m²
▲27%



Current model

J-III L

Advanced high efficiency technology



Ø570mm

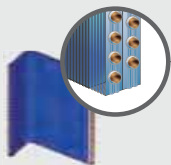
Large propeller fan

The high efficiency and the low sound operation are mutually realized by reduction of a draught loss which are enabled by the Fujitsu General's original blade design and a large diameter propeller fan.



DC fan motor

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



Large heat exchanger

Heat exchange performance is substantially improved by mounting of 2-row large heat exchanger.



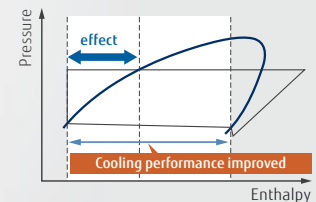
DC inverter control

Efficiency is improved by the new active filter module.



Subcool heat exchanger

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



Scroll compressor

The scroll compressor has a wide range of rotational frequency from 15 to 120 rps together with Fujitsu General's unique sensorless sine wave control method which smoothly control the input power operation. The motor achieves an improvement on the energy efficient operation and the low sound operation.

15-120 rps

SMALL VRF

Features

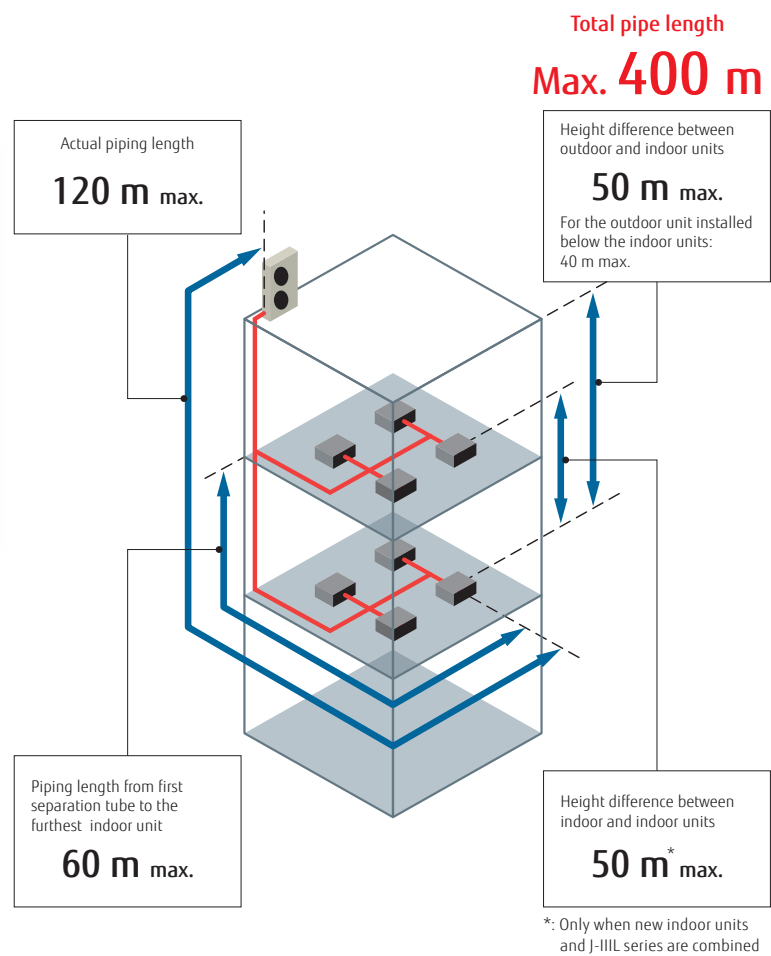
Long Piping Length

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.



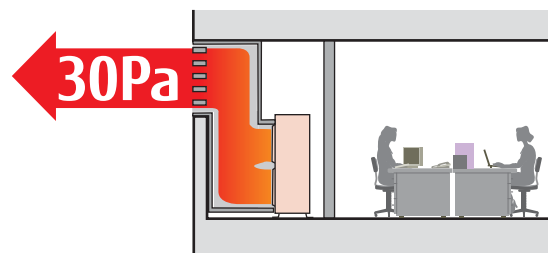
Up to 30 units can be connected

The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum efficiency heat exchanger achieves the industry's top class connection of 30 units. The total pipe length has been extended up to 400 meters to fulfill various room layouts.



High Static Pressure

External static pressure is available up to 30 Pa. (only 12HP)



Top Class Low Operating Sound

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

Sound Power Level

66 dB(A)



J-IIIIL (8HP)

▲ 11 dB(A)



Current model (8HP)

77 dB(A)



NEW 8,10,12HP: AJY072LELAH / AJY090LELAH / AJY108LELAH



Specifications

Rating Capacity range		HP	8	10	12
Model name			AJY072LELAH	AJY090LELAH	AJY108LELAH
Maximum Connectable Indoor Unit			1-20	1-25	1-30
Power source			3 phase, ~400V, 50Hz		
Capacity	Cooling	kW	22.4	28.0	33.5
	Nominal Heating		22.4	28.0	33.5
	Max Heating		25.0	31.5	37.5
Input power	Cooling	kW	6.30	8.59	10.42
	Nominal Heating		4.65	6.61	8.18
	Max Heating		5.45	8.29	10.25
EER	Cooling	W/W	3.56	3.26	3.22
COP	Nominal Heating		4.82	4.24	4.10
	Max Heating		4.56	3.80	3.66
Air flow rate		m ³ /h	8,400	9,000	11,000
Sound pressure level / Power level	Cooling	dB(A)	52 / 66	54 / 69	59 / 73
	Heating		54 /	57 /	61 /
Net Dimensions	Height	mm	1,428	1,428	1,428
	Width		1,080	1,080	1,080
	Depth		480	480	480
Weight		kg	170	177	178
Refrigerant	Type		R410A	R410A	R410A
	Charge	kg	7.0	7.5	7.5
Connection pipe diameter	Liquid	mm	3/8	3/8	3/8
	Gas		3/4	7/8	1 1/8
Total pipe length		m	400	400	400
Max. height difference			50 / 40 (Outdoor unit: Upper / Lower)		
Operation range	Cooling	°C	-15 to 46	-15 to 46	-15 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21
List Price		£	4939	5199	6224

Note: Specifications are based on the following conditions.

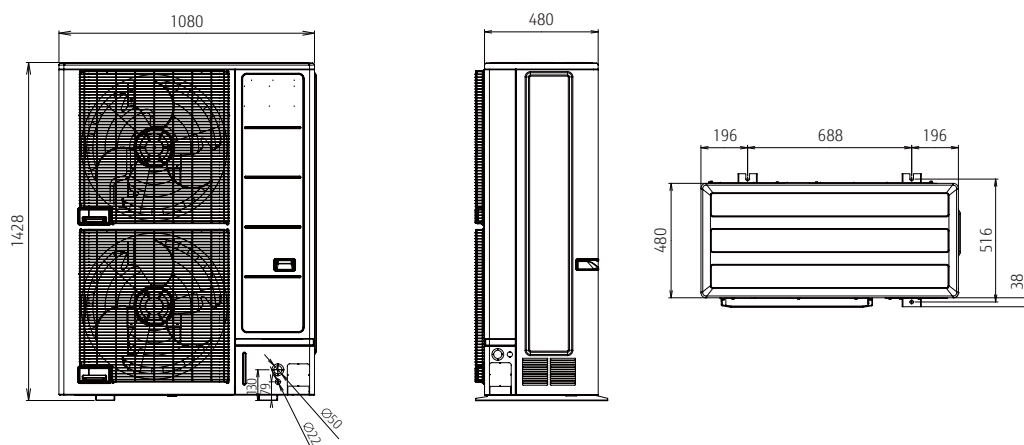
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

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.

Dimensions

(Unit : mm)



LARGE VRF

AIRSTAGE™





LARGE VRF

- 146 PRODUCT LINE UP LARGE VRF Outdoor Units
- 150 AIRSTAGE™ VR-II HEAT RECOVERY
- 156 AIRSTAGE™ V-III HEAT PUMP
- 160 PRODUCT LINE UP LARGE VRF Indoor Units
- 164 Indoor Units for LARGE VRF Specifications

LARGE VRF Outdoor Units



Capacity (kW)		22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0	73.5	78.5
HP		8	10	12	14	16	18	20	22	24	26	28
VR-II Series Heat Recovery	Space Saving Page 158~											
	Set Model	AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJY162GALH	AJY180GALH	AJY198GALH	AJY216GALH	AJY234GALH	AJY252GALH
	Energy Efficiency Page 158~											
	Set Model					AJY144GALHH			AJY198GALHH	AJY216GALHH	AJY234GALHH	AJY252GALHH
V-III Series Heat Pump	Space Saving Page 164~											
	Set Model	AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY180LALBH	AJY198LALBH	AJY216LALBH	AJY234LALBH	AJY252LALBH
	Energy Efficiency Page 164~											
	Set Model					AJY144LALBHH	AJY162LALBHH	AJY180LALBHH		AJY216LALBHH	AJY234LALBHH	AJY252LALBHH

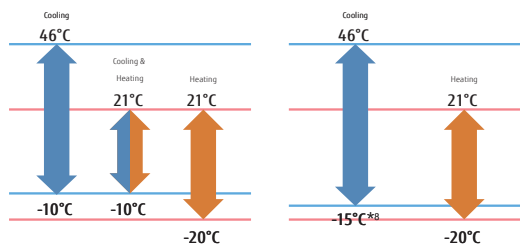
AIRSTAGE™ VR-II series
Heat Recovery Modular type

AIRSTAGE™ V-III series
Heat Pump Modular type

Wide operating range

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

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





85.0	90.0	95.0	100.5	107.0	112.0	118.5	123.5	130.0	135.0	140.0	145.0	150.0
30	32	34	36	38	40	42	44	46	48	50	52	54
AJY270GALH	AJY288GALH	AJY306GALH	AJY324GALH	AJY342GALH	AJY360GALH	AJY378GALH	AJY396GALH	AJY414GALH	AJY432GALH			
AJY270GALHH	AJY288GALHH	AJY306GALHH	AJY324GALHH	AJY342GALHH	AJY360GALHH	AJY378GALHH	AJY396GALHH					
AJY270LALBH	AJY288LALBH	AJY306LALBH	AJY324LALBH	AJY342LALBH	AJY360LALBH	AJY378LALBH	AJY396LALBH	AJY414LALBH	AJY432LALBH	AJY450LALBH	AJY468LALBH	AJY486LALBH
AJY270LALBHH	AJY288LALBHH	AJY306LALBHH	AJY324LALBHH	AJY342LALBHH	AJY360LALBHH	AJY378LALBHH	AJY396LALBHH	AJY414LALBHH				

More Comfort

Precision refrigerant flow control

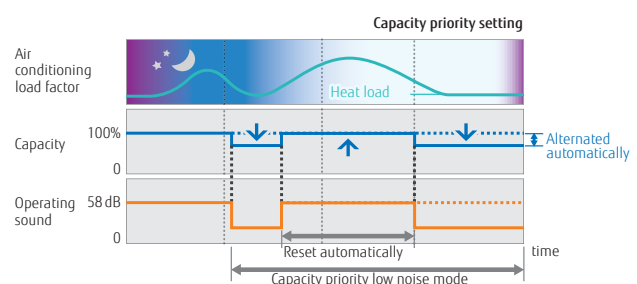
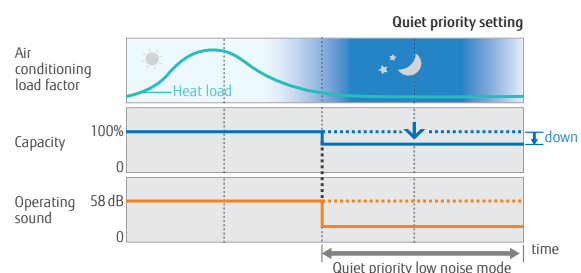
Precise and smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows high precision comfortable temperature control of $\pm 0.5^{\circ}\text{C}$.

Auto changeover function

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

Quiet operation

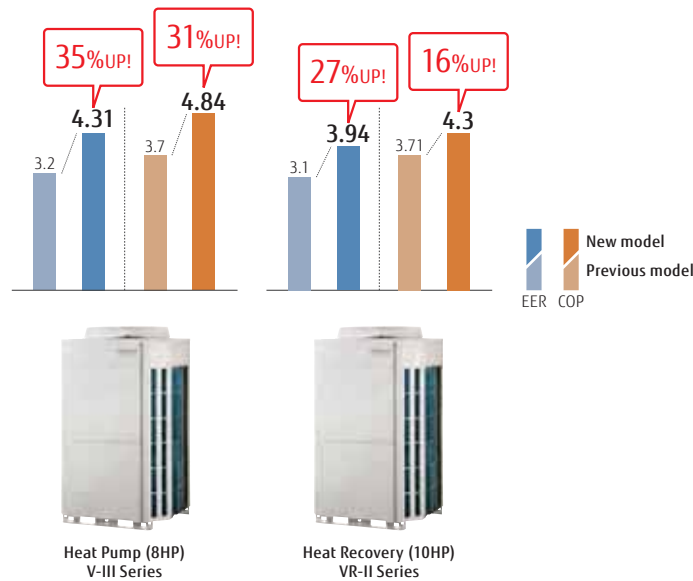
Two low noise modes can be selected automatically by quiet priority setting and capacity priority setting depending on the indoor environment and outside temperature load. This feature can be controlled via outdoor unit external input and/or system controller.



CORE TECHNOLOGY

High Energy Efficiency

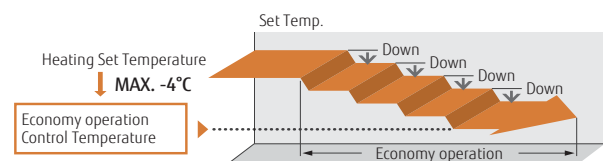
Efficiency is improved significantly by using DC twin rotary compressor, inverter technology, and large heat exchanger



Energy Saving Function

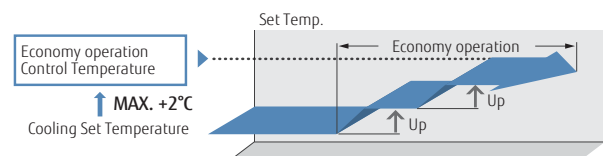
Economy operation

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



Room temperature set point limitation

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

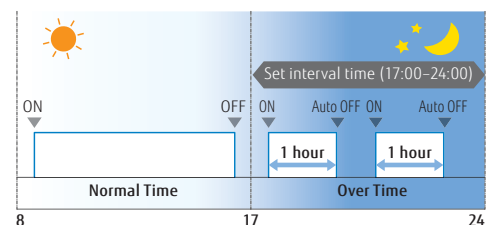


Auto-off timer

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

Capacity save operation

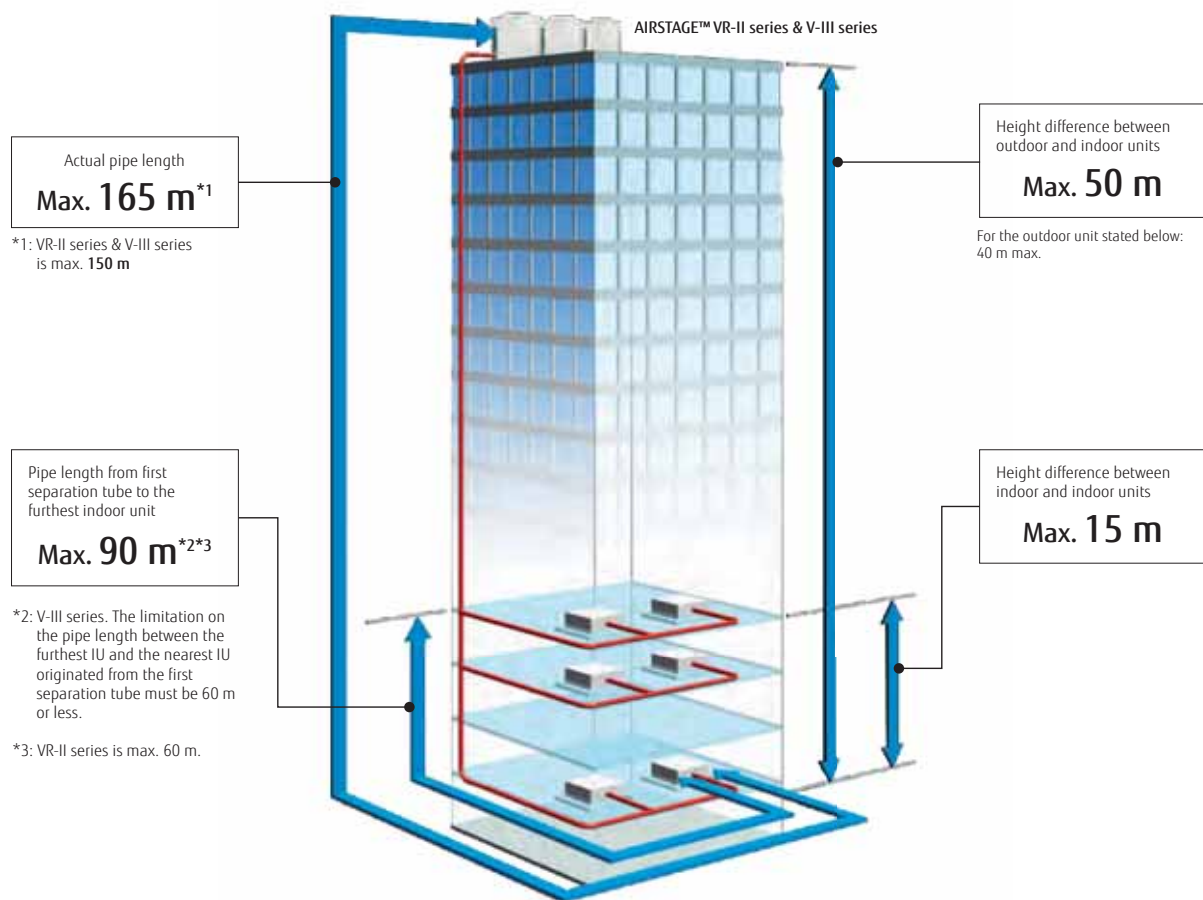
Operation capacity can be set in 5 steps for rated capability. The power consumption at peak is cut down and the maximum load is suppressed.



Design Flexibility

Overall piping length Max. 1,000 m

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



High capacity connection

^{*5}: Conditions of maximum connectable indoor unit capacity ratio is as the chart above.

^{*6}: Max. capacities in the combinations including the 18 HP outdoor unit fall below 150%.

Series	Connectable indoor unit capacity range	Connectable indoor unit number
AIRSTAGE™ VR-II series Heat Recovery Modular type	50% to 150% ^{*5}	up to 64
AIRSTAGE™ V-III series Heat Pump Modular type	50% to 150% ^{*6}	up to 48

Heat Recovery Modular Type

AIRSTAGE™ VR-II

Smart and cutting edge design

Extensive lineup from 8HP to 48HP in 2HP increment

Connectable indoor unit capacity ratio up to 150%



System Outline

Simultaneous cooling and heating operation using 1 refrigerant system

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

Annual cooling operation

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

Handles changes in the temperature difference

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

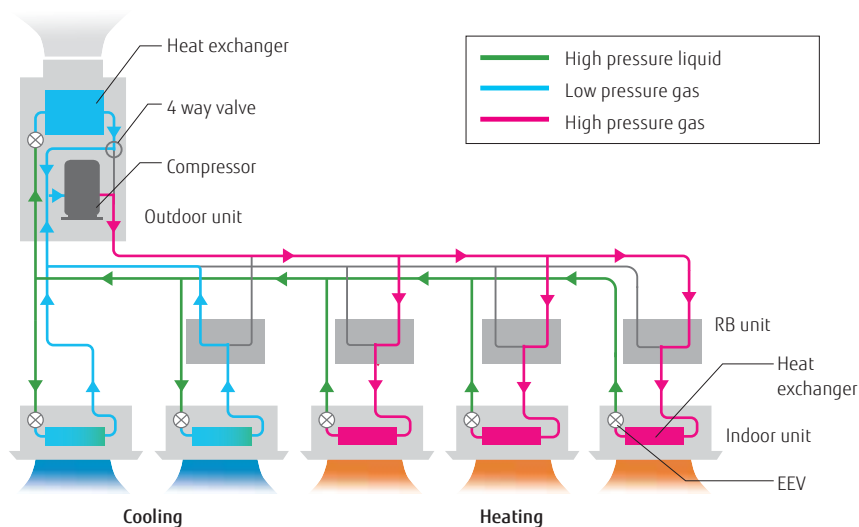


www.eurovent-certification.com
www.certiflash.com



High Operating Energy Efficiency

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



Energy saving technology has 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

Sine-wave DC inverter control

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

Subcool heat exchanger

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

High efficient and large capacity DC inverter compressor

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

3 phase DC fan motor

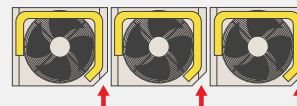
Efficiency is substantially improved by high efficient motor with sophisticated driver control. In addition, low noise is achieved by the DC fan motor.

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.



LARGE VRF

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		

LARGE VRF

Outdoor units specifications

Space Saving Combination

Rating Capacity range		HP	8	10	12	14	16	18	20	22	24
											
Set Model name			AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJY162GALH	AJY180GALH	AJY198GALH	AJY216GALH
Unit 1 Unit 2 Unit 3			AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJYA90GALH AJYA72GALH	AJYA90GALH AJYA90GALH	AJY108GALH AJYA90GALH	AJY108GALH AJY108GALH
Maximum Connectable Indoor Unit*1			15	16	17	21	24	27	30	32	35
Indoor unit connectable capacity		kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.2-75.6	28.0-84.0	30.8-92.2	33.5-100.5
Power source			3-phase 4 wire , 400 V, 50Hz								
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0
	Heating		25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0	75.0
Input power	Cooling	kW	5.45	7.11	9.75	11.34	13.61	12.56	14.22	16.86	19.50
	Heating		5.70	7.33	9.62	10.90	12.77	13.03	14.66	16.95	19.24
EER	Cooling	W/W	4.11	3.94	3.44	3.53	3.31	4.01	3.94	3.65	3.44
COP	Heating	W/W	4.39	4.30	3.90	4.13	3.92	4.34	4.30	4.07	3.90
Air flow late		m ³ /h	11,100	11,100	11,100	13,000	13,000	11,100×2	11,100×2	11,100×2	11,100×2
Sound pressure level*2/ Power level	Cooling	dB(A)	56 / 77	58 / 79	59 / 80	60 / 81	61 / 82	60 / 81	61 / 82	62 / 83	62 / 83
	Heating		58 / 80	59 / 81	61 / 83	61 / 83	61 / 83	62 / 84	62 / 84	63 / 85	64 / 86
Maximum external static pressure		Pa	80	80	80	80	80	80	80	80	80
Compressor motor output		kW	7.5	7.5	7.5	11.0	11.0	7.5×2	7.5×2	7.5×2	7.5×2
Recommended MCB		Amp	20	25	25	40	40	25 + 20	25 + 25	25 + 25	25 + 25
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930	930	930	1,240	1,240	930×2	930×2	930×2	930×2
	Depth		765	765	765	765	765	765	765	765	765
Weight		kg	262	262	262	286	286	262×2	262×2	262×2	262×2
Refrigerant	Type	kg	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge		11.8	11.8	11.8	11.8	11.8	11.8×2	11.8×2	11.8×2	11.8×2
Connection pipe diameter	Liquid	Inch	1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8
	Discharge Gas		5/8	3/4	3/4	7/8	7/8	7/8	7/8	1 1/8	1 1/8
	Suction Gas		7/8	7/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 3/8	1 3/8
Operation range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21
List Price		£	6,016	6,580	8,046	9,403	10,851	12,596	13,160	14,626	16,092

Energy Efficiency Combination

Rating Capacity range		HP	16	22	24	26	28	30
								
Set Model name			AJY144GALHH	AJY198GALHH	AJY216GALHH	AJY234GALHH	AJY252GALHH	AJY270GALHH
Unit 1 Unit 2 Unit 3			AJYA72GALH AJYA72GALH	AJY126GALH AJYA72GALH	AJYA72GALH AJYA72GALH AJYA72GALH	AJYA90GALH AJYA72GALH AJYA72GALH	AJYA90GALH AJYA90GALH AJYA72GALH	AJYA90GALH AJYA90GALH AJYA90GALH
Maximum Connectable Indoor Unit*1			24	33	36	39	42	45
Indoor unit connectable capacity		kW	22.4-67.2	31.2-93.6	33.6-100.8	36.4-109.2	39.2-117.6	42.0-126.0
Power source			3-phase 4 wire , 400 V, 50Hz					
Capacity	Cooling	kW	44.8	62.4	67.2	72.8	78.4	84.0
	Heating		50.0	70.0	75.0	81.5	88.0	94.5
Input power	Cooling	kW	10.90	16.79	16.35	18.01	19.67	21.33
	Heating		11.40	16.60	17.10	18.73	20.36	21.99
EER	Cooling	W/W	4.11	3.72	4.11	4.04	3.99	3.94
COP	Heating	W/W	4.39	4.22	4.39	4.35	4.32	4.30
Air flow late		m ³ /h	11,100×2	13,000+11,100	11,100×3	11,100×3	11,100×3	11,100×3
Sound pressure level*2/ Power level	Cooling	dB(A)	59 / 80	61 / 82	61 / 82	62 / 83	62 / 83	63 / 84
	Heating		61 / 83	63 / 85	63 / 85	63 / 85	63 / 85	64 / 86
Maximum external static pressure		Pa	80	80	80	80	80	80
Compressor motor output		kW	7.5×2	11.0+7.5	7.5×3	7.5×3	7.5×3	7.5×3
Recommended MCB		Amp	20+20	40+20	20+20+20	20+20+20	25+25+20	25+25+25
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930×2	1,240+930	930×3	930×3	930×3	930×3
	Depth		765	765	765	765	765	765
Weight		kg	262×2	286+262	262×3	262×3	262×3	262×3
Refrigerant	Type	kg	R410A	R410A	R410A	R410A	R410A	R410A
	Charge		11.8×2	11.8×2	11.8×3	11.8×3	11.8×3	11.8×3
Connection pipe diameter	Liquid	mm	1/2	5/8	5/8	5/8	5/8	3/4
	Discharge Gas		7/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8
	Suction Gas		1 1/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8
Operation range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21
List Price		£	12,032	15,419	18,048	18,612	19,176	19,740

Note: Specifications are based on the following conditions.

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

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

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

When cooling operation will be conducted at outdoor air temperature below -5°C,

the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

26	28	30	32	34	36	38	40	42	44	46	48
											
AJY234GALH	AJY252GALH	AJY270GALH	AJY288GALH	AJY306GALH	AJY324GALH	AJY342GALH	AJY360GALH	AJY378GALH	AJY396GALH	AJY414GALH	AJY432GALH
AJY144GALH AJYA90GALH	AJY144GALH AJY108GALH	AJY144GALH AJY126GALH	AJY144GALH AJY144GALH	AJY108GALH AJY108GALH AJYA90GALH	AJY108GALH AJY108GALH AJY108GALH	AJY144GALH AJY108GALH AJYA90GALH	AJY144GALH AJY108GALH AJY108GALH	AJY144GALH AJY144GALH AJYA90GALH	AJY144GALH AJY144GALH AJY108GALH	AJY144GALH AJY144GALH AJY126GALH	AJY144GALH AJY144GALH AJY144GALH
39	42	45	48	50	53	57	60	63	64	64	64
36.5-109.5	39.3-117.7	42.5-127.5	45.0-135.0	47.5-142.5	50.3-150.7	53.3-159.7	56.0-168.0	59.0-177.0	61.8-185.2	65.0-195.0	67.5-202.5

3-phase 4 wire, 400 V, 50Hz											
73.0	78.5	85.0	90.0	95.0	100.5	106.5	112.0	118.0	123.5	130.0	135.0
81.5	87.5	95.0	100.0	106.5	112.5	119.0	125.0	131.5	137.5	145.0	150.0
20.72	23.36	24.95	27.22	26.61	29.25	30.47	33.11	34.33	36.97	38.56	40.83
20.10	22.39	23.67	25.54	26.57	28.86	29.72	32.01	32.87	35.16	36.44	38.31
3.52	3.36	3.41	3.31	3.57	3.44	3.50	3.38	3.44	3.34	3.37	3.31
4.05	3.91	4.01	3.92	4.01	3.90	4.00	3.91	4.00	3.91	3.98	3.92
13,000+11,100	13,000+11,100	13,000×2	13,000×2	11,100×3	11,100×3	13,000+11,100×2	13,000+11,100×2	13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3
63 / 84	63 / 84	64 / 84.5	64 / 85	63 / 85	64 / 85	64 / 85	65 / 85.5	65 / 86	65 / 86	65 / 86	66 / 87
63 / 85	64 / 86	64 / 86	64 / 86	65 / 87.2	66 / 87	65 / 87	66 / 87.7	65 / 87	66 / 88	66 / 88	66 / 88
80	80	80	80	80	80	80	80	80	80	80	80
11.0+7.5	11.0+7.5	11.0×2	11.0×2	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3
40 + 25	40 + 25	40 + 40	40 + 40	25 + 25 + 25	25 + 25 + 25	40 + 25 + 25	40 + 25 + 25	40 + 40 + 25	40 + 40 + 25	40 + 40 + 40	40 + 40 + 40
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240+930	1,240+930	1,240×2	1,240×2	930×3	930×3	1,240+930×2	1,240+930×2	1,240×2+930	1,240×2+930	1,240×3	1,240×3
765	765	765	765	765	765	765	765	765	765	765	765
286+262	286+262	286×2	286×2	286×3	286×3	286+262×2	286+262×2	286×2+262	286×2+262	286×3	286×3
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
11.8×2	11.8×2	11.8×2	11.8×2	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3
5/8	5/8	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8
1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 3/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8
-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21
17,431	18,897	20,254	21,702	22,672	24,138	25,477	26,943	28,282	29,748	31,105	32,553

32	34	36	38	40	42	44
						
AJY288GALHH	AJY306GALHH	AJY324GALHH	AJY342GALHH	AJY360GALHH	AJY378GALHH	AJY396GALHH
AJY126GALH AJYA90GALH AJYA72GALH	AJY126GALH AJYA90GALH AJYA90GALH	AJY126GALH AJY126GALH AJYA72GALH	AJY126GALH AJY126GALH AJYA90GALH	AJY144GALH AJY126GALH AJYA90GALH	AJY126GALH AJY126GALH AJY126GALH	AJY144GALH AJY126GALH AJY126GALH
48	51	54	57	60	64	64
45.2-135.6	48.0-144.0	51.2-153.6	54.0-162.0	56.5-169.5	60.0-180.0	62.5-187.5
3-phase 4 wire, 400 V, 50Hz						
90.4	96.0	102.4	108.0	113.0	120.0	125.0
101.5	108.0	115.0	121.5	126.5	135.0	140.0
23.90	25.56	28.13	29.79	32.06	34.02	36.29
23.93	25.56	27.50	29.13	31.00	32.70	34.57
3.78	3.76	3.64	3.63	3.52	3.53	3.44
4.24	4.23	4.18	4.17	4.08	4.13	4.05
13,000+11,100×2	13,000+11,100×2	13,000×2+11,100	13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3
63 / 84	64 / 85	64 / 85	64 / 86	65 / 86	65 / 86	65 / 86
64 / 86	65 / 87	65 / 87	65 / 87	65 / 87	66 / 88	66 / 88
80	80	80	80	80	80	80
11.0+7.5×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3
40 + 25 + 20	40 + 25 + 25	40 + 40 + 20	40 + 40 + 25	40 + 40 + 25	40 + 40 + 40	40 + 40 + 40
1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240+930×2	1,240+930×2	1,240×2+930	1,240×2+930	1,240×2+930	1,240×3	1,240×3
765	765	765	765	765	765	765
286+262×2	286+262×2	286×2+262	286×2+262	286×2+262	286×3	286×3
R410A	R410A	R410A	R410A	R410A	R410A	R410A
11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3
3/4	3/4	3/4	3/4	3/4	3/4	3/4
1 1/8	1 1/8	1 1/8	1 3/8	1 3/8	1 3/8	1 3/8
1 3/8	1 3/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8
-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21
21,999	22,563	24,822	25,386	26,834	28,209	29,657

*1: Minimum connectable indoor unit number is 2.

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



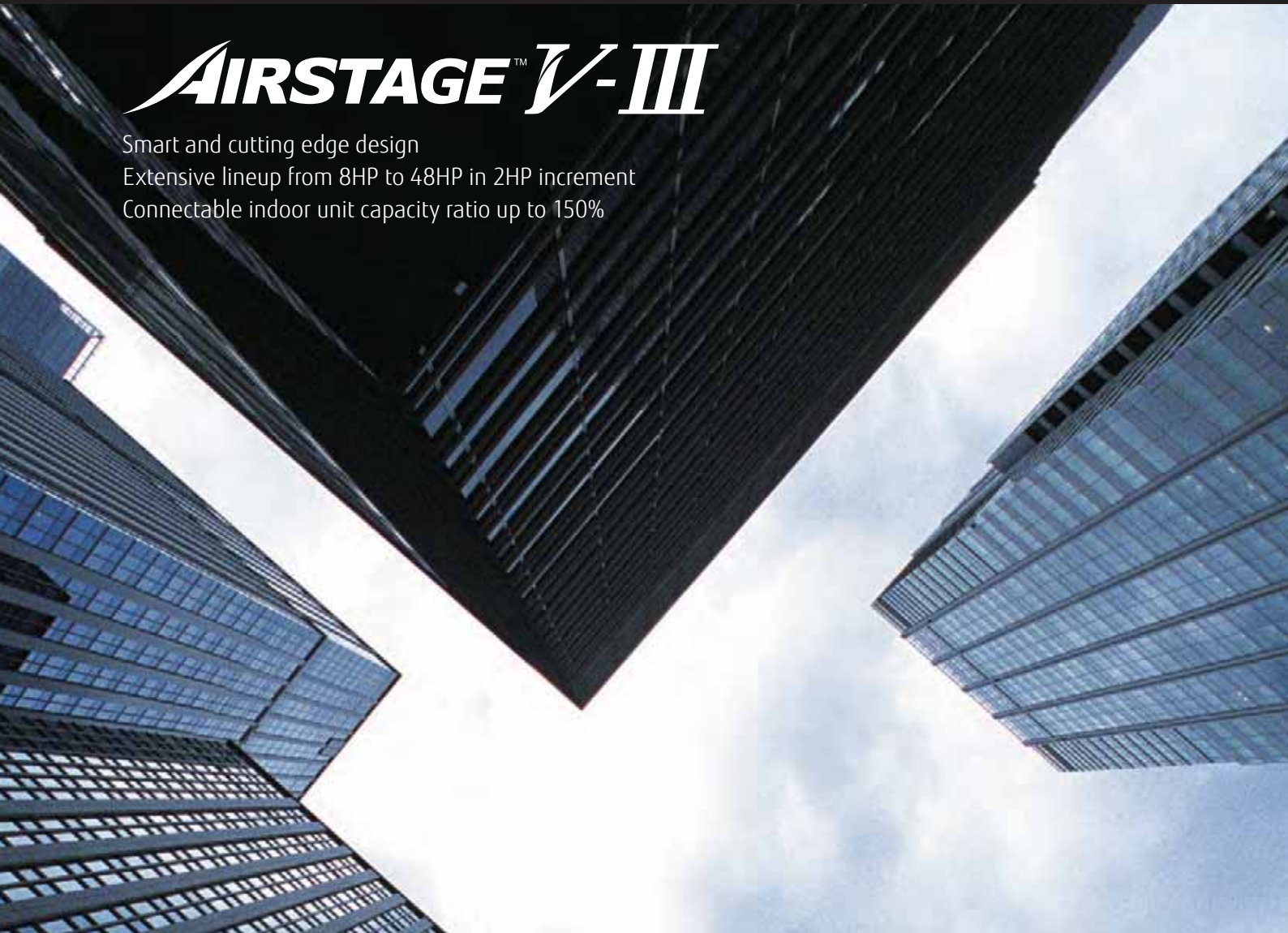
Heat Pump Modular Type

AIRSTAGE™ V-III

Smart and cutting edge design

Extensive lineup from 8HP to 48HP in 2HP increment

Connectable indoor unit capacity ratio up to 150%



System Outline

Excellent energy saving

Heat pump inverter type achieves high energy saving air conditioning for individual cooling and heating operation by inverter technology for seasonal efficiency.

High design flexibility for various building air conditioning

High design flexibility which meets the various needs of high-rise buildings air conditioning. Outdoor unit roof top concentrated installation and each floor installation by large capacity combination, sufficient connection capacity, and high static pressure design.

Easy installation and maintenance

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

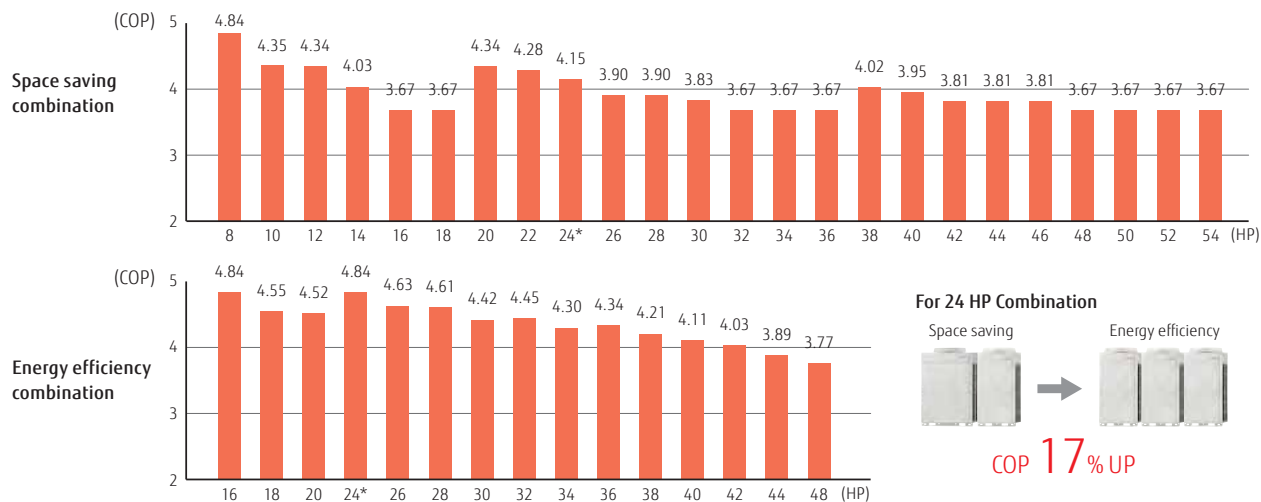


www.eurovent-certification.com
www.certiflash.com



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.



Energy saving technology has 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

Sine-wave DC inverter control

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

Subcool heat exchanger

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

High efficient and large capacity DC inverter compressor

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

3 phase DC fan motor

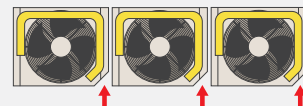
Efficiency is substantially improved by high efficient motor with sophisticated driver control. In addition, low noise is achieved by the DC fan motor.

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.



LARGE VRF

Outdoor units lineup

• Combinations other than the followings are not recommended.

Space saving combination				
22.4 kW (8HP)  AJY072LALBH UNIT : AJY072LALBH	28.0 kW (10HP)  AJY090LALBH UNIT : AJY090LALBH	33.5 kW (12HP)  AJY108LALBH UNIT : AJY108LALBH	40.0 kW (14HP)  AJY126LALBH UNIT : AJY126LALBH	45.0 kW (16HP)  AJY144LALBH UNIT : AJY144LALBH
50.0 kW (18HP)  AJY162LALBH UNIT : AJY162LALBH	56.0 kW (20HP)  AJY180LALBH UNIT : AJY090/090LALBH	62.4 kW (22HP)  AJY198LALBH UNIT : AJY126/072LALBH	68.0 kW (24HP)  AJY216LALBH UNIT : AJY126/090LALBH	73.0 kW (26HP)  AJY234LALBH UNIT : AJY144/090LALBH
78.0 kW (28HP)  AJY252LALBH UNIT : AJY162/090LALBH	85.0 kW (30HP)  AJY270LALBH UNIT : AJY144/126LALBH	90.0 kW (32HP)  AJY288LALBH UNIT : AJY144/144LALBH	95.0 kW (34HP)  AJY306LALBH UNIT : AJY162/144LALBH	100.0 kW (36HP)  AJY324LALBH UNIT : AJY162/162LALBH
106.0 kW (38HP)  AJY342LALBH UNIT : AJY162/090/090LALBH	113.0 kW (40HP)  AJY360LALBH UNIT : AJY144/126/090LALBH	118.0 kW (42HP)  AJY378LALBH UNIT : AJY144/144/090LALBH	123.0 kW (44HP)  AJY396LALBH UNIT : AJY162/144/090LALBH	128.0 kW (46HP)  AJY414LALBH UNIT : AJY162/162/090LALBH
135.0 kW (48HP)  AJY432LALBH UNIT : AJY144/144/144LALBH	140.0 kW (50HP)  AJY450LALBH UNIT : AJY162/144/144LALBH	145.0 kW (52HP)  AJY468LALBH UNIT : AJY162/162/144LALBH	150.0 kW (54HP)  AJY486LALBH UNIT : AJY162/162/162LALBH	
Energy efficiency combination				
44.8 kW (16HP)  AJY144LALBHH UNIT : AJY072/072LALBH	50.4 kW (18HP)  AJY162LALBHH UNIT : AJY090/072LALBH	55.9 kW (20HP)  AJY180LALBHH UNIT : AJY108/072LALBH	67.2 kW (24HP)  AJY216LALBHH UNIT : AJY072/072/072LALBH	72.8 kW (26HP)  AJY234LALBHH UNIT : AJY090/072/072LALBH
78.3 kW (28HP)  AJY252LALBHH UNIT : AJY108/072/072LALBH	84.8 kW (30HP)  AJY270LALBHH UNIT : AJY126/072/072LALBH	89.4 kW (32HP)  AJY288LALBHH UNIT : AJY108/108/072LALBH	95.9 kW (34HP)  AJY306LALBHH UNIT : AJY126/108/072LALBH	100.5 kW (36HP)  AJY324LALBHH UNIT : AJY108/108/108LALBH
107.0 kW (38HP)  AJY342LALBHH UNIT : AJY126/108/108LALBH	113.5 kW (40HP)  AJY360LALBHH UNIT : AJY126/126/108LALBH	120.0 kW (42HP)  AJY378LALBHH UNIT : AJY126/126/126LALBH	125.0 kW (44HP)  AJY396LALBHH UNIT : AJY144/126/126LALBH	130.0 kW (46HP)  AJY414LALBHH UNIT : AJY144/144/126LALBH

8,10HP : AJY072LALBH / AJY090LALBH

12,14,16HP : AJY108LALBH / AJY126LALBH / AJY144LALBH / AJY162LALBH



8, 10 HP

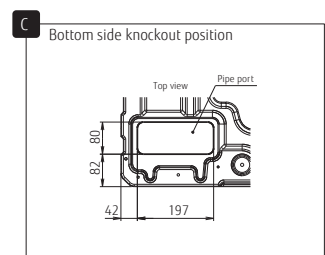
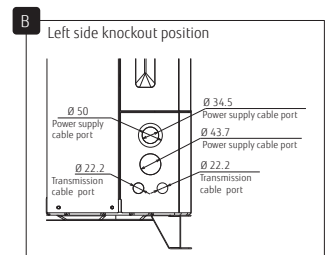
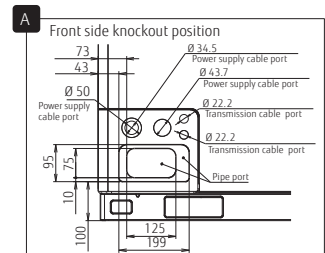
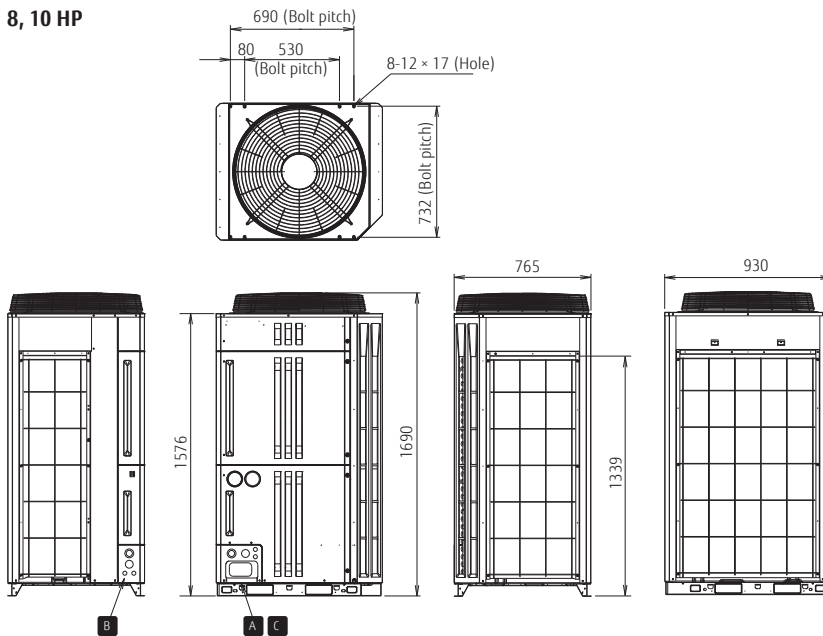


12, 14, 16 HP

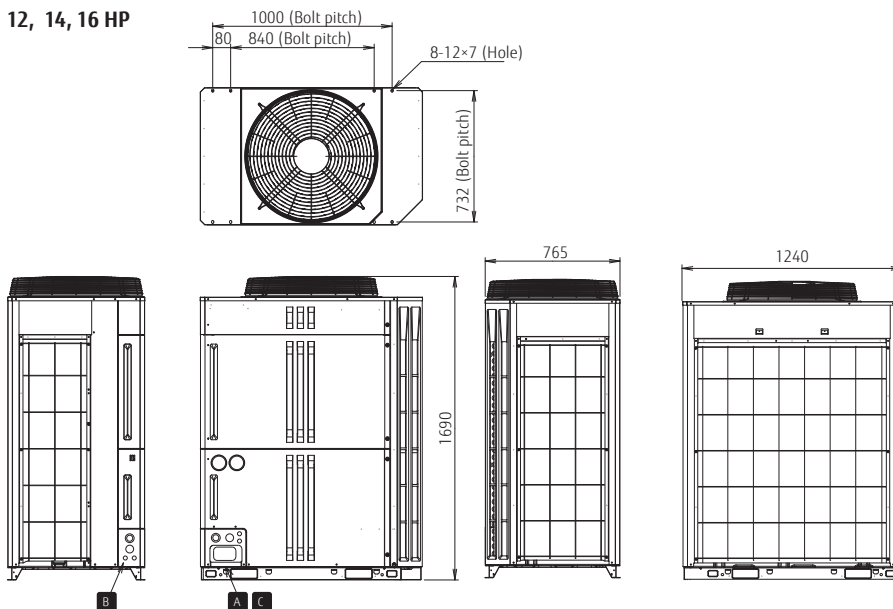
Dimensions

(Unit : mm)

8, 10 HP



12, 14, 16 HP



LARGE VRF

Outdoor units specifications

Space Saving Combination

Rating Capacity range		HP	8	10	12	14	16	18	20	22	24	26	28
													
Set Model name			AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY180LALBH	AJY198LALBH	AJY216LALBH	AJY234LALBH	AJY252LALBH
Unit 1 Unit 2 Unit 3			AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY090LALBH AJY090LALBH	AJY126LALBH AJY072LALBH	AJY126LALBH AJY090LALBH	AJY144LALBH AJY090LALBH	AJY162LALBH AJY090LALBH
Maximum Connectable Indoor Unit*			17	21	26	30	34	39	43	47	52	56	60
Indoor unit connectable capacity		kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.0-67.5	28.0-84.0	31.2-93.6	34.0-102.0	36.5-109.5	39.0-109.5
Power source			3-phase 4 wire, 400 V, 50Hz										
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	62.4	68.0	73.0	78.0
	Heating		25.0	31.5	37.5	45.0	50.0	50.0	63.0	70.0	76.5	81.5	81.5
Input power	Cooling	kW	5.20	7.28	8.96	10.96	13.01	16.56	14.56	16.16	18.24	20.29	23.84
	Heating		5.17	7.25	8.65	11.17	13.63	13.63	14.50	16.34	18.42	20.88	20.88
EER	Cooling	W/W	4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27
COP	Heating	W/W	4.84	4.35	4.34	4.03	3.67	3.67	4.34	4.28	4.15	3.90	3.90
Air flow late	High	m³/h	11,100	11,100	13,000	13,000	13,700	13,700	11,100×2	13,000+11,100	13,000+11,100	13,000+11,100	13,700+11,100
Sound pressure level*2/ Power level	Cooling	dB(A)	56 / 77	58 / 79	57 / 78	60 / 81	62 / 83	63 / 84	61 / 82	61 / 82	62 / 83	63 / 84	64 / 85
	Heating		58 / 80	59 / 81	60 / 83	62 / 83	64 / 86	64 / 86	62 / 84	63 / 85	64 / 86	65 / 87	65 / 87
Maximum external static pressure		Pa	82	82	82	82	82	82	82	82	82	82	82
Compresor motor output		kW	7.5	7.5	11.0	11.0	11.0	11.0	7.5×2	11.0+7.5	11.0+7.5	11.0+7.5	11.0+7.5
Minimum Recomend MCB		Amp	20	25	25	40	40	40	25+25	40+20	40+25	40+25	40+25
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930	930	1,240	1,240	1,240	1,240	930×2	1,240+930	1,240+930	1,240+930	1,240+930
	Depth		765	765	765	765	765	765	765	765	765	765	765
Weight		kg	252	252	275	275	275	275	252×2	275+252	275+252	275+252	275+252
Refrigerant	Type	kg	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge		11.7	11.7	11.8	11.8	11.8	11.8	11.7×2	11.8+11.7	11.8+11.7	11.8+11.7	11.8+11.7
Connection pipe diameter	Liquid	inch	1/2	1/2	1/2	1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8
	Gas		7/8	7/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 3/8	1 3/8	1 3/8	1 3/8
Operation range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
List Price		£	5,757	6,375	7,699	9,022	10,897	12,205	12,750	14,779	15,397	17,272	18,580

Energy Efficiency Combination

Rating Capacity range		HP	16	18	20	24	26	28	30
									
Set Model name			AJY144LALBHH	AJY162LALBHH	AJY180LALBHH	AJY216LALBHH	AJY234LALBHH	AJY252LALBHH	AJY270LALBHH
Unit 1 Unit 2 Unit 3			AJY072LALBH AJY072LALBH	AJY090LALBH AJY072LALBH	AJY108LALBH AJY072LALBH	AJY072LALBH AJY072LALBH AJY072LALBH	AJY090LALBH AJY072LALBH AJY072LALBH	AJY108LALBH AJY072LALBH AJY072LALBH	AJY126LALBH AJY072LALBH AJY072LALBH
Maximum Connectable Indoor Unit*			34	39	43	52	56	60	64
Indoor unit connectable capacity		kW	22.4-67.2	25.2-75.6	28.0-83.8	33.6-100.8	36.4-109.2	39.2-117.4	42.4-127.2
Power source			3-phase 4 wire, 400 V, 50Hz						
Capacity	Cooling	kW	44.8	50.4	55.9	67.2	72.8	78.3	84.8
	Heating		50.0	56.5	62.5	75.0	81.5	87.5	95.0
Input power	Cooling	kW	10.40	12.48	14.16	15.60	17.68	19.36	21.36
	Heating		10.34	12.42	13.82	15.51	17.59	18.99	21.51
EER	Cooling	W/W	4.31	4.04	3.95	4.31	4.12	4.04	3.97
COP	Heating	W/W	4.84	4.55	4.52	4.84	4.63	4.61	4.42
Air flow late	High	m³/h	11,100×2	11,100×2	13,000+11,100	11,100×3	11,000×3	13,000+11,100×2	13,000+11,100×2
Sound pressure level*2/ Power level	Cooling	dB(A)	59 / 80	60 / 81	60 / 81	61 / 82	62 / 83	61 / 82	63 / 84
	Heating		61 / 83	62 / 84	62 / 85	63 / 85	63 / 85	64 / 86	65 / 87
Maximum external static pressure		Pa	82	82	82	82	82	82	82
Compresor motor output		kW	7.5×2	7.5×2	11.0+7.5	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2
Minimum Recomend MCB		Amp	20+20	25+20	40+20	20+20+20	25+20+20	40+20+20	40+20+20
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930×2	930×2	1,240+930	930×3	930×3	1,240+930×2	1,240+930×2
	Depth		765	765	765	765	765	765	765
Weight		kg	252×2	252×2	275+252	252×3	252×3	275+252×2	275+252×2
Refrigerant	Charge	kg	R410A	R410A	R410A	R410A	R410A	R410A	R410A
	Charge		11.7×2	11.7×2	11.8+11.7	11.7×3	11.7×3	11.8+11.7×2	11.8+11.7×2
Connection pipe diameter	Liquid	Inch	1/2	5/8	5/8	5/8	5/8	5/8	3/4
	Gas		1 1/8	1 1/8	1 1/8	1 3/8	1 3/8	1 3/8	1 3/8
Operation range	Cooling	°CDB	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
List Price		£	11,514	12,132	13,456	17,271	17,889	19,213	20,536

Note : Specifications are based on the following conditions.

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

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

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

When cooling operation will be conducted at outdoor air temperature below -5°C,

the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

30	32	34	36	38	40	42	44	46	48	50	52	54
												
AJY270LALBH	AJY288LALBH	AJY306LALBH	AJY324LALBH	AJY342LALBH	AJY360LALBH	AJY378LALBH	AJY396LALBH	AJY414LALBH	AJY432LALBH	AJY450LALBH	AJY468LALBH	AJY486LALBH
AJY144LALBH AJY126LALBH	AJY144LALBH AJY144LALBH	AJY162LALBH AJY144LALBH	AJY162LALBH AJY162LALBH	AJY162LALBH AJY090LALBH AJY090LALBH	AJY144LALBH AJY126LALBH AJY090LALBH	AJY144LALBH AJY144LALBH AJY090LALBH	AJY162LALBH AJY144LALBH AJY090LALBH	AJY162LALBH AJY162LALBH AJY090LALBH	AJY144LALBH AJY144LALBH AJY144LALBH	AJY162LALBH AJY144LALBH AJY144LALBH	AJY162LALBH AJY162LALBH AJY144LALBH	AJY162LALBH AJY162LALBH AJY162LALBH
64	64	64	64	64	64	64	64	64	64	64	64	64
42.5-127.5	45.0-135.0	47.5-135.0	50.0-135.0	53.0-151.5	56.5-169.5	59.0-177.0	61.5-177.0	64.0-177.0	67.5-202.5	70.0-202.5	72.5-202.5	75.0-202.5

3-phase 4 wire, 400 V, 50Hz

85.0	90.0	95.0	100.0	106.0	113.0	118.0	123.0	128.0	135.0	140.0	145.0	150.0
95.0	100.0	100.0	100.0	113.0	126.5	131.5	131.5	131.5	150.0	150.0	150.0	150.0
23.97	26.02	29.57	33.12	31.12	31.25	33.30	36.85	40.40	39.03	42.58	46.13	49.68
24.80	27.26	27.26	27.26	28.13	32.05	34.51	34.51	34.51	40.89	40.89	40.89	40.89
3.55	3.46	3.21	3.02	3.41	3.62	3.54	3.34	3.17	3.46	3.29	3.14	3.02
3.83	3.67	3.67	3.67	4.02	3.95	3.81	3.81	3.81	3.67	3.67	3.67	3.67
13,700+13,000	13,700×2	13,700×2	13,700×2	13,700+11,100×2	13,700+13,000+11,100	13,700×2+11,100	13,700×2+11,100	13,700×2+11,100	13,700×3	13,700×3	13,700×3	13,700×3
64 / 85	65 / 86	66 / 87	66 / 87	65 / 86	65 / 86	66 / 87	66 / 87	67 / 87	67 / 88	67 / 88	67 / 88	68 / 89
66 / 88	67 / 89	67 / 89	67 / 89	66 / 86	67 / 89	68 / 90	68 / 90	68 / 90	69 / 91	69 / 91	69 / 91	69 / 91
82	82	82	82	82	82	82	82	82	82	82	82	82
11.0×2	11.0×2	11.0×2	11.0×2	11.0×7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3
40+40	40+40	40+40	40+40	40+25+25	40+40+25	40+40+25	40+40+25	40+40+25	40+40+40	40+40+40	40+40+40	40+40+40
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240×2	1,240×2	1,240×2	1,240×2	1,240+930×2	1,240×2+930	1,240×2+930	1,240×2+930	1,240×2+930	1,240×3	1,240×3	1,240×3	1,240×3
765	765	765	765	765	765	765	765	765	765	765	765	765
275×2	275×2	275×2	275×2	275+252×2	275×2+252	275×2+252	275×2+252	275×2+252	275×3	275×3	275×3	275×3
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
11.8×2	11.8×2	11.8×2	11.8×2	11.8+11.7×2	11.8×2+11.7	11.8×2+11.7	11.8×2+11.7	11.8×2+11.7	11.8×3	11.8×3	11.8×3	11.8×3
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1 3/8	1 3/8	1 3/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8
-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
19,919	21,794	23,102	24,410	24,955	26,294	28,169	29,477	30,785	32,691	33,999	35,307	36,615

32	34	36	38	40	42	44	46
							
AJY288LALBHH	AJY306LALBHH	AJY324LALBHH	AJY342LALBHH	AJY360LALBHH	AJY378LALBHH	AJY396LALBHH	AJY414LALBHH
AJY108LALBH AJY108LALBH AJY072LALBH	AJY126LALBH AJY108LALBH AJY072LALBH	AJY108LALBH AJY108LALBH AJY108LALBH	AJY126LALBH AJY108LALBH AJY108LALBH	AJY126LALBH AJY126LALBH AJY108LALBH	AJY126LALBH AJY126LALBH AJY126LALBH	AJY144LALBH AJY126LALBH AJY126LALBH	AJY144LALBH AJY144LALBH AJY126LALBH
64	64			64	64	64	64
44.7-134.1	48.0-143.8	50.3-150.7	53.5-160.5	56.8-170.2	60.0-180.0	62.5-187.5	65.0-195.0

3-phase 4 wire, 400 V, 50Hz

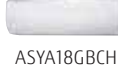
89.4	95.9	100.5	107.0	113.5	120.0	125.0	130.0
100.0	107.5	112.5	120.0	127.5	135.0	140.0	145.0
23.12	25.12	26.88	28.88	30.88	32.88	34.93	36.98
22.47	24.99	25.95	28.47	30.99	33.51	35.97	38.43
3.87	3.82	3.74	3.70	3.68	3.65	3.58	3.52
4.45	4.30	4.34	4.21	4.11	4.03	3.89	3.77
13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3	13,000×3	13,000×3	13,700+13,000×2	13,700×2+13,000
61 / 82	63 / 84	63 / 83	64 / 84	64 / 85	65 / 86	66 / 87	66 / 87
64 / 87	65 / 88	65 / 88	65 / 88	66 / 88	67 / 89	68 / 90	68 / 90
82	82	82	82	82	82	82	82
11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3
40+40+20	40+40+20	40+40+40	40+40+40	40+40+40	40+40+40	40+40+40	40+40+40
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240×2+930	1,240×2+930	1,240×3	1,240×3	1,240×3	1,240×3	1,240×3	1,240×3
765	765	765	765	765	765	765	765
275×2+252	275×2+252	275×3	275×3	275×3	275×3	275×3	275×3
R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
11.8×2+11.7	11.8×2+11.7	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3
3/4	3/4	3/4	3/4	3/4	3/4	3/4	3/4
1 3/8	1 3/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8	1 5/8
-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
21,155	22,478	23,097	24,420	25,743	27,066	28,941	30,816

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

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

PRODUCTS LINEUP

VRF Indoor Units

Capacity range (kW)		1.1	2.2	2.8	3.6	4.5	5.6
Model code		4	7	9	12	14	18
Cassette	Compact	 AUXB04GBLH	 AUXB07GALH	 AUXB09GALH	 AUXB12GALH	 AUXB14GALH	 AUXB18GALH
	4-way Flow (Low height)						 AUXD18GALH
	4-way Flow (Standard height)						
	 Circular Flow						 AUXK018GLAH
Duct	Bulkhead Unit (With drain pump)		 ARXK07GCLH	 ARXK09GCLH	 ARXK12GCLH		
	Slim Duct (With drain pump)	 ARXD04GALH	 ARXD07GALH	 ARXD09GALH	 ARXD12GALH	 ARXD14GALH	 ARXD18GALH
	Medium Static Pressure Duct						
	High Static Pressure Duct						
Floor	 Compact Floor		 AGYA007GCAH	 AGYA009GCAH	 AGYA012GCAH	 AGYA014GCAH	
	Floor (*Same as Ceiling models)				 ABYA12GATH	 ABYA14GATH	 ABYA18GATH
	Slim Concealed Floor (*Same as Slim Duct models)	 ARXD04GALH	 ARXD07GALH	 ARXD09GALH	 ARXD12GALH	 ARXD14GALH	 ARXD18GALH
Ceiling					 ABYA12GATH	 ABYA14GATH	 ABYA18GATH
Wall Mounted	Wall Mounted	 ASYA04GACH	 ASYA07GACH	 ASYA09GACH	 ASYA12GACH	 ASYA14GACH	 ASYA18GACH
	Wall Mounted (EEV external)	 ASYE04GACH	 ASYE07GACH	 ASYE09GACH	 ASYE12GACH	 ASYE14GACH	
	 Wall Mounted		 ASYA07GTAH	 ASYA09GTAH			 ASYA18GBCH

With this model, connection of EV kit is necessary.



7.1 24	9.0 30	10.0 34	11.2 36	12.5 45	14.0 54	18.0 60	22.4 72	25.0 90	28.0 96
 AUXB24GALH									
 AUXD24GALH									
	 AUXA30GALH		 AUXA36GALH	 AUXA45GALH	 AUXA54GALH				
 AUXK024GLAH	 AUXK030GLAH		 AUXK036GLAH	 AUXK045GLAH	 AUXK054GLAH				
 ARXD24GALH									
 ARXA24GBLH	 ARXA30GBLH		 ARXA36GBLH	 ARXA45GBLH					
			 ARXC36GBTH	 ARXC45GATH		 ARXC60GATH	 ARXC72GBTH	 ARXC90GBTH	 ARXC96GATH
 ABYA24GATH									
 ARXD24GALH									
 ABYA24GATH	 ABYA30GATH		 ABYA36GATH	 ABYA45GATH	 ABYA54GATH				
 ASYA24GACH	 ASYA30GACH								
 ASYA24GBTH	 ASYA30GTAH	 ASYA34GTAH							

Indoor Units for VRF Specifications

AIRSTAGE™

Wall Mounted



Model name			ASYA04GACH	ASYA07GACH	ASYA09GACH	ASYA12GACH	ASYA14GACH	ASYE04GACH	ASYE07GACH	ASYE09GACH	ASYE12GACH	ASYE14GACH	
Power source			Single-phase, ~230V, 50Hz					Single-phase, ~230V, 50Hz					
Capacity	UK Total Cooling	kW	0.80	1.60	2.10	2.70	3.30	0.80	1.60	2.10	2.70	3.30	
	UK Sensible Cooling		0.70	1.60	1.90	2.30	2.80	0.70	1.60	1.90	2.30	2.80	
	UK Heating		1.20	2.60	3.00	3.80	4.70	1.20	2.60	3.00	3.80	4.70	
	Nominal Cooling		1.10	2.20	2.80	3.60	4.50	1.10	2.20	2.80	3.60	4.50	
	Nominal Heating		1.30	2.80	3.20	4.10	5.00	1.30	2.80	3.20	4.10	5.00	
Input power		W	13	17	18	22	34	12	15	16	21	34	
Airflow rate	High	m³/h	450	490	500	560	670	450	490	500	560	680	
	Med		370/440 htg/clg ^u	450	450	480	490	370/440 htg/clg ^u	450	450	480	490	
	Low		320/420 htg/clg ^u	370/420 htg/clg ^u	370/420 htg/clg ^u	420	420	300/420 htg/clg ^u	370/420 htg/clg ^u	370/420 htg/clg ^u	420	420	
Sound pressure level	High	dB(A)	33	35	36	39	44	32	34	35	38	43	
	Med		27/32 htg/clg ^u	33	33	35	37	26/31 htg/clg ^u	32	32	34	35	
	Low		22/31 htg/clg ^u	27/31 htg/clg ^u	27/31 htg/clg ^u	31	32	19/30 htg/clg ^u	26/30 htg/clg ^u	26/30 htg/clg ^u	30	30	
Dimensions (H × W × D)			mm	275 × 790 × 215					275 × 790 × 215				
Weight			kg	9					9				
Connection pipe diameter	Liquid (Flare)	Inch	1/4					1/4					
	Gas (Flare)		1/2					1/2					
EV Kit (option)				-					UTR-EV09XB		UTR-EV14XB		
List Price			£	546	546	557	572	593	576	576	588	603	625

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			Single-phase, ~230V, 50Hz		
Capacity	UK Total Cooling	kW	4.20	5.30	5.90
	UK Sensible Cooling		3.50	4.60	5.10
	UK Heating		5.90	7.40	8.40
	Nominal Cooling		5.60	7.10	8.00
	Nominal Heating		6.30	8.00	9.00
Input power		W	32	60	91
Airflow rate	High	m³/h	840	1,100	1,240
	Med		770	910	980
	Low		690	730	770
Sound pressure level	High	dB(A)	41	48	52
	Med		39	43	45
	Low		35	35	35
Dimensions (H × W × D)		mm	320 × 998 × 228		
Weight		kg	15		
Connection pipe diameter	Liquid (Flare)	Inch	3/8		
	Gas (Flare)		5/8		
List Price		£	617	677	739

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].

4-way Compact Cassette



Model name			AUXB04GALH	AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH	AUXB18GALH	AUXB24GALH
Power source			Single-phase, ~230V, 50Hz						
Capacity	UK Total Cooling	kW	0.80	1.60	2.10	2.70	3.30	4.20	5.30
	UK Sensible Cooling		0.70	1.50	1.70	2.30	2.70	3.20	4.40
	UK Heating		1.20	2.60	3.00	3.80	4.70	5.90	7.40
	Nominal Cooling		1.10	2.20	2.80	3.60	4.50	5.60	7.10
	Nominal Heating		1.30	2.80	3.20	4.10	5.00	6.30	8.00
Input power		W	23	25	25	29	35	36	84
Airflow rate	High	m³/h	530	540	550	600	680	710	1,030
	Med		420/450 htg/clg*1	450	450	530	590	580	830
	Low		300/350 htg/clg*1	350	350	390	390	400	450
Sound pressure level	High	dB(A)	34	34	35	37	38	41	50
	Med		28/30 htg/clg*1	30	30	34	34	35	44
	Low		21/25 htg/clg*1	25	25	27	27	27	30
Dimensions (H × W × D)		mm	245 × 570 × 570 (Grille 50 × 700 × 700)						
Weight		kg	15 (Grille 2.6)						17 (Grille 2.6)
Connection pipe diameter	Liquid (Flare)	Inch	1/4						3/8
	Gas (Flare)		1/2						5/8
Cassette Grille		Model name	UTG-UFYC-W						
List Price		£	909	909	925	948	1001	1040	1135

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.

4-way Cassette



Model name			AUXD18GALH	AUXD24GALH	AUXA30GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH
Power source			Single-phase, ~230V, 50Hz					
Capacity	UK Total Cooling	kW	4.20	5.30	6.70	8.30	9.30	10.40
	UK Sensible Cooling		3.90	4.80	6.00	7.10	7.70	8.40
	UK Heating		5.90	7.40	9.30	11.60	13.00	14.90
	Nominal Cooling		5.60	7.10	9.00	11.20	12.50	14.00
	Nominal Heating		6.30	8.00	10.00	12.50	14.00	16.00
Input power		W	39	46	59	80	99	119
Airflow rate	High	m³/h	1,150	1,280	1,600	1,800	1,900	2,000
	Med		940	1,040	1,300	1,300	1,370	1,370
	Low		870	870	1,100	1,100	1,100	1,100
Sound pressure level	High	dB(A)	36	38	40	44	46	47
	Med		30	33	38	38	39	39
	Low		29	29	33	33	33	33
Dimensions (H × W × D)		mm	246 × 840 × 840 (Grille 50 × 950 × 950)		288 × 840 × 840 (Grille 50 × 950 × 950)			
Weight		kg	22 (Grille 5.5)			27 (Grille 5.5)		
Connection pipe diameter	Liquid (Flare)	Inch	5/8			3/8		
	Gas (Flare)							
Cassette Grille		Model name	UTG-UGYA-W					
List Price		£	989	1061	1126	1285	1365	1439

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.

Indoor Units for VRF Specifications

Bulkhead Duct



Model name			ARXK07GCLH	ARXK09GCLH	ARXK12GCLH
Power source			Single-phase, ~230V, 50Hz		
Capacity	UK Total Cooling	kW	1.60	2.10	2.70
	UK Sensible Cooling		1.50	1.80	2.30
	UK Heating		2.60	3.00	3.70
	Nominal Cooling		2.20	2.80	3.60
	Nominal Heating		2.80	3.20	4.00
Input power		W	28	35	
Airflow rate	High	m³/h	460	460	550
	Med		420	420	480
	Low		370	370	410
Static pressure range		Pa	0 to 30	0 to 30	0 to 30
Standard static pressure			10	10	10
Sound pressure level	High	dB(A)	26	26	29
	Med		24	24	26
	Low		22	22	24
Dimensions (H × W × D)		mm	198 × 700 × 450		
Weight		kg	15.5		16
Connection pipe diameter	Liquid (Flare)	Inch	1/4		
	Gas (Flare)		1/2		
List Price		£	641	656	746

Note : Specifications are based on the following conditions.

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

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

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

Slim Duct / Slim Concealed Floor



Model name			ARXD04GALH	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH	ARXD18GALH	ARXD24GALH	
Power source			Single-phase, ~230V, 50Hz							
Capacity	UK Total Cooling	kW	0.80	1.60	2.10	2.70	3.30	4.20	5.30	
	UK Sensible Cooling		0.70	1.50	1.80	2.30	2.90	3.50	4.90	
	UK Heating		1.20	2.60	3.00	3.70	4.70	5.90	7.40	
	Nominal Cooling		1.10	2.20	2.80	3.60	4.50	5.60	7.10	
	Nominal Heating		1.30	2.80	3.20	4.00	5.00	6.30	8.00	
Input power		W	40	44	50	54	92	83	122	
Airflow rate	High	m³/h	510	550	600	600	800	940	1,330	
	Med		400/470 htg/clg ^{*†}	490	550	510	710	840	1,240	
	Low		320/440 htg/clg ^{*†}	440	480	450	610	750	1,100	
Static pressure range		Pa	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 50	
Standard static pressure			25	25	25	25	25	25	25	
Sound pressure level	High	dB(A)	26	28	29	30	34	34	35	
	Med		21/25 htg/clg ^{*†}	25	26	27	32	32	32	
	Low		20/22 htg/clg ^{*†}	22	24	24	28	28	29	
Dimensions (H × W × D)		mm	198 × 700 × 620						198 × 900 × 620	198 × 1,100 × 620
Weight		kg	17				18		22	18
Connection pipe diameter	Liquid (Flare)	Inch	1/4				3/8			
	Gas (Flare)		1/2				5/8			
List Price		£	674	674	691	785	828	879	918	

Note : Specifications are based on the following conditions.

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

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

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

*1: This value is under cooling operation.

Medium Static Pressure Duct



Model name			ARXA24GBLH	ARXA30GBLH	ARXA36GBLH	ARXA45GBLH
Power source			Single-phase, ~230V, 50Hz			
Capacity	UK Total Cooling	kW	5.30	6.70	8.30	9.30
	UK Sensible Cooling		4.70	5.60	7.00	7.90
	UK Heating		7.40	9.30	11.60	13.00
	Nominal Cooling		7.10	9.00	11.20	12.50
	Nominal Heating		8.00	10.00	12.50	14.00
Input power		W	94	108	194	240
Airflow rate	High	m³/h	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	0 to 150	0 to 150	0 to 150
Standard static pressure			40	50	50	60
Sound pressure level	High	dB(A)	31	34	37	41
	Med		27	32	35	38
	Low		23	29	33	36
Dimensions (H × W × D)		mm	270 × 1,135 × 700			
Weight		kg	36	40		
Connection pipe diameter	Liquid (Flare)	Inch	3/8			
	Gas (Flare)		5/8			
List Price		£	876	999	1125	1251

Note : Specifications are based on the following conditions.

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

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

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].



High Static Pressure Duct



Model name			ARXC36GBTH	ARXC45GATH	ARXC60GATH*	ARXC72GBTH	ARXC90GATH	ARXC96GATH
Power source			Single-phase, ~230V, 50Hz					
Capacity	UK Total Cooling	kW	8.3	9.3	13.4	16.6	18.6	20.8
	UK Sensible Cooling		7.4	9.2	12.2	15.1	15.6	16.7
	UK Heating		11.6	13.0	18.6	23.3	26.0	29.3
	Nominal Cooling		11.2	12.5	18.0	22.4	25.0	28.0
	Nominal Heating		12.5	14.0	20.0	25.0	28.0	31.5
Input power		W	207	715	730	681	819	838
Airflow rate	High	m³/h	1,990	3,500	3,500	3,900	4,300	4,850
	Med		1,680	3,000	3,000	3,300	4,000	4,250
	Low		1,330	2,460	2,460	3,000	3,500	3,600
Static pressure range		Pa	0 to 200	100 to 250	100 to 250	0 to 300	0 to 300	0 to 300
Standard static pressure			100	100	100	150	150	150
Sound pressure level	High	dB(A)	42	49	49	47	48	48
	Med		36	45	45	43	46	45
	Low		32	42	42	40	44	42
Net Dimensions (H × W × D)		mm	400 × 1,050 × 500			450 × 1,587 × 700		550 × 1,587 × 700
Weight		kg	40	46		84		105
Connection pipe diameter	Liquid	inch	3/8 (Flare)			1/2 (Brazing)		
	Gas		3/4 (Flare)			7/8 (Brazing)		
List Price		£	1324	1500	1650	1815	1957	2116

Note : Specifications are based on the following conditions.

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

Floor/Ceiling



Model name			ABYA12GATH	ABYA14GATH	ABYA18GATH	ABYA24GATH	
Power source			Single-phase, ~230V, 50Hz				
Capacity	UK Total Cooling	kW	2.70	3.30	4.20	5.30	
	UK Sensible Cooling		2.40	3.00	3.80	4.20	
	UK Heating		3.70	4.70	5.90	7.40	
	Nominal Cooling		3.60	4.50	5.60	7.10	
	Nominal Heating		4.00	5.00	6.30	8.00	
Input power		W	30	42	74	99	
Airflow rate	High	m³/h	660	780	1,000	1,000	
	Med		570	640	720	820	
	Low		490	550	580	680	
Sound pressure level	High	dB(A)	36	40	46	47	
	Med		32	36	39	42	
	Low		28	34	35	37	
Dimensions (H × W × D)		mm	199 × 990 × 655				
Weight		kg	25	26	26	27	
Connection pipe diameter	Liquid (Flare)	Inch	1/4			3/8	
	Gas (Flare)		1/2			5/8	
List Price			£	880	921	978	1020

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			Single-phase, ~230V, 50Hz				
Capacity	UK Total Cooling	kW	6.70	8.30	9.30	10.40	
	UK Sensible Cooling		6.10	6.90	7.90	8.90	
	UK Heating		9.30	11.60	13.00	14.90	
	Nominal Cooling		9.00	11.20	12.50	14.00	
	Nominal Heating		10.00	12.50	14.00	16.00	
Input power		W	66	85	131	180	
Airflow rate	High	m³/h	1,630	1,690	2,010	2,270	
	Med		1,370	1,400	1,600	1,780	
	Low		1,140	1,170	1,230	1,280	
Sound pressure level	High	dB(A)	42	45	48	51	
	Med		38	38	42	45	
	Low		33	34	35	36	
Dimensions (H × W × D)		mm	240 × 1,660 × 700				
Weight		kg	46	48			
Connection pipe diameter	Liquid (Flare)	Inch	3/8	3/8			
	Gas (Flare)		5/8	3/4			
List Price			£	1141	1259	1907	2552

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].

NEW Indoor Units for VRF Specifications

Circular Flow Cassette

NEW



Model name			AUXK018GLAH	AUXK024GLAH	AUXK030GLAH	AUXK036GLAH	AUXK045GLAH	AUXK054GLAH
Power source			Single-phase, ~230V, 50Hz					
Capacity	UK Total Cooling	kW	4.20	5.30	6.70	8.30	9.30	10.40
	UK Sensible Cooling		3.30	4.40	5.30	6.70	7.60	8.70
	UK Heating		5.90	7.40	9.30	11.60	13.00	14.90
	Nominal Cooling		5.60	7.10	9.00	11.20	12.50	14.00
	Nominal Heating		6.30	8.00	10.00	12.50	14.00	16.00
Input power		W	40	40	47	61	89	116
Airflow rate	High	m³/h	1,420	1,420	1,440	1,620	1,820	2,040
	Med-H		1,360	1,360	1,440	1,500	1,590	1,800
	Med		1,300	1,300	1,340	1,400	1,500	1,590
	Med-L		1,270	1,270	1,300	1,340	1,400	1,440
	Low		1,200	1,200	1,280	1,280	1,300	1,300
	Quiet		1,150	1,150	1,150	1,150	1,150	1,150
Sound pressure level	High	dB(A)	38	38	39	41	44	47
	Med-H		37	37	38	40	42	45
	Med		36	36	37	38	40	42
	Med-L		35	35	36	37	38	39
	Low		34	34	35	36	36	36
	Quiet		33	33	33	33	33	33
Dimensions (H × W × D)		mm	288 x 840 x 840 (Grille 53 × 950 × 950)					
Weight		kg	26.5 (Grille 6.0)		29.5 (Grille 6.0)			
Connection pipe diameter	Liquid (Flare)	Inch	3/8					
	Gas (Flare)		5/8					
Cassette Grille		Model name	UTG-UKYC-W					
List Price		£	1096	1162	1253	1492	1588	1592

Note : Specifications are based on the following conditions.

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

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

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

When AUX*018GLAH is connected to the outdoor unit other than J-III, pipe diameter should be 3/8 & 5/8 (Liq/Gas)

When AUXK036GLAH, AUXK045GLAH, and AUXK054GLAH are connected to the outdoor unit other than J-III, gas pipe diameter should be 3/4

Wall Mounted

NEW



Model name		ASYA007GTAH	ASYA009GTAH	ASYA18GBCH	ASYA24GBCH	ASYA030GTAH	ASYA034GTAH
Power source		Single-phase, ~230V, 50Hz					
Capacity	UK Total Cooling	kW	1.60	2.10	4.20	5.30	7.40
	UK Sensible Cooling		1.60	1.90	3.90	4.80	6.50
	UK Heating		2.60	3.00	5.90	7.40	10.40
	Nominal Cooling		2.20	2.80	5.60	7.10	10.00
	Nominal Heating		2.80	3.20	6.30	8.00	11.20
Input power		W	19	34	32	60	74
Airflow rate	High	m³/h	550	720	840	1,100	1,440
	Med-H		460	570	-	-	1,200
	Med		420	500	770	910	1,050
	Med-L		390	410	-	-	940
	Low		360	360	690	730	890
	Quiet		330	330	-	-	700
Sound pressure level	High	dB(A)	35	43	41	48	53
	Med-H		32	38	-	-	49
	Med		30	34	39	43	45
	Med-L		27	29	-	-	42
	Low		24	24	35	35	39
	Quiet		22	22	-	-	33
Dimensions (H × W × D)		mm	262 x 820 x 206		320 x 998 x 238		340 x 1,150 x 280
Weight		kg	7.5		15		18
Connection pipe diameter	Liquid (Flare)	Inch	1/4		3/8		
	Gas (Flare)		3/8		5/8		
List Price		£	572	583	647	707	772
							873

Note : Specifications are based on the following conditions.

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

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

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].

When ASYA18GBCH is connected to the outdoor unit other than J-III, pipe diameter should be 3/8 & 5/8 (Liq/Gas).

• When ASY*007GTAH, ASY*009GTAH are connected to the outdoor unit other than J-III, gas pipe diameter should be 1/2.



Compact Floor

NEW

Model name		AGYA007GCAH	AGYA009GCAH	AGYA012GCAH	AGYA014GCAH
Power source		Single-phase, ~230V, 50Hz			
Capacity	UK Total Cooling	1.60	2.10	2.70	3.00
	UK Sensible Cooling	1.40	1.70	2.30	2.50
	UK Heating	2.60	3.00	3.70	4.20
	Nominal Cooling	2.20	2.80	3.60	4.00
	Nominal Heating	2.80	3.20	4.00	4.50
Input power		W	16	17	22
Airflow rate	High	470	500	590	670
	Med-H	420	450	520	590
	Med	390	400	470	520
	Med-L	360	360	420	450
	Low	330	330	390	390
Sound pressure level	Quiet	270	270	340	340
	High	37	38	42	46
	Med-H	35	36	39	42
	Med	33	34	37	39
	Med-L	31	31	35	36
Sound pressure level	Low	29	29	33	33
	Quiet	22	22	30	30
Dimensions (H x W x D)		mm	600 x 740 x 200		
Weight		kg	15		
Connection pipe diameter	Liquid (Flare)	Inch	1/4		
	Gas (Flare)	Inch	3/8		
List Price		£	525	555	636
					728

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
 Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
 Voltage : 230 [V].
 When AGY*007GCAH, and AGY*009GCAH are connected to the outdoor unit other than J-III, gas pipe diameter should be 1/2.



Linwood now offer an extensive range of plenum boxes to suit the Fujitsu General Air Conditioning UK range of ducted air conditioning indoor units

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VRF CONTROLS & Options SYSTEM

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SMALL VRF
For Light Commercial



LARGE VRF
For Commercial

LIGHT COMMERCIAL/COMMERCIAL

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

Air Conditioning Individual Control



NEW
Wired Remote Controller
(Touch panel)
UTY-RNRYZ2



Wired Remote Controller
UTY-RLRY



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



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



Wireless Remote Controller
UTY-LNHY



For Duct



For Cassette

IR Receiver Unit
UTB-YWC For Duct type
UTY-LRHYB1 For Cassette type
UTY-LBTYC For Circular Flow Cassette

Air Conditioning Centralised Control



USB Adaptor*1
(Locally purchased)



Internet or
Public
Telephone
Line



Remote/
Monitoring side



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

Max.
Controllable
1600*
indoor units

*: Lite edition is max. controllable 400 indoor units



Touch Panel Controller
UTY DTGY
NEW UTY-DTGYZ1

Max.
Controllable
400
indoor units



Central Remote Controller
UTY-DCGY

Max.
Controllable
100
indoor units



Group Remote Controller
UTY-CGGY

Max.
Controllable
8
Remote
Controller
Groups



Network Converter
UTY-VGGXZ1



For Light Commercial
• Small VRF



For Commercial
• Large VRF



Converter / Adaptor For external device

NEW

BACnet® Gateway

UTY-ABGXZ1 **Software**

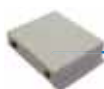
USB Adaptor*1 Required

UTY-VBGX **Hardware**



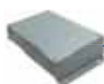
Network Converter
(BMS / LONWORKS®)

UTY-VLGX



MODBUS® Converter

UTY-VMGX



MODBUS® Interface For single indoor unit

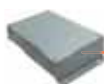
FJ-RC-MBS-1



NEW

KNX® Converter For VRF system

UTY-VKGX



KNX® Interface For single indoor unit

FJ-RC-KNX-1i



Wireless LAN Interface

FJ-RC-WIFI-1



NEW

External Switch Controller

UTY-TERX



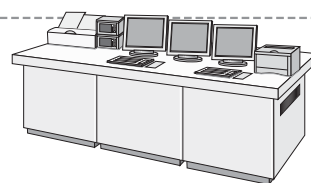
Card-key
(Locally purchased)



Internet device



BMS*2



BMS*2 or Home automation system



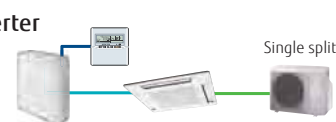
*1. USB Adaptor: Echelon® U10 USB Network Interface
*2. BMS: Building Management System

Converter/Adaptor For system expansion

Network Converter

for single split

UTY-VTGX



Network Converter

(AC power supply)

UTY-VTGXV



Network Converter

for Group Remote Controller

UTY-VGGXZ1



Signal Amplifier

for single split

UTY-VSGXZ1



Comparison Table of Controllers

Item							
Model name		UTY-RNRYZ2	UTY-RLRY	UTY-RSKY	UTY-RHKY	UTY-RSRY	UTY-RHRY
Max. controllable remote controller groups		1	1	1	1	1	1
Max. controllable indoor units		16	16	16	16	16	16
Max. controllable groups		—	—	—	—	—	—
Air conditioning control function	On / Off	●	●	●	●	●	●
	Operation mode setting	●	●	●	—	●	—
	Fan speed setting	●	●	●	●	●	●
	Room temp. setting	●	●	●	●	●	●
	Room temp. set point limitation	●	●	—	—	●	●
	Test operation	●	●	●	—	●	●
	Up/down air direction flap setting	●	●	—	—	●	●
	Right/left air direction flap setting	●	●	—	—	—	—
	Individual louvre control	●	—	—	—	—	—
	Group setting	—	—	—	—	—	—
	RC prohibition	—	—	—	—	—	—
	Anti freeze setting	—	—	—	—	—	—
	Set temp. auto return	●	●	—	—	—	—
	Economy mode setting	●	●	—	—	—	—
	Human sensor control	●	—	—	—	—	—
Display	Error	●	●	●	●	●	●
	Defrosting	●	●	●	●	●	●
	Current time	●	●	—	—	—	—
	Day of week	●	●	—	—	—	—
	R.C. prohibition	●	●	●	●	●	●
	Cooling/heating priority	●	●	●	●	●	●
	Address display	●	●	●	●	●	●
	Room temp	●	—	—	—	●	●
	Multi language	●	—	—	—	—	—
	Summer time	●	—	—	—	—	—
	Name registration	●	—	—	—	—	—
	Backlight	●	—	●	●	●	●
	2D floor layout / 3D building display	—	—	—	—	—	—
Timer	Schedule timer	Period	Week	Week	—	—	—
		On/off, Temp, Mode, Times per day	8	4	—	—	—
	On/off timer		●	●	—	—	—
	Sleep timer		—	—	—	—	—
	Program timer		—	—	—	—	—
	Auto off timer		●	●	—	—	—
	Day off		●	●	—	—	—
Control	Min. unit of timer setting (Minutes)		10 • 30	30	—	—	—
	Status monitoring system		—	—	—	—	—
	Electricity charge apportionment		—	—	—	—	—
	Error history		●	●	—	—	—
	Emergency stop		—	—	—	—	—
	Remote management		—	—	—	—	—
	Energy saving management		—	—	—	—	—
	E-mail notification for malfunction		—	—	—	—	—
	Key lock		● Child lock	● Child lock	—	—	—
	Low noise mode		—	—	—	—	—



						
Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	Touch Panel Controller	System Controller Lite (Software)	System Controller (Software)
UTY-LNHY	UTY-CGGY	UTY-DCGY	UTY-DTGY	UTY-DTGYZ1	UTY-ALGXZ1	UTY-APGXZ1
1	8	100	400	400	400	1600
16	128	100	400	400	400	1600
—	—	16	400	400	400	1600
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
●	●	●	●	●	●	●
—	—	●	●	●	●	●
●	—	●	●	●	—	—
●	—	●	●	●	●	●
●	—	●	●	●	●	●
—	—	—	●	●	—	—
—	—	●	●	●	●	●
—	—	●	●	●	●	●
—	—	●	●	●	●	●
—	—	—	—	—	—	—
●	—	●	●	●	●	●
—	—	—	—	—	●	●
—	●	●	●	●	●	●
—	—	●	●	●	●	●
●	●	●	●	●	●	●
—	●	—	●	●	●	●
—	●	●	●	●	●	●
—	●	●	●	●	●	●
—	●	●	●	●	●	●
—	—	—	—	—	—	—
—	—	●	●	●	●	●
—	—	●	●	●	●	●
—	—	●	●	●	●	●
—	—	●	●	●	—	—
—	—	—	—	—	—	●
—	Week	Week	Year	Year	Year	Year
—	4	20	20	20	144	144
●	—	—	—	—	—	—
●	—	—	—	—	—	—
●	—	—	—	—	—	—
—	—	—	—	—	—	—
—	—	●	●	●	●	●
5	10	10	10	10	10	10
—	—	●	●	●	●	●
—	—	—	—	○	○	●
—	●	●	●	●	●	●
—	—	●*2	●*2	●*2	—	—
—	—	—	●	●	○	●
—	—	—	—	—	○	○
—	—	—	●	●	●	●
—	●	●	●	●	●	●
—	—	—	●	●	—	—



*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-RNRYZ2



Max. Controllable
16 indoor units

Features

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

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

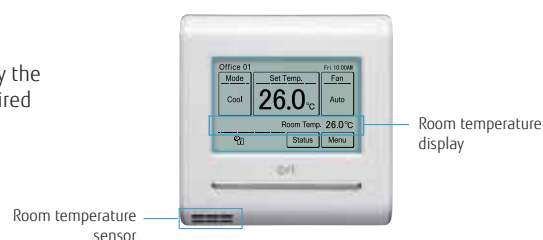
High performance and compact size

In addition to the individual control and weekly timer various energy saving controls can be operated 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 remote controller.

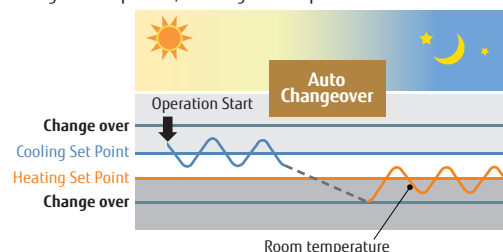


Various types of energy saving control

Custom Auto

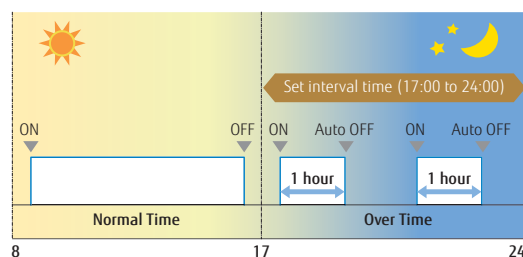
- Maintains 2 separate set points for heating and cooling.
- Automatically changes mode between heating and cooling.

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



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.
- Can be set to off time 30 to 240 minutes



2 schedules Weekly Timer

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

Specifications

Model name	UTY-RNRYZ2	
Power Source	DC 12 V	
Dimensions (H × W × D) (mm)	120 × 120 × 20.4	
Weight (g)	220	
List Price	£	161

DC12 V is supplied by the indoor unit.

Wired Remote Controller 2 Wire



UTY-RLRY



Features

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

Max. Controllable
16 indoor units

High performance and compact size

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



High visibility and easy operation

- "Mode", "Set Temp", and "Fan" are displayed in 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.



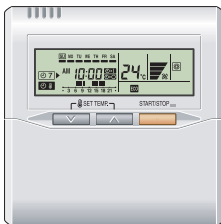
Set contents can be displayed clearer with large LCD.

Sophisticated control buttons
Simple operation with easy 4-way navigation pad

Wired Remote Controller 3 Wire



UTY-RNKY only used if intesis interfaces have been selected



Features

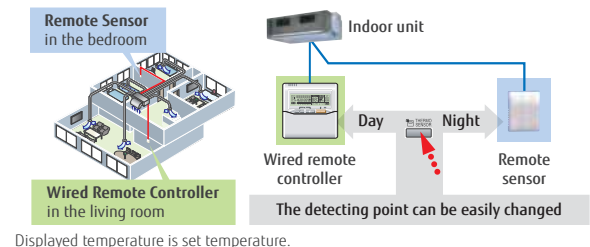
- Simple operation with Built-in Weekly / Daily Timer.
- Control up to 16 indoor units.
- Up to 2 wired remote controllers can be connected to a single indoor unit.

Max. Controllable
16 indoor units

Accurate and comfortable

Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller. This new wired remote controller and the optional remote sensor allows flexibility in sensor location, suitable for all requirements.

Example of changing sensor



Displayed temperature is set temperature.

Built-in timers

Weekly timer: Possible to set ON/OFF time to operate twice each day of the week.

Setback timer: Possible to set temperature for two time spans and for each day of the week.

At "Weekly timer" + "Set back timer" setup

Specifications

Model name	UTY-RLRY	UTY-RNKY
Power Source	DC 12 V	DC 12V
Dimensions (H x W x D) (mm)	120 x 120 x 17	120 x 120 x 18
Weight (g)	170	160
List Price	£ 125	83

DC12 V is supplied by the indoor unit.

Simple Remote Controller 2 Wire



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



Without operation mode

Features

Compact remote controller provides access to basic functions

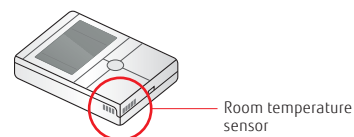
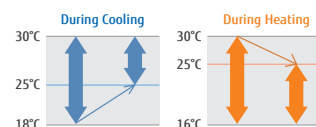
- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- Stylish design: Simple design to match the interior decoration.
- Large LCD screen & simple operation buttons
- Backlight: White coloured backlight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

Max. Controllable

16 indoor units

Corresponding to various applications

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



Room temperature sensor

Simple Remote Controller 3 Wire



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



Without operation mode

Features

Compact remote controller provides access to basic functions

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

Max. Controllable

16 indoor units

Easy-to-use operation

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

Specifications

Model name	UTY-RSRY	UTY-RHRY	UTY-RSKY	UTY-RHKY
Power Source	DC 12 V	DC 12 V	DC 12 V	DC 12 V
Dimensions (H × W × D) (mm)	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 14
Weight (g)	120	120	120	90
List Price	£ 120	£ 120	£ 80	£ 75

DC12 V is supplied by the indoor unit.

Wireless Remote Controller



UTY-LNHY



Max. Controllable

16 indoor units

Selectable

4 daily timers

Features

Simple and sophisticated operations with a choice of 4 daily times

- A single controller controls up to 16 indoor units.

Built-in timers

4 timer programs: On / Off / Program / Sleep

Program timer: Operates ON/OFF timer once within 24 hours

Sleep timer: Corrects the set temperature automatically during sleep time

Easy installation and operation

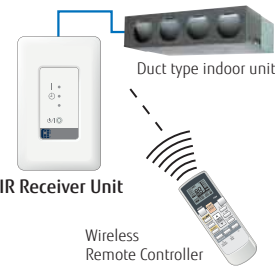
Code selector switch prevents indoor unit mix-up (up to 4 codes)

Wide and precise transmitting range

IR Receiver Unit



UTB-YWC



Features

Necessary to control for all Duct types* by Wireless Remote Controller

*Only Large Airflow Duct cannot be connected to IR Receiver Unit.

IR Receiver Unit



UTY-LRHYB1



UTY-LBHXD



Features

Cassette type indoor unit can be controlled with Wireless Remote Controller

Specifications

Model name		UTY-LNHY	UTB-YWC	UTY-LRHYB1 / UTY-LBHXD
Battery		1.5 V (R03 / LR03 / AAA) × 2	DC 5 V	DC 5 V
Dimensions (H × W × D) (mm)		170 × 56 × 19	145 × 90 × 30	193.9 × 193.9 × 31.2
Weight (g)		85	150	140
List Price	£	47	76	76 / 76

DC5 V is supplied by the indoor unit.

Auto Louvre Grille Kit



UTD-GXSA-W / UTD-GXSB-W / UTD-GXSC-W



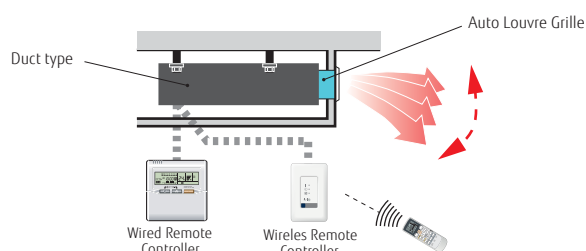
Features

Simple flat Auto Louvre will provide comfortable airflow and harmonise with luxury interior.

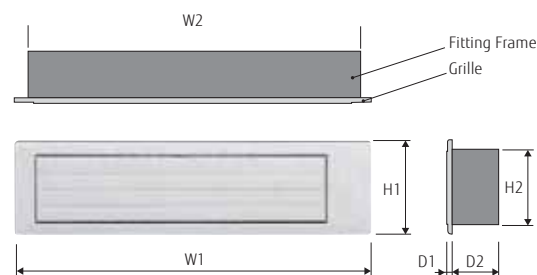


Flexible Control

- **Operation with indoor unit**
Auto Louvre can be operated by synchronising the remote controller of indoor unit.
- **UP and Down auto swing**
 - Auto airflow direction and auto swing
 - 4 steps selectable
- **Auto-closing louvre**
When the operation of the indoor unit has stopped, the louvre will automatically close.



Dimensions



Unit:mm

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

Specifications

Model name			UTD-GXSA-W	UTD-GXSB-W	UTD-GXSC-W
Applicable Indoor Unit			ARYG07/09LLTA ARYG12/14LLTB ARXD04/07/09/12/14GALH (For VRF)	ARYG18LLTB ARXD18GALH (For VRF)	ARXD24GALH (For VRF)
Power Supply			Connecting with Control box of indoor unit		
Fixing of Auto Louvre Grille			Screw fixing to Flange or Square Duct		
Extension Square Duct Limit			1.0m (Max. duct length between indoor unit and Grille)		
Net Dimension (H × W × D)		mm (inch)	180×683×(84+9) [7-3/32×26-7/8×(3-5/16+11/32)]	180×883×(84+9) [7-3/32×34-3/4×(3-5/16+11/32)]	180×1083×(84+9) [7-3/32×42-5/8×(3-5/16+11/32)]
Weight	Net	kg (lb.)	2.0 (4.4)	2.5 (5.6)	3.0 (6.7)
	Gross		3.0 (6.7)	3.5 (7.8)	4.0 (8.9)
Colour			White		
Louvre Motor			Stepping Motor		
Accessories			Fitting Flame, etc.		
Operation Range	Cooling		18 to 32 (64 to 90)		
			80% or Less		
	Heating		16 to 30 (60 to 88)		
System List Price		£	135	151	187

Wireless LAN Interface



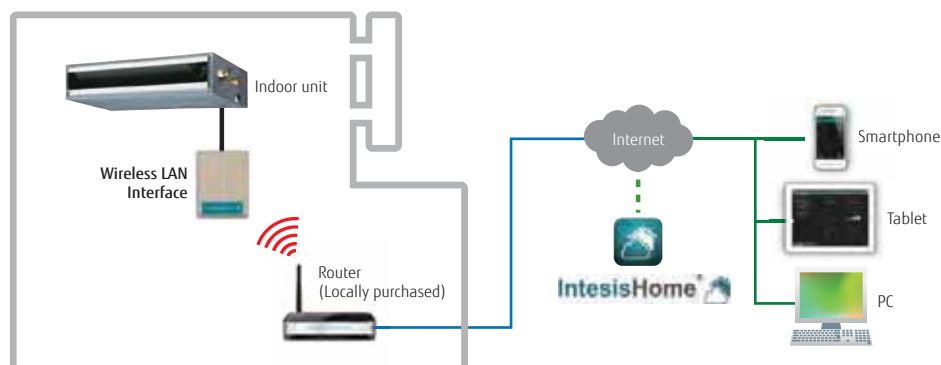
FJ-RC-WIFI-1



Features



- It is the most advanced solution to remotely manage an Air Conditioning system using all types of mobile devices such as Smartphones, Tablets and a 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
- Louvre position (Airflow direction setting)
- Room temperature display
- Set temperature control
- Multi Language
- One Screen view and Timer



Advanced control (Optional functions)

- Climate working modes (ECO, Comfort, Powerful) (future release)
- Schedule functions (ON/OFF, Modes, Set point temperature, Fan Speed, Louvre position)
- Set temperature limitation (future release)
- Multiple Screens & Timers and Calendar function

Notifications and history

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

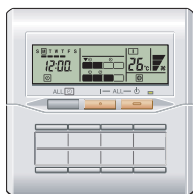
Specifications

Model name	FJ-RC-WIFI-1	
Dimensions (H × W × D) (mm)	70×108×28	
Weight (g)	80	
List Price	£	234

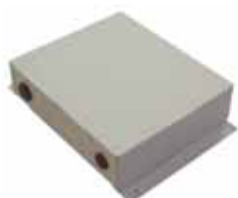
Group Remote Controller / Network Converter



UTY-CGGY / UTY-VGGXZ1



Group Remote Controller
UTY-CGGY



Network Converter
UTY-VGGXZ1
For Group Remote Controller

Max. Controllable
8
remote
controller groups

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

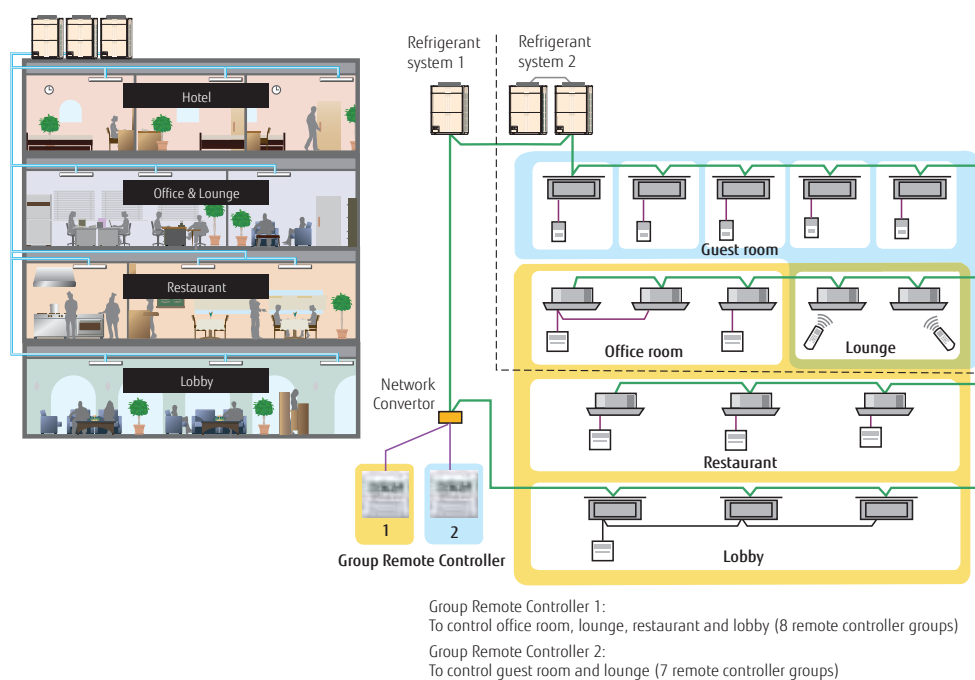
Features

Group control of indoor units with simple operation

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

Control up to 8 remote controller groups

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



High performance and compact size

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



Built-in weekly timers

The weekly timer is provided as a standard function.

Specifications

Model name	UTY-CGGY	
Power Supply	DC 12 V	
Dimensions (H × W × D) (mm)	120 × 120 × 18	
Weight (g)	200	
List Price	£	146

DC12 V is supplied by the indoor unit.

Model name	UTY-VGGXZ1	
Power Supply	208-240V 50/60Hz, Single phase	
Power Consumption (W)	6.5	
Dimensions (H × W × D) (mm)	67 × 288 × 211	
Weight (g)	1,500	
List Price	£	456

Central Remote Controller



UTY-DCGY



Max. Controllable
100 indoor units

Max. Controllable
16 groups

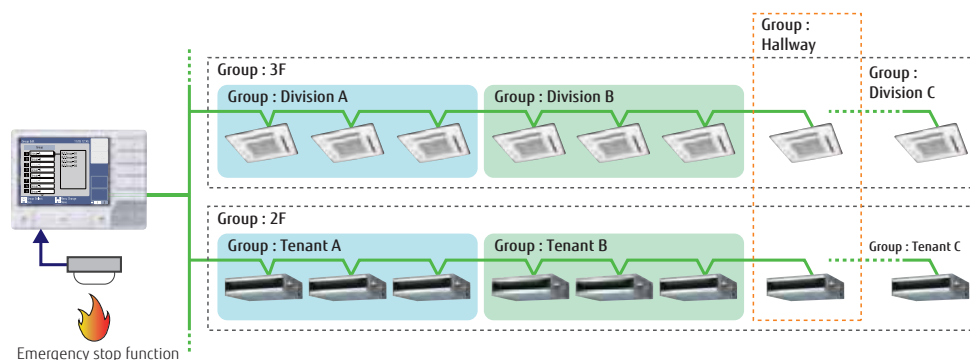
Features

For small- and medium-sized buildings and tenants

- Individual control and monitor of 100 indoor units
- 5 inch TFT colour 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.

System overview

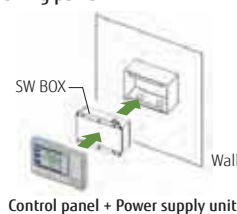
- It allows multiple indoor units grouping (Max.16 groups controlled)
- Interlock with external device



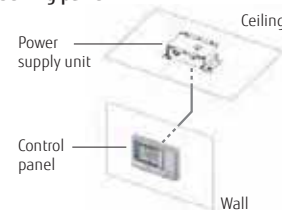
Easy Installation

- 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 fixed onto the wall.

Setting pattern 1



Setting pattern 2



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 × W × D) (mm)	120 × 162 × 25.7	99 × 135 × 39.2
Weight (g)	308	355

Packing List

Packing List	Control Panel / Power Supply Unit / Connecting cable, etc.	
List Price	£	1752

Touch Panel Controller



UTY-DTGYZ1



Features

- Large-sized 7.5-inch TFT colour
- LCD Easy finger touch operation
- Stylish shape and design to suit all applications
- Up to 400 indoor units can be controlled
- Selectable 2 display types (Icon / List) in monitoring mode
- Supports 7 different-languages ,English, Chinese, French, German, Spanish, Russian, Polish.
- Mounted with LAN interface for remote control & operation, external input / output with emergency stop and batch ON / OFF

Max. Controllable

400 indoor units

Max. Controllable

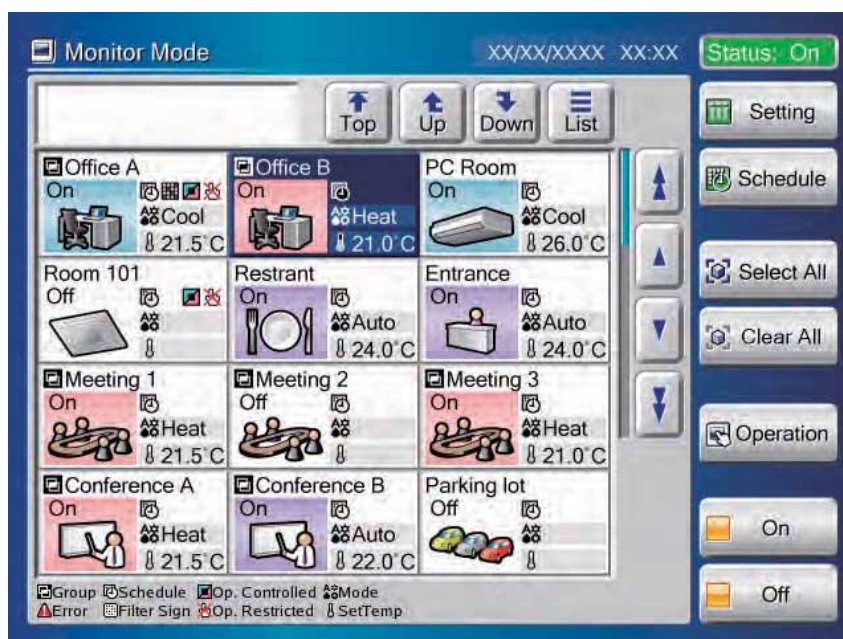
100 outdoor units

Max. Controllable

400 groups

Control & monitoring from anywhere (UTY-DTGYZ1 Only)

- Control and monitor Fujitsu's air conditioners via LAN or Internet.
- Allow user or tenant to manage only assigned equipment by their PC or tablet from anywhere.
- Error contents are notified automatically by E-mail on error occurrence to handle the error promptly.



Easy maintenance

- Flat touch screen is easily cleaned
- Non-glare coating on touch panel controller minimises fingerprint marking
- Easy-to-remove front cover

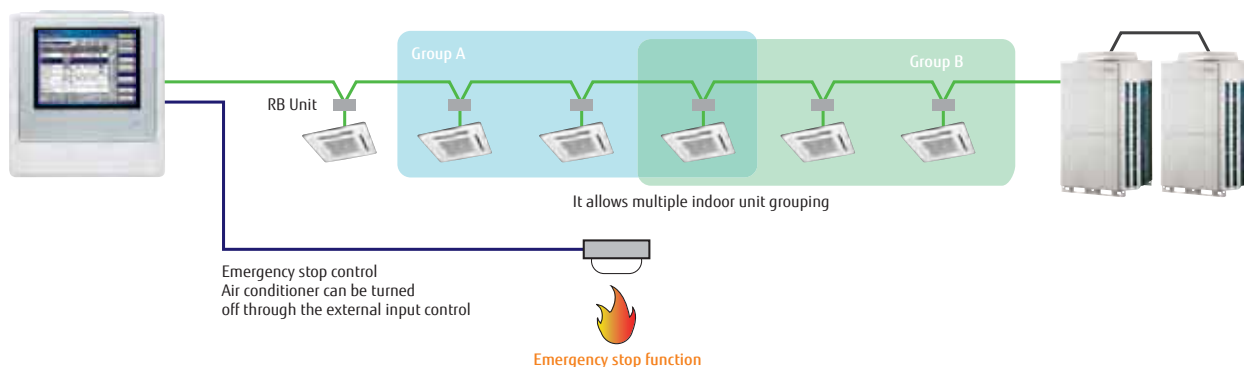


Easy installation

- Touch Panel Controller is easily mounted onto the wall.
- Flat back surface allows to be installed wherever it is needed.
- No additional component is required for installation

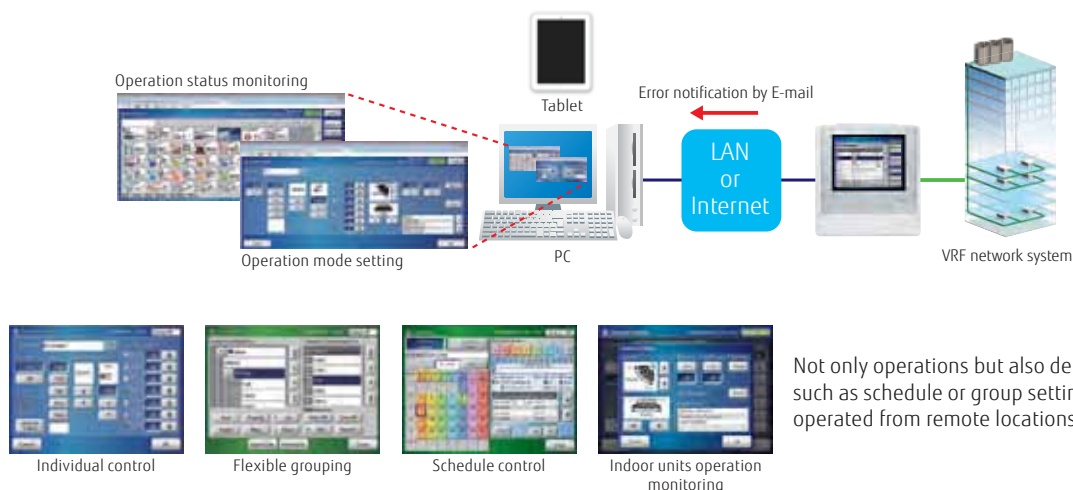


Up to 400 indoor units can be controlled



Control & monitoring from anywhere (UTY-DTGYZ1 Only)

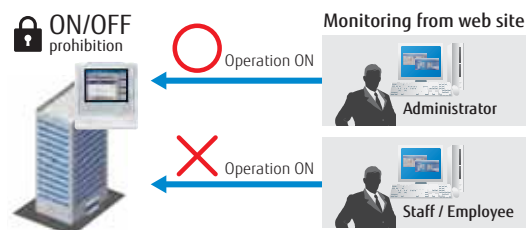
- Control and monitor Fujitsu's air conditioners via LAN or Internet.
- Allow user or tenant to manage only assigned equipment by their PC or tablet from anywhere.
- Error contents are notified automatically by E-mail on error occurrence to handle the error promptly.



Not only operations but also detail settings such as schedule or group settings can be operated from remote locations.

Flexible access permission for Point each level user. (UTY-DTGYZ1 Only)

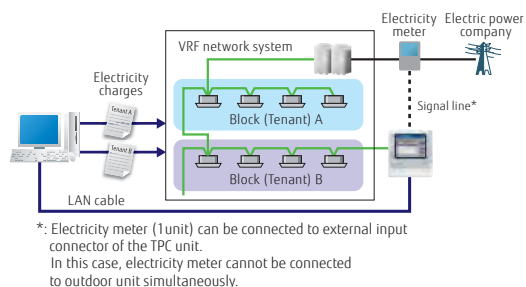
Administrator can register multiple user to permit which indoor unit(s) and which function can access.



Electricity charge apportionment (Option: UTY-PTGXA)

- Electricity charge apportionment can be performed easily, when billing users for the air conditioning power consumed.

*Option UTY-PTGXA only compatible with UTY-DTGYZ1 Controller



Specifications

Model name	UTY-DTGYZ1	UTY-PTGXA	UTY-DTGY
Power Supply	100-240 V 50/60Hz, Single phase	DC 5V (USB Bus Power)	100-240 V 50/60Hz, Single phase
Dimensions (H × W × D) (mm)	260 × 246 × 54	62 × 17 × 10	260 × 246 × 54
Weight (g)	2,150	9	2,150
Interface	Transmission/LAN/USB/EXT IN/EXT OUT/Reset SW	USB	Transmission/USB/EXT IN/EXT OUT/Reset SW
List Price	£ 3307	204	2811

NEW

System Controller



UTY-APGXZ1 (Software)

Features

Max. Controllable

4 VRF network systems

Max. Controllable

400 outdoor units

Max. Controllable

1,600 indoor units

System Controller achieves 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 all catered for and building manager and owner needs are met.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

Note: Older Version UTY-APGX will be sent out while stocks last
Differences between the versions are the software on the original is on a CD rom and the product key USB is a different colour

NEW

System Controller Lite



UTY-ALGXZ1 (Software)

Features

Max. Controllable

1 VRF network systems

Max. Controllable

100 outdoor units

Max. Controllable

400 indoor units

System Controller Lite has standard functions sufficient for air conditioner management in small and medium scale buildings .

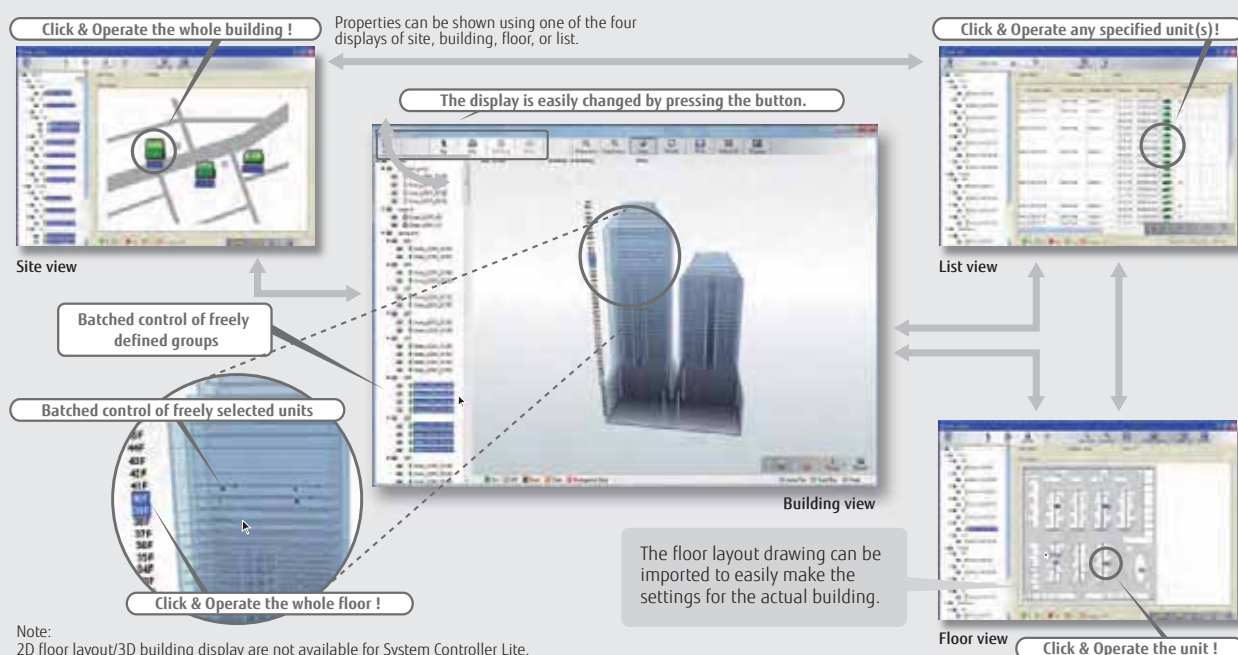
- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customers a wide range of choice.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

Note: Older Version UTY-ALGX will be sent out while stocks last (UTY-ALGX not compatible with option UTY-PLGXX2)
Differences between the versions are the software on the original is on a CD rom and the product key USB is a different colour

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.

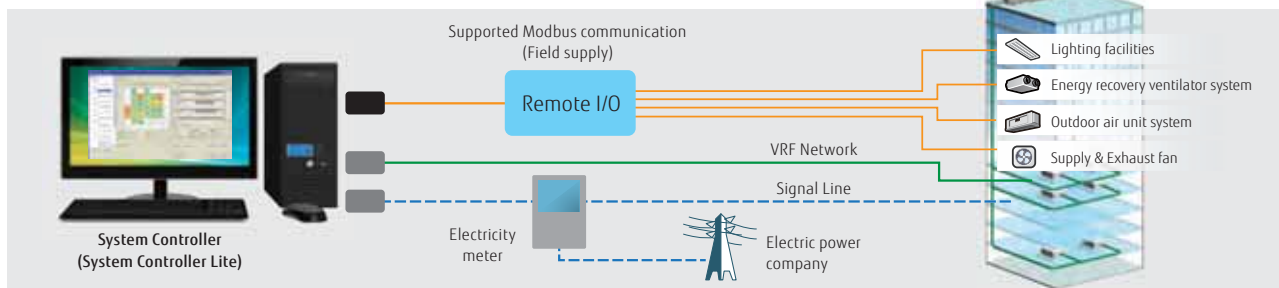
Freely define groups for batched control: Indoor units can be freely grouped for simple batched control from a tree menu. Grouping by hierarchal structure, such as by section, division or department is possible.



3rd party devices connected by Modbus can be controlled.

Standard for System Controller **Option** for System Controller Lite UTY-PLGXX2

When Modbus Adaptor (locally purchased) is connected to PC, the electric facilities supported by Modbus can be controlled centrally. Wasteful electricity charge by forgetting to turn off and patrol activities can be reduced in the entire building.



Diverse operation management & Data management

Standard for System Controller and System Controller Lite

Schedule management

- Annual schedules can be set for each remote controller group / user defined group.
- Start / stop, operating mode, remote controller prohibition, and temperature settings can be set up to 143 times per day at 10 minute intervals for up to 101 configurations for each remote controller group.
- Settings can be made for periods straddling midnight.
- Allows programming of special settings for holidays, including public holidays, for a complete year.
- Low noise operation of outdoor unit can be scheduled.



Diverse control of indoor unit and outdoor unit

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

Remote controller prohibition

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

Error display & E-mail notification

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

Operating & control record

Displays the history of operation status and control.

Data base import/export

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

Automatic clock adjustment

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

Electricity charge apportionment

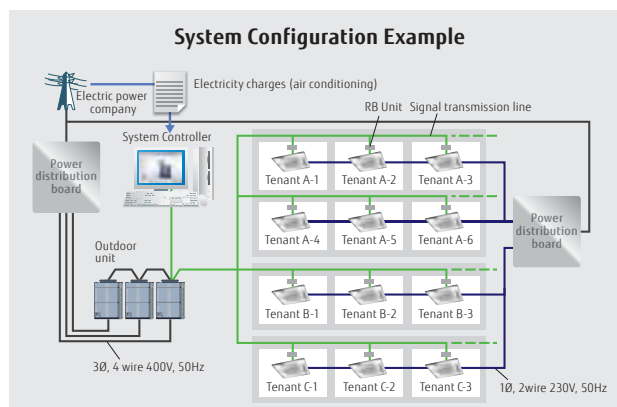
Standard for System Controller

Option for System Controller Lite UTY-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 night time electricity charges and shows these in a charges calculation sheet.



CONTROL SYSTEM CENTRALISED CONTROL

Features: System Controller / System Controller Light

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 types of software working together. VRF Controller runs on site and communicates with VRF system.

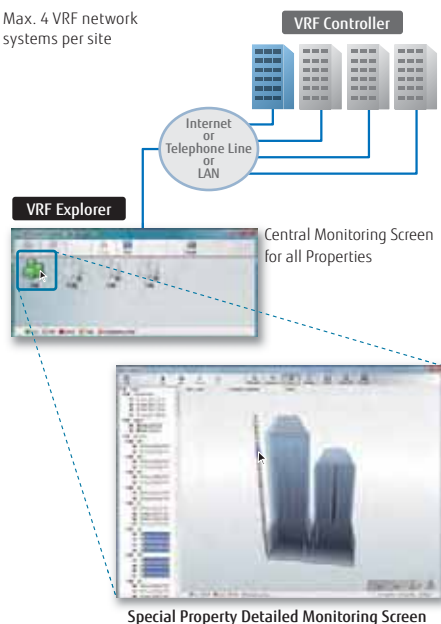
VRF Explorer runs remotely and provides user interface and communicates with the VRF Controller.

VRF Controller and VRF Explorer program may run in a single PC or in different PCs separated by network.

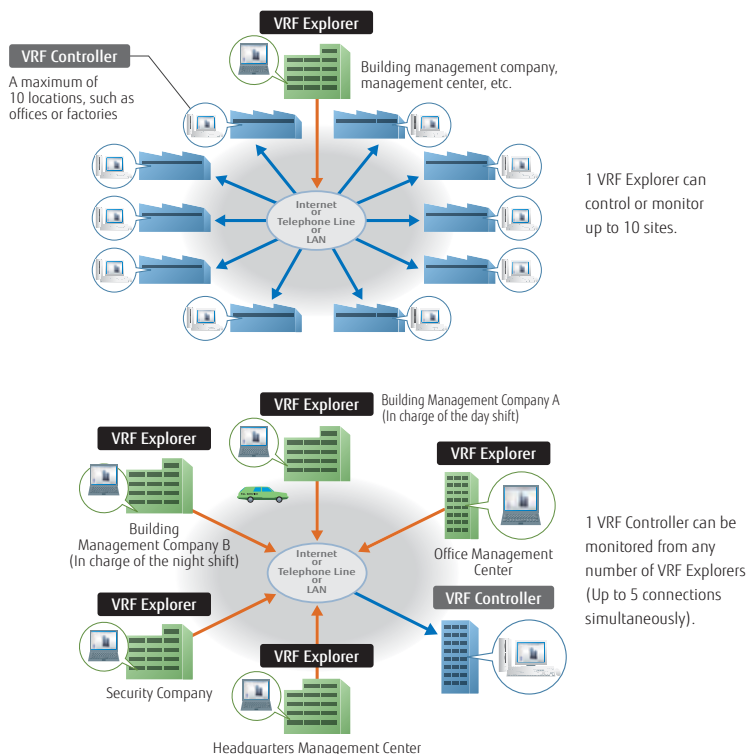
By using VRF Explorer software, one PC can perform central control of 10 VRF system sites with max. 20 buildings per site.

On site central control

Max. 4 VRF network systems per site



Remote central control



Energy saving management

Option for System Controller UTY-PEGX

Option for System Controller Lite UTY-PLGX1

A variety of energy saving operations can be set and managed depending on the season, weather, and time period. Excellent energy saving operation is performed while keeping users comfortable.



Energy Saving Management Main Screen

Energy saving graph data: This graph compares the electricity consumption with the previous month and previous year to make it easy to analyse the energy saving effect.

Indoor unit rotation operation

The operation of indoor units can be automatically rotated within a group in accordance with the set annual schedule to reduce power consumption while maintaining comfort. The indoor unit operation stoppage rate can be selected.

Peak cut operation

A power meter is connected to detect the total power consumption while shifting the indoor unit set temperature, set the indoor unit forced thermostat off, and taking other measures to carefully control the power consumed while maintaining comfort and conducting control to maintain the target power consumption set for each time. The indoor units to be controlled can be freely grouped and the control level can be set.

Outdoor unit capacity save

Outdoor unit capacity save switches the outdoor unit capability upper limit to suppress power consumption during hot summers and cold winters by averaging the power saving effect of each refrigerant system. You can select from 50% or more of the capacity upper limit.

FUNCTIONS SUMMARY

Function	Type	System controller		System controller lite				
		UTY-APGXZ1	Option UTY-PEGXZ1	UTY-ALGXZ1	Option UTY-PLGXR2	Option UTY-PLGXA2	Option UTY-PLGXE2	Option UTY-PLGXX2
System specification	Max. VRF networks supported	4	—	1	—	—	—	—
	Max. indoor unit / remote controller groups per VRF network	400	—	400	—	—	—	—
	Max. outdoor units per System controller	100	—	100	—	—	—	—
	Max. indoor units / remote controller groups per System controller	1600	—	400	—	—	—	—
	Max. outdoor units per System controller	400	—	100	—	—	—	—
Site supervision	Multi site display	10	—	10	—	—	—	—
	Number of building / 1 site	20	—	—	—	—	—	—
	Number of floor per 1 site	200	—	—	—	—	—	—
	Number of floor per 1 building	50	—	—	—	—	—	—
	3D graphical layout view	●	—	—	—	—	—	—
	2D graphical layout view	●	—	—	—	—	—	—
	List display	●	—	●	—	—	—	—
	Tree display	●	—	—	—	—	—	—
Error management	Group display	●	—	●	—	—	—	—
	Error notification	●	—	●	—	—	—	—
	Audible alarm	●	—	●	—	—	—	—
History	Error e-mail notification	●	—	●	—	—	—	—
	Error history	●	—	●	—	—	—	—
	Operation history	●	—	●	—	—	—	—
Operation control	Control history	●	—	●	—	—	—	—
	Individual control	On/Off	—	—	—	—	—	—
		Operation mode	●	●	—	—	—	—
		Room temperature	●	●	—	—	—	—
		Fan speed	●	●	—	—	—	—
		Air flow direction	●	●	—	—	—	—
		Economy mode	●	●	—	—	—	—
		Room temperature set point limitation	●	●	—	—	—	—
		Test operation	●	●	—	—	—	—
		Antifreeze	●	●	—	—	—	—
		Outdoor unit low noise setting	●	●	—	—	—	—
	Individual management	Remote control prohibition setting	●	●	—	—	—	—
		Temperature upper and lower limit setting	●	●	—	—	—	—
		Filter sign reset	●	●	—	—	—	—
	Other	Memory operation	●	●	—	—	—	—
		Pattern operation	●	●	—	—	—	—
Schedule	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	●	—	—	●	—	—	—
	Web Remote Controller	●	—	—	●	—	—	—
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	—	●	—	—	—	●	—
External Device Control	Electricity meter supported	—	●	—	—	—	●	—
	Monitor	●	—	—	—	—	—	●
Others	Control	●	—	—	—	—	—	●
	Database import/export	●	—	●	—	—	—	—
	Automatic clock adjustment	●	—	●	—	—	—	—
	Multi language	7 languages	—	7 languages	—	—	—	—

●●: Available. -: Not available. *: Power calculation application software is necessary, please contact the local FGL representative.

Personal computer system requirements

	System Controller	System Controller Lite
Operating system	- Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 - Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) - Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish	
CPU	Intel® Core™ i3 2 GHz or higher	
Memory	2 GB or more (for Windows Vista® and Windows® 7 [32-bit]) 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)	
HDD	40 GB or more of free space	
Display	1024 x 768 or higher resolution	
Interface	- Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) - USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 2 USB ports are required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB port depends on the applicable system configuration.	- Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) - USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 4 USB ports are required for WHITE-USB-KEY/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	

- 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	Remote access	Option Electricity charge apportionment	Energy saving	Central Control
Model name	UTY-APGXZ1	UTY-PEGXZ1	UTY-ALGXZ1	UTY-PLGXR1	UTY-PLGXA1	UTY-PLGXE1	UTY-PLGXX2
WHITE-USB-KEY	1	1	1	1	1	1	1
List Price £	6222	2561	2557	926	761	922	992

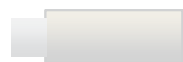
*1: Software protection key to be inserted in a USB slot running System Controller or System Controller Lite.

System Controller or System Controller Lite may only run on a PC with WHITE-USB-KEY. However, WHITE-USB-KEY is not required for remote VRF Explorer software.

BACnet® Gateway



UTY-ABGX, UTY-ABGXZ1

WHITE-USB-KEY
(Software Protection Key)

BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with BACnet 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.

Features

- 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-135-2012) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.
- Scheduling function, Alarm & Event functions as well as Electricity Charge 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.

Note: Older Version UTY-ABGX will be sent out while stocks last
Differences between the versions are the software on the original is on a CD rom and the product key USB is a different colour

Max. Controllable

4

VRF network
systems

Max. Controllable

400

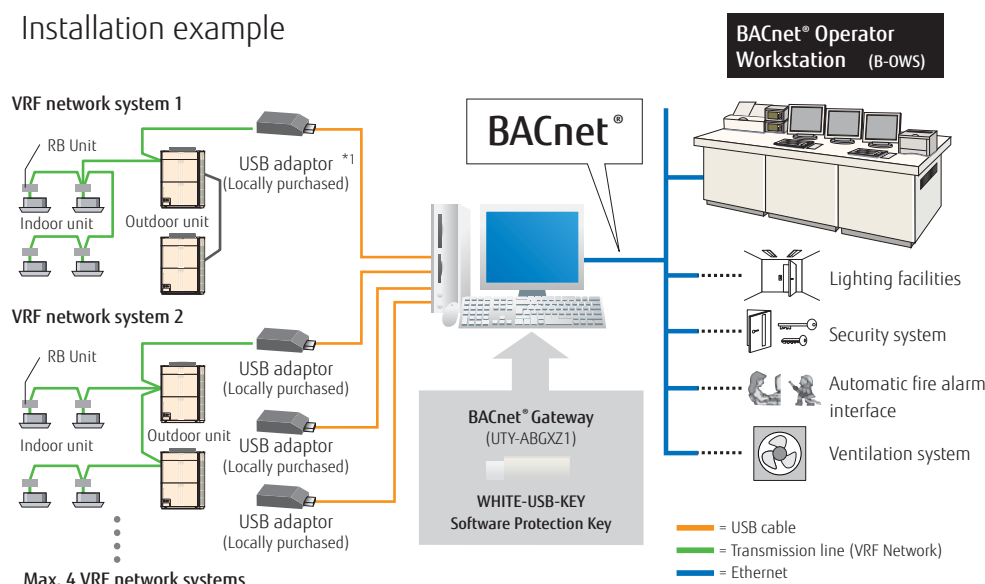
outdoor units

Max. Controllable

1,600

indoor units

Installation example



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

Personal computer system requirements

UTY-ABGX & UTY-ABGXZ1	
Operating system	• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher
Memory	• 2 GB or more (for Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	• Ethernet port (for getting access to the Internet using LAN) • USB ports (Maximum of 5 ports) - 1 USB port is required for WHITE-USB-KEY/WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB ports depends on the applicable system configurations.
Software	Adobe® Reader® 9.0 or later

Packing list

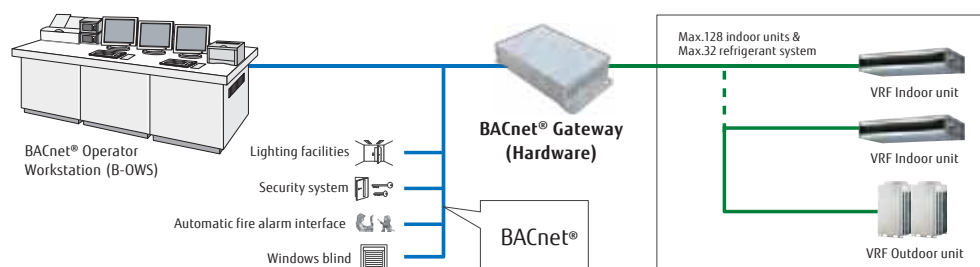
Name and shape	Quantity	Application
WHITE-USB-KEY	1	Includes the software and manuals, license for BACnet® Gateway.
List Price	£	3113

- 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.)


UTY-VBGX
 FUTURE RELEASE

Features

- BACnet® Gateway enables to connection to BMS and FG VRF system.
- A maximum of 128 indoor units and 32 refrigerant system can be connected to a single BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2010) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.

Installation example

 Max. Controllable
1 VRF network system

 Max. Controllable
32 refrigerant system

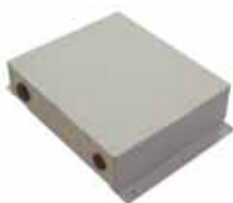
 Max. Controllable
128 indoor units

Specifications

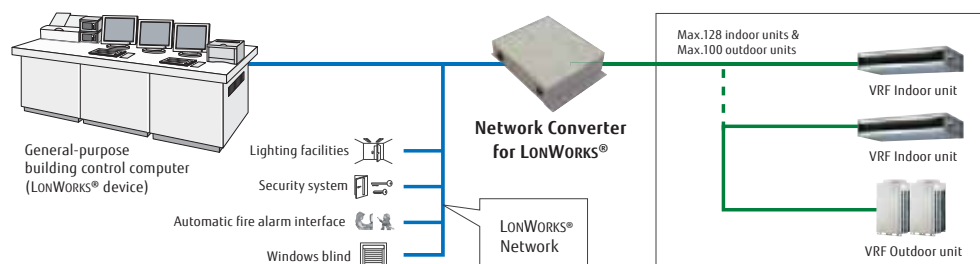
Model name	UTY-VBGX
Number of controllable indoor units	128
Number of controllable refrigerant system	32
Number of controllable VRF network	1
Number of connectable units / one VRF network	4
List Price	£ FUTURE RELEASE

Model name	UTY-VBGX
Power Supply	208-240V 50/60Hz, single phase
Power Consumption (W)	—
Dimensions (H × W × D) (mm)	10-1/4 × 2-5/16 × 5-11/16 (260 × 59 × 145)
Weight (g)	—

Network Converter for LONWORKS®

UTY-VLGX

Features

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

Installation example

 Max. Controllable
4 units to BMS

 Max. Controllable
100 outdoor units

 Max. Controllable
128 indoor units

Specifications

Model name	UTY-VLGX
Power Supply	208-240V 50/60Hz, Single phase
Power Consumption (W)	4.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500
List Price	£ 3113

Transmission specifications (BMS side)

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

MODBUS® Convertor



UTY-VMGX



Features

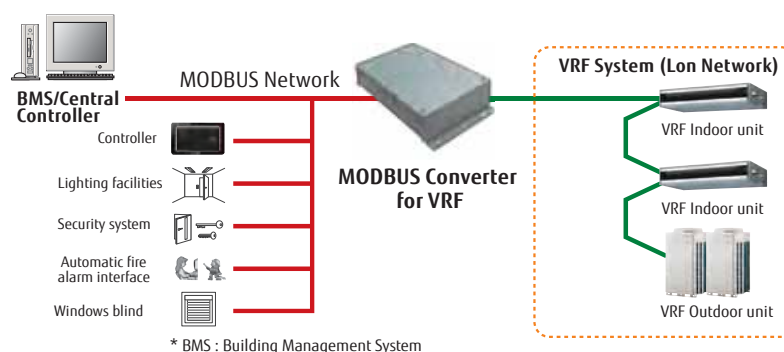
The MODBUS Converter allows a complete integration of air conditioners into MODBUS Networks.

- Compact and lightweight design
- Direct connection to MODBUS Network
- Up to 128 indoor units can be controlled in one MODBUS Converter
- The MODBUS Converter permits central monitoring and control of air conditioners from BMS or Central Controller.
- Up to 9 converters can be connected to a VRF network. The simultaneous controls such as ON/OFF or temperature settings can be done for each zone.
- It is easy to locate the source of error if any connection errors should occur after completion of installation works.

Max. Controllable
9 units to one VRF

Max. Controllable
100 outdoor units

Selectable
128 indoor units



MODBUS® Interface



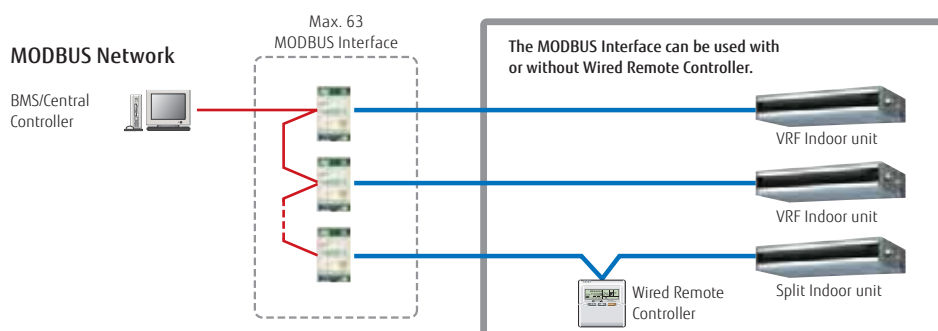
FJ-RC-MBS-1



Features

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	UTY-VMGX
Power Supply	AC220/240V 50/60Hz
Input power (W)	Max. 2
Dimensions (H × W × D) (mm)	54 × 260 × 150
Weight (g)	1,100
List Price	£ 530

Model name	FJ-RC-MBS-1
Dimensions (H × W × D) (mm)	93×53×58
Weight (g)	85
List Price	£ 234



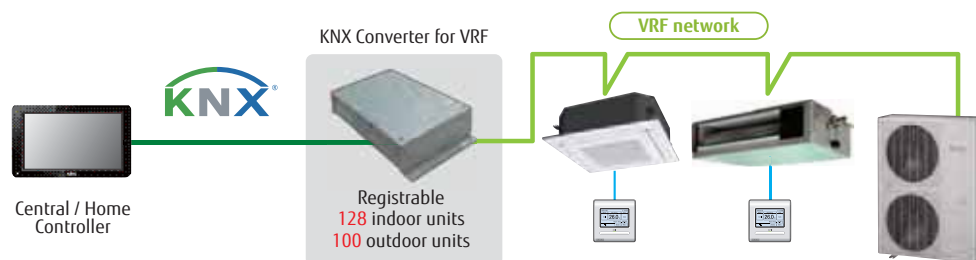
UTY-VKGX



Features

It is possible to control the VRF system from central / home controller via KNX network.

- New KNX Converter enables connection of central/home controller and FG VRF system.
- A maximum of 128 indoor units and 100 outdoor units can be connected to single KNX Converter.



KNX® Interface



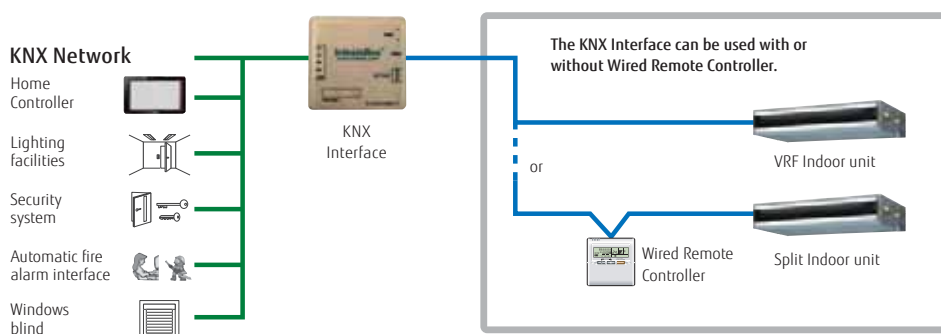
FJ-RC-KNX-1i



Features

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.



Specifications

Model name	UTY-VKGX	FJ-RC-KNX-1i
Power supply	208-240V 50/60Hz	DC12V fed from indoor unit
Power consumption (W)	1.5	—
Dimensions (H × W × D) (mm)	54×260×50	70×70×28
Weight (g)	1,100	70
List Price	£ 1273	265

External Switch Controller



UTY-TERX, UTY-TEKX



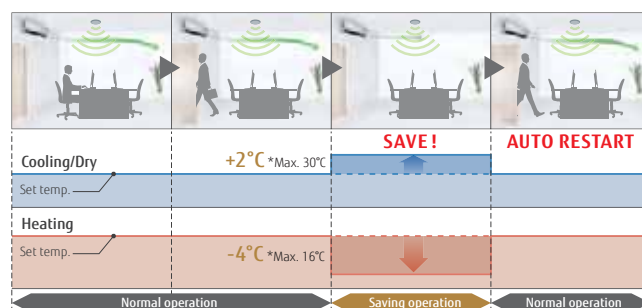
Features

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 locally purchased parts.
- 2-wire type
- The set temperature can be specified at two points for cooling and heating individually (4 points).

Installation example

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



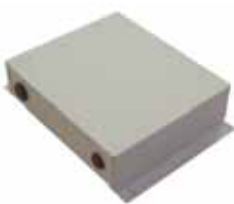
Human sensor equipment needs to be purchased locally. Human sensor is not mounted on the External Switch Controller.

- UTY-TEKX unable to be used with 2 wire controllers

Signal Amplifier



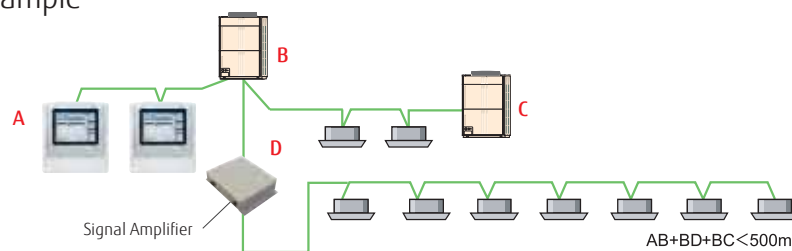
UTY-VSGXZ1



Features

- 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-TERX / UTY-TEKX
Power Supply	DC 6.5-16V
Dimensions (H × W × D) (mm)	43 × 140 × 117
Weight (g)	250
List Price	£ 90 / 90

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 × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500
List Price	£ 729

Network Converter for Single Split



UTY-VTGX / UTY-VTGXV



UTY-VTGX
DC power supply type



UTY-VTGXV
AC power supply type

Max. Controllable

16

single indoor units

Max. Controllable

100

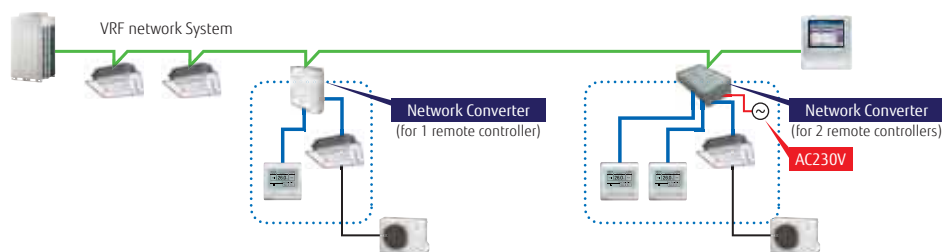
Network Converters

Features

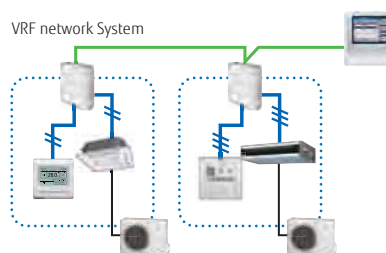
- The network converters are required when connecting single split system to VRF network system.
- Compact and light weight design
- Connectable to both types of 2-wire and 3-wire remote controllers

Installation example.

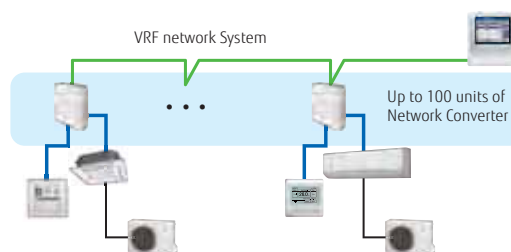
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60Hz) is required for 2 remote controllers type.



- 2-wire and 3-wire type of the wired remote controller can be connectable.



- A central control can be provided for the single split systems. (Up to 100 units of Network Converter is connectable in one VRF network system)



Specifications

Model name	UTY-VTGX		UTY-VTGXV
Power Supply	polar 3-wire DC12V	non-polar 2-wire DC12V	50/60Hz AC220/240V
Input power (W)	Max. 1.2		Max. 3
Dimensions (H × W × D) (mm)	43 × 117 × 140		54 × 260 × 150
Weight (g)	250		1,100
List Price	£	427	584



Extensive monitoring and analysis functions for installation and maintenance

- Operation status can be checked and analysed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
- This software can be connected to any point of transmission line with USB adaptor (locally purchased)
- * The saved data can be displayed offline. However, the data saved by the following model cannot be displayed.
 - UTR-YSTB / UTR-YSTC (Service Tool)
 - UTR-YMSA (Web Monitoring Tool)

Note: Older Version UTY-ASGX will be sent out while stocks last
Differences between the versions are the software on the original is on a CD rom and the product key USB is a different colour

Automatic operation check for refrigeration cycle

After product installation, operation check can be performed automatically. Self-diagnosis function automatically judges whether each sensor value is normal, so the operation check work can be reduced. The diagnosis can also be output for a report.



[Note] Use only as a guide and judge for yourself finally.

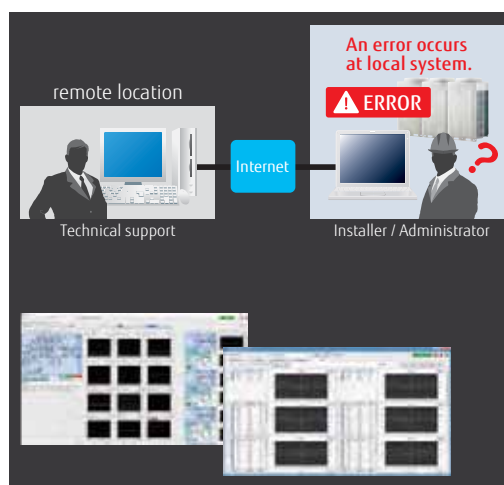
Whether each sensor value is normal is judged automatically.

- ✓ Discharge temperature normal value **OK**
- ✓ Super heat volume normal value **OK**
- ✓ High pressure pipe normal value **OK**
- ✓ Low pressure pipe normal value **OK**
- ...etc.



Remote technical support & maintenance

On-site check screen can be shared with the engineer on site. When visiting for troubleshooting on site, operation status can be shared in real time and get assistance easily. Online chat function helps to support on site staff.



Various trend graph display

Previously, only 3 kinds of each sensor value can be displayed. However, multiple graphs can be displayed in new Service Tool depending on the situation. The refrigeration cycle can be checked in detail.

Personal computer system requirements

	UTY-ASGXZ1
Operating system	• Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	• 1 GB or more (for Windows Vista®, Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Display	1366 x 768 or higher resolution
Interface	• 2 USB ports - 1 USB port is required for software protection key connection - 1 USB port is required for Echelon® U10 USB Network Interface
Software	Internet Explorer® 11 or Microsoft Edge / Adobe® Reader® 9.0 or later

Packing list

Name and shape	Quantity	Application
WHITE-USB-KEY (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products run only on a PC with WibuKey.
List Price	£	629

- 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.)



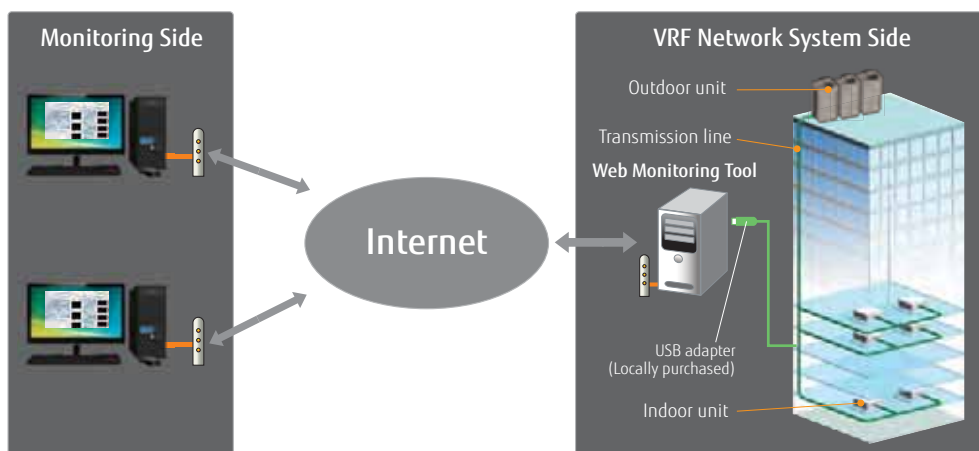
Product features

- 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.

Note: Older Version UTY-AMGX will be sent out while stocks last
Differences between the versions are the software on the original is on a CD rom and the product key USB is a different colour

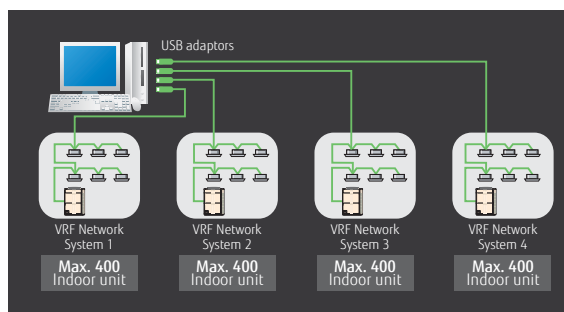
Web Monitoring System



Support 4 VRF network systems

USB adaptor (max. 4 adaptors per PC) permit, monitoring of up to 1,600 indoor units.

Suitable for large-scale buildings or hotels.



Personal computer system requirements

UTY-AMGXZ1	
Operating system	• Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	• 1 GB or more (for Windows Vista®, Windows® 7 [32-bit], Windows® 8.1 [32-bit], and Windows® 10 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8.1 [64-bit], and Windows® 10 [64-bit])
HDD	40 GB or more of free space
Display	1366 x 768 or higher resolution
Interface	• USB port (for 10 USB Network Interface Max.4, Software protection key) • Either of the following interface is required for remote connection: - Internet using LAN: Ethernet port is required
Software	Internet Explorer® 11 or Microsoft Edge / Adobe® Reader® 9.0 or later

Packing list

Name and shape	Quantity	Application
WHITE-USB-KEY (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products run only on a PC with WibuKey.
List Price	£	POA

- 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.))

OPTIONAL PARTS

Controllers

For Individual Control

Wired Remote Controller £161
(Touch Panel)
UTY-RNRYZ2 **NEW**



Wired Remote Controller £125
UTY-RLRY



Simple Remote Controller £80
UTY-RSKY
With operation mode



Simple Remote Controller £75
UTY-RHKY
Without operation mode



Simple Remote Controller £120
UTY-RSRY **NEW**
With operation mode



Simple Remote Controller £120
UTY-RHRY **NEW**
Without operation mode



Wireless Remote Controller £47
UTY-LNHY



IR Receiver Unit £76
UTY-LRHYB1
For Cassette



IR Receiver Unit £86
UTY-LBHDX **NEW**
For Circular Flow Cassette



IR Receiver Unit £76
UTB-YWC
For All compatible Duct types



For Centralized Control

Group Remote Controller £146
UTY-CGGY



Central Remote Controller £1752
UTY-DCGY



Touch Panel Controller
UTY-DTGYZ1 £3307
UTY-DTGY £2811

Option
UTY-PTGXA £204



System Controller Lite **NEW**
UTY-ALGXZ1 £2557

Option

UTY-PLGXA1
£761
UTY-PLGXR1
£926
UTY-PLGXE1
£922
UTY-PLGXX2
£992



System Controller **NEW**
UTY-APGXZ1 £6222

Option

UTY-PEGXZ1
£2561



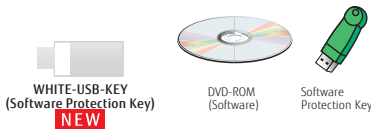
USB Adaptor (field supplied) £468
USB75010R

Needed for;
UTY-ALGXZ1
UTY-APGXZ1
UTY-ABGXZ1
UTY-ASGXZ1
UTY-AMGXZ1



Convertors / Adaptors

For External device

BACnet® Gateway Software UTY-ABGX(Z1) £3113 	Network Converter for LONWORKS® UTY-VLGX £3113 	KNX® Converter for VRF UTY-VKGX NEW £1273 	MODBUS® Converter for VRF UTY-VMGX £530 
BACnet® Gateway Hardware UTY-VBGX NEW Future Release 	MODBUS® Interface FJ-RC-MBS-1 £234 	KNX® Interface FJ-RC-KNX-1i £265 	Wireless LAN Interface FJ-RC-WIFI-1 £234 

For System expansion

Network Converter for single split UTY-VTGX £427 	Network Converter for single split UTY-VTGXV AC power supply type £584 	Network Converter for Group Remote Controller UTY-VGGXZ1 £456 
Signal Amplifier UTY-VSGXZ1 £729 	External Switch Controller UTY-TEKX / UTY-TERX £90 / £90 	

Panels

For Cassette type

Cassette Grille UTG-UFYC-W For Compact Cassette type £157 	Cassette Grille UTG-UGYA-W For Cassette type £166 	Cassette Grille UTG-UKYC-W NEW For Circular flow Cassette type £174 
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OPTIONAL PARTS

For Duct type

Flange (Round) £31

UTD-RF204

For Medium Static Pressure Duct type /
Ceiling type - pack of 4



Flange (Square) £42

UTD-SF045T

For Medium Static Pressure Duct type



Remote Sensor Unit £56

UTY-XSZX

For All Duct type

New amenity space can be
offered by installing the
Remote sensor.



Long-Life Filter

UTD-LF25NA £95

For Medium Static
Pressure Duct type



UTD-LF60KA £95

For High Static
Pressure Duct type



Auto Louvre Grille Kit

UTD-GXSA-W £135

(for ARXD04-14GALH, ARXK07-12GCLH)

UTD-GXSB-W £151

(for ARXD18GALH)

UTD-GXSC-W £187

(for ARXD24GALH)



Drain Pump Unit £62

UTZ-PX1NBA

For Medium Static Pressure Duct type



For Cassette type

Fresh Air Intake Kit £291

UTZ-VXAA

For Compact
Cassette type



Fresh Air Intake Kit £364

UTZ-VXGA

For Cassette type



Fresh Air Intake Kit £364

UTZ-VXRA **NEW**

For Circular Flow
Cassette type



Human Sensor Kit £65

UTY-SHZXC **NEW**

For Circular Flow Cassette



For Ceiling type

Drain Pump Unit £47

UTR-DPB24T

For Ceiling type



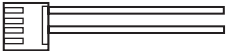
Flange (Round) £31

UTD-RF204

For Ceiling type
pack of 4



External Inputs & Outputs

For Indoor unit £9 each UTY-XWZXZ7  UTY-XWZXZD 		For Outdoor unit £9 each UTY-XWZXZ6 	
UTY-XWZXZB  UTY-XWZXZE 		UTY-XWZXZ9 	
UTY-XWZXZC 		UTY-XWZXZF 	
For RB unit £9 each UTY-XWZXZ6 		For Central Remote Controller £9 each UTY-XWZXZ7 	
UTY-XWZXZB 		UTY-XWZXZ8 	
		UTY-XWZXZA 	
		For Touch Panel Controller £9 each UTY-XWZXZA 	

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	●*3 ○*3	—
	Batch Stop	—	●UTY-XWZXZ6	—	—	—
	Forced Stop	●UTY-XWZXZD ○UTY-XWZXZB	—	—	—	—
	Emergency Stop	●UTY-XWZXZD ○UTY-XWZXZB	●UTY-XWZXZ6	●UTY-XWZXZ7 ○UTY-XWZXZ8	●*3 ○*3	—
	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	—	●*3 ○*3	—
Output	Operation Status	●UTY-XWZXZC	○UTY-XWZXZ6	○UTY-XWZXZA	○UTY-XWZXZA	—
	Error Status	●UTY-XWZXZC	○UTY-XWZXZ6	○UTY-XWZXZA	○UTY-XWZXZA	—
	Indoor Unit Fan Operation Status	●UTY-XWZXZC	—	—	—	—
	Auxiliary Heater Output	●UTY-XWZXZC*2	—	—	—	—
	Base Heater	—	●UTY-XWZXZ9	—	—	—

*1. Heat Pump type only

*2. Duct type only

*3. Touch Panel Controller has these functions for Dry contact and Apply voltage, however, above External Connect Kit is not necessary because Touch Panel Controller has an external input terminal block.

●: Dry Contact ○: Apply Voltage

OPTIONAL PARTS

Others

For LARGE VRF

Outdoor Unit Branch Kit		
UTP-CX567A £157 Gas Pipe  Liquid Pipe 	UTP-DX567A £162 Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe 	
EV Kit	RB Unit	
Model code ≤ 09 : UTR-EV09XB £71 Model code ≤ 12 : UTR-EV14XB £71 For Compact Wall Mounted type 	UTP-RX01AH £337 / UTP-RX01BH £372 / UTP-RX01CH £427 Single type 	UTP-RX04BH £1345 Multi type 

For LARGE VRF

Separation Tube			
UTP-AX054A £53 Gas Pipe  Liquid Pipe 	UTP-AX090A £61 Gas Pipe  Liquid Pipe 	UTP-AX180A £90 Gas Pipe  Liquid Pipe 	UTP-AX567A £157 Gas Pipe  Liquid Pipe 
UTP-BX090A £67 Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe 	UTP-BX180A £96 Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe 	UTP-BX567A £162 Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe 	UTP-LX180A £90 For DX-Kit 
Header			
UTR-H0906L £163 UTR-H1806L £165 Gas Pipe  Liquid Pipe  6 Connections	UTR-H0908L £167 UTR-H1808L £171 Gas Pipe  Liquid Pipe  8 Connections	UTR-J0906A £218 UTR-J1806A £224 Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe  6 Connections	UTP-J0908A £229 UTP-J1808A £234 Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe  8 Connections

Specifications

Separation Tube

Model name		UTP-AX054A	UTP-AX090A	UTP-AX180A	UTP-AX567A
Total cooling capacity of indoor unit (kW)		19.6 or less	28.0 or less	28.1 to 56.0	56.1 or more
List Price	£	53	61	90	157

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
List Price	£	67	96	162

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
System List Price	£	163 / 167	165 / 171

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
List Price	£	218 / 229	224 / 234

Outdoor unit Branch kit

Model name		UTP-CX567A (for V-II/V-III)	UTP-DX567A (for VR-II)
Number of outdoor unit	2 outdoor units	1	
	3 outdoor units	2	
List Price	£	157	162

EV Kit

Model name		UTR-EV09XB	UTR-EV14XB
Application model		ASYE04GACH ASYE07GACH ASYE09GACH	ASYE12GACH ASYE14GACH
List Price	£	71	71

RB Unit

Type		Single type			Multi type
Model name		UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH
Power source	V/Ø/Hz	230/ 1 / 50			
Input power	W	17	24	31	96
Number of branches		1	1	1	4
Maximum capacity of connectable indoor units (Q)	kW	Q 8.0	Q 18.0	Q 28.0	Q 56.1*1
Maximum capacity of connectable indoor units per branch (Q)	kW	Q 8.0	Q 18.0	Q 28.0	Q 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
List Price	£	337	372	427	1345

*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.

Support

Service Tool £728
UTY-ASGXZ1



Web Monitor Tool £POA
UTY-AMGXZ1



USB Adaptor £468
USB75010R

Needed for
UTY-ASGXZ1 & UTY-AMGXZ1



Outdoor Unit Strip & Rebuild
From **£1800**
(Terms & Conditions Apply)



Refrigerant Leak Detection



The F-Gas regulations are an EU environmental regulation brought into effect on the 4th July 2007, as part of the European Unions obligations under the Kyoto protocol. F-gasses or HFC's (hydrofluorocarbons) can cause harm to our environment and cause climate change. These regulations are directed at reducing cover both pure HFC's such as R134a and blends like R404a.

Refrigerant Leak Detection

To Meet the requirements of BS-EN378 all split / VRF systems containing refrigerant gasses installed in a Category Class A space (Hotel Bedroom or similar) must meet the limitations regarding maximum system refrigerant volumes that could leak within the space

Fujitsu's Design Simulator program can be used to accurately calculate the actual refrigerant volumes based on the system size and the proposed pipe-work lengths and configuration

If these aforementioned limitations are exceeded there must be an alarm system to alert the occupier through both audible and visual indication, this alarm must also alert the staff such as supervisors, night porters etc.

There is no specific requirement for the alarm system to be linked to the refrigerant system to pump down or stop the operation.

Individual Sensors



TQ31

Monitors all refrigerant gasses typically used in air conditioning systems

Stand alone, single point refrigerant detector and alarm unit ideal for room monitoring.

Resistant to cross sensitivity from hairspray and deodorants so are ideally suited in a hotel / Bedroom environment.

Designed as a single point, self contained unit but can be connected to a TQ32 Area Alarm panel for remote monitoring and group alarms.

Area Alarm Panels & Indicator Panel



TQ32 (32 Channel & 64 Channel)

Upto 64 individual sensor inputs gives wide area coverage

The TQ32 Area Alarm Panel combined with the TQ31 sensors enables the group monitoring of individual rooms for common refrigerants used in air conditioning systems

Designed for hotel or office use, a single alarm panel will typically monitor 1 or 2 floors depending on the number of sensors needed.

The 3 digit LED display shows individual room numbers.

Configurable alarm outputs can provide plant trip signals and alert the reception desk, via the optional TQ34 indicator panel or a 3rd party alarm.



TQ34

Upto 8(max) Area Alarm Panel inputs for whole building coverage

The TQ34 Floor Indicator Panel combined with the TQ32 Area Alarm Panels and the TQ31 Individual Sensors enables the monitoring of the entire building

Designed for hotel or office use, a Indicator panel will typically monitor 1-8 floors depending on the number of Area Alarm panels used



Specifications

Model name	TQ31	TQ32 (32 Channel)	TQ32 (64 Channel)	TQ34
Power Source	220/240v 50Hz	220/240v 50Hz	220/240v 50Hz	220/240v 50Hz
Power Consumption	<1.5w	<1.5w	<1.5w	<1.5W
Max switching current (Amp)	2	2	2	2
Indicator LED's	Power, Alarm	Power, Alarm, Room Number	Power, Alarm, Room Number	Power, Alarm, Floor Number
Audible Alarm (minimum dB)	75	85	85	85
Gases Detected	Halocarbon Refrigerants	—	—	—
Detection Range	10000 PPM (factory set 1000-5000)	—	—	—
Dimensions (H x W x D) (mm)	85 x 146 x 50	364 x 284 x 120	364 x 284 x 120	364 x 284 x 120
Weight (Kg)	0.3	1 approx.	1 approx.	1 approx.
List Price	£ 288	2271	2574	1969

VENTILATION

Effective heat exchange and 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.

- 208 Energy Recovery Ventilator
- 210 Energy Recovery Ventilator Options
- 212 Outdoor Air Unit
- 214 DX-Kit for Air Handling Application
- 216 Freeverter for Air Handling Application





PRODUCT LINEUP

Airflow rate (m³/h)	250	350	500	800	1000	1500	2000			
Energy Recovery Ventilator Page 208										
ERV Options Page 210	UTZ-BD025B	UTZ-BD035B	UTZ-BD050B	UTZ-BD080B	UTZ-BD100B					
Outdoor Air Unit Page 212										
					ARXH054GTAH	ARXH072GTAH	ARXH096GTAH			
Connectable Capacity class (kW)	5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0
DX-Kit for air handling applications Page 214										
	EEV unit UTP-VX30A	Control unit UTY-VDGX	EEV unit UTP-VX60A	Control unit UTY-VDGX	EEV unit UTP-VX90A	Control unit UTY-VDGX	EEV unit UTP-VX90A × 2	Control unit UTY-VDGX		
Connectable Capacity class (kW)	3.5	5.2	6.8	8.5	9.4	10.0	12.5	14.0	20.3	25.0
Freeverter for air handling applications Page 216										

Energy Recovery Ventilator

A comfortable air conditioned space is achieved by conveniently selecting whether to use heat exchange or normal ventilation setting, according to the requirements of the conditioned space.

Energy recovery ventilator units offer 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

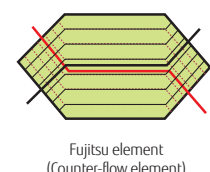
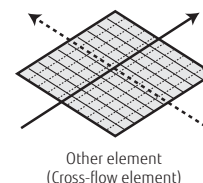
The operation is used during periods when the room space requires no cooling or heating effect, i.e. when there is minimal temperature difference between the indoor and outdoor environments.

Energy efficiency and ecology

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

Features of heat exchange element

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



Quiet operation

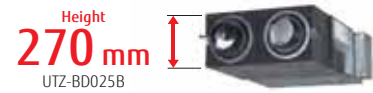
Significantly reducing low pressure loss and noise allows low-noise operation.

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 buildings.

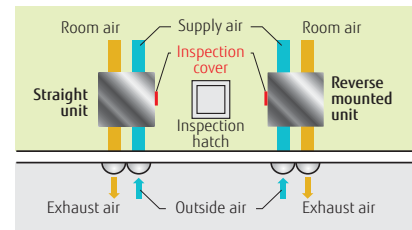
Slim shape and easier installation

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.



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



UTZ-BD025B



UTZ-BD035B



UTZ-BD050B



UTZ-BD080B



UTZ-BD100B

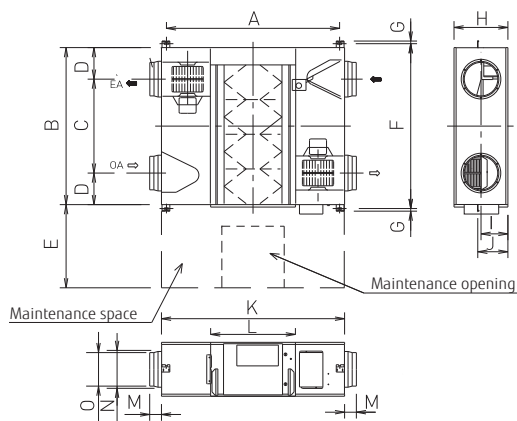
Specifications

Rated flow rate				250 m³/h	350 m³/h	500 m³/h	800 m³/h	1000 m³/h
Model No.				UTZ-BD025B	UTZ-BD035B	UTZ-BD050B	UTZ-BD080B	UTZ-BD100B
Power source				220 ~ 240V, 50Hz				
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	m³/h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1000 / 1000 / 700
			l/s	69 / 69 / 52	97 / 97 / 66	138 / 138 / 122	222 / 222 / 175	277 / 277 / 194
	External static pressure	(Extra high)/High/Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75
	Temperature Exchange Efficiency	(Extra high)/High/Low	%	75 / 75 / 77	75 / 75 / 78	75 / 75 / 76	75 / 75 / 76	75 / 75 / 79
	Energy Exchange Efficiency Cooling	(Extra high)/High/Low	%	63 / 63 / 65	66 / 66 / 71	62 / 62 / 64	65 / 65 / 68	65 / 65 / 70
	Energy Exchange Efficiency Heat pump	(Extra high)/High/Low	%	70 / 70 / 72	69 / 69 / 73	67 / 67 / 69	71 / 71 / 74	71 / 71 / 76
	Sound pressure level	(Extra high)/High/Low	dB*	31.5 / 30.5 / 26.5	33 / 31 / 25.5	37.5 / 35.5 / 32.5	37.5 / 37 / 34.5	38.5 / 37.5 / 34.5
Normal Ventilation	Input power	(Extra high)/High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311
	Air flow rate	(Extra high)/High/Low	m³/h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1000 / 1000 / 700
			l/s	69 / 69 / 52	97 / 97 / 66	138 / 138 / 122	222 / 222 / 175	277 / 277 / 194
	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
				(Extra high)/High/Low	dB*	37.5 / 37 / 34.5	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
Weight				kg		29	49	57
Outlet duct diameter				mm		150	150	200
Operation range				°C		-10 to 40	-10 to 40	-10 to 40
Maximum humidity				%		85	85	85
List Price				£		707	874	1123
							1633	1851

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

Dimensions

(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



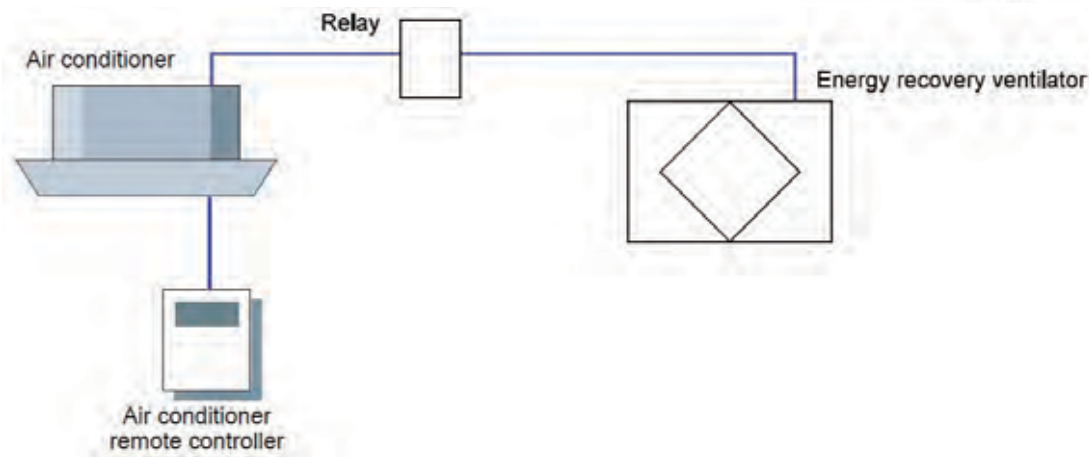
Energy Recovery Ventilator Options



Features

ERV RELAY

This accessory will allow an Energy Recovery Ventilator unit to start & stop in unison with the connected indoor unit
(There will be no control over on / off, fan speed or damper bypass)



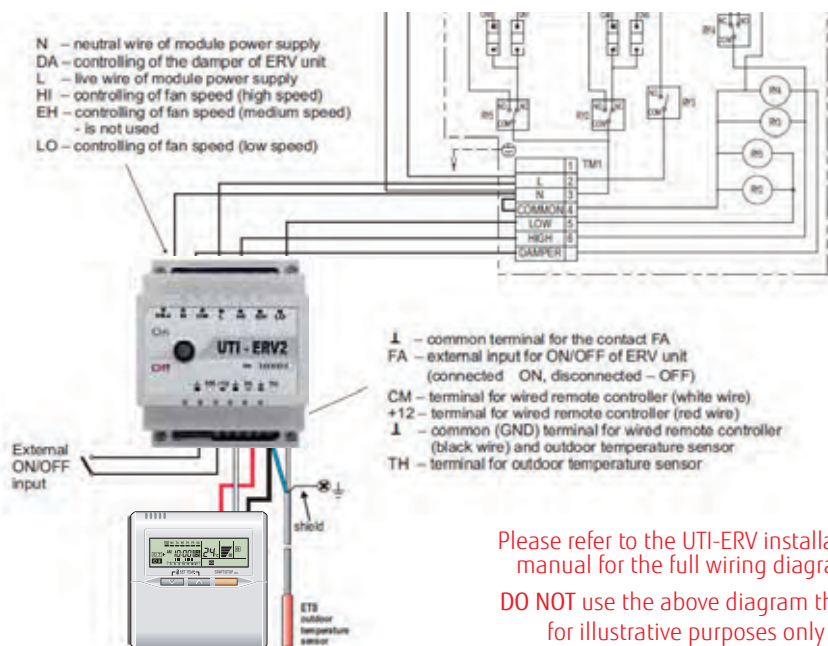
Model Name		UTY-ERVRELAY1	
Power source		208 - 240V, 50Hz, Single Phase	
Dimensions (H x W x D)	mm	TBC	
Weight	g	TBC	
List Price	£	76	

Hard wired Control Interface

In order to use a Fujitsu hard-wired controller with the ERV units an interface is required

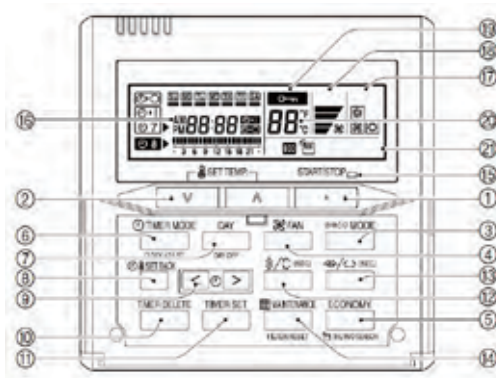
The UTI-ERV2 interface provides the following features:-

- UTI-ERV2 interface is supplied with an outside air intake duct sensor for control of the ERV bypass damper e.g. heat recovery or "free cooling" bypass mode
- Dry contact terminals for remote on/off e.g. from BMS
- Allows the use of a Fujitsu UTY-RNKY* hard wired controller which has the following features:
- Allows ERV fan speed selection from the remote controller
- Controller has an integral 7 day programmable time clock
- Controller has temperature selection for auto control of the damper
- Filter clean indicator facility
- Manual or Auto control of the bypass damper

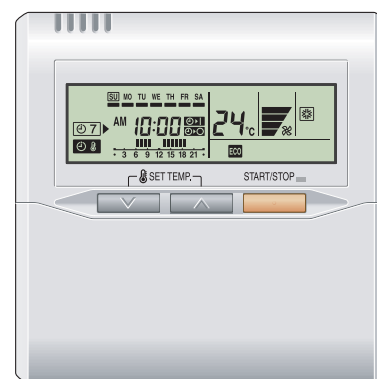


Please refer to the UTI-ERV installation manual for the full wiring diagram
DO NOT use the above diagram this is for illustrative purposes only

Description of the buttons on UTY-RNKY remote



1. Start / Stop
 2. Set Temperature
 3. Master Control
 4. Fan Control
 5. ERV on/off
 6. Timer mode (clock adjust)
 7. Day (day off)
 8. Set Back
 9. Set Time
 10. Delete
 11. Set
 12. N/A
 13. N/A
 14. Filter Button
 15. Operation Lamp
 16. Timer & Clock Display
 17. Operation Mode Display
 18. Fan Speed Display
 19. Operation Lock Display
 20. Temperature Display
 21. Function Display
- Delete
 Set Button



Model Name		UTI-ERV2	UTY-RNKY
Power source		208 - 240V, 50/60Hz, Single Phase	From UTI-ERV2
Power Consumption	W	6.5	-
Dimensions (H x W x D)	mm	67 x 288 x 211	120 x 120 x 18
Weight	g	1,500	160
List Price	£	366	83

*UTY-RNKY to be ordered separately

Outdoor Air Unit

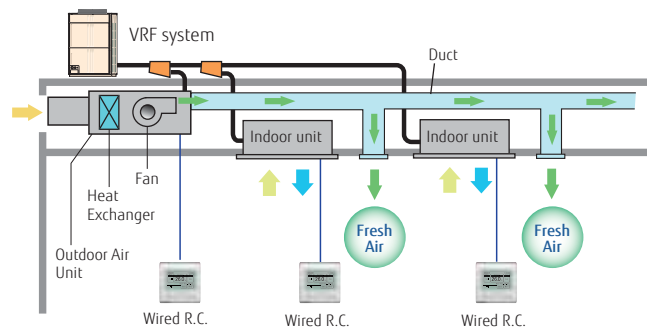
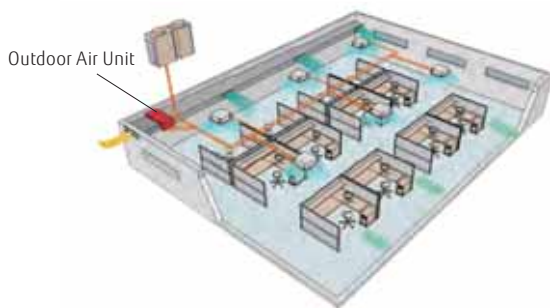
The Outdoor Air Unit efficiently processes the outdoor air for cooling heating and supplies 100% fresh air into a room.

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.

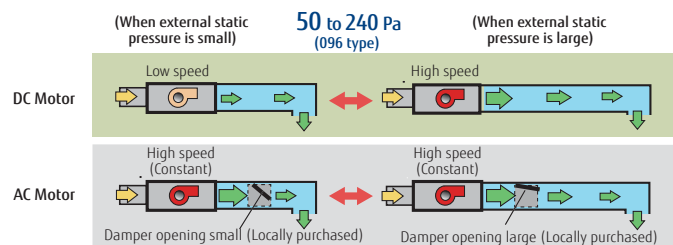
*1. Connectable VRF series: J-IIS, J-II, J-III, J-III-L, V-III, VR-II, OAU is prohibited to connect under the ambient temperature of 40°C or higher.



* 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 sure the Outdoor Air Unit connection capacity is 30% or less of the outdoor unit capacity.

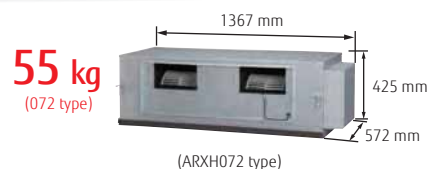
High energy savings and flexible duct design by using a DC fan motor

- 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.



Compact design

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



Various Controllers

Variety of control options can be supplied, 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.

Model : ARXH054GTAH / ARXH072GTAH / ARXH096GTAH Production by order



ARXH054GTAH



ARXH072GTAH



ARXH096GTAH

Specifications

Model name			ARXH054GTAH	ARXH072GTAH	ARXH096GTAH
Power source		V/Ø/Hz	230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	14.0	22.4	28.0
	Heating	kW	8.9	13.9	17.4
Input Power	Cooling/Heating	W	179	292	370
Airflow Rate		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)		Inch	3/8 & 3/4	1/2 & 7/8	1/2 & 7/8
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
List Price		£	2480	4008	4238

Note : Specifications are based on the following conditions.

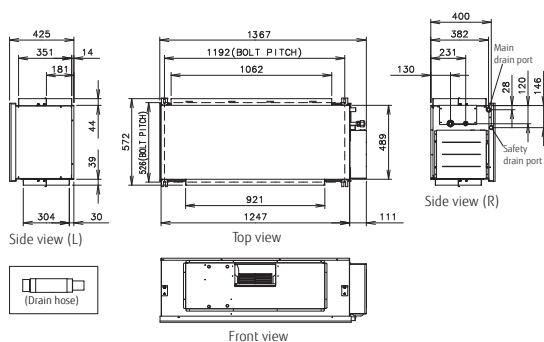
Cooling : Outdoor temperature of 33°CDB / 28°CWB.
Heating : Outdoor temperature of 0°CDB / -2.9°CWB.

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

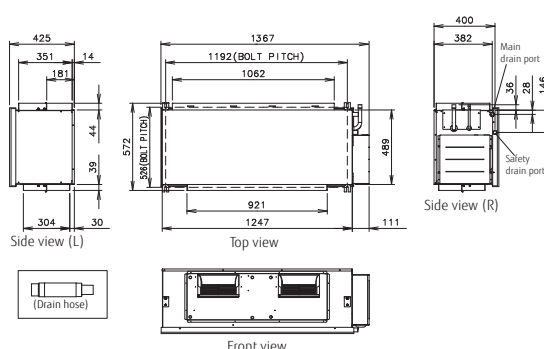
Dimensions

(Unit : mm)

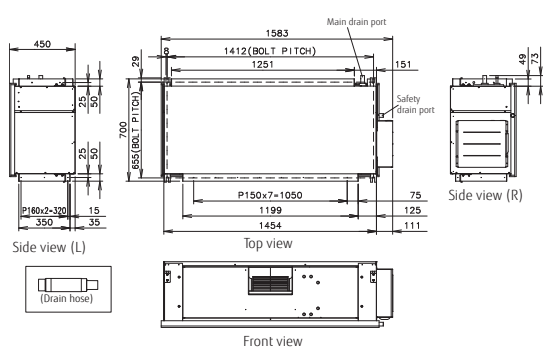
ARXH054GTAH



ARXH072GTAH



ARXH096GTAH

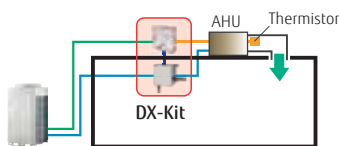


DX-Kit for Air Handling Applications

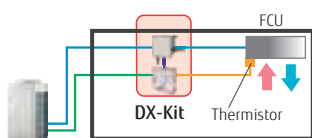
These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or, be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).

Features

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

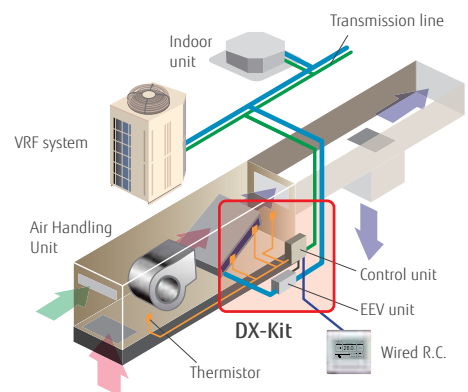


When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.



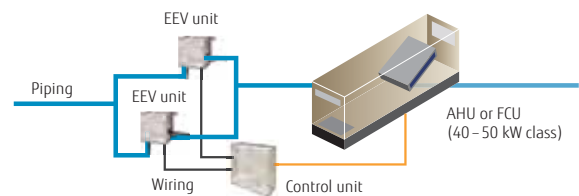
When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

Arrangement as part of a VRF system



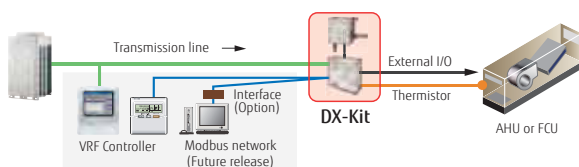
Supports a wide range of capacity classes

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

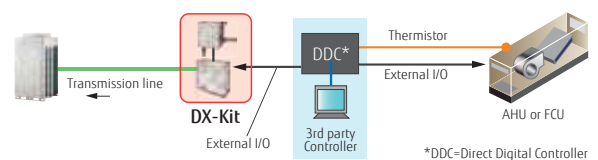


A variety of controls to match the application

Central control using our VRF controllers or central management controllers



Central control from on site BMS



Functions Summary

Inputs

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

Outputs

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

MODBUS® Control

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

Installation Limitation

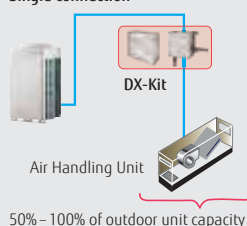
- Connectable VRF series: J-IIS, J-II, J-III, J-IIIL, V-III, VR-II
- Connectable DX-Kit system capacity range: 50 to 100% of the outdoor unit capacity
- Connectable DX-Kit system capacity range with indoor units: 30% or less of the outdoor unit capacity
- Max. wiring length from control unit to sensor positions: 15 m
- Max. wiring length from control unit to EEV: 10m
- Max. piping length between EEV unit and indoor unit: 5 m
- Outdoor installation: Control unit (IP54 rated) and EEV unit can be installed in an outdoor environment.

For 2EEV units connection (option)
Separation Tube: UTP-LX180A £90

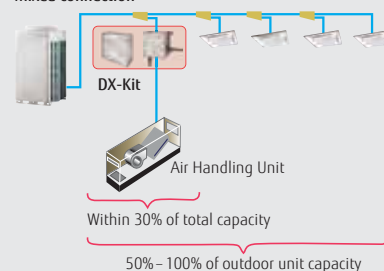


Connectable capacity

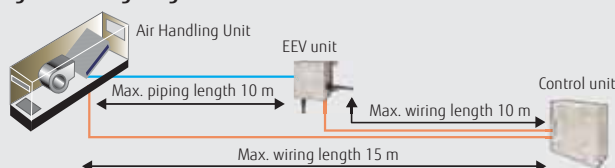
• Single connection



• Mixed connection



Piping and wiring length



Control unit: UTY-VDGX

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



Specifications

Connectable Capacity class			5.0 kW	6.3 kW	8.0 kW	10.0 kW	12.5 kW	14.0 kW	20.0 kW	25.0 kW	40.0 kW	50.0 kW
Capacity	Cooling	kW	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/Ø/Hz	230/1/50									
Dimensions (H x W x D)		mm	400 × 400 × 120									
List Price		£	780									
EEV Unit			UTP-VX30A		UTP-VX60A		UTP-VX90A		UTP-VX90A x2			
Connection Pipe Diameter (Liquid)		mm	3/8		1/2		1/2		1/2			
Dimensions (H x W x D)			160 × 220 × 90									
List Price		£	240		240		240		480			

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].

Freeverter for Air Handling Applications

Freeverter is an interface module developed for FUJITSU Split System heat pump outdoor units so that they can be used to provide cooling or heating for DX Air Handling units ((AHU's) by other manufacturers).

Features

By interfacing a FUJITSU heat pump to a DX coil in an air handling unit (AHU(by others)), outside air for ventilation purposes can be efficiently and cost effectively cooled and heated by a single outdoor Heat Pump unit for year round operation.

The freeverter module can accept dry contact fan, heat, Cool control inputs & 0-10vDC capacity signals from site BMS systems to control the Fujitsu outdoor units (3.5kW to 25kW capacity sizes). If no BMS is available then optional duct or room controllers will need to be added for a stand alone solution. 30 control steps are available from 0% to 100% capacity



The Freeverter control logic is very well protected:

- Automatic defrost.
- Automatic defrost after stop.
- Compressor protection.
- Compressor pre-heating.
- Auto restart after power failure.

	Freeverter
Product Code	UTY-FVI
Power Supply	230vAC 50Hz 1 Phase
Power Consumption	4w
Current	0.015A
Inputs Cool / Heat	Dry Contact 20mA
Inputs Cool / Heat 0 - 10vDC	Impedance 10Kohm
Coil Sensor Length	2m
Fan Out	Dry Contact relay max 240v, 0.3A
Error Out	Dry Contact relay max 240v, 0.3A
Housing Colour	RAL7035
Protection Rating	IP66
List Price	1329



	Cooling kW (1)	EER	Heating kW (1)	COP	Heating @ -10°C kW	Power Supply V/ Ph	Pipe Run Min - Max (2)	Pipe Size	Max R410A gas charge kg (3)	Run Amps clg/htg (4)	Outdoor unit List Price £
AOYG12LA	3.5 (0.9-4.4)	3.33	4.1 (0.9-5.7)	3.69	4.06	230V / 1ph	3 - 10m	3/8, 1/4	1.35	4.8 / 5.1	661.00
AOYG18LA	5.2 (0.9-5.9)	3.21	6.0 (0.9-7.5)	3.61	5.44	230V / 1ph	3 - 10m	1/2, 1/4	1.45	7.2 / 7.4	784.00
AOYG24LA	6.8 (0.9-8.0)	3.08	8.0 (0.9-9.1)	3.54	6.76	230V / 1ph	3 - 20m	5/8, 1/4	2.00	9.7 / 9.9	1,004.00
AOYG30LE	8.5 (2.8-10.0)	3.21	10.0 (2.7-11.2)	3.73	8.33	230V / 1ph	3 - 20m	5/8, 3/8	3.30	11.6 / 11.7	1,262.00
AOYG36LE	9.4 (2.8-11.2)	3.18	11.2 (2.7-12.7)	3.61	9.41	230V / 1ph	3 - 20m	5/8, 3/8	3.30	13.0 / 13.6	1,499.00
AOYG45LE	12.5 (4.5-14.0)	2.91	14.0 (5.0-16.2)	3.68	12.03	230V / 1ph	3 - 30m	5/8, 3/8	4.55	16.5 / 16.1	1,701.00
AOYG36LA	10.0 (4.7-11.4)	3.52	11.2 (5.0-14.0)	3.90	11.32	400V / 3ph	5 - 30m	5/8, 3/8	5.60	4.3 / 4.4	1,502.00
AOYG45LA	12.5 (5.0-14.0)	3.08	14.0 (5.4-16.2)	3.81	12.93	400V / 3ph	5 - 30m	5/8, 3/8	5.60	6.4 / 5.5	1,847.00
AOYG54LA	14.0 (5.4-16.0)	3.01	16.0 (5.8-18.0)	3.66	13.54	400V / 3ph	5 - 30m	5/8, 3/8	5.70	6.9 / 6.5	1,941.00
AOYA72LA	20.3 (10.8-23.5)	3.25	22.6 (12.0-26.5)	3.60	19.40	400V / 3ph	5 - 50m	7/8, 1/2	17.25	9.6 / 9.6	3,062.00
AOYA90LA	25.0 (11.2-28.0)	3.20	28.0 (12.5-31.5)	3.40	22.76	400V / 3ph	5 - 50m	7/8, 1/2	17.25	11.9 / 12.5	3,367.00

Cooling capacities based on +4°C evaporating temperature and 35°C outside ambient.

Instantaneous heating capacities (excluding defrost) at

+45°C condensing temperature and +7°C and -10°C outside air temperature.

Operating limits:

Cooling: -10°C ~ 46°C

Heating: -15°C ~ 24°C



AOYG12-24LA



AOYG30-36LE



AOYG45LE
AOYG36-54LA



AOYA72-90LA

Stand Alone Control options

If no site BMS exists then optional controls can be

used to enable a stand alone solution.

(available from controls or heating distributor)



RLM162
Supply / Return air
duct sensor



RLA162
Room Sensor Controller



QAC22
Outdoor Air Sensor

FUJITSU TRAINING

Course 1

An Introduction to the Fujitsu Product Portfolio

Course Objectives

To develop an understanding of the Fujitsu product range.
To educate the attendee on the importance of air conditioning, how air conditioning works and the benefits and advantages of the Fujitsu product.

Course Summary

Throughout this course the delegates will receive:

- Explanation on how to educate the end user of the benefits of air conditioning.
- A basic understanding of the primary functions of an air conditioner.
- An overview of the features and options on the Fujitsu models.
- Details on Fujitsu marketing and sales material.
- Training course information and a tour of our training rooms.
- How and when to select the correct system.
- Explanation on how to operate a system efficiently.
- Explanation of the different sophisticated control options.
- Design Simulator demonstration.
- Website demonstration.

Course 2

Split and Multi-Split System - Installation, Commissioning, Troubleshooting and Service Tool

NEW

Course Objectives

To develop an understanding of the Fujitsu Split Systems. To obtain sufficient knowledge to install, commission and troubleshoot these types of systems.

Course Summary

Throughout the course practical exercises will reinforce the learning process. The course will include:

- Introduction to the course objectives.
- Explanation of the terms and technologies (e.g. Inverters, double swing louvres etc).
- Review of refrigerant and electrical circuit diagrams and basic operation.
- Pipe work, interconnecting cable and control methods.
- Practical exercises (e.g. board and fan motor change).
- Remote controller types - functions, setting up, fault codes and Wi-Fi options.
- Fault finding - practical exercises.
- Introduction to the new fault finding application.

Proof of Company F-Gas registration is required for this course.

Course 3

Mini VRF - Installation, Commissioning and Troubleshooting

NEW

Course Objectives

To develop an understanding of the Fujitsu Advanced Mini VRF Systems. To obtain sufficient knowledge to install, commission and troubleshoot these types of systems.

Course Summary

Throughout the course practical exercises will reinforce the learning process. The course will include:

- Introduction to the course objectives.
- Explanation of the terms and technologies (e.g. inverters, double swing louvres etc).
- Review of refrigerant and electrical circuit diagrams and basic operation.
- Pipe work, interconnecting cable and control methods.
- Practical exercises (e.g. Special functions and commissioning procedure).
- Remote controller types - functions, setting up, fault codes and Wi-Fi options.
- Fault finding - introduction and practical exercises, including service tool demonstration.
- Introduction to the new fault finding application.

Proof of Company F-Gas registration is required for this course.

Course 4a/4b

VRF System Application and Design Including Design Simulator

4a Full Day
4b Half Day

Course Objectives

To develop an understanding of the Fujitsu VRF Systems. To obtain sufficient knowledge for the application and design of this type of system for the both new build and refurbishment projects.

Course Summary

Throughout this course, with the use of extensive hands-on exercises, the delegates will:

- Understand the basic operation and features of a Fujitsu VRF System. (4a)
- Select indoor units and understand the features of each type of indoor unit. (4a/4b)
- Understand the features of the outdoor unit. (4a)
- Understand the limitations of the system. (4a)
- Calculate the system refrigerant charge. (4a/4b)
- Design the refrigerant pipe work. (4a/4b)
- Understand the system power supply requirements. (4a)
- Design the system control wiring and understand the system address setting Configuration. (4a/4b)
- Understand the control system options and the configuration of each. (4a/4b)
- Design a complete VRF system for an example building using Design Simulator. (4a/4b)
- Website demonstration. (4a)

**Course
5**

VRF System Installation, Commissioning and Service Tool

NEW**Course Objectives**

To develop an understanding of the Fujitsu VRF Systems. To develop a basic understanding of the design methodology relevant to Fujitsu VRF Systems. To obtain sufficient knowledge to install and commission these type of systems

Course Summary

Throughout this course with the use of extensive hands-on training, the delegates will:

- Understand the limitations of the system.
- Understand the pipe work design.
- Calculate the system refrigerant charge.
- Understand the system power supply requirements.
- Design the system control wiring and understand the system address setting configuration.
- Understand the control systems options.
- Set-up the system address configuration of the outdoor and indoor units.
- Understand how to start-up the system and test run.
- Understand the recommended installation procedures.
- Learn how to set up and operate the Central Remote Controller.
- Learn how to avoid common mistakes.
- Introduction to the new fault finding application.

**Proof of Company F-Gas registration
is required for this course.**

**Course
6**

VRF Advanced Service and Troubleshooting including Service Tool

Course Objectives

To develop a thorough understanding of Fujitsu VRF Systems. To obtain specialist knowledge to commission and troubleshoot this type of VRF system using the Service Tool Software.

Course Summary

Throughout this course with the use of extensive hands-on training, the delegates will:

- Understand the limitations of the system.
- Calculate the system refrigerant charge.
- Understand standard service procedures (including oil recovery, pump-down etc.).
- Use the CRC and TTPC as fault-finding tools.
- Learn fault-finding procedures.
- Understand the meaning of system error codes and how to rectify them.
- Learn component fault finding techniques.
- Learn how to commission and troubleshoot the system using the Fujitsu Service Tool Software.
- Introduction to the new fault finding application.

**Proof of Company F-Gas registration
is required for this course.**

**Course
7**

VRF Central Controllers - Installation and Commissioning

NEW**Course Objectives**

To develop a thorough understanding of Fujitsu VRF communication network and control options. To obtain specialist knowledge to install, commission and troubleshoot these types of VRF controllers, software and interfaces.

Course Summary

Throughout this course with the use of extensive hands-on training, the delegates will:

- Understand the limitations of the system and the control options.
- Install and commission Central Controllers (including software).
- Understand firmware and data transfer.
- Understand basic BMS contacts (e.g. Fire alarm and motion operation).
- Use the Central Controllers as a fault-finding tool.
- Learn fault-finding procedures and remote monitoring.
- Understand errors and error codes and how to rectify them.
- Introduction to the new fault finding application.

**Course
8**

R32 - An Insight to R32, Including Installation, Commissioning and Troubleshooting

NEW**Course Objectives**

To develop an understanding of the benefits of R32. To obtain sufficient knowledge about the differences between R410A and R32. Using the correct tools, installation methods, commissioning and troubleshooting procedures.

Course Summary

This course will include the following:

- An overview of R32.
- An understanding of the product and the benefits.
- Explanation of terms and technologies.
- Review of refrigerant and electrical circuit diagrams and basic operation.
- Pipe work, interconnecting cable and control methods.
- Practical exercises (e.g. Board and fan motor change).
- Remote controller types - WiFi, functions, setting up and fault codes.
- Fault finding - practical exercises.
- Website demonstration.
- Introduction to the fault finding application.

**Proof of Company F-Gas registration
is required for this course.**

FUJITSU TRAINING

Course
9

ATW Systems - Product Overview, Installation, Commissioning and Troubleshooting

Course Objectives

To develop an understanding of the Fujitsu ATW Systems, with operational functions and advanced troubleshooting service techniques.

Course Summary

Throughout this course, with the use of extensive hands-on training, the delegates will:

- Understand the basic operation and features of the Fujitsu ATW System.
- A detailed explanation of the system components and their function.
- Refrigerant circuit overview.
- Water circuit overview.
- Wiring and PCB circuit overview.
- Understanding the system power supply requirements.
- Voltage, pressures and temperature explanation.
- Commissioning and service functions.
- Incorrect field setting effects explained.
- ACS service software and troubleshooting demonstration.

Course
10

AHU DX Kit and Freeverter options - Design, Installation and Commissioning

Course Objectives

To develop an understanding of the Fujitsu AHU options and control solutions. To obtain sufficient knowledge to install these types of systems.

Course Summary

Throughout this course with the use of extensive hands-on training, the delegates will:

- Selecting an AHU and the correct DX Kit.
- Installing DX Kit and Freeverter.
- Configuration.
- Control options, including external controls and BMS solutions.
- Commissioning.

Course Locations

London - All Courses

Dublin - Courses 1 - 9

All other Venues - Course 1, 2, 3, 4b, 5 & 6

Courses 1 and 4b are available on request at customers premises.

UK - London

- Hampshire

- Midlands

- Glasgow

- Belfast

Ireland - Dublin



2017-18 TRAINING CALENDAR

The following dates are available at our London training centre. If your preferred course, date or training centre is not shown please contact us to book a course at your nearest centre.

	October 2017	November 2017	December 2017	January 2018	February 2018	March 2018	April 2018	May 2018
1								
2								2
3	2						2	8
4	3						3	
5	8		2				8	
6			3		2	5		
7		2			3	10		
8		3			8			
9				2				5
10				3			5	3
11	5			8			6	
12	6		5				10	
13			6		2	2		
14		2			6	3		
15		3				8		2
16		5		5				3
17	2			6			2	8
18	3						3	
19	8		2				8	
20			3		2	2		
21		2	8		3	3		
22		8			5			
23				2				
24	10			3				
25	2			8				
26								
27								
28								
29								
30								
31								

Table Key Course Number

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Product Group

ALL
SS,MS
Mini VRF
VRF
VRF
VRF
VRF
R32
ATW
AHU

Course Title

An introduction to the Fujitsu Product Portfolio
Split and Multi Split Systems - Installation, Commissioning and Troubleshooting
Mini VRF - Installation, Commissioning and Troubleshooting
Application and Design (Inc Design Simulator)
Design Simulator (Software only)
Installation and Commissioning
Advanced Service and Troubleshooting (Inc Service Tool)
VRF Central Controllers - Installation and Commissioning
An insight into R32 - Installation, Commissioning, Troubleshooting
Overview, Installation, Commissioning, Troubleshooting
AHU DX Kit and Freeverter Options - Design, Installation and Commissioning

For more details on our training courses please contact Fujitsu General Air Conditioning (UK) on

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R22 REPLACEMENT

Pipe work re-use guidelines for Split Systems

Model	Liquid Pipe	1/4				3/8				1/2				5/8	Additional Charge
	Suction Pipe	3/8	1/2	5/8	3/4	1/2	5/8	3/4	5/8	3/4	1 1/8	1 1/8	1 1/8		
ASYG07-12LM															50g/m
ASYG07-12LU	S		20 15	—	—	8 6	—	—	—	—	—	—	—		
ASYG09-12LT															
ASYG14LM		—	S	20 15	—	8 6	8 6	—	—	—	—	—	—		50g/m
ASYG14LU															
ASYG18LF		—	S	25 15	—	10 6	10 6	—	—	—	—	—	—		50g/m
ASYG24LF		—	—	S	30 15	—	12 6	12 6	—	—	—	—	—		
ASYG30-36LM		—	—	—	—	—	S	50 20	20 9	20 9	—	—	—		90g/m
AUYG12LV															
ARYG12LL	S		25 15	—	—	10 6	—	—	—	—	—	—	—		50g/m
ARYG12LH															
ARYG12LS															
AUYG14-18LV															
ARYG14-18LL															50g/m
ARYG14-18LS	—	S	25 15	—	—	10 6	10 6	—	—	—	—	—	—		
ARYG14LH															
ABYG18LV															
AUXG18LR		—	S	30 15	—	12 6	12 6	—	—	—	—	—	—		
ARYG18LH															50g/m
AUYG24LV															
ARYG24LM															
ARYG24LH	—	—	S	30 15	—	12 6	12 6	—	—	—	—	—	—		
ABYG24LV															
AUXG24LR															
AUYG30-54LR (1~)															90g/m
AUXG30-54LR															
ARYG30-45LM (1~)	—	—	—	—	—	—	S	50 20	20 9	20 9	—	—	—		
ARYG45-54LH (1~)															
ARYG30-54LH															
ABYG30-45LR (1~)															
AUYG36-54LR (3~)															90g/m
ARYG36-45LM (3~)	—	—	—	—	—	—	S	75 30	30 10	30 10	—	—	—		
ARYG45-60LH (3~)															
ABYG36-54LR (3~)															
AOYG36-54LATT (3~)		—	—	—	—	—	S	75 30	30 10	30 10	—	—	—		90g/m
AOYG36-54LBTB (1~)															
ARYC72-90LH		—	—	—	—	—	—	—	—	—	—	S	48 12		170g/m
ARYG72-90LH															

S - Standard Pipe Size

Red - Maximum Pipe Length

Green - No Additional Charge up to this length

The above table refers to the only recognised R22 re-use combinations

Existing R22 pipe work can only be re-used if it is free from defect and contamination, insulated on both lines, and the existing R22 system can be operated for 30 minutes in cooling mode.

All systems should be installed in accordance with the manufacturers guidelines
Capacity and efficiency can be reduced when the STANDARD pipe sizes are not used.

Mobile Technician App

By FUJITSU GENERAL LIMITED



Error Detail	Indoor LED Display Flashes			Wired RC
	Operation	Timer	Economy	
Serial communication error	1	1	Continuous	11
Wired RC communication error	1	2	Continuous	12
Network communication error	1	4	Continuous	14
Check run unfinished	1	5	Continuous	15
Transmission/Peripheral connect error	1	6	Continuous	16
Refrigeration circuit address setting error	2	1	Continuous	21
Indoor unit capacity error	2	2	Continuous	22
Combination error	2	3	Continuous	23
Connection unit number error	2	4	Continuous	24
Address setting error	2	6	Continuous	26
Master/Slave unit set-up error	2	7	Continuous	27
Connection unit number error in WRC circuit	2	9	Continuous	29
Power supply interruption error	3	1	Continuous	31
Indoor PCB EPROM error	3	2	Continuous	32
Manual auto switch error	3	5	Continuous	35
Indoor unit WRC communication error	3	10	Continuous	3A
Inlet air temp sensor error	4	1	Continuous	41
Indoor Heat-Ex middle temp sensor error	4	2	Continuous	42
Indoor unit fan motor error	5	1	Continuous	51
Indoor EEV error	5	2	Continuous	52
Drain pump error	5	3	Continuous	53
Damper error	5	7	Continuous	57
Intake grille error	5	8	Continuous	58
Indoor unit error	5	15	Continuous	5U
Outdoor PCB/communication error	6	2	Continuous	62
Inverter error	6	3	Continuous	63
Active filter/PFC circuit error	6	4	Continuous	64
Trip terminal 'L' error	6	5	Continuous	65
Display PCB/communication error	6	10	Continuous	6A
OU Discharge temp sensor error	7	1	Continuous	71
Compressor temp sensor error	7	2	Continuous	72
OU Heat-Ex liquid temp sensor error	7	3	Continuous	73
OU Ambient temp sensor error	7	4	Continuous	74
OU Suction ref temp sensor error	7	5	Continuous	75
2/3 way valve temp sensor error	7	6	Continuous	76
OU Heat sink temp sensor error	7	7	Continuous	77
Sub-cool inlet/outlet temp sensor error	8	2	Continuous	82
OU Liquid pipe temp sensor error	8	3	Continuous	83
OU current sensor error	8	4	Continuous	84
HP/LP pressure sensor/switch error	8	6	Continuous	86
OU Current trip detection	9	4	Continuous	94
Compressor rotor location detection error	9	5	Continuous	95
OU fan motor error	9	7	Continuous	97
OU fan motor 2 error	9	8	Continuous	98
4-way valve error	9	9	Continuous	99
Coil (expansion valve) error	9	10	Continuous	9A
Outdoor unit error	9	15	Continuous	9U
OU Abnormal discharge temp error	10	1	Continuous	A1
Abnormal compressor temp error	10	3	Continuous	A3
High Pressure error	10	4	Continuous	A4
Low pressure error	10	5	Continuous	A5
VRF Branch box error	13	1	Continuous	J1
8-Way Multi branch box error	13	2	Continuous	J2
Accessories	PCB LED	PCB LED		WRC
VRF RB: Cable crossed OU/RB - IU/RB	on solid	on solid	-	-
VRF RB: Coms/Main PCB error	on solid	Continuous	-	-
WRC: Incompatible IU connected	-	-	-	C0:15
WRC: Indoor - WRC comms error	-	-	-	C0:12

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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
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UK Cooling Conditions	Indoor temp.: 23°C DB/16°C WB Outdoor temp.: 30°C
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Heating	Indoor temp.: 20°C DB Outdoor temp.: 7°C DB/6°C WB
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- Performance test is in accordance with EN14511
- Seasonal efficiency test is in accordance with EN14825
- Sound power test is in accordance with EN12102
- Actual products' colours may be different from the colours shown in this printed material.

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