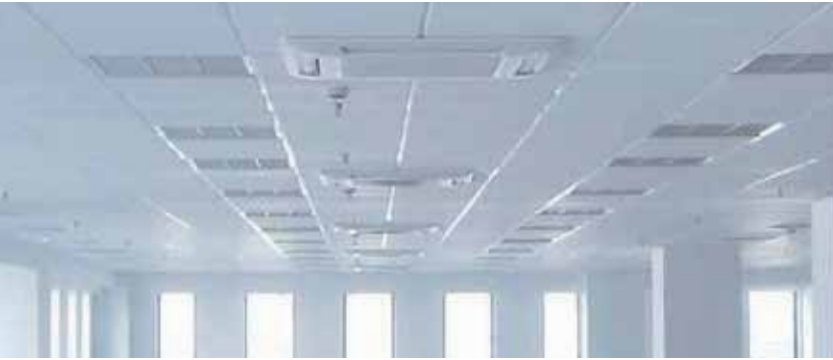




PRODUCT CATALOGUE 2016/17



**SPLIT
MULTI SPLIT
VRF
VENTILATION**



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

Creation of Comfort

004 MISSIONS

- 004 Road to 2025
- 005 Energy Efficiency Classifications

006 SUPPORT

- 007 Design Simulator
- 008 Training, Service and Maintenance

009 PRODUCT CATEGORY

- 010 New Releases
- 013 Split
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- 074 VRF
- 128 Optional Parts For VRF
- 134 Ventilation

Road to 2025

New refrigerant R32 for the reduction of the global warming potential

It is a proven refrigerant that can also be found in the currently-used HFC refrigerant R410A.

The ozone-depleting potential (ODP*3) is 0!

The global warming potential (GWP*4) is approximately 1/3 of R410A!

Also, it is an excellent refrigerant that provides comprehensive benefits in terms of environmental friendliness, performance, safety, and economic efficiency.

Fujitsu General work on the reduction of HFC with innovative efforts



Phase down scenario of HFC

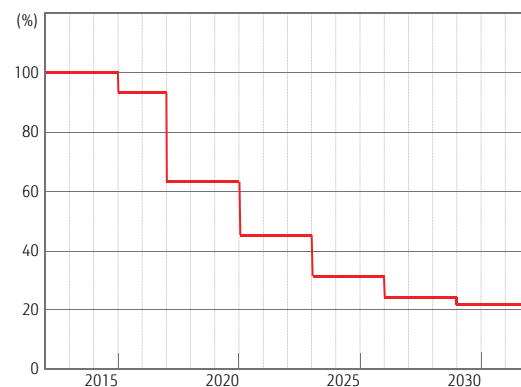
EU strengthen F-gas Regulation introduced 2014.

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

Key elements

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

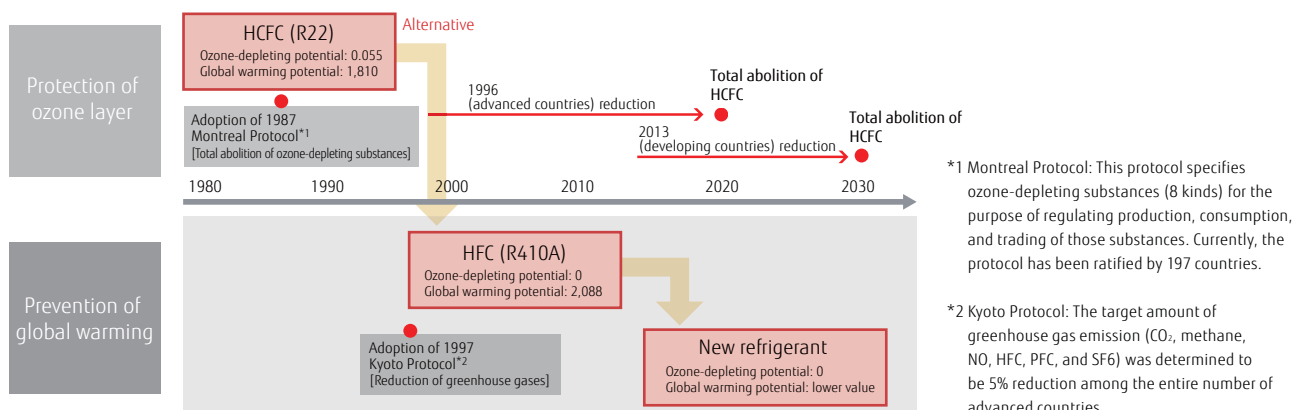
Fujitsu General work on the reduction of HFC with innovative efforts



HFC phased reduction (Article 15, phased reduction from 2015)
CO₂ conversion (Compared with the production and import quantity from 2009 to 2012)

From 2025, single split A/C containing less than 3 kg of F-gas (GWP_{eq} = 750) will be banned.

As our investigation and evaluation, Fujitsu General think R32 is best balanced alternative gases.
We will gradually adopt R32 for our product range.



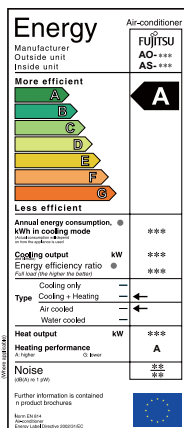
Energy Efficiency Classifications

For Air Conditioners

New Energy Labelling Requirement 626 / 2011 / EU :

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

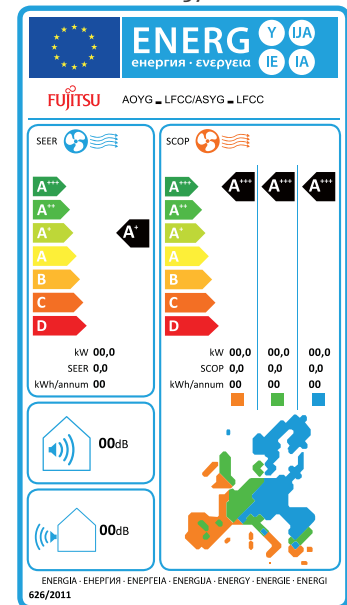
Current Energy Label



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

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

New Energy Label *



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

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

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

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

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

Current Energy Labelling Points

Rated efficiency
• Full capacity • One point temperature condition
EER COP
Operating power consumption
Sound pressure level

Annual efficient operation



Reduce total power consumption



Low noise products



New Energy Labelling Points

Seasonal efficiency
• Integrates part load capacity • Optimised for several rating temperatures
SEER SCOP
Total power consumption
• Operating power consumption • Standby power consumption • Crank case heater • Thermo off
Sound power level
New criteria

SUPPORT

Our know-how supports you not only during the product release but also from guiding implementation to product maintenance.

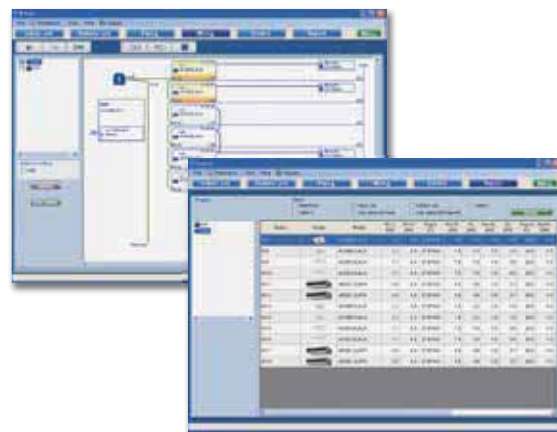
007 Design Simulator

008 Training, Service and Maintenance

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

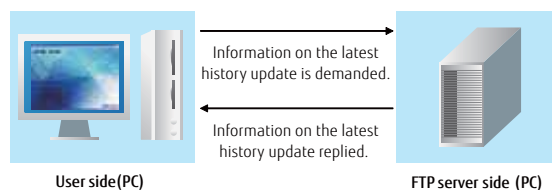
The information specific to your project can be exported in a number of industry standard file formats.

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



Update your Design Simulator

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



BIM Building Information Modeling

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

3D and 2D product data

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

Installation 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.

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.

Product specifications & link information

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

Training Service and Maintenance

Training

We have developed specific courses, created to make you much more fluent in designing and installing Fujitsu air conditioning. We are committed to training to help raise standards throughout the industry and have invested heavily in our training centre in Elstree, Hertfordshire. For more information about training please email training@fgac.fujitsu-general.com

Design for easy maintenance

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

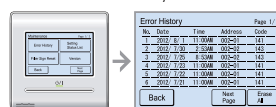
- Operation mode status
- Discharge temperature/Pressure status
- Compressor operation indication
- Address/Type/Number of outdoor unit
- Error code.

7-segment LED

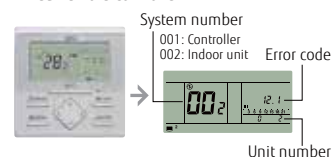


Wired Remote Controller (Touch panel)

Error status/Error history



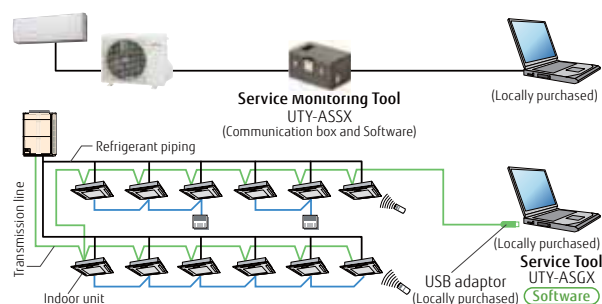
Wired Remote Controller



Error diagnosis by Service Tool

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

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



Mobile troubleshooting tool for iPhone

We will release an App of troubleshooting tool for iPhone, iPod touch and other Apple products. This application is a troubleshooting tool for Fujitsu General air conditioner (RAC/PAC, VRF)

It helps you to check air conditioner condition. Error code check, Troubleshooting, and Sensor check are available.

Mobile Technician **FREE**



PRODUCT CATEGORY

010 New Releases

013 SPLIT

050 MULTI SPLIT

062 OPTIONAL PARTS for SPLIT & MULTI SPLIT

074 VRF

128 OPTIONAL PARTS for VRF

134 VENTILATION

NEW RELEASES



NEW SPLIT

Large Wall Mounted

- 30/36 class. Standard Range
- High seasonal energy efficiency
- Energy saving control with Human sensor
- Server room function option



Large Cassette

- 18 to 54 class. 6 models
- Unique Circular Flow design/Uniform air distribution by the seamless airflow louver
- Individual louver control
- Touch Panel Controller (UTY-RNRYZ1) as standard



Medium Static Pressure Duct

- 12 to 54 class. 8 models (12 & 14 are a Future Release)
- High efficiency & Quiet operation by new structure design
- Adopting Automatic Airflow adjustment function
- Improved installation flexibility
- Touch Panel Controller (UTY-RNRYZ1) as standard





NEW MULTI SPLIT

Simultaneous Multi

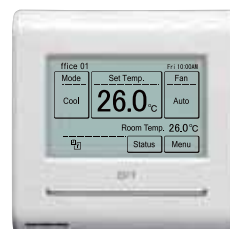
- 36 & 54 class. Single phase 2 models



NEW OPTIONAL PARTS For SPLIT and MULTI SPLIT

Controller

- Easy-to-use and highly-functional controllers
- The room temperature can be controlled accurately with built-in thermo sensor.
- Built in weekly/daily timer (ON/OFF, Weekly)



SELECTED MODELS ONLY

MODBUS® Convertor

- The MODBUS Convertor can be connected to MODBUS Network system.
- Simple installation due to small and compact size
- The MODBUS Convertor permits central monitoring and control of air conditioners from BMS.



Wireless LAN Interface (Future Release)

- Mobile application control for single indoor units and multi system indoor units.
- Control basic operation (ON/OFF, Mode, Fan, Room temp., Louver position)
- Error display & E-mail notification





NEW VRF

High Static Pressure Duct (Future Release)

- 96 class high energy efficiency
- Wide static pressure range of 50 to 300 Pa
- 5 static pressure selection



NEW OPTIONAL PARTS For VRF

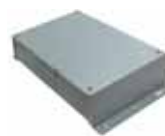
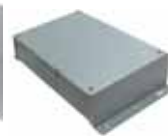
Touch Panel Controller

- Up to 400 indoor units can be controlled.
- Remote control and remote monitoring functions
- Electricity charge apportionment function added (option)



Convertor

- Network convertor can be connected to single split 2 types of DC power supply type and AC power supply type are available
- MODBUS® Convertor can be connected to MODBUS Network



Network Convertor

MODBUS® Convertor

SPLIT



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

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

9 types 64 models

- 014 All Type Lineup
- 016 Feature Explanation
- 018 Wall Mounted
- 028 Floor
- 030 Floor/Ceiling
- 032 Ceiling
- 034 Compact Cassette
- 036 Cassette
- 040 Slim Duct
- 042 Medium Static Pressure Duct
- 046 High Static Pressure Duct

All Type Lineup

Type	Series	BTU				
		4	7	9	12	14
Wall Mounted Page 18 ~	Designer Range Series High Spec & Design			 ASYG09LTCA	 ASYG12LTCA	
	Designer Range Series High COP		 ASYG07LUCA	 ASYG09LUCA	 ASYG12LUCA	 ASYG14LUCA
	Standard Range Series High Efficiency & Comfort		 ASYG07LMCA	 ASYG09LMCA	 ASYG12LMCA	 ASYG14LMCA
	Standard Range Series Comfort for Large Room					
	NEW Standard Range Series New Design & Large Capacity					
Floor Compact & Comfort Page 28				 AGYG09LVCA	 AGYG12LVCA	 AGYG14LVCA
Floor/Ceiling Comfort & Dual Design Page 30						
Ceiling Comfort for Large Room Page 32						
Compact Cassette Page 34	4-way Flow Series Compact & Comfort				 AUYG12LVLB	 AUYG14LVLB
Cassette Page 36 ~	NEW Circular Flow Series Comfort for large room					
	4-way Flow Series Comfort for Large Room					
Slim Duct Slim & Comfort Page 40					 ARYG12LLTB	 ARYG14LLTB
NEW Medium Static Pressure Duct Compact & Comfort Page 42					 ARYG12LMTBP	 ARYG14LMTBP
Medium Static Pressure Duct High Efficiency & Comfort Page 44						
High Static Pressure Duct Page 36 ~						

18	24	30	36	BTU 45	54	60	72	90
 ASYG18LFCA	 ASYG24LFCC							
		 ASYG30LMTA	 ASYG36LMTA					
 ABYG18LVTB	 ABYG24LVTA							
		 ABYG30LRTE	 ABYG36LRTE ABYG36LRTA	 ABYG45LRTA	 ABYG54LRTA			
 AUYG18LVLB	 AUYG24LVLA							
 AUXG18LRLB	 AUXG24LRLB	 AUXG30LRLB	 AUXG36LRLB	 AUXG45LRLB	 AUXG54LRLB			
		 AUYG30LRLE	 AUYG36LRLE AUYG36LRLA	 AUYG45LRLA	 AUYG54LRLA			
 ARYG18LLTB								
 ARYG18LHTBP	 ARYG24LHTBP	 ARYG30LHTBP	 ARYG36LHTBP	 ARYG45LHTBP	 ARYG54LHTBP			
	 ARYG24LMLA	 ARYG30LMLE	 ARYG36LMLE ARYG36LMLA	 ARYG45LMLA				
				 ARYG45LHTA	 ARYG54LHTA	 ARYG60LHTA		
							 ARYC72LHTA	 ARYC90LHTA

Feature Explanation

Energy Saving Function



Save human sensor

Human sensor detects the movement of people in the room and judges whether the energy saving operation.



Save & Stop human sensor

Human sensor detects the movement of people in the room and judges whether the energy saving or stop operation.



Economy mode

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



Room temperature set point limitation

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



Set temperature auto return

The setting temperature automatically returns to the previously set temperature.

Comfortable Function



Powerful heating

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



Power diffuser

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



Server room operation

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



Powerful mode

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



10°C HEAT operation

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



Low noise mode

Sound noise level of outdoor unit can be selected.



Auto-changeover

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



Up/down swing flaps

The up/down flaps automatically swing up and down.



Double swing automatic

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



Automatic fan speed

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



Auto restart

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



Connectable fresh air duct

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



Fresh air intake

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



Connectable distributing duct

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



Individual airflow direction control

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

Convenient Function



Auto off timer

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



Sleep timer

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



Program timer

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



Weekly timer

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



Weekly + setback timer

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



Filter sign

Indicates the filter cleaning period by lamp.



External error output



External ON/OFF input

Clean Function



Ion deodorization filter

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



Apple-catechin filter

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



Washable panel

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

Installation



Automatic airflow adjustment

Automatically detects required airflow in each application case and adjust 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

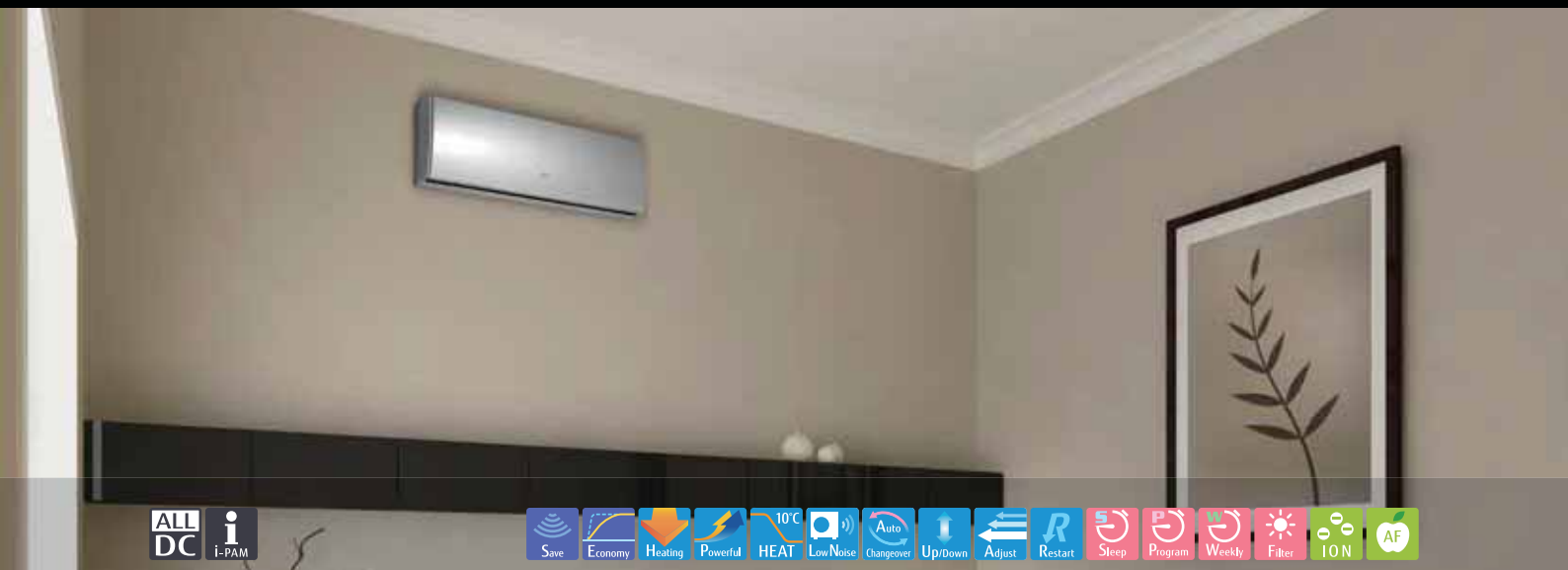
V-PAM inverter control reduces the effects of magnetic flux and increases the maximum speed and efficiency of the compressor by vector control technology.

Feature Summary

	ASYG07/09/12/LCA	ASYG07/09/12/14/LCA	ASYG07/09/12/14/LMCA	ASYG18/LCA, ASYG24/LCC	ABYG18/LVB, ABYG24/LVA	ABYG30/36/LRTA, ABYG36/45/54/LRTA	AUXG12/14/18/LVB, AUXG24/LVLA	AUXG30/36/LRLA, AUXG36/45/54/LRLB	ARYG12/14/18/LTB	ARYG24/36/45/LMLA, ARYG30/36/LMLE	ARYG45/54/LHTBP	ARYG72/90/LHTA
	Wall Mounted	Floor	Floor/Ceiling	Ceiling	Compact Cassette	Cassette	Slim Duct	Medium Static Pressure Duct	High Static Pressure Duct			
Energy Saving Function	Save human sensor	●		●								
	Save & Stop human sensor								○			
	Economy mode	●	●	●	●	●	●	●	●	●	●	●
	Room temperature set point limitation	○	○	○	○	○	○	○	○	○	○	○
	Set temperature auto return	○	○	○	○	○	○	○	○	○	○	○
Comfortable Function	Powerful heating	●										
	Power diffuser		●		●							
	Powerful mode	●	●	●	●							
	Server room operation			●								
	10°C HEAT operation	●	●	●	●	●	●	●	○	○	○	○
	Low Noise mode	●	●	●	●	○ (45/54) (36/LRTA)	○ (45/54)	○ (45) (36/LMLA)	○ (45/54)	○	○	○
	Auto-changeover	●	●	●	●	●	●	●	●	●	●	●
	Up/down swing flaps	●	●	●		●		●	●	○		
	Double swing automatic			●	●		●					
	Automatic fan speed	●	●	●	●	●	●	●	●	●	●	●
	Auto restart	●	●	●	●	●	●	●	●	●	●	●
	Connectable fresh air duct						●	○	●	●	●	●
	Fresh air intake						○	○	○	○	○	○
	Connectable distributing duct							●	●	●		
	Individual airflow direction control							●				
Convenient Function	Auto off timer	○	○	○	○	○	○	○	○	○	○	○
	Sleep timer	●	●	●	●	●	●	●	○	○	○	○
	Program timer	●	●	●	●	●	●	●	○	○	○	○
	Weekly timer	●	●	●	●	●	●	●	○	○	○	○
	Weekly + setback timer	○	○	○	○	○	○	○	○	○	○	○
	External error output	○	○	○	○	○	○	○	○	○	○	○
	External ON/OFF input	○	○	○	○	○	○	○	○	○	○	○
Clean Function	Filter sign	●	●	●	●	●	●	●	●	●	●	●
	Ion deodorization filter	●	●	●	●	●						
	Apple-catechin filter	●	●	●	●	●						
Installation	Washable panel		●	●	●	●						
	Automatic airflow adjustment										●	
	Drain pump as standard									●	●	
	Blue fin			●	●		●	●	●	●	●	●

○: Optional function

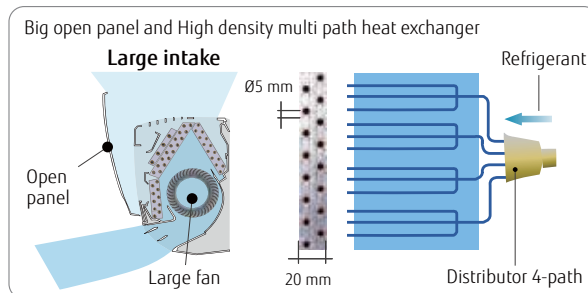
Wall Mounted Designer Range High Spec & Design



Features

Thin & Slim design

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



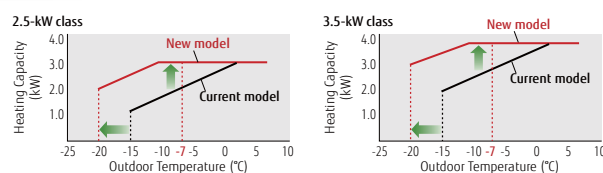
Human sensor

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.

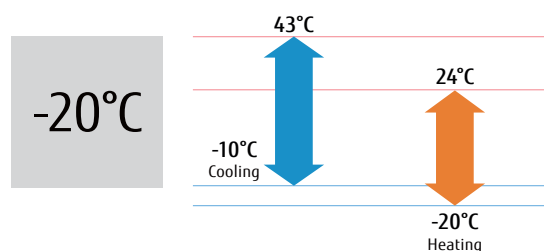


3 Mode timer (Weekly/Program/Sleep)

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

	Indoor	ASYG09LTCA	ASYG12LTCA
	Outdoor	AOYG09LTC	AOYG12LTC
Nominal Capacity (kW)	Cooling	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 (kW)	Cooling	0.55	0.85
	Heating	0.66	0.91
EER / COP (Nominal Conditions)		4.95 / 4.85	4.12 / 4.40
Pdesign (kW) @ -10°C	Cooling	2.50	3.50
	Heating	3.00	4.00
SEER	Cooling	8.50	8.50
SCOP	Heating (Average)	4.60	4.60
Energy Efficiency Class	Cooling	A+++	A+++
	Heating (Average)	A++	A++
Annual Energy Consumption (kWh/a)	Cooling	103	144
	Heating	912	1217
Moisture Removal	l/h	1.30	1.80
Dimensions (HxWxD) mm	Inner	282x870x185	282x870x185
	Outer	540x790x290	620x790x290
Net Weight (kg)	Inner	10	10
	Outer	33	40
Room Air Circulation (high) m3/h	Inner	800	850
	Outer	1700	2050
Power Supply	V-PH-Hz	230 / 1 / 50	230 / 1 / 50
Power Supply To		Outdoor	Outdoor
Running Current (A)	Cooling	2.60	4.00
	Heating	3.30	4.30
Starting Current	A	3.30	4.30
Suggested MCB/Fuse	A	10	10
Interconnecting Cable		3 + E	3 + E
Remote Control Type		Wireless	Wireless
Sound Pressure (dB(A) Cooling)	Indoor Q/L/M/H	21 / 32 / 36 / 42	21 / 32 / 37 / 43
	Outdoor H	48	48
Sound Power (dB(A) Cooling)	Indoor H	59	60
	Outdoor H	63	64
Max Pipe Length	m	20	20
Max Height Difference	m	15	15
Refrigerant Charge	m	15	15
Additional Refrigerant Charge	g/m	20	20
Pipe Size (inches)	Gas	3/8	3/8
	Liquid	1/4	1/4
Operating Range (OC)	Cooling	-10 ~ 43	-10 ~ 43
	Heating	-20 ~ 24	-20 ~ 24
Refrigerant		R410A	R410A
System List Price	£	990	1152

Optional parts

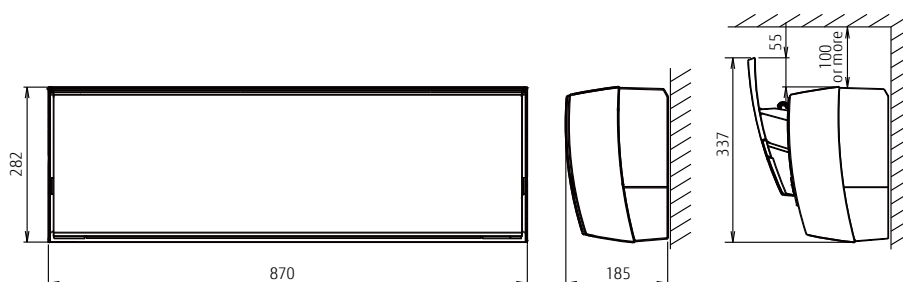
Wired Remote Controller:	UTYRVNYM	£100	(Must use with Communication Kit below)
Simple Remote Controller:	UTYRSNYM	£80	(Must use with Communication Kit below)
External Connect Kit	UTYXWZXZ5	£9	(Must use with Communication Kit below)
Communication Kit:	UTYTWBXF	£87	
Modbus Interface	FJRCMB51	£225	(Must use with Communication Kit above)
KNX Interface	FJRCKNX1i	£255	(Must use with Communication Kit above)
WiFi Interface	FJRCWIF1i	£225	(Must use with Communication Kit above)

(Refer to page 63 for accessory combinations)

* UK Cooling: indoor temperature 23°CDB / 16°CWB and outdoor temperature 30°C

Dimensions

(Unit : mm)



Wall Mounted Designer Range High COP



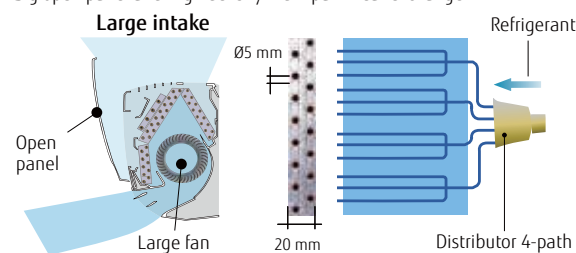
Features

Thin & Slim design

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

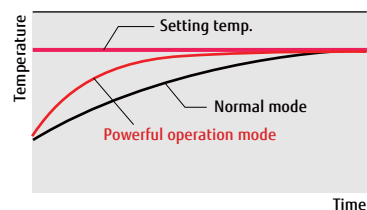


Big open panel and High density multi path heat exchanger



Powerful operation

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



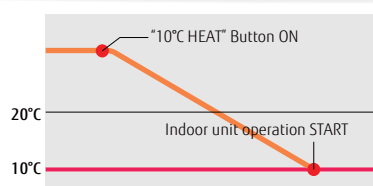
3 Mode timer (Weekly/Program/Sleep)

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.

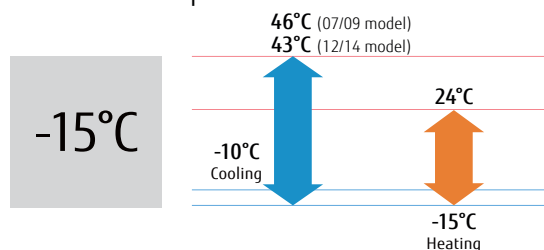


10°C HEAT Operation

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





Wireless R.C.



For ASYG07/09LUCA



For ASYG12/14LUCA

Specifications

	Indoor	ASYG07LUCA	ASYG09LUCA	ASYG12LUCA	ASYG14LUCA
	Outdoor	AOYG07LUCA	AOYG09LUCB	AOYG12LUC	AOYG14LUC
Nominal Capacity (kW)	Cooling	2.00 (0.50-3.00)	2.50 (0.50-3.20)	3.50 (0.90-4.00)	4.20 (0.90-5.00)
	Heating	3.00 (0.50-4.00)	3.20 (0.50-4.20)	4.00 (0.90-5.60)	5.40 (0.90-6.00)
UK Total / Sensible Cooling *		1.94 / 1.30	2.42 / 1.59	3.40 / 2.24	4.07 / 2.73
Power Consumption (kW)	Cooling	0.46	0.55	0.91	1.24
	Heating	0.66	0.68	0.93	1.38
EER / COP (Nominal Conditions)		4.35 / 4.55	4.50 / 4.71	3.87 / 4.30	3.40 / 3.91
Pdesign (kW) @ -10°C	Cooling	2.00	2.50	3.50	4.20
	Heating	2.60	2.80	3.90	4.80
SEER	Cooling	7.20	7.10	7.05	6.78
SCOP	Heating (Average)	4.10	4.10	4.00	4.00
Energy Efficiency Class	Cooling	A++	A++	A++	A++
	Heating (Average)	A+	A+	A+	A+
Annual Energy Consumption (kWh/a)	Cooling	97	123	174	217
	Heating	887	956	1363	1677
Moisture Removal	l/h	1.00	1.30	1.80	2.10
Dimensions (HxWxD) mm	Inner	282x870x185	282x870x185	282x870x185	282x870x185
	Outer	540x660x290	540x660x290	540x790x290	540x790x290
Net Weight (kg)	Inner	10	10	10	10
	Outer	23	25	33	34
Room Air Circulation (high) m3/h	Inner	680	800	850	900
	Outer	1720	1720	1940	1940
Power Supply	V-PH-Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Power Supply To	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Running Current (A)	Cooling	2.60	3.10	4.60	5.80
	Heating	3.40	3.40	4.70	6.30
Starting Current	A	3.40	3.40	4.70	6.30
Suggested MCB/Fuse	A	10	10	10	10
Interconnecting Cable		3 + E	3 + E	3 + E	3 + E
Remote Control Type		Wireless	Wireless	Wireless	Wireless
Sound Pressure (dB(A) Cooling)	Indoor Q/L/M/H	21 / 31 / 35 / 38	21 / 32 / 36 / 42	21 / 32 / 37 / 43	25 / 33 / 40 / 45
	Outdoor H	46	48	50	50
Sound Power (dB(A) Cooling)	Indoor H	57	59	60	60
	Outdoor H	58	60	65	65
Max Pipe Length	m	20	20	20	20
Max Height Difference	m	15	15	15	15
Refrigerant Charge	m	15	15	15	15
Additional Refrigerant Charge	g/m	20	20	20	20
Pipe Size (inches)	Gas	3/8	3/8	3/8	1/2
	Liquid	1/4	1/4	1/4	1/4
Operating Range (OC)	Cooling	-10 ~ 46	-10 ~ 46	-10 ~ 43	-10 ~ 43
	Heating	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24
Refrigerant		R410A	R410A	R410A	R410A
System List Price	£	837	895	1040	1198

Optional parts

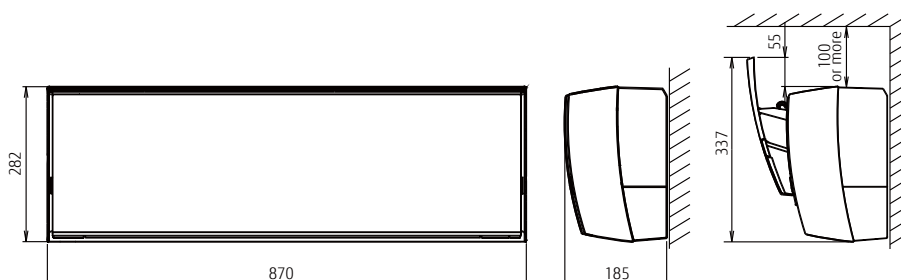
Wired Remote Controller:	UTYRVNYM	£100	(Must use with Communication Kit below)
Simple Remote Controller:	UTYRSNYM	£80	(Must use with Communication Kit below)
External Connect Kit	UTYXWZXZ5	£9	(Must use with Communication Kit below)
Communication Kit:	UTYTWBXF	£87	
Modbus Interface	FJRCMB51	£225	(Must use with Communication Kit above)
KNX Interface	FJRCKNX1i	£255	(Must use with Communication Kit above)
WiFi Interface	FJRCWIF1i	£225	(Must use with Communication Kit above)

(Refer to page 63 for accessory combinations)

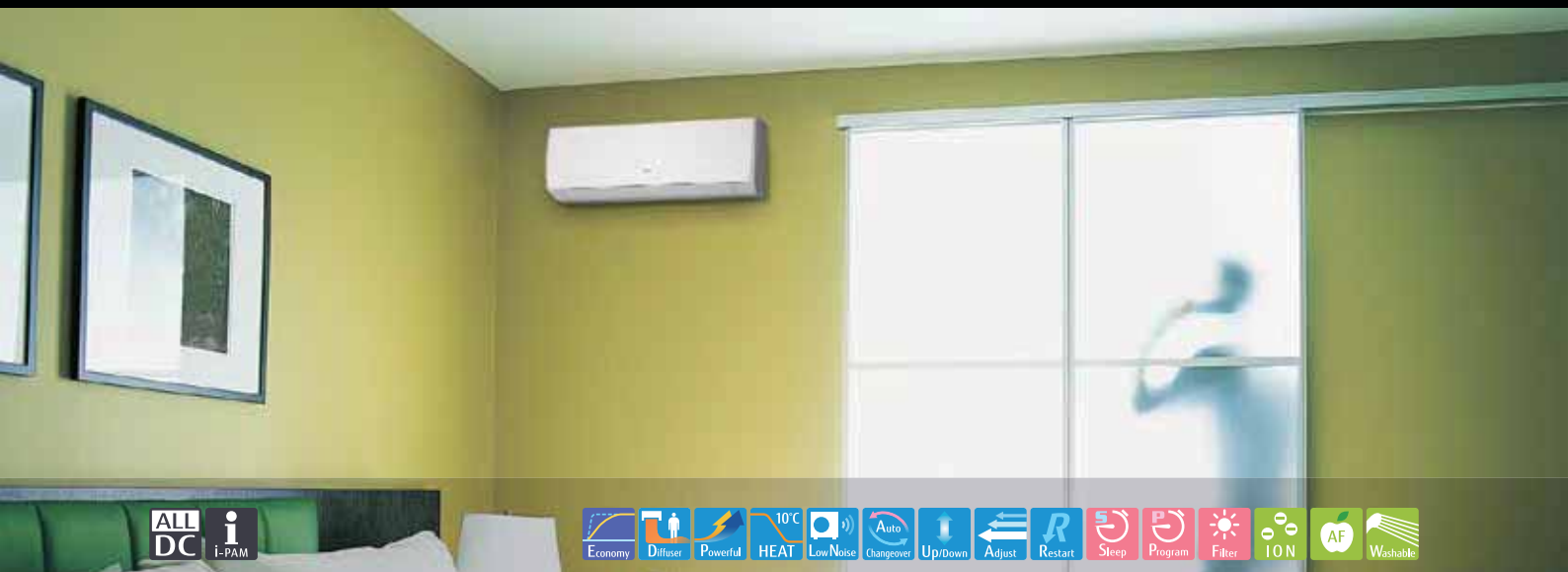
* UK Cooling: indoor temperature 23°CDB / 16°CWB and outdoor temperature 30°C

Dimensions

(Unit : mm)

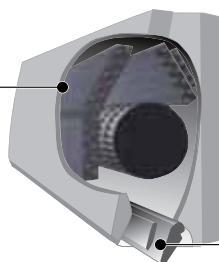
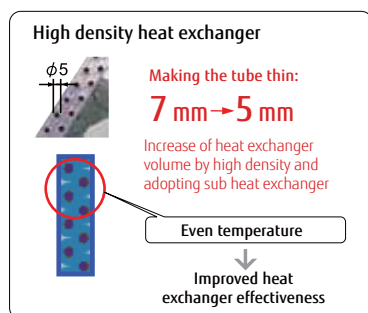


Wall Mounted Standard Range High Efficiency & Comfort



Features

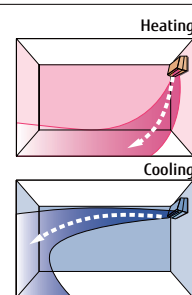
High efficient compact design



More comfort airflow

Power diffuser

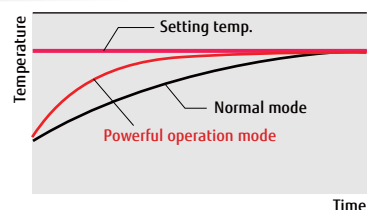
Vertical airflow provides powerful floor level heating.



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

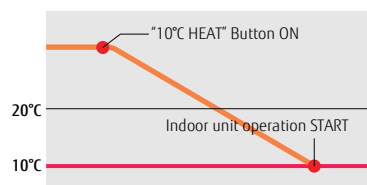
Powerful operation

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



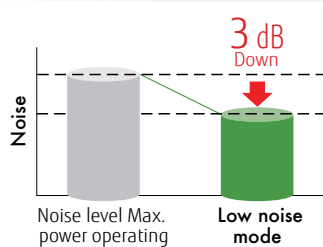
10°C HEAT Operation

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

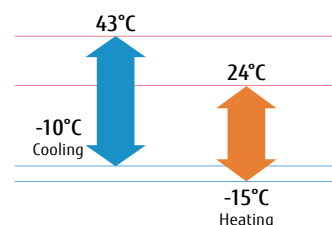
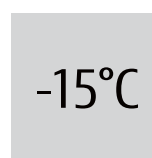


Low noise mode for outdoor unit

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



Low ambient operation



Model: ASYG07LMCA / ASYG09LMCA / ASYG12LMCA / ASYG14LMCA



Wireless R.C.



For ASYG07/09/12LMCA



For ASYG14LMCA

Specifications

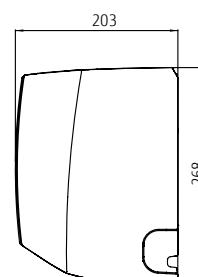
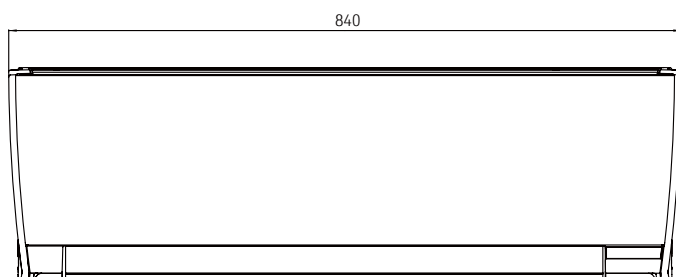
	Indoor	ASYG07LMCA	ASYG09LMCA	ASYG12LMCA	ASYG14LMCA
	Outdoor	AOYG07LMCA	AOYG09LMCA	AOYG12LMCA	AOYG14LMCA
Nominal Capacity (kW)	Cooling	2.00 (0.50-3.00)	2.50 (0.50-3.20)	3.40 (0.90-3.90)	4.00 (0.90-4.40)
	Heating	3.00 (0.50-3.40)	3.20 (0.50-4.00)	4.00 (0.90-5.30)	5.00 (0.90-6.00)
UK Total / Sensible Cooling *		1.94 / 1.30	2.42 / 1.59	3.30 / 2.14	3.52 / 2.52
Power Consumption (kW)	Cooling	0.47	0.65	0.97	1.14
	Heating	0.69	0.73	1.02	1.36
EER / COP (Nominal Conditions)		4.30 / 4.38	3.85 / 4.38	3.50 / 3.92	3.52 / 3.66
Pdesign (kW) @ -10°C	Cooling	2.00	2.50	3.40	4.00
	Heating	2.30	2.40	3.50	3.90
SEER	Cooling	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 (kWh/a)	Cooling	103	125	170	203
	Heating	786	820	1225	1365
Moisture Removal	l/h	1.00	1.30	1.80	2.10
Dimensions (HxWxD) mm	Inner	268x840x203	268x840x203	268x840x203	268x840x203
	Outer	535x663x293	535x663x293	535x663x293	540x790x290
Net Weight (kg)	Inner	9	9	9	9
	Outer	21	21	26	34
Room Air Circulation (high) m3/h	Inner	750	750	750	750
	Outer	1670	1670	1830	1800
Power Supply	V-PH-Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Power Supply To		Outdoor	Outdoor	Outdoor	Outdoor
Running Current (A)	Cooling	2.50	3.20	4.60	5.30
	Heating	3.30	3.50	4.80	6.30
Starting Current	A	3.30	3.50	4.80	6.30
Suggested MCB/Fuse	A	10	10	10	10
Interconnecting Cable		3 + E	3 + E	3 + E	3 + E
Remote Control Type		Wireless	Wireless	Wireless	Wireless
Sound Pressure (dB(A) Cooling)	Indoor Q/L/M/H	21 / 32 / 40 / 43	21 / 32 / 40 / 43	21 / 32 / 40 / 43	25 / 33 / 40 / 44
	Outdoor H	45	45	50	49
Sound Power (dB(A) Cooling)	Indoor H	59	59	59	60
	Outdoor H	58	58	61	63
Max Pipe Length	m	20	20	20	20
Max Height Difference	m	15	15	15	15
Refrigerant Charge	m	15	15	15	15
Additional Refrigerant Charge	g/m	20	20	20	20
Pipe Size (inches)	Gas	3/8	3/8	3/8	1/2
	Liquid	1/4	1/4	1/4	1/4
Operating Range (OC)	Cooling	-10 ~ 43	-10 ~ 43	-10 ~ 43	-10 ~ 43
	Heating	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24
Refrigerant		R410A	R410A	R410A	R410A
System List Price	£	596	628	714	822

Optional parts

Wired Remote Controller:	UTYRVNYM	£100	(Must use with Communication Kit below)
Simple Remote Controller:	UTYRSNYM	£80	(Must use with Communication Kit below)
Communication Kit:	UTYXCBXZ2	£87	
External Connect Kit	UTYXWZXZ5	£9	
Modbus Interface	FJRCMB51	£225	(Must use with Communication Kit above)
KNX Interface	FJRCKNX1i	£255	(Must use with Communication Kit above)
WiFi Interface	FJRCWIF1i	£225	(Must use with Communication Kit above)
(Refer to page 63 for accessory combinations)			* UK Cooling: indoor temperature 23°CDB / 16°CWB and outdoor temperature 30°C

Dimensions

(Unit : mm)

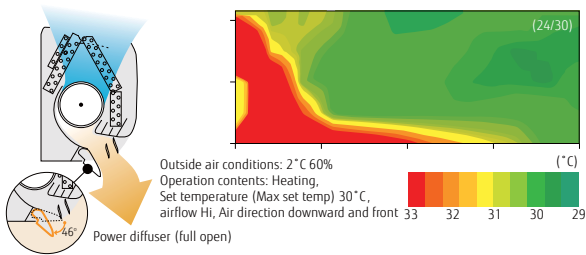


Wall Mounted Standard Range Comfort for Large Room

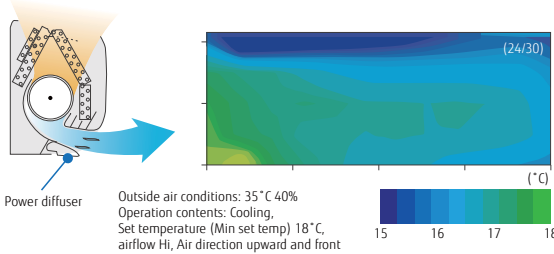


Features

“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

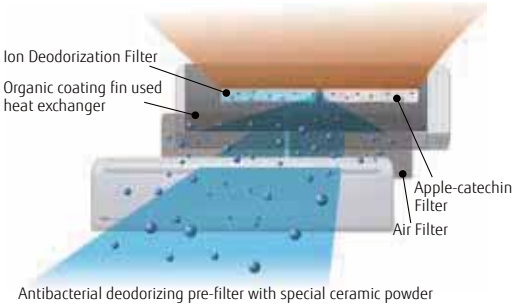
Ion Deodorization Filter

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

Using different filters at both sides

Apple-catechin Filter

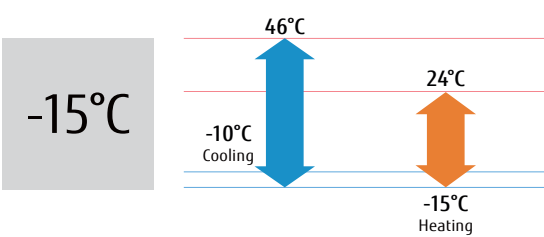
The Apple-catechin filter uses static electricity to clean fine particles and dust in the air.



Flexible Installation

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

Low ambient operation





Model: ASYG18LFCA / ASYG24LFCC



Wireless R.C.



For ASYG18LFCA, ASYG24LFCC

Specifications

	Indoor	ASYG18LFCA	ASYG24LFCC
	Outdoor	AOYG18LFC	AOYG24LFCC
Nominal Capacity (kW)		5.20 (0.90-6.00)	7.10 (0.90-8.00)
	Cooling		
	Heating	6.30 (0.90-9.10)	8.00 (0.90-10.60)
UK Total / Sensible Cooling *		5.04 / 3.25	7.13 / 5.15
Power Consumption (kW)			
	Cooling	1.52	2.20
	Heating	1.71	2.21
EER / COP (Nominal Conditions)		3.42 / 3.68	3.23 / 3.61
Pdesign (kW) @ -10°C			
	Cooling	5.20	7.10
	Heating	5.90	7.10
SEER		6.94	6.11
SCOP		3.87	3.80
Energy Efficiency Class			
	Cooling	A++	A++
	Heating (Average)	A	A
Annual Energy Consumption (kWh/a)			
	Cooling	262	406
	Heating	2130	2610
Moisture Removal			
	l/h	2.60	2.70
Dimensions (HxWxD) mm			
	Inner	320x998x238	320x998x238
	Outer	620x790x298	620x790x298
Net Weight (kg)			
	Inner	14	14
	Outer	41	41
Room Air Circulation (high) m3/h			
	Inner	900	1120
	Outer	2150	2460
Power Supply	V-PH-Hz	230 / 1 / 50	230 / 1 / 50
Power Supply To		Outdoor	Outdoor
Running Current (A)			
	Cooling	6.80	9.70
	Heating	7.60	9.70
Starting Current	A	7.60	9.70
Suggested MCB/Fuse	A	16	16
Interconnecting Cable		3 + E	3 + E
Remote Control Type		Wireless	Wireless
Sound Pressure (dB(A) Cooling)	Indoor Q/L/M/H	26 / 33 / 37 / 43	32 / 37 / 42 / 49
	Outdoor H	50	55
Sound Power (dB(A) Cooling)	Indoor H	58	64
	Outdoor H	65	68
Max Pipe Length	m	25	30
Max Height Difference	m	20	20
Refrigerant Charge	m	15	15
Additional Refrigerant Charge	g/m	20	20
Pipe Size (inches)	Gas	1/2	5/8
	Liquid	1/4	1/4
Operating Range (OC)	Cooling	-10 ~ 46	-10 ~ 46
	Heating	-15 ~ 24	-15 ~ 24
Refrigerant		R410A	R410A
System List Price	£	907	1426

Optional parts

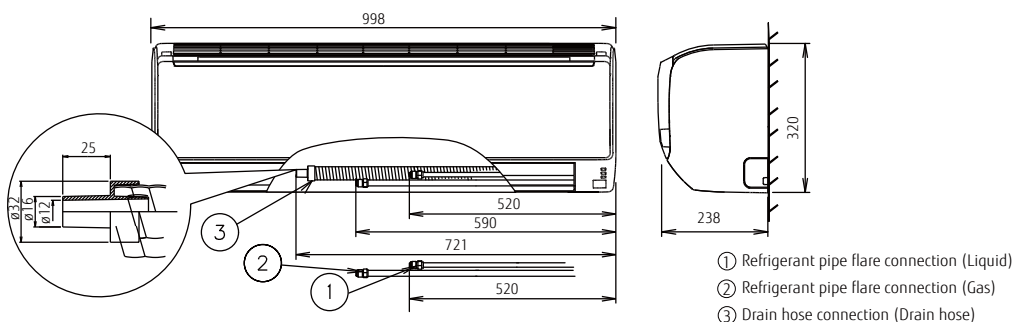
Wired Remote Controller:	UTYRVNYM	£100
Simple Remote Controller:	UTYRSNYM	£80
External Connect Kit	UTYXWZX	£9
Modbus Interface	FJRCMB51	£225
KNX Interface	FJRCNX1i	£255
WiFi Interface	FJRCWIFI1	£225

(Refer to page 63 for accessory combinations)

* UK Cooling: indoor temperature 23°CDB / 16°CWB and outdoor temperature 30°C

Dimensions

(Unit : mm)

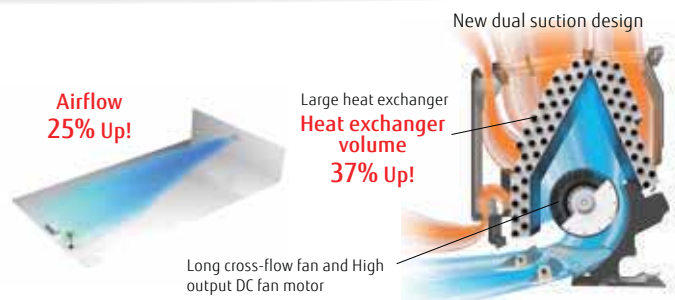




Features

Large Capacity & Powerful airflow

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



Human sensor

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

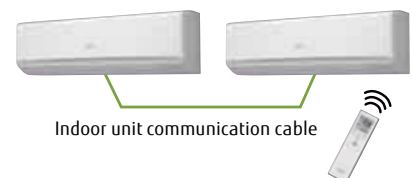


Server room function*

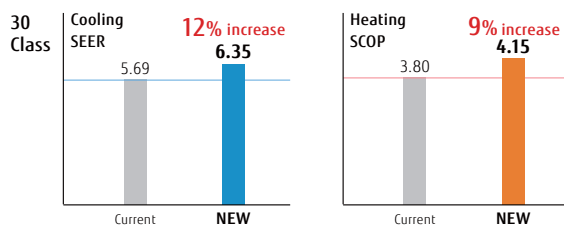
The following interlock operation is possible by connecting 2 indoor units with a cable. Cooling operation can be performed even in the low outdoor temperature and low humidity environment.

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

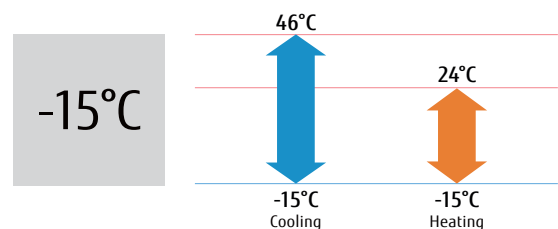
*2 x UTY-XWNX of optional parts are required.



High seasonal energy efficiency



Low ambient operation



Model: ASYG30LMTA/ASYG36LMTA



Wireless R.C.



Specifications

	Indoor	ASYG30LMTA	ASYG36LMTA
	Outdoor	AOYG30LMTA	AOYG36LMTA
Nominal Capacity (kW)	Cooling	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 (kW)	Cooling	2.33	3.16
	Heating	2.41	2.96
EER / COP (Nominal Conditions)		3.43 / 3.65	2.97 / 3.41
Pdesign (kW) @ -10°C	Cooling	8.0	9.4
	Heating	6.5	7.1
SEER	Cooling	6.35	5.73
SCOP	Heating (Average)	4.15	4.19
Energy Efficiency Class	Cooling	A++	A+
	Heating (Average)	A+	A+
Annual Energy Consumption (kWh/a)	Cooling	441	575
	Heating	2193	2373
Moisture Removal	l/h	2.7	3.7
Dimensions (HxWxD) mm	Inner	340x1150x280	340x1150x280
	Outer	830x900x330	830x900x330
Net Weight (kg)	Inner	18	18
	Outer	61	61
Room Air Circulation (high) m3/h	Inner	1380	1380
	Outer	3600	3800
Power Supply	V-PH-Hz	230-1-50	230-1-50
Power Supply To		Outdoor	Outdoor
Running Current (A)	Cooling	14.5	19
	Heating	14.5	19
Starting Current	A	10.5	13.9
Suggested MCB/Fuse	A	16	20
Interconnecting Cable		3 + E	3 + E
Remote Control Type		Wireless	Wireless
Sound Pressure (dB(A) Cooling)	Indoor Q/L/M/H	31/38/44/50	31/38/44/50
	Outdoor H	52	52
Sound Power (dB(A) Cooling)	Indoor H	65	65
	Outdoor H	67	68
Max Pipe Length	m	50	50
Max Height Difference	m	30	30
Refrigerant Charge	m	20	20
Additional Refrigerant Charge	g/m	40	40
Pipe Size (inches)	Gas	5/8	5/8
	Liquid	3/8	3/8
Operating Range (OC)	Cooling	-15 to 46	-15 to 46
	Heating	-15 to 24	-15 to 24
Refrigerant		R410A	R410A
System List Price	£	2020	2154

Optional parts

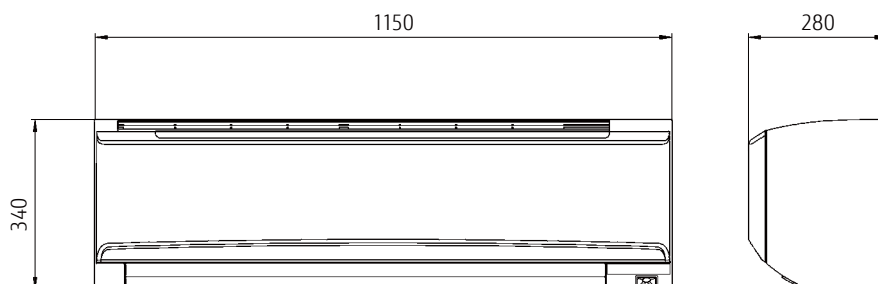
Wired Remote Controller (Touch panel (two-wire)):	UTY-RNRYZ1 + UTY-TWRX	£155 + £75	Modbus Interface	FJRCMB51	£225
Wired Remote Controller (High grade (three-wire)):	UTY-RVNYM + UTY-XWNX	£100 + £16	KNX Interface	FJRCKNX1i	£255
Wired Remote Controller (two-wire):	UTY-RLRY + UTY-TWRX	£120 + £75	WiFi Interface	FJRCWIF1i	£225
Simple Remote Controller (three-wire):	UTY-RSNYM + UTY-XWNX	£80 + £16			
External input and output PCB (with box):	UTY-XCSXZ1 + UTY-GXXB	£82 + £27			
External Connect Kit:	UTY-XWZX	£9			
External Connect Kit:	UTY-XWNX	£16			

(Refer to page 63 for accessory combinations)

* UK Cooling: indoor temperature 23°CDB / 16°CWB and outdoor temperature 30°C

Dimensions

(Unit : mm)



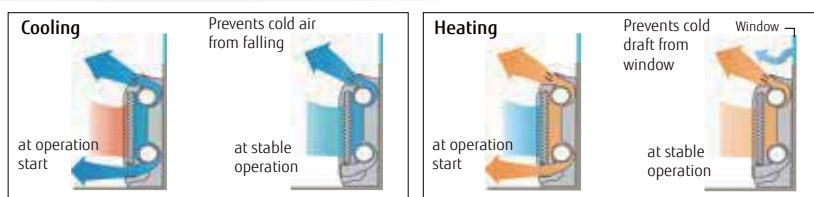
Floor Compact & Comfort



Features

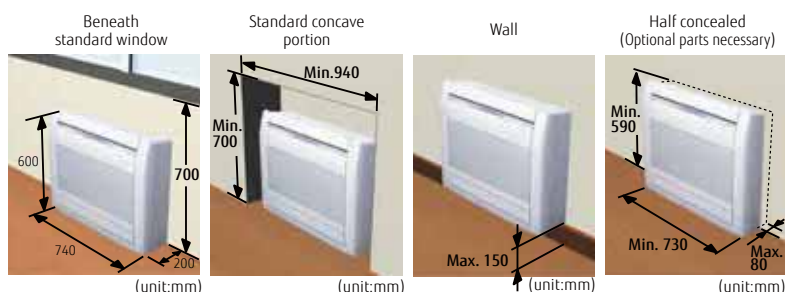
2-Fan & Wide airflow

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



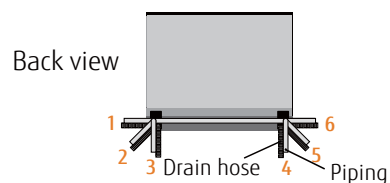
Flexible & easy installation

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.



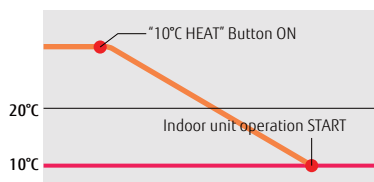
Flexible piping connection 6 direction of drain & piping

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

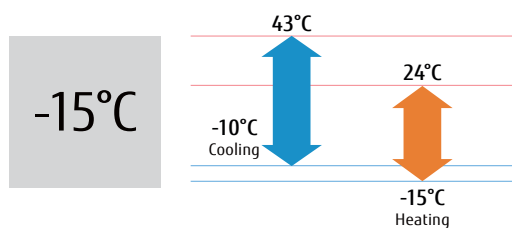


10°C HEAT Operation

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



Low ambient operation



Model: AGYG09LVCA / AGYG12LVCA / AGYG14LVCA



Wireless R.C.



For AGYG09/12LVCA



For AGYG14LVCA

Specifications

	Indoor	AGYG09LVCA	AGYG12LVCA	AGYG14LVCA
	Outdoor	AOYG09LVCA	AOYG12LVCA	AOYG14LVCA
Nominal Capacity (kW)	Cooling	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 (kW)	Cooling	0.53	0.94	1.14
	Heating	0.79	1.19	1.44
EER / COP (Nominal Conditions)		4.91 / 4.43	3.72 / 3.78	3.68 / 3.61
Pdesign (kW) @ -10°C	Cooling	2.60	3.50	4.20
	Heating	2.90	3.80	4.70
SEER	Cooling	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 (kWh/a)	Cooling	130	188	230
	Heating	967	1330	1645
Moisture Removal	l/h	1.30	1.80	2.10
Dimensions (HxWxD) mm	Inner	600x740x200	600x740x200	600x740x200
	Outer	540x790x290	540x790x290	578x790x300
Net Weight (kg)	Inner	14	14	14
	Outer	36	36	40
Room Air Circulation (high) m3/h	Inner	570	570	650
	Outer	1680	1680	1910
Power Supply	V-PH-Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Power Supply To	Outdoor	Outdoor	Outdoor	Outdoor
Running Current (A)	Cooling	2.60	4.40	5.20
	Heating	3.80	5.50	6.40
Starting Current	A	3.80	5.50	6.40
Suggested MCB/Fuse	A	10	10	10
Interconnecting Cable		3 + E	3 + E	3 + E
Remote Control Type		Wireless	Wireless	Wireless
Sound Pressure (dB(A) Cooling)	Indoor Q/L/M/H	22 / 29 / 35 / 40	22 / 29 / 35 / 40	22 / 31 / 38 / 44
	Outdoor H	47	48	50
Sound Power (dB(A) Cooling)	Indoor H	55	55	58
	Outdoor H	64	64	65
Max Pipe Length	m	20	20	20
Max Height Difference	m	15	15	15
Refrigerant Charge	m	15	15	15
Additional Refrigerant Charge	g/m	20	20	20
Pipe Size (inches)	Gas	3/8	3/8	1/2
	Liquid	1/4	1/4	1/4
Operating Range (OC)	Cooling	-10 ~ 43	-10 ~ 43	-10 ~ 43
	Heating	-15 ~ 24	-15 ~ 24	-15 ~ 24
Refrigerant		R410A	R410A	R410A
System List Price	£	1104	1238	1423

Optional parts

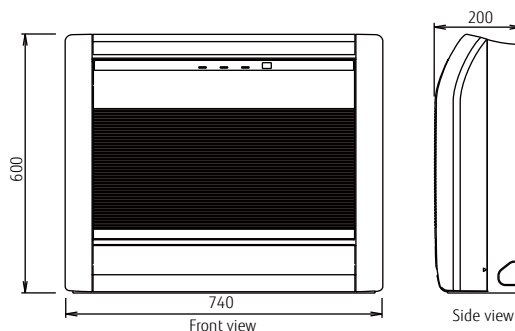
Wired Remote Controller:	UTYRVNYM	£100
Simple Remote Controller:	UTYRSNYM	£80
External Connect Kit	UTYXWZX	£9
Modbus Interface	FJRCMB51	£225
KNX Interface	FJRCKNX1i	£255
WiFi Interface	FJRCWIFI1	£225

(Refer to page 63 for accessory combinations)

* UK Cooling: indoor temperature 23°CDB / 16°CWB and outdoor temperature 30°C

Dimensions

(Unit : mm)



Floor/Ceiling Comfort & Dual Design



Features

Flexible installation

Example for floor installation

Floor console



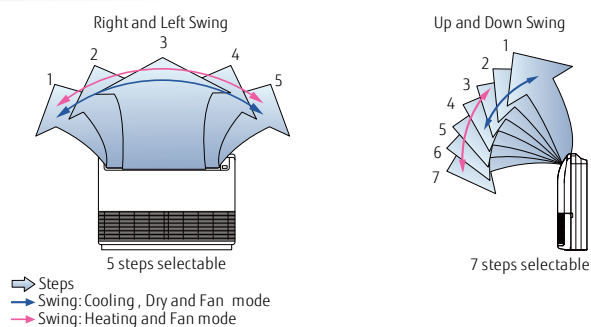
Example for ceiling installation

Under ceiling



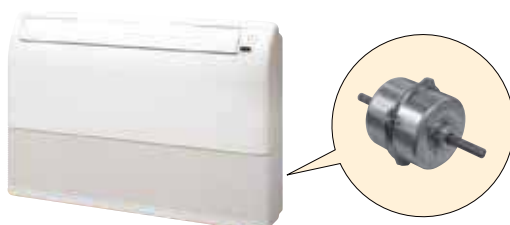
Double auto swing

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

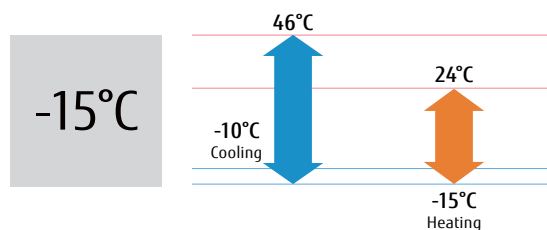


High power DC fan motor

- High power
- Wide rotation range
- High efficiency



Low ambient operation



Model : ABYG18LVTB / ABYG24LVTA



Wireless R.C.



For ABYG18LVTB



For ABYG24LVTA

Specifications

	Indoor	ABYG18LVTB	ABYG24LVTA
	Outdoor	AOYG18LALL	AOYG24LALA
Nominal Capacity (kW)	Cooling	5.20 (0.90-5.90)	6.80 (0.90-8.00)
	Heating	6.00 (0.90-7.50)	8.00 (0.90-9.10)
UK Total / Sensible Cooling *		4.79 / 3.33	6.05 / 4.51
Power Consumption (kW)	Cooling	1.62	2.21
	Heating	1.66	2.26
EER / COP (Nominal Conditions)		3.21 / 3.61	3.08 / 3.54
Pdesign (kW) @ -10°C	Cooling	5.20	6.80
	Heating	5.20	6.00
SEER	Cooling	6.10	5.60
SCOP	Heating (Average)	4.00	3.90
Energy Efficiency Class	Cooling	A++	A+
	Heating (Average)	A+	A
Annual Energy Consumption (kWh/a)	Cooling	298	425
	Heating	1819	2150
Moisture Removal	l/h	2.00	2.70
Dimensions (HxWxD) mm	Inner	199x990x655	199x990x655
	Outer	578x790x300	578x790x315
Net Weight (kg)	Inner	27	27
	Outer	40	44
Room Air Circulation (high) m3/h	Inner	780	980
	Outer	2000	2470
Power Supply	V-PH-Hz	230 / 1 / 50	230 / 1 / 50
Power Supply To		Outdoor	Outdoor
Running Current (A)	Cooling	7.20	9.70
	Heating	7.40	9.90
Starting Current	A	7.40	9.90
Suggested MCB/Fuse	A	16	16
Interconnecting Cable		3 + E	3 + E
Remote Control Type		Wireless	Wireless
Sound Pressure (dB(A) Cooling)	Indoor Q/L/M/H	31 / 34 / 40 / 43	35 / 40 / 44 / 48
	Outdoor H	50	52
Sound Power (dB(A) Cooling)	Indoor H	57	61
	Outdoor H	62	67
Max Pipe Length	m	25	30
Max Height Difference	m	15	20
Refrigerant Charge	m	15	15
Additional Refrigerant Charge	g/m	20	20
Pipe Size (inches)	Gas	1/2	5/8
	Liquid	1/4	1/4
Operating Range (OC)	Cooling	-10 ~ 46	-10 ~ 46
	Heating	-15 ~ 24	-15 ~ 24
Refrigerant		R410A	R410A
System List Price	£	1415	1756

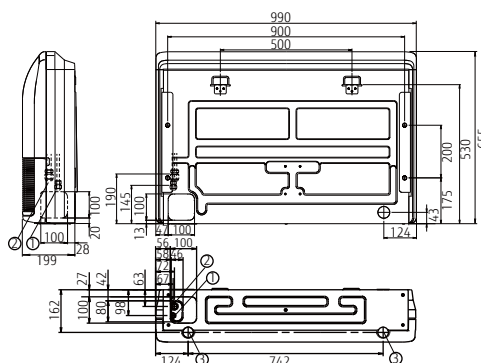
Optional parts

Wired Remote Controller:	UTYRVNYM	£100
Simple Remote Controller:	UTYRSNYM	£80
External Connect Kit	UTYXWZX	£9
Modbus Interface	FJRCMB51	£225
KNX Interface	FJRCKNX1i	£255
WiFi Interface	FJRCWIFI1	£225

* UK Cooling: indoor temperature 23°CDB / 16°CWB and outdoor temperature 30°C

Dimensions

(Unit : mm)



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

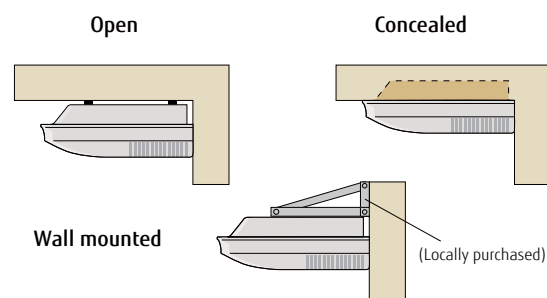
Ceiling Comfort for Large Room



Features

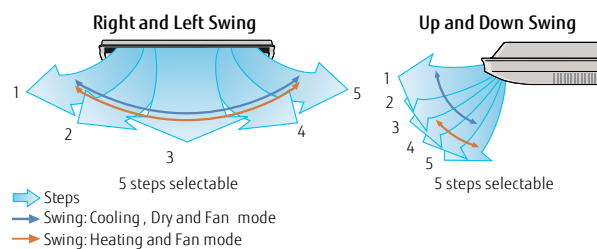
Flexible installation

Various installations are possible to match the room layout.

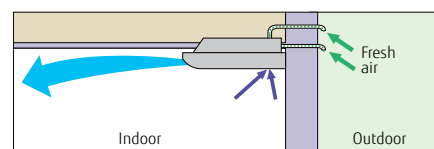


Multi auto swing

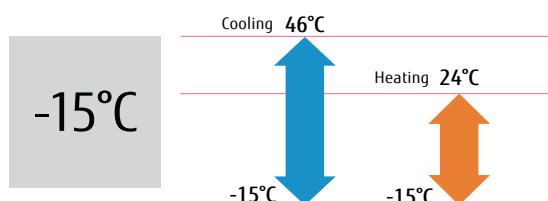
A combination of right/left and up/down directional swing allows 3-dimensional air direction control.



Fresh air intake



Low ambient operation



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



Wireless R.C.



For ABYG30/36LRTE



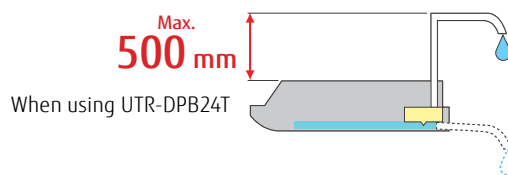
For ABYG36/45/54LRTA

Specifications

		3-Phase Units		
		ABYG36LRTA AOYG36LATT	ABYG45LRTA AOYG45LATT	ABYG54LRTA AOYG54LATT
Nominal Capacity (kW)	Cooling	10.00 (4.70-11.40)	12.50 (5.00-14.00)	14.00 (5.40-16.00)
	Heating	11.20 (5.00-14.00)	14.00 (5.40-16.20)	16.00 (5.80-18.00)
UK Total / Sensible Cooling *		9.08 / 6.53	11.50 / 7.87	12.87 / 8.85
Power Consumption (kW)	Cooling	2.84	3.89	4.65
	Heating	2.87	3.88	4.67
EER / COP (Nominal Conditions)		3.52 / 3.90	3.21 / 3.61	3.01 / 3.43
Pdesign (kW) @ -10°C	Cooling	10.00	-	-
	Heating	10.00	-	-
SEER	Cooling	6.10	-	-
SCOP	Heating (Average)	4.10	-	-
Energy Efficiency Class	Cooling	A++	-	-
	Heating (Average)	A+	-	-
Annual Energy Consumption (kWh/a)	Cooling	573	-	-
	Heating	3414	-	-
Moisture Removal	l/h	3.00	4.50	5.00
Dimensions (HxWxD) mm	Inner	240x1660x700	240x1660x700	240x1660x700
	Outer	830x900x330	830x900x330	1290x900x330
Net Weight (kg)	Inner	46	46	46
	Outer	104	104	104
Room Air Circulation (high) m3/h	Inner	1900	2100	2300
	Outer	6200	6900	6900
Power Supply	V-PH-Hz	230 / 1 / 50	400 / 3 / 50	400 / 3 / 50
Power Supply To		Outdoor	Outdoor	Outdoor
Running Current (A)	Cooling	4.30	5.80	6.90
	Heating	4.40	5.80	6.90
Starting Current	A	10.00	10.00	10.00
Suggested MCB/Fuse	A	16	16	16
Interconnecting Cable		3 + E	3 + E	3 + E
Remote Control Type		Wireless	Wireless	Wireless
Sound Pressure (dB(A) Cooling)	Indoor Q/L/M/H	32 / 37 / 43 / 47	34 / 39 / 45 / 49	38 / 42 / 48 / 51
	Outdoor H	51	54	55
Sound Power (dB(A) Cooling)	Indoor H	61	-	-
	Outdoor H	67	-	-
Max Pipe Length	m	75	75	75
Max Height Difference	m	30	30	30
Refrigerant Charge	m	30	30	30
Additional Refrigerant Charge	g/m	50	50	50
Pipe Size (inches)	Gas	3/8	3/8	3/8
	Liquid	5/8	5/8	5/8
Operating Range (OC)	Cooling	-15 ~ 46	-15 ~ 46	-15 ~ 46
	Heating	-15 ~ 24	-15 ~ 24	-15 ~ 24
Refrigerant		R410A	R410A	R410A
System List Price	£	2749	3210	3372

Optional parts

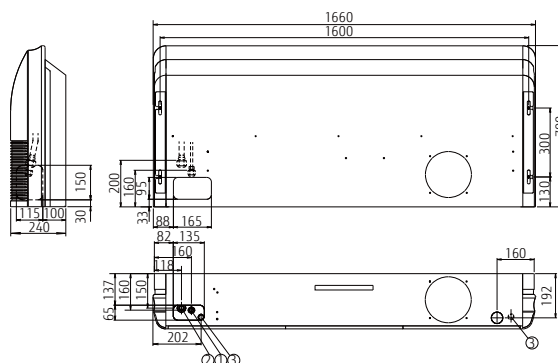
Wired Remote Controller:	UTYRVNYM	£100
Simple Remote Controller:	UTYRSNYM	£80
Drain Pump Unit	UTRDPB24T	£45
Flange	UTDRF204	£30
External Connect Kit	UTYXWZX	£9
Modbus Interface	FJRCMB51	£225
KNX Interface	FJRCKNX1i	£255
WiFi Interface	FJRCWIF1i	£225



* UK Cooling: indoor temperature 23°CDB / 16°CWB and outdoor temperature 30°C

Dimensions

(Unit : mm)



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

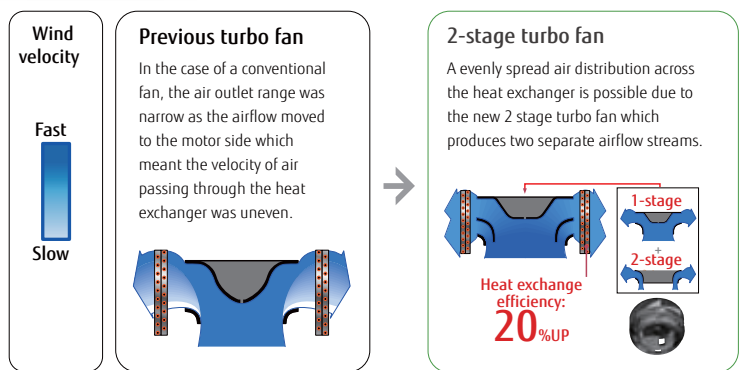
Compact Cassette 4-way Flow Compact & Comfort



Features

2-stage turbo fan

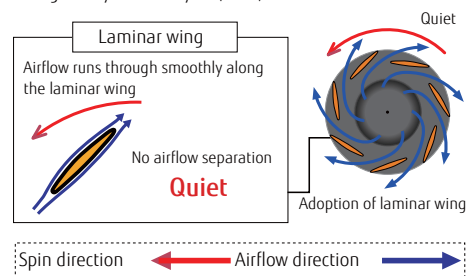
High efficiency design by 2 stage structure



Quiet quality

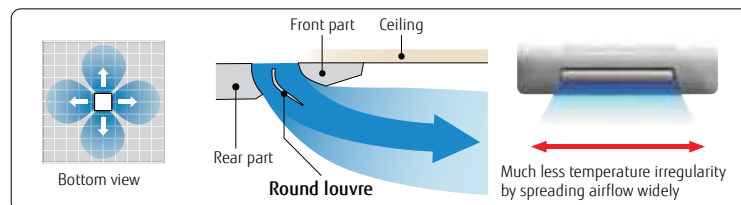
Optimization of wing form (laminar wing type) and wing number (7 blades each)

Designed by CFD-analysis (fluid) simulations

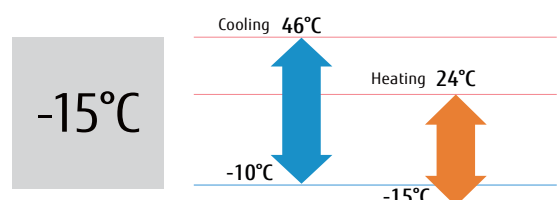


Improvement of the airflow distribution

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

	Indoor	AUYG12LVLB	AUYG14LVLB	AUYG18LVLB	AUYG24LVLA
	Outdoor	AOYG12LALL	AOYG14LALL	AOYG18LALL	AOYG24LALA
Nominal Capacity (kW)	Cooling	3.50 (0.90-4.40)	4.30 (0.90-5.40)	5.20 (0.90-5.90)	6.80 (0.90-8.00)
	Heating	4.10 (0.90-5.70)	5.00 (0.90-6.50)	6.00 (0.90-7.50)	8.00 (0.90-9.10)
UK Total / Sensible Cooling *		3.46 / 2.37	3.96 / 2.70	4.79 / 3.09	5.94 / 4.42
Power Consumption (kW)	Cooling	1.05	1.33	1.62	2.21
	Heating	1.11	1.34	1.66	2.26
EER / COP (Nominal Conditions)		3.33 / 3.69	3.21 / 3.71	3.21 / 3.61	3.08 / 3.54
Pdesign (kW) @ -10°C	Cooling	3.50	4.30	5.20	6.80
	Heating	4.20	4.50	5.20	6.00
SEER	Cooling	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 (kWh/a)	Cooling	198	235	293	425
	Heating	1431	1432	1731	2151
Moisture Removal	l/h	1.20	1.50	2.20	2.70
Dimensions (HxWxD) mm	Inner (Ex. Grille)*	245x570x570	245x570x570	245x570x570	245x570x570
	Outer	578x790x300	578x790x300	578x790x300	578x790x315
Net Weight (kg)	Inner (Ex. Grille)*	15	15	15	16
	Outer	40	40	40	44
Room Air Circulation (high) m3/h	Inner	600	680	680	930
	Outer	1780	1910	2000	2470
Power Supply	V-PH-Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Power Supply To	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Running Current (A)	Cooling	4.80	6.10	7.20	9.70
	Heating	5.10	6.10	7.40	9.90
Starting Current	A	5.10	6.10	7.40	9.90
Suggested MCB/Fuse	A	10	10	16	16
Interconnecting Cable		3 + E	3 + E	3 + E	3 + E
Remote Control Type		Wireless	Wireless	Wireless	Wireless
Sound Pressure (dB(A) Cooling)	Indoor Q/L/M/H	27 / 30 / 34 / 37	27 / 30 / 34 / 38	26 / 30 / 34 / 38	30 / 36 / 44 / 49
	Outdoor H	47	49	50	52
Sound Power (dB(A) Cooling)	Indoor H	49	50	50	59
	Outdoor H	61	62	62	67
Max Pipe Length	m	25	25	25	30
Max Height Difference	m	15	15	15	20
Refrigerant Charge	m	15	15	15	15
Additional Refrigerant Charge	g/m	20	20	20	20
Pipe Size (inches)	Gas	3/8	1/2	1/2	5/8
	Liquid	1/4	1/4	1/4	1/4
Operating Range (OC)	Cooling	-10 ~ 46	-10 ~ 46	-10 ~ 46	-10 ~ 46
	Heating	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24
Refrigerant		R410A	R410A	R410A	R410A
Grille (to be ordered separately)		UTGUFYDW	UTGUFYDW	UTGUFYDW	UTGUFYDW
System List Price	£	1146	1410	1553	1911

*Excludes Grille: Grille dimensions = 50x700x700, Grille weight = 2.6kg

Optional parts

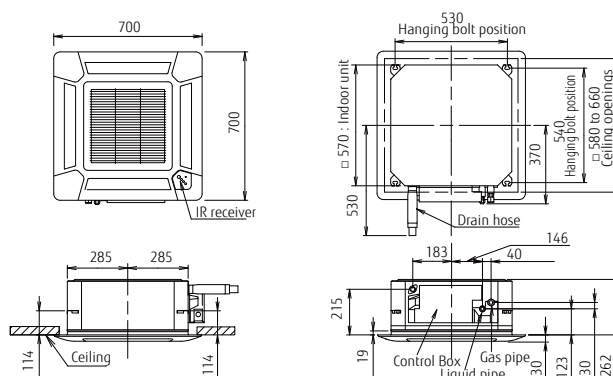
Wired Remote Controller:	UTYRVNYM	£100
Simple Remote Controller:	UTYRSNYM	£80
Fresh Air Intake Kit	UTZVXAA	£280
External Connect Kit	UTYXWZX	£9
Modbus Interface	FJRCMBS1	£225
KNX Interface	FJRCKNX1i	£255
WiFi Interface	FJRCWIFI1	£225



* UK Cooling: indoor temperature 23°CDB / 16°CWB and outdoor temperature 30°C

Dimensions

(Unit : mm)





Features

Unique Circular Flow design

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

ø7mm high density heat exchanger

New DC fan motor

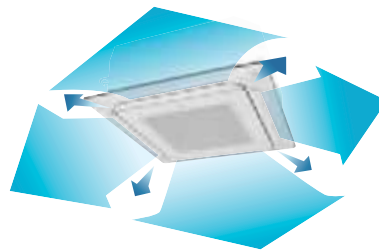
High efficient turbo fan

Seamless airflow louver



Uniform temperature air conditioning

Achieve a comfortable air conditioning spread to every corner of the room by circular flow & wide vertical airflow.



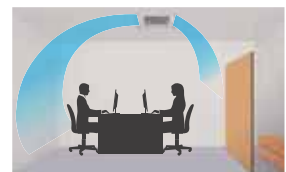
Individual louver control

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

*Touch Panel Wired RC (UTY-RNRYZ1) 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.

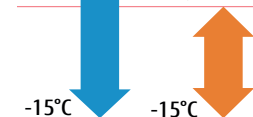
*Touch Panel Wired RC (UTY-RNRYZ1) only

Low ambient operation



Cooling 46°C

Heating 24°C



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



Touch Panel Wired R.C.



For AUXG18/24LRLB



For AUXG30/36LRLB



For AUXG45/54LRLB

Model No.	Indoor unit		AUXG18LRLB	AUXG24LRLB	AUXG30LRLB	AUXG36LRLB	AUXG45LRLB	AUXG54LRLB
	Outdoor unit		AOYG18BCA	AOYG24BCA	AOYG30BTA	AOYG36BTA	AOYG45BTA	AOYG54BTA
Power Source			Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW	5.2 (0.9-6.5)	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.5 (2.8-11.2)	12.5 (4.0-14.0)	13.3 (4.5-14.5)
	Heating		6.0 (0.9-8.0)	7.8 (0.9-9.1)	10.0 (2.7-11.2)	10.8 (2.7-12.7)	14.0 (4.2-16.2)	15.8 (4.7-16.5)
Input Power	Cooling/Heating	kW	1.42/1.50	2.16/2.18	2.56/2.77	2.96/2.91	3.85/3.73	4.38/4.58
EER	Cooling	W/W	3.66	3.15	3.32	3.21	3.25	3.04
COP	Heating		4.00	3.58	3.61	3.71	3.75	3.45
Pdesign	Cooling/Heating(-10°C)	kW	5.2/4.3	6.8/6.0	8.5/8.0	9.5/8.7	-	-
SEER	Cooling	W/W	7.05	6.60	6.70	6.40	-	-
SCOP	Heating (Average)		4.40	4.20	4.30	4.30	-	-
Energy Efficiency Class	Cooling		A++	A++	A++	A++	-	-
	Heating (Average)		A+	A+	A+	A+	-	-
Max. Operating Current	Cooling/Heating	A	10.0/13.5	13.5/18.5	17.0/17.0	20.0/20.0	20.5/20.5	21.5/21.5
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	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
Sound Power Level	Outdoor(Cooling/Heating)	High	51/50	55/56	53/55	54/55	55/55	55/57
	Indoor(Cooling/Heating)	High	47/47	49/49	54/54	58/58	60/60	61/61
Sound Power Level	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
	Indoor	mm	246×840×840	246×840×840	288×840×840	288×840×840	288×840×840	288×840×840
Net Dimensions H x W x D	Indoor	kg(lbs)	24 (53)	24 (53)	26 (57)	26 (57)	29 (64)	29 (64)
	Outdoor	mm	620×790×290	620×790×290	830×900×330	830×900×330	1290×900×330	1290×900×330
Weight	Indoor	kg(lbs)	41 (90)	41 (90)	61 (134)	61 (134)	86 (189)	86 (189)
	Outdoor	kg(lbs)	41 (90)	41 (90)	61 (134)	61 (134)	86 (189)	86 (189)
Connection Pipe Diameter (Liquid / Gas)		mm	6.35/12.7	6.35/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain hose Diameter (I.D./O.D.)		mm	25/32	25/32	25/32	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)		m	30 (15)	30 (15)	50 (20)	50 (20)	50 (20)	50 (20)
Max Height Difference		m	20	20	30	30	30	30
Operation Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	g	1,800	1,800	2,100	2,100	3,350	3,350
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 x W x D)	mm	53×950×950	53×950×950	53×950×950	53×950×950	53×950×950	53×950×950
	Weight	kg(lbs)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)	6.0 (13)
System List Price	£		1926	2046	2333	2749	3033	3522

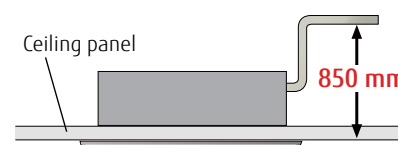
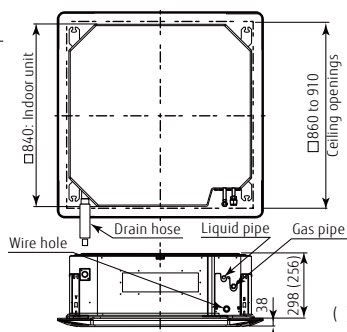
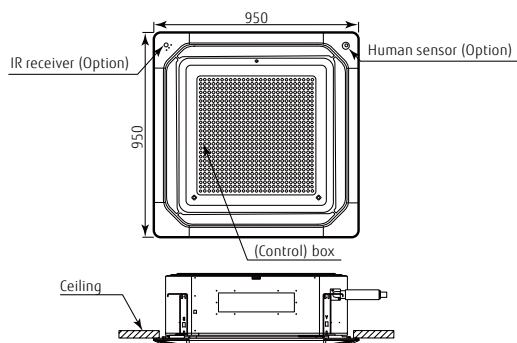
Optional parts

Simple Remote Controller:	UTY-RSNYM	£80	Modbus Interface	FJRCMB51	£225
IR Receiver Kit:	UTY-LBTYC	£94	KNX Interface	FJRCKNX1i	£255
Human Sensor Kit:	UTY-SHZXC	£59	WiFi Interface	FJRCWIFI1	£225
Flesh Air Intake Kit:	UTZ-VXRA	£350			
External input and output PCB (with box):	UTY-XCSX + UTZ-GXRA	£82 + £51			
External connect kit:	UTY-XWZXZG, UTY-XWZXZ3	£9, £9			

* UK Cooling: indoor temperature 23°CDB / 16°CWB and outdoor temperature 30°C

Dimensions

(Unit : mm)



(): AUXG18/24LRLB

Cassette 4-way Flow Comfort for large room

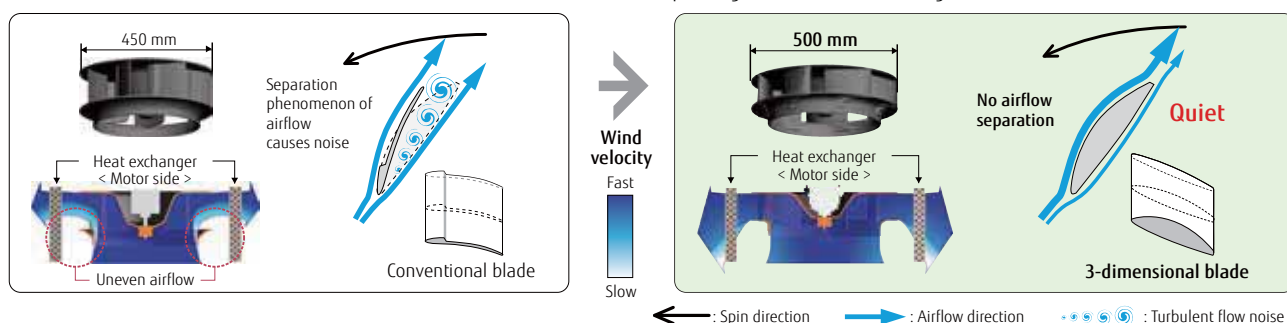


Features

High efficiency turbo fan with 3-dimensional blade

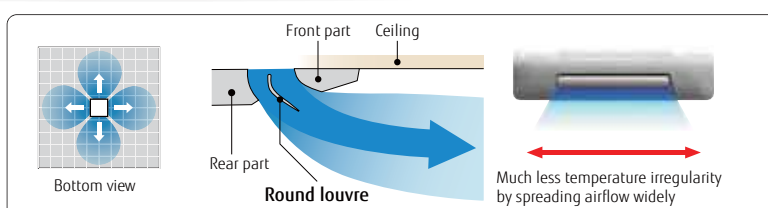
Previous turbo fan: Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.

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.



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.

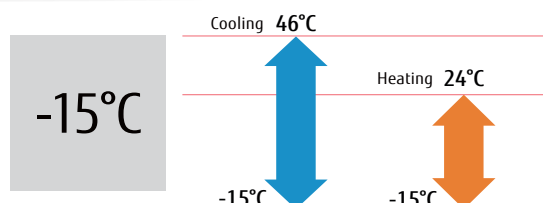


Adjustment of hanger position is possible after installation

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

		3-Phase Units			
		AUYG36LRLA	AUYG45LRLA	AUYG54LRLA	
	Indoor	AUYG30LRLE	AUYG36LRLE	AUYG45LRLA	AUYG54LRLA
	Outdoor	AUYG30LETL	AUYG36LETL	AUYG45LETL	AUYG54LETL
Nominal Capacity (kW)	Cooling	8.50 (2.80-10.00)	10.00 (2.80-11.20)	12.50 (4.00-14.00)	13.30 (4.50-14.50)
	Heating	10.00 (2.70-11.20)	11.20 (2.70-12.70)	14.00 (4.20-16.20)	16.00 (4.70-16.50)
UK Total / Sensible Cooling *		8.63 / 6.22	10.53 / 7.58	11.66 / 8.63	12.28 / 9.01
Power Consumption (kW)	Cooling	2.65	3.12	3.88	4.42
	Heating	2.77	3.02	3.77	4.69
EER / COP (Nominal Conditions)		3.21 / 3.61	3.21 / 3.71	3.22 / 3.71	3.01 / 3.41
Pdesign (kW) @ -10°C	Cooling	8.50	10.00	-	-
	Heating	8.00	8.70	-	-
SEER	Cooling	6.50	6.30	-	-
	Heating (Average)	4.30	4.20	-	-
SCOP	Cooling	A++	A++	-	-
	Heating (Average)	A+	A+	-	-
Annual Energy Consumption (kWh/a)	Cooling	458	555	-	-
	Heating	2604	2897	-	-
Moisture Removal	l/h	2.50	3.50	4.50	5.00
Dimensions (HxWxD) mm	Inner (Ex. Grille)*	288x840x840	288x840x840	288x840x840	288x840x840
	Outer	830x900x330	830x900x330	1290x900x330	1290x900x330
Net Weight (kg)	Inner (Ex. Grille)*	26	26	26	26
	Outer	61	61	86	86
Room Air Circulation (high) m3/h	Inner	1600	1800	1900	2000
	Outer	3600	3800	6750	6750
Power Supply	V-PH-Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Power Supply To	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Running Current (A)	Cooling	11.60	13.70	17.00	19.30
	Heating	12.20	13.30	16.50	20.50
Starting Current	A	12.20	13.70	22.50	23.50
Suggested MCB/Fuse	A	20	20	25	25
Interconnecting Cable		3 + E	3 + E	3 + E	3 + E
Remote Control Type		Wired	Wired	Wired	Wired
Sound Pressure (dB(A) Cooling)	Indoor Q/L/M/H	32 / 36 / 38 / 40	32 / 36 / 38 / 43	36 / 40 / 42 / 46	37 / 41 / 43 / 47
	Outdoor H	53	54	55	55
Sound Power (dB(A) Cooling)	Indoor H	54	57	-	-
	Outdoor H	68	69	-	-
Max Pipe Length	m	50	50	50	50
Max Height Difference	m	30	30	30	30
Refrigerant Charge	m	20	20	20	20
Additional Refrigerant Charge	g/m	40	40	40	40
Pipe Size (inches)	Gas	5/8	5/8	5/8	5/8
	Liquid	3/8	3/8	3/8	3/8
Operating Range (OC)	Cooling	-15 ~ 46	-15 ~ 46	-15 ~ 46	-15 ~ 46
	Heating	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24
Refrigerant		R410A	R410A	R410A	R410A
Grille (to be ordered separately)		UTGUGYAW	UTGUGYAW	UTGUGYAW	UTGUGYAW
System List Price	£	2178	2508	2720	3145

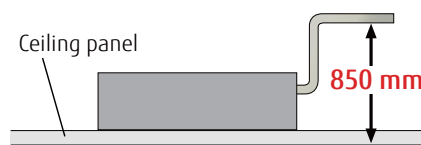
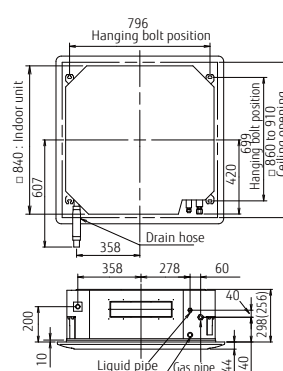
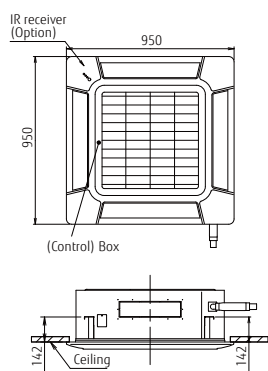
*Excludes Grille: Grille dimensions = 50x950x950, Grille weight = 6.5kg

Optional parts

Wired Remote Controller	UTYRVNYM	£100
Simple Remote Controller	UTYRSNYM	£80
IR Reciever Kit:	UTYLRHYA2	£73
Fresh Air Intake Kit	UTZVXGA	£350
External Connect Kit	UTYXWZX	£9
Modbus Interface	FJRCMB51	£225
KNX Interface	FJRCKNX1i	£255
WiFi Interface	FJRCWIFI1	£225

Dimensions

(Unit : mm)



* UK Cooling: indoor temperature 23°CDB / 16°CWB and outdoor temperature 30°C

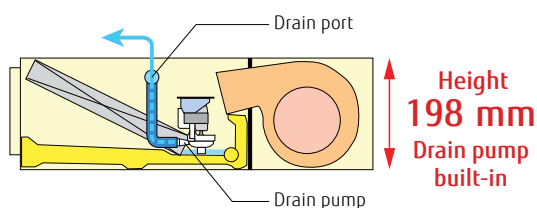
Slim Duct Slim & Comfort



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.

Ceiling concealed



Floor concealed



Selectable with a wide range of static pressure

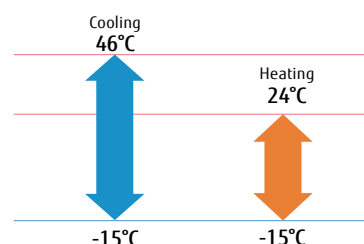
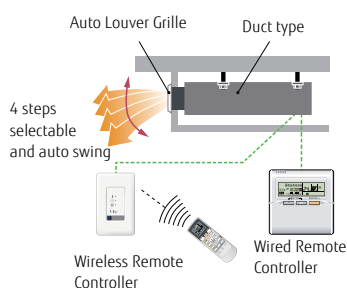
By using the DC fan motor, it is possible to change the static pressure range from 0 to 90 Pa.
The change of static pressure range is possible by remote controller.



Static pressure range
0 to 90 Pa

Auto Louver Grille Kit (Option)

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



Model : ARYG12LLTB / ARYG14LLTB / ARYG18LLTB



Wired R.C.



ARYG12/14LLTB



ARYG18LLTB

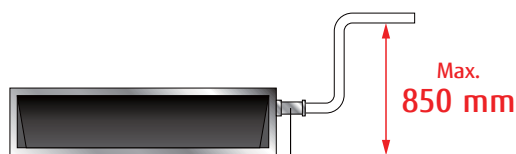


Specifications

	Indoor	ARYG12LLTB AOYG12LALL	ARYG14LLTB AOYG14LALL	ARYG18LLTB AOYG18LALL
Nominal Capacity (kW)	Cooling	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 *		3.48 / 2.47	3.97 / 2.90	4.80 / 3.45
Power Consumption (kW)	Cooling	1.05	1.33	1.62
	Heating	1.11	1.34	1.66
EER / COP (Nominal Conditions)		3.33 / 3.69	3.21 / 3.71	3.21 / 3.61
Pdesign (kW) @ -10°C	Cooling	3.50	4.30	5.20
	Heating	4.20	4.50	5.20
SEER	Cooling	5.90	5.80	6.20
SCOP	Heating (Average)	4.00	3.90	4.10
Energy Efficiency Class	Cooling	A+	A+	A++
	Heating (Average)	A+	A	A+
Annual Energy Consumption (kWh/a)	Cooling	207	259	293
	Heating	1467	1614	1774
Moisture Removal	l/h	1.30	1.50	2.00
Dimensions (HxWxD) mm	Inner	198x700x620	198x700x620	198x900x620
	Outer	578x790x300	578x790x300	578x790x300
Net Weight (kg)	Inner	19	19	23
	Outer	40	40	40
Room Air Circulation (high) m3/h	Inner	650	800	940
	Outer	1780	1910	2000
Static Pressure Range (Standard)	Pa	0 to 90 (25)	0 to 90 (25)	0 to 90 (25)
Power Supply	V-PH-Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Power Supply To	Outdoor	Outdoor	Outdoor	Outdoor
Running Current (A)	Cooling	4.80	6.10	7.20
	Heating	5.10	6.10	7.40
Starting Current	A	5.10	6.10	7.40
Suggested MCB/Fuse	A	16	16	16
Interconnecting Cable		3 + E	3 + E	3 + E
Remote Control Type		Wired	Wired	Wired
Sound Pressure (dB(A) Cooling)	Indoor Q/L/M/H	25 / 26 / 28 / 29	26 / 28 / 30 / 32	27 / 29 / 30 / 32
	Outdoor H	47	49	50
Sound Power (dB(A) Cooling)	Indoor H	58	60	58
	Outdoor H	61	62	62
Max Pipe Length	m	25	25	25
Max Height Difference	m	15	15	15
Refrigerant Charge	m	15	15	15
Additional Refrigerant Charge	g/m	20	20	20
Pipe Size (inches)	Gas	3/8	1/2	1/2
	Liquid	1/4	1/4	1/4
Operating Range (OC)	Cooling	-10 ~ 46	-10 ~ 46	-10 ~ 46
	Heating	-15 ~ 24	-15 ~ 24	-15 ~ 24
Refrigerant		R410A	R410A	R410A
System List Price	£	1179	1310	1498

Optional parts

Wired Remote Controller:	UTYRVNYM	£100
Simple Remote Controller:	UTYRSNYM	£80
IR Reciever Sensor Kit:	UTYLRYHM	£252
Remote Sensor Unit:	UTYXSZX	£54
Auto Louver Grille Kit:	UTDGXSAW (for ARYG12 / 14LLTB)	£130
	UTDGXSBW (for ARYG18LLTB)	£145
External Connect Kit	UTDECS5A	£13
Modbus Interface	FJRCMBS1	£225
KNX Interface	FJRCKNX1i	£255
WiFi Interface	FJRCWIFI1	£225

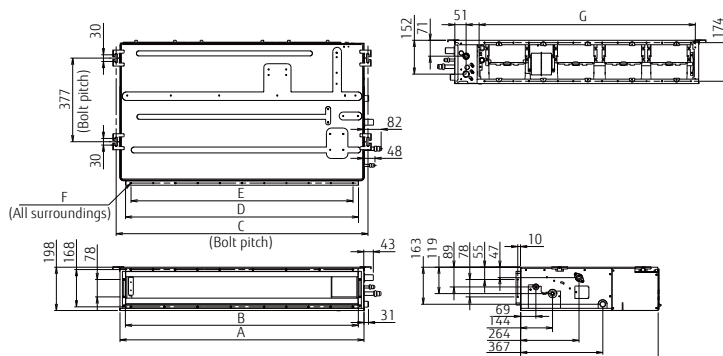


Drain hose is standard accessory

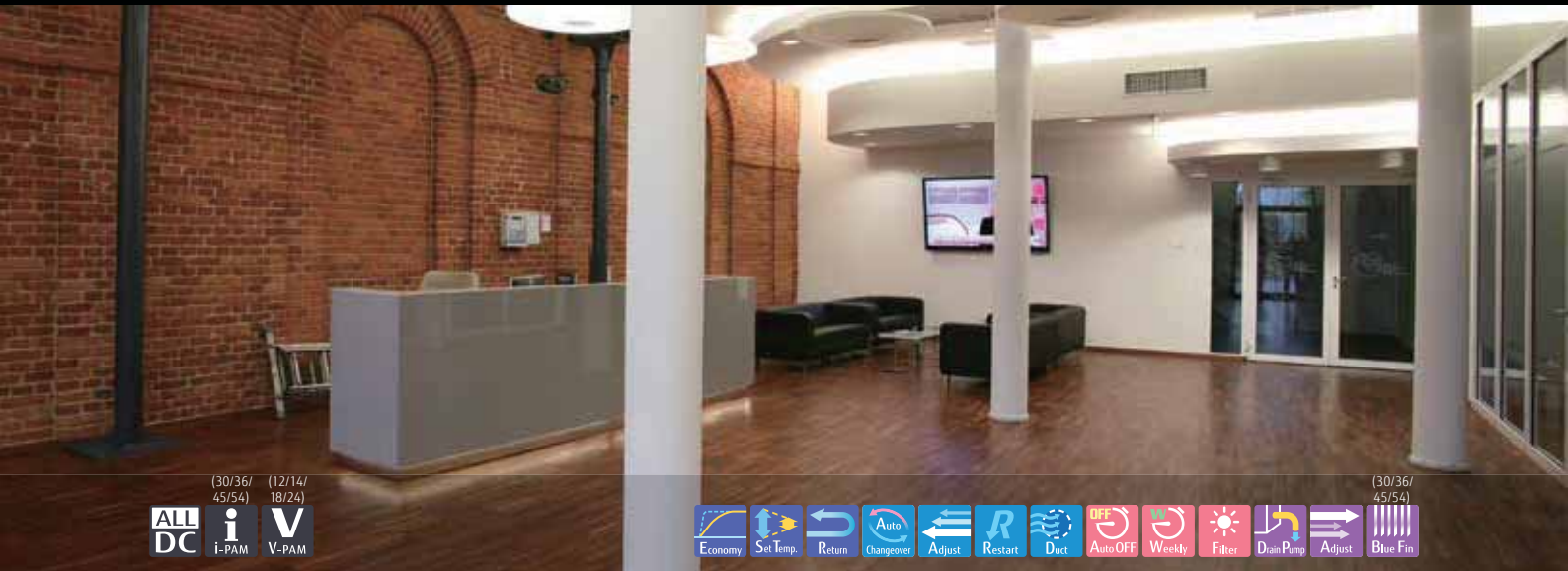
* UK Cooling: indoor temperature 23°CDB / 16°CWB and outdoor temperature 30°C

Dimensions

(Unit : mm)



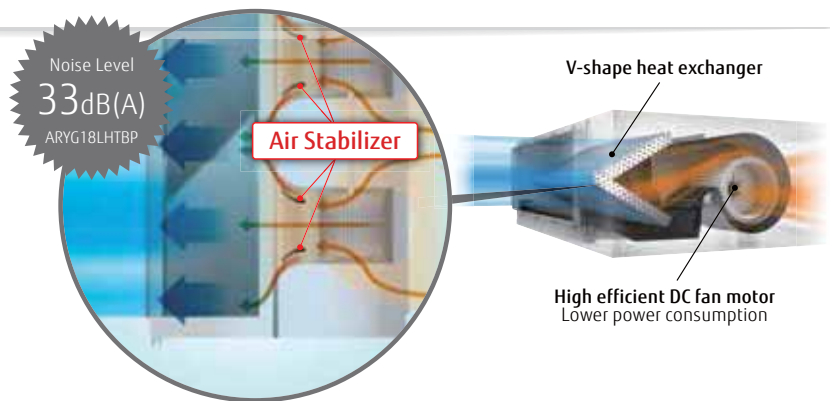
	ARYG12 / 14LLTB	ARYG18LLTB
A	700	900
B	650	850
C	734	934
D	650	850
E	P100x6=600	P100x8=800
F	18xØ5	22xØ5
G	574	774



Features

High Efficiency & Quiet operation

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



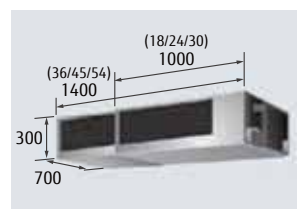
Automatic Airflow adjustment function

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



Improved installation flexibility

- Capable to be installed in various applications that requires static pressure of 30Pa 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.

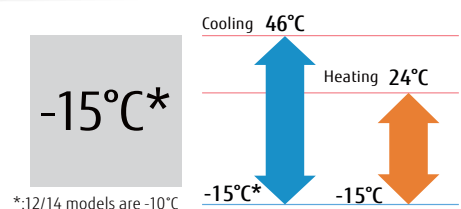


30 Pa 200 Pa
Short duct Long duct with damper

Improved service and maintenance

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

Low ambient operation



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



Touch Panel Wired R.C.



ARYG12/14LHTBP



ARYG18/24/30LHTBP



ARYG36/45/54LHTBP



For ARYG12/14/18/24LHTBP



For ARYG30/36LHTBP



For ARYG45/54LHTBP

Specifications

Model Number	Indoor	ARYG12LHTBP	ARYG14LHTBP	ARYG18LHTBP	ARYG24LHTBP	ARYG30LHTBP	ARYG36LHTBP	ARYG45LHTBP	ARYG54LHTBP
		AOYG12LBLA	AOYG14LBLA	AOYG18LBCA	AOYG24LBCA	ARYG30LBT	ARYG36LBT	ARYG45LBT	ARYG54LBT
Nominal Capacity (kW)	Cooling	3.5	4.3	5.2	6.8	8.5	9.4	12.1	13.4
	Heating	4.1	5.0	6.0	8.0	10.0	11.2	13.3	16.0
UK Total / Sensible Cooling*		tba	tba	4.57 / 3.37	5.98 / 4.84	8.59 / 6.84	9.03 / 7.38	11.31 / 9.40	12.89 / 10.42
Power Consumption (kW)	Cooling	0.90	1.18	1.37	1.95	2.65	2.83	3.59	4.42
	Heating	1.00	1.25	1.48	2.21	2.70	3.07	3.44	4.62
EER / COP (Nominal Conditions)		3.89/4.10	3.64/4.00	3.80/4.05	3.49/3.62	3.21/3.70	3.32/3.65	3.37/3.87	3.03/3.46
Pdesign (kW) @ -10°C	Cooling	3.5	4.3	5.2	6.8	8.5	9.4	-	-
	Heating	4.2	4.5	4.3	6.0	8.0	8.7	-	-
SEER	Cooling	6.20	4.3/4.5	7.15	6.50	5.95	5.81	-	-
SCOP	Heating (Average)	4.10	3.95	4.11	4.01	3.95	3.81	-	-
Energy Efficiency Class	Cooling	A++	A+	A++	A++	A+	A+	-	-
	Heating (Average)	A+	A	A+	A+	A	A	-	-
Annual Energy Consumption (kWh/a)	Cooling	tba	tba	255	366	500	566	tba	tba
	Heating	tba	tba	1462	2092	2833	3194	tba	tba
Moisture Removal	l/h	tba	tba	1.2	1.8	2.3	2.0	2.6	3.7
Dimensions (HxWxD) mm	Inner	300x700x700	300x700x700	300x1000x700	300x1000x700	300x1000x700	300x1400x700	300x1400x700	300x1400x700
	Outer	578x790x300	578x790x300	620x790x290	620x790x290	830x900x330	830x900x330	1290x900x330	1290x900x330
Net Weight (kg)	Inner	27	27	36	36	36	46	46	46
	Outer	40	40	41	41	61	61	86	86
Room Air Circulation (high) m3/h	Inner	850	950	1050	1360	1700	2050	2550	2550
	Outer	1780	1910	1900	2460	3600	3800	6750	6750
Power Supply	V-PH-Hz	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
Power Supply To		Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Running Current (A)	Cooling	7.5	9.0	10.0	13.5	17.0	20.0	22.5	23.5
	Heating	10.0	12.5	13.5	18.5	17.0	20.0	22.5	23.5
Starting current	A	tba	tba	6.6	9.7	11.8	13.4	15.7	20.2
Suggested MCB/Fuse	A	15	15	15	20	20	25	25	25
Interconnecting Cable		3 + E	3 + E	3 + E	3 + E	3 + E	3 + E	3 + E	3 + E
Remote Control Type (supplied with indoor unit)		Wired	Wired	Wired	Wired	Wired	Wired	Wired	Wired
Static Pressure Range (standard)	Pa	30 to 200 (35)	30 to 200 (35)	30 to 200 (35)	30 to 200 (35)	30 to 200 (47)	30 to 200 (47)	30 to 200 (60)	30 to 200 (60)
Sound Pressure (dB(A) Cooling)	Indoor Q/L/M/H	32/30/25/22	33/28/27/23	28/25/22/20	32/28/24/21	36/33/30/29	36/31/28/26	39/35/31/29	39/35/31/29
	Outdoor H	47	49	50	55	53	54	55	55
Sound Power (dB(A) Cooling)	Indoor H	tba	tba	54	57	63	64	67	67
	Outdoor H	61	62	63	68	68	69	68	69
Max Pipe Length	m	25	25	30	30	50	50	50	50
Max Height Difference	m	15	15	20	20	30	30	30	30
Refrigerant Charge	m	15	15	15	15	20	20	20	20
Additional Refrigerant Charge	g/m	tba	tba						
Pipe Size (inches)	Gas	3/8	1/2	1/2	5/8	5/8	5/8	5/8	5/8
	Liquid	1/4	1/4	1/4	3/8	3/8	3/8	3/8	3/8
Operating Range °CDB	Cooling	-10 to 46	-10 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
Filter (to be ordered separately)		UTD-LFNC	UTD-LFNC	UTD-LFNB	UTD-LFNB	UTD-LFNB	UTD-LFNA	UTD-LFNA	UTD-LFNA
System List Price	£	Future Release	Future Release	1728	2267	2687	3263	3348	3507

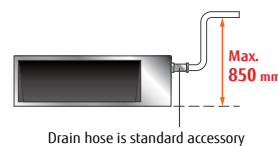
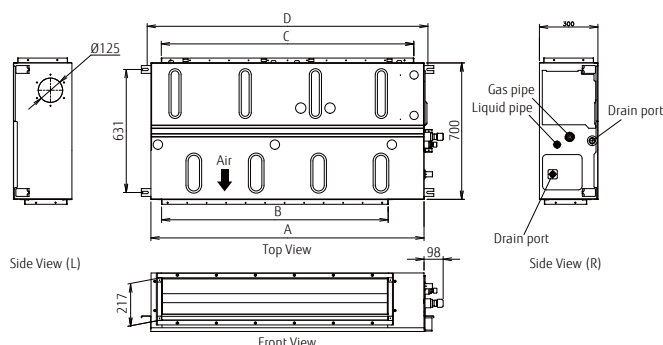
Optional parts

Simple Remote Controller:	UTY-RSXYM	£80	Modbus Interface	FJRCMBS1	£225
IR Receiver Unit :	UTY-LBTYM	£256	KNX Interface	FJRCKNX1i	£255
External input and output PCB (with bracket):	UTY-XCSX + UTZ-GXNA	£82 + £27	WiFi Interface	FJRCWIFI1	£225
External connect kit:	UTY-XWZXZG, UTZ-XWZXZ3	£9, £9			
Long life filter:	UTD-LFNA (for ARYG36/45/54LHTBP)	£59			
	UTD-LFNB (for ARYG24/30LHTBP)	£59			
	UTD-LFNC (for ARYG12/14LHTBP)	£59			
Remote Sensor Unit:	UTY-XSZX	£54			

* UK Cooling: indoor temperature 23°CDB / 16°CWB and outdoor temperature 30°C

Dimensions

(Unit : mm)



Drain hose is standard accessory

	ARYG12/14LHTBP	ARYG18/24/30LHTBP	ARYG36/45/54LHTBP
A	700	1,000	1,400
B	462	762	1,162
C	650	895	1,295
D	740	1,040	1,440

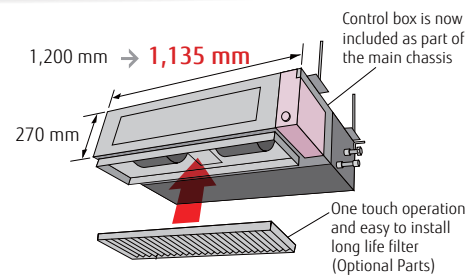
Medium Static Pressure Duct High Efficiency & Comfort



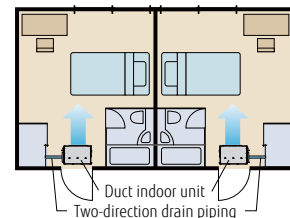
Features

Slim & Compact design

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



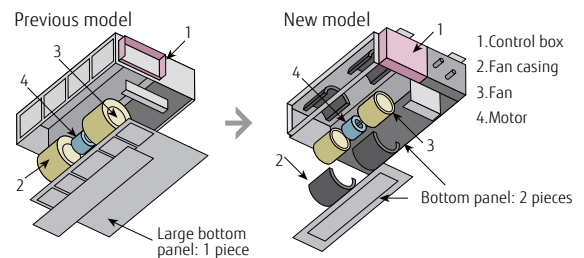
Two-direction drain piping



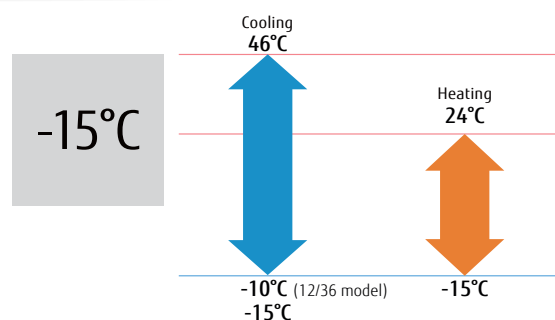
Easy maintenance

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

See below for the case of rear suction type



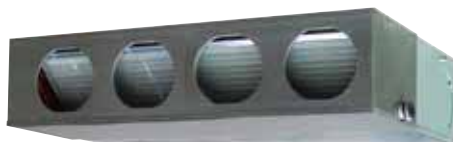
Low ambient operation



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



Wired R.C.



For ARYG24LMLA



For ARYG30/36LMLE



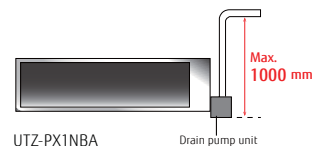
For ARYG36/45LMLA

Specifications

		3-Phase Units			
		ARYG36LMLA AOYG36LAIT	ARYG45LMLA AOYG45LAIT		
Nominal Capacity (kW)	Indoor	ARYG24LMLA AOYG24LALA	ARYG30LMLE AOYG30LETL	ARYG36LMLE AOYG36LETL	ARYG45LMLA AOYG45LETL
	Outdoor				
Cooling		6.80 (0.90-8.00)	8.50 (2.80-10.00)	9.40 (2.80-11.20)	12.10 (4.00-13.30)
	Heating	8.00 (0.90-9.10)	10.00 (2.70-11.20)	11.20 (2.70-12.70)	13.30 (4.20-15.50)
UK Total / Sensible Cooling *		5.98 / 4.52	8.41 / 6.66	9.03 / 6.72	11.31 / 8.53
Power Consumption (kW)	Cooling	2.21	2.65	2.96	3.77
	Heating	2.26	2.68	3.10	3.68
EER / COP (Nominal Conditions)		3.08 / 3.54	3.21 / 3.73	3.18 / 3.61	3.21 / 3.61
Pdesign (kW) @ -10°C	Cooling	6.80	8.50	9.40	-
	Heating	6.00	8.00	8.70	-
SEER	Cooling	6.20	5.90	5.70	-
	Heating (Average)	4.00	3.90	3.80	-
Energy Efficiency Class	Cooling	A++	A+	A+	-
	Heating (Average)	A+	A	A	-
Annual Energy Consumption (kWh/a)	Cooling	384	504	576	-
	Heating	2098	2868	3202	-
Moisture Removal	l/h	2.50	2.50	3.00	4.00
	Inner	270x1135x700	270x1135x700	270x1135x700	270x1135x700
Dimensions (HxWxD) mm	Outer	578x790x315	830x900x330	830x900x330	1290x900x330
	Inner	38	40	40	40
Net Weight (kg)	Outer	44	61	61	86
	Inner	1100	1900	1900	2100
Room Air Circulation (high) m3/h	Outer	2470	3600	3800	6200
	Inner	30 to 150 (35)	30 to 150 (47)	30 to 150 (47)	30 to 150 (60)
Static Pressure Range (Standard)	Pa	30 to 150 (35)	30 to 150 (47)	30 to 150 (47)	30 to 150 (60)
Power Supply	V-PH-Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Power Supply To		Outdoor	Outdoor	Outdoor	Outdoor
Running Current (A)	Cooling	9.70	11.60	13.00	16.50
	Heating	9.90	11.70	13.60	16.10
Starting Current	A	9.90	12.20	13.70	22.50
Suggested MCB/Fuse	A	16	20	25	25
Interconnecting Cable		3 + E	3 + E	3 + E	3 + E
Remote Control Type		Wired	Wired	Wired	Wired
Sound Pressure (dB(A) Cooling)	Indoor Q/L/M/H	25 / 27 / 29 / 31	26 / 30 / 35 / 39	26 / 30 / 35 / 39	28 / 32 / 38 / 42
	Outdoor H	52	53	54	55
Sound Power (dB(A) Cooling)	Indoor H	60	65	65	-
	Outdoor H	67	68	69	-
Max Pipe Length	m	30	50	50	50
Max Height Difference	m	20	30	30	30
Refrigerant Charge	m	15	20	20	20
Additional Refrigerant Charge	g/m	20	40	40	40
	Gas	5/8	5/8	5/8	5/8
Pipe Size (inches)	Liquid	1/4	3/8	3/8	3/8
	Cooling	-10 ~ 46	-15 ~ 46	-15 ~ 46	-15 ~ 46
Operating Range (OC)	Heating	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24
Refrigerant		R410A	R410A	R410A	R410A
System List Price	£	1916	2372	2559	2884

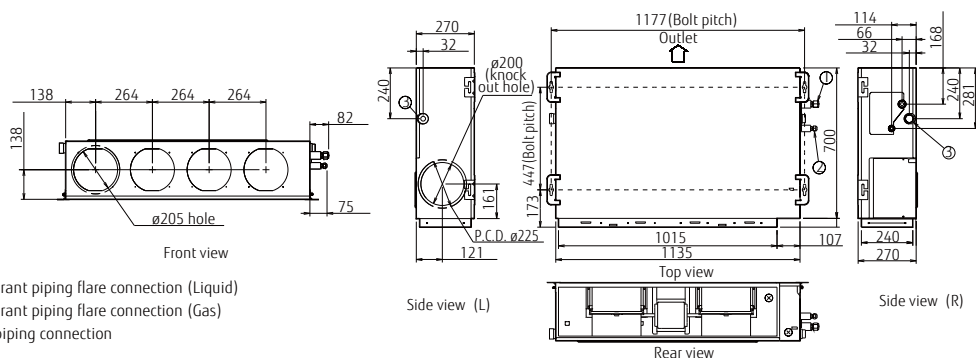
Optional parts

Wired Remote Controller:	UTYRVNYM	£100	Drain Pump Unit:	UTZPX1NBA	£60
Simple Remote Controller:	UTYRSNYM	£80	IR Receiver Kit:	UTYLRHYM	£252
Flange (Round)	UTDRF204	£30	External Connect Kit	UTDECSSA	£13
Flange (Square)	UTDSF045T	£40	Modbus Interface	FJRCMBS1	£225
Long Life Filter	UTDLF25NA	£91	KNX Interface	FJRCKNX1i	£255
Remote Sensor Unit	UTYXSZX	£54	WiFi Interface	FJRCWIFI1	£225



Dimensions

(Unit : mm)



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

* UK Cooling: indoor temperature 23°CDB / 16°CWB and outdoor temperature 30°C

High Static Pressure Duct

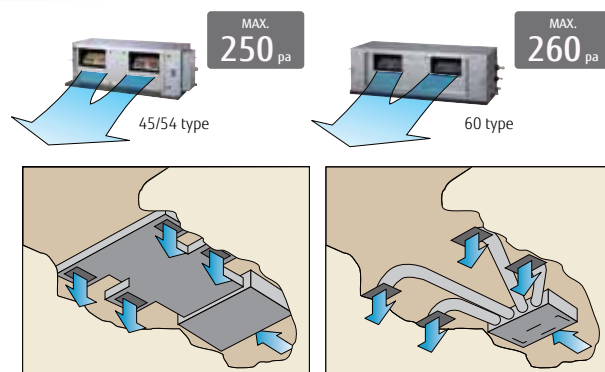


Features

High energy efficiency

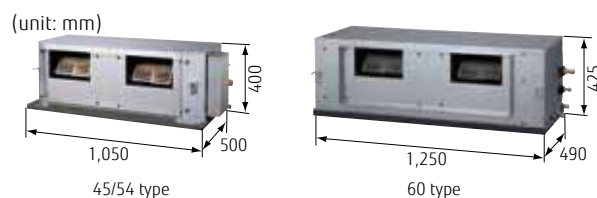
Significantly greater efficiency is realized by using all DC inverter technology. (60 type)

Design also corresponding to high static pressure



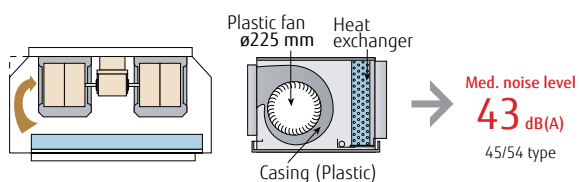
Easy installation (Compact size & Lightweight)

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

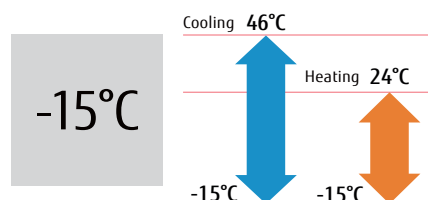


Low noise

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



Low ambient operation



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



Wired R.C.



ARYG45/54LHTA



ARYG60LHTA



Specifications

	Indoor	ARYG45LHTA AOYG45LETL	ARYG54LHTA AOYG54LETL
Nominal Capacity (kW)	Cooling	12.50 (4.50-14.00)	13.40 (5.00-14.50)
	Heating	14.00 (5.00-16.20)	16.00 (5.50-18.00)
UK Total / Sensible Cooling *		12.07 / 10.17	13.14 / 10.93
Power Consumption (kW)	Cooling	4.30	4.77
	Heating	3.80	4.69
EER / COP (Nominal Conditions)		2.91 / 3.68	2.81 / 3.41
Pdesign (kW) @ -10°C	Cooling	-	-
	Heating	-	-
SEER	Cooling	-	-
SCOP	Heating (Average)	-	-
Energy Efficiency Class	Cooling	-	-
	Heating (Average)	-	-
Annual Energy Consumption (kWh/a)	Cooling	-	-
	Heating	-	-
Moisture Removal	l/h	1.50	2.00
Dimensions (HxWxD) mm	Inner	400x1050x500	400x1050x500
	Outer	1290x900x330	1290x900x330
Net Weight (kg)	Inner	46	46
	Outer	86	86
Room Air Circulation (high) m3/h	Inner	3350	3350
	Outer	6750	6750
Static Pressure Range (Standard)	Pa	100 to 250 (100)	100 to 250 (100)
Power Supply	V-PH-Hz	230 / 1 / 50	230 / 1 / 50
Power Supply To		Outdoor	Outdoor
Running Current (A)	Cooling	18.90	20.90
	Heating	16.70	20.50
Starting Current	A	22.50	23.50
Suggested MCB/Fuse	A	25	25
Interconnecting Cable		3 + E	3 + E
Remote Control Type		Wired	Wired
Sound Pressure (dB(A) Cooling)	Indoor Q/L/M/H	- / 40 / 43 / 47	- / 40 / 43 / 47
	Outdoor H	55	55
Sound Power (dB(A) Cooling)	Indoor H	-	-
	Outdoor H	-	-
Max Pipe Length	m	50	50
Max Height Difference	m	30	30
Refrigerant Charge	m	20	20
Additional Refrigerant Charge	g/m	40	40
Pipe Size (inches)	Gas	5/8	5/8
	Liquid	3/8	3/8
Operating Range (OC)	Cooling	-15 ~ 46	-15 ~ 46
	Heating	-15 ~ 24	-15 ~ 24
Refrigerant		R410A	R410A
System List Price	£	2942	3166

3-Phase Units		
ARYG45LHTA AOYG45LATT	ARYG54LHTA AOYG54LATT	ARYG60LHTA AOYG60LATT
12.50 (5.00-14.00)	14.00 (5.40-16.00)	15.00 (6.20-17.50)
14.00 (5.40-16.20)	16.00 (5.80-18.00)	18.00 (6.20-20.00)
11.47 / 9.59	12.85 / 10.32	13.47 / 12.77
4.06	4.65	4.70
3.67	4.37	5.15
3.08 / 3.81	3.01 / 3.66	3.19 / 3.50
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
1.50	2.50	2.00
400x1050x500	400x1050x500	425x1250x490
1290x900x330	1290x900x330	1290x900x330
46	46	54
104	104	104
3350	3350	3550
6750	6900	6900
100 to 250 (100)	100 to 250 (100)	60 to 260 (60)
400 / 3 / 50	400 / 3 / 50	400 / 3 / 50
Outdoor	Outdoor	Outdoor
6.10	6.90	6.90
5.50	6.50	7.60
10.00	10.00	7.60
16	16	16
3 + E	3 + E	3 + E
Wired	Wired	Wired
- / 40 / 43 / 47	- / 40 / 43 / 47	- / 36 / 40 / 45
54	55	56
-	-	-
-	-	-
75	75	75
30	30	30
30	30	30
50	50	50
5/8	5/8	5/8
3/8	3/8	3/8
-15 ~ 46	-15 ~ 46	-15 ~ 46
-15 ~ 24	-15 ~ 24	-15 ~ 24
R410A	R410A	R410A
3082	3337	3582

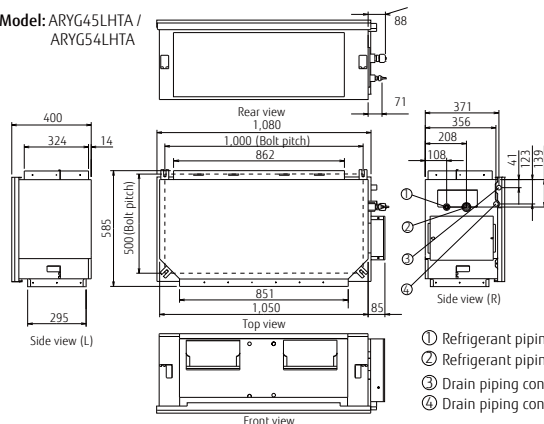
Optional parts

Wired Remote Controller:	UTYRVNYM	£100	External Connect Kit - Indoor	UTDECS5A	£13
Simple Remote Controller:	UTYRSNYM	£80	External Connect Kit - Outdoor	UTYXWZXZ2	£18
Long Life Filter	UTDLF60KA (for ARYG45/54LHTA only)	£91	Modbus Interface	FJRCMBS1	£225
Remote Sensor Unit:	UTYXSZX	£54	KNX Interface	FJRCKNX1i	£255
IR Receiver Kit	UTYLRHYM (for ARYG60LHTA only)	£252	WiFi Interface	FJRCWIF1i	£225

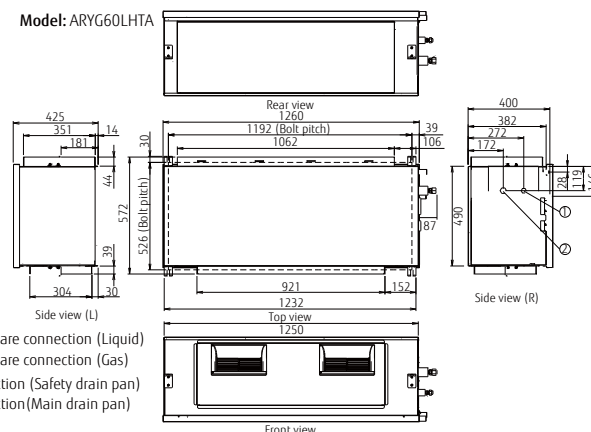
Dimensions

(Unit : mm)

Model: ARYG45LHTA /
ARYG54LHTA



Model: ARYG60LHTA



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

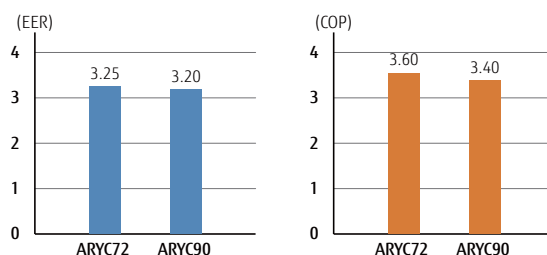
High Static Pressure Duct



Features

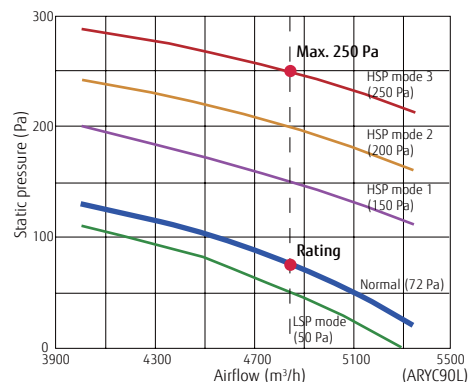
High energy efficiency

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



5 Static Pressure selection

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



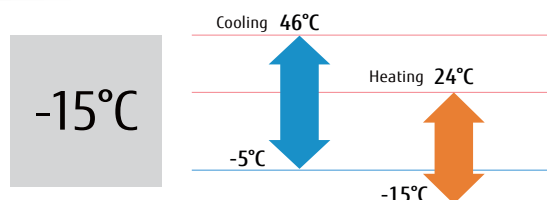
Outdoor unit quiet operation

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



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



Wired R.C.



ARYC72LHTA



ARYC90LHTA



Specifications

		3-Phase Units	
		ARYC72LHTA AOYA72LALT	ARYC90LHTA AOYA90LALT
Nominal Capacity (kW)	Indoor		
	Outdoor		
	Heating	20.30 (10.80-23.50)	25.00 (11.20-28.00)
UK Total / Sensible Cooling *	Indoor		
	Outdoor		
	Heating	22.60 (12.00-26.50)	28.00 (12.50-31.50)
Power Consumption (kW)	Indoor		
	Outdoor		
	Heating	19.46 / 15.22	24.33 / 19.78
EER / COP (Nominal Conditions)	Indoor		
	Outdoor		
	Heating	6.25	7.82
Pdesign (kW) @ -10°C	Indoor		
	Outdoor		
	Heating	6.27	8.24
SEER	Indoor		
	Outdoor		
	Heating (Average)	3.25 / 3.60	3.20 / 3.40
SCOP	Indoor		
	Outdoor		
	Heating (Average)	-	-
Energy Efficiency Class	Indoor		
	Outdoor		
	Heating (Average)	-	-
Annual Energy Consumption (kWh/a)	Indoor		
	Outdoor		
	Heating	-	-
Moisture Removal	Indoor		
	Outdoor		
	Heating	4.50	6.00
Dimensions (HxWxD) mm	Indoor		
	Outdoor		
	Heating	450x1587x700	550x1587x700
Net Weight (kg)	Indoor		
	Outdoor		
	Heating	1690x930x765	1690x930x765
Room Air Circulation (high) m3/h	Indoor		
	Outdoor		
	Heating	100	110
Power Supply	Indoor		
	Outdoor		
	Heating	215	215
Power Supply To	Indoor		
	Outdoor		
	Heating	4300	4850
Running Current (A)	Indoor		
	Outdoor		
	Heating	9300	10700
Static Pressure Range (Standard)	Indoor		
	Outdoor		
	Heating	400 / 3 / 50	400 / 3 / 50
Starting Current	Indoor		
	Outdoor		
	Heating	Outdoor	Outdoor
Suggested MCB/Fuse	Indoor		
	Outdoor		
	Heating	9.60	11.90
Interconnecting Cable	Indoor		
	Outdoor		
	Heating	9.60	12.50
Remote Control Type	Indoor		
	Outdoor		
	Heating	50 to 250 (72)	50 to 250 (72)
Sound Pressure (dB(A) Cooling)	Indoor		
	Outdoor		
	Heating	9.60	12.50
Sound Power (dB(A) Cooling)	Indoor		
	Outdoor		
	Heating	25	30
Max Pipe Length	Indoor		
	Outdoor		
	Heating	3 + E	3 + E
Max Height Difference	Indoor		
	Outdoor		
	Heating	Wired	Wired
Refrigerant Charge	Indoor		
	Outdoor		
	Heating	- / 41 / 44 / 47	- / 43 / 46 / 49
Additional Refrigerant Charge	Indoor		
	Outdoor		
	Heating	57	58
Pipe Size (inches)	Indoor		
	Outdoor		
	Heating	-	-
Operating Range (OC)	Indoor		
	Outdoor		
	Heating	-	-
Refrigerant	Indoor		
	Outdoor		
	Heating	75	75
System List Price	Indoor		
	Outdoor		
	Heating	30	30
	Indoor		
	Outdoor		
	Heating	20	20
	Indoor		
	Outdoor		
	Heating	110	110
	Indoor		
	Outdoor		
	Heating	7/8	7/8
	Indoor		
	Outdoor		
	Heating	1/2	1/2
	Indoor		
	Outdoor		
	Heating	-5 ~ 46	-5 ~ 46
	Indoor		
	Outdoor		
	Heating	-15 ~ 24	-15 ~ 24
	Indoor		
	Outdoor		
	Heating	R410A	R410A
	Indoor		
	Outdoor		
	Heating	5103	5614

Optional parts

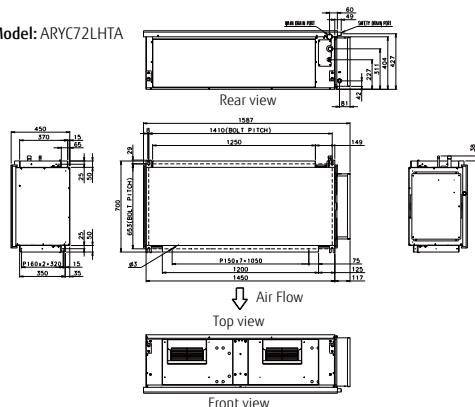
Wired Remote Controller:	UTYRVNYM	£100
Simple Remote Controller:	UTYRSNYM	£80
Remote Sensor Unit:	UTYXSZX	£54
External Connect Kit - Indoor	UTDECS5A	£13
External Connect Kit - Outdoor	UTYXWZXZ2	£18
Modbus Interface	FJRCMB51	£225
KNX Interface	FJRCKNX1i	£255
WiFi Interface	FJRCWIFI1	£225

* UK Cooling: indoor temperature 23°CDB / 16°CWB and outdoor temperature 30°C

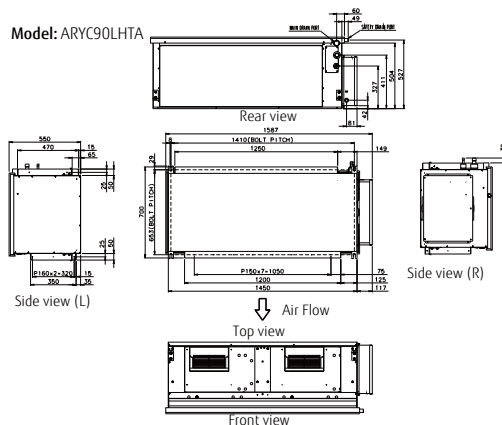
Dimensions

(Unit : mm)

Model: ARYC72LHTA



Model: ARYC90LHTA



MULTI SPLIT



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

If you want to keep a large floor as well as many rooms comfortable, we recommend you use Multi Split to build a simple system using one outdoor unit. Choose from a large lineup of indoor units that best matches your rooms. You can mix and match them at will. Build the system that is just right for you.

Multi Split provides comfort in
a variety of situations

from home to
office and store.

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Connectable Indoor unit line-up

Outdoor Unit	Type		2 Rooms		3 Rooms		4 Rooms
	Model name		AOYG14LAC2	AOYG18LAC2	AOYG18LAT3	AOYG24LAT3	AOYG30LAT4
							
	Capacity (kW)	Heating Cooling	4.0 4.4	5.0 5.6	5.4 6.8	6.8 8.0	8.0 9.6

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

Indoor unit features

	Economy	Powerful	HEAT	Auto Changeover	Up/Down	Double	Adjust	Restart	Duct	Intake	Sleep	Program	Weekly	+Setback	Filter	10 N	AF	Washable
ASYG07/09/12/14LM	●	●	●	●	●		●	●			●	●		○	●	●	●	●
ASYG07/09/12/14LU	●		●	●	●		●	●			●	●	●	○	●	●	●	●
ASYG18/24LF	●		●	●		●	●	●			●	●		○	●	●	●	
AGYG09/12/14LV	●		●	●	●		●	●			●	●		○	●	●	●	●
AUYG07/09/12/14/18LV	●		●	●	●		●	●	○	○	●	●		○	●			
ABYG14/18LV	●		●	●		●	●	●		○	●	●		○	●			
ARYG07/09/12/14/18LL	●		○	●	○		●	●		○	○	○		●	●			

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

○: Optional function

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

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

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

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

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

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

AOYG30LAT4: Total capacity of indoor units connected must be between 7.9 kW and 14.4 kW.

2 & 3-4 Rooms Multi



ALL
DC



2 Rooms

3 Rooms

4 Rooms

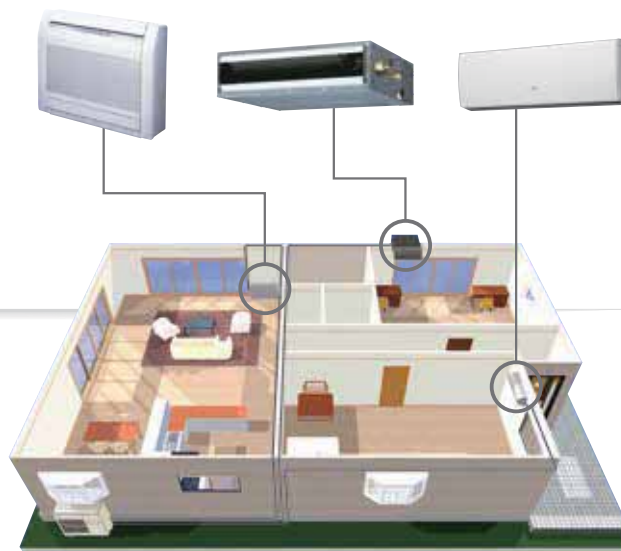
Features

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 realize the space-saving installation.



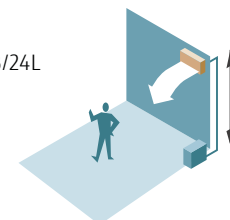
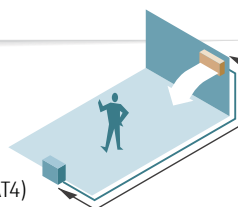
Flexible installation

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

Max. Piping Length (Each Unit):
20 m (AOYG14LAC2 / 18LAC2),
25 m (AOYG18LAT3 / 24LAT3 / 30LAT4)

Max. Height:
15 m (AOYG14LAC2/18LAC2/18LAT3/24LAT3/30LAT4)

Total Piping Length:
30 m (AOYG14LAC2 / 18LAC2),
50 m (AOYG18LAT3 / 24LAT3),
70 m (AOYG30LAT4)



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

Specifications

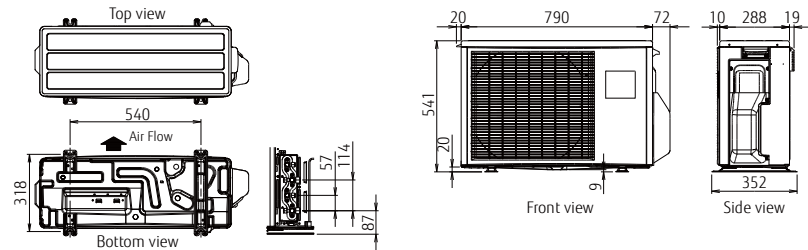
		Multi Outdoors (2, 3 and 4-Way)				
		AOYG14LAC2	AOYG18LAC2	AOYG18LAT3	AOYG24LAT3	AOYG30LAT4
Nominal Capacity (kW)	Cooling	4.00 (1.40-4.40)	5.00 (1.70-5.60)	5.40 (1.80-6.80)	6.80 (1.80-8.50)	8.00 (3.50-10.10)
	Heating	4.40 (1.10-5.40)	5.60 (1.80-6.10)	6.80 (2.00-8.00)	8.00 (2.00-8.80)	9.60 (3.70-12.00)
Power Consumption (kW)	Cooling	1.09	1.56	1.35	1.94	2.22
	Heating	1.03	1.41	1.62	2.00	2.40
EER / COP (Nominal Conditions)		3.67 / 4.27	3.21 / 3.97	4.00 / 4.20	3.51 / 4.00	3.60 / 4.00
Pdesign (kW) @ -10°C	Cooling	4.00	5.00	5.40	6.80	8.00
	Heating	3.80	4.20	5.00	5.20	6.20
SEER	Cooling	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 (kWh/a)	Cooling	209	265	274	372	451
	Heating	1296	1434	1627	1730	2169
Dimensions (HxWxD) mm	Outer	540x790x290	540x790x290	700x900x330	700x900x330	830x900x330
Net Weight (kg)	Outer	37	38	55	55	68
	Inner	1850	2050	3050	3300	3500
Room Air Circulation (high) m ³ /h	Outer	1850	2050	2750	3300	3300
	Inner	1850	2050	2750	3300	3300
Power Supply	V-PH-Hz	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
Power Supply To		Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
Running Current (A)	Cooling	5.12	6.90	5.90	8.50	9.70
	Heating	4.91	6.30	7.10	8.80	10.50
Starting Current	A	4.90	6.30	7.10	8.80	10.50
Suggested MCB/Fuse	A	16	16	16	16	20
Interconnecting Cable		3 + E	3 + E	3 + E	3 + E	3 + E
Sound Pressure (dB(A) Cooling)	Cooling	47	50	46	48	50
	Heating	49	51	47	49	51
Sound Power (dB(A) Cooling)	Cooling	61	63	65	68	68
	Heating	63	64	67	70	70
Max Pipe Length	m	30	30	50	50	70
Max Height Difference	m	15	15	15	15	15
Refrigerant Charge	m	20	20	30	30	50
Additional Refrigerant Charge	g/m	10	20	20	20	25
Pipe Size (inches)	Gas	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 (6.35mm) x4
Operating Range (OC)	Cooling	10 ~ 46	10 ~ 46	-10 ~ 46	-10 ~ 46	0 ~ 46
	Heating	-15 ~ 24	-15 ~ 24	-15 ~ 24	-15 ~ 24	-10 ~ 24
Refrigerant		R410A	R410A	R410A	R410A	R410A
List Price	£	904	1092	1233	1406	1919

* Connect to connection valve by the adapter.

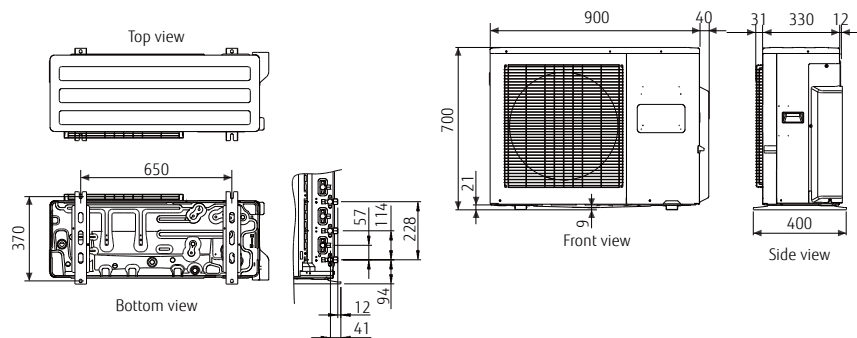
Dimensions

(Unit : mm)

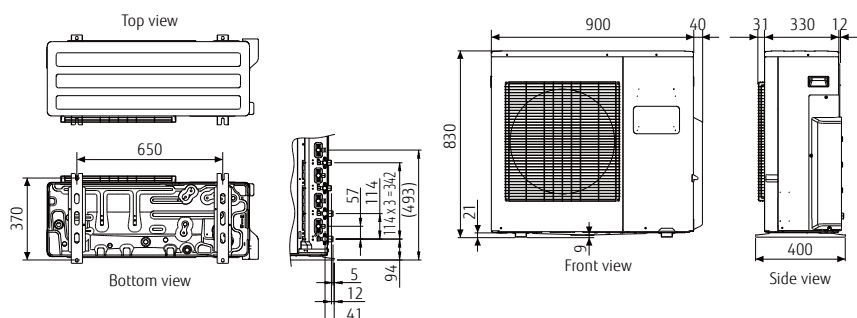
2 Rooms: AOYG14LAC2/AOYG18LAC2



3 Rooms: AOYG18LAT3/AOYG24LAT3



4 Rooms: AOYG30LAT4



Specifications of All Indoor Units

Compact wall mounted



Model No.	Indoor unit			ASYG07LUCA	ASYG09LUCA	ASYG12LUCA	ASYG14LUCA
kW Class		kW		2.0	2.5	3.5	4.0
Power Source				Single-phase, ~230V, 50Hz			
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	35/30/28/21	36/32/28/21	37/34/31/21	41/36/33/25
	Heating			35/30/28/21	36/32/28/21	37/34/31/21	41/36/34/27
Sound Power Level	Cooling	H	dB(A)	53	54	55	59
	Heating			53	54	55	59
Airflow Rate	Cooling	H/M/L/Q	m³/h	570/520/470/330	600/550/470/330	660/600/530/330	710/640/570/390
	Heating			570/520/470/330	600/550/470/330	660/600/530/330	710/640/590/430
Net Dimensions			mm	282×870×185	282×870×185	282×870×185	282×870×185
Weight			kg(lbs)	9.5 (21)	9.5 (21)	9.5 (21)	9.5 (21)
Connection Pipe Diameter		Liquid/Gas	Inches	1/4 / 3/8	1/4 / 3/8	1/4 / 3/8	1/4 / 1/2
List Price	£			377	403	468	539

Wall mounted



Model No.	Indoor unit			ASYG07LMCA	ASYG09LMCA	ASYG12LMCA	ASYG14LMCA	ASYG18LFCA	ASYG24LFCC
kW Class		kW		2.0	2.5	3.5	4.0	5.0	7.0
Power Source				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	43/37/33/26	49/42/37/33
	Heating			36/32/29/22	37/33/29/22	40/36/31/22	42/38/35/27	42/37/33/25	48/42/37/33
Sound Power Level	Cooling	H	dB(A)	51	52	54	56	58	64
	Heating			51	52	55	57	58	64
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	900/740/620/550	1120/900/740/620
	Heating			560/500/430/330	600/520/430/330	660/560/470/330	730/615/560/375	900/740/620/550	1100/900/740/620
Net Dimensions			mm	268×840×203	268×840×203	268×840×203	268×840×203	320×998×238	320×998×238
Weight			kg(lbs)	8.5 (19)	8.5 (19)	8.5 (19)	8.5 (19)	14 (30.8)	14 (30.8)
Connection Pipe Diameter		Liquid/Gas	Inches	1/4 / 3/8	1/4 / 3/8	1/4 / 3/8	1/4 / 3/8	1/4 / 1/2	1/4 / 5/8
List Price	£			268	284	321	370	399	642

Floor



Model No.	Indoor unit			AGYG09LVCA	AGYG12LVCA	AGYG14LVCA
kW Class		kW		2.5	3.5	4.0
Power Source				Single-phase, ~230V, 50Hz		
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	39/34/28/22	42/36/30/22	44/38/31/22
	Heating			39/35/30/22	42/38/32/22	44/39/33/22
Sound Power Level	Cooling	H	dB(A)	52	55	56
	Heating			52	55	56
Airflow Rate	Cooling	H/M/L/Q	m³/h	530/440/360/270	600/490/380/270	650/520/400/270
	Heating			530/460/380/270	600/510/410/270	650/540/430/270
Net Dimensions			mm	600×740×200	600×740×200	600×740×200
Weight			kg(lbs)	14 (30.7)	14 (30.7)	14 (30.7)
Connection Pipe Diameter		Liquid/Gas	Inches	1/4 / 3/8	1/4 / 3/8	1/4 / 1/2
List Price	£			506	557	640



Floor ceiling



Model No.	Indoor unit			ABYG14LVTB	ABYG18LVTB
kW Class		kW		4.0	5.0
Power Source				Single-phase, ~230V, 50Hz	
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	36/34/33/29 (Under ceiling) 39/37/36/32 (Floor console)	41/38/34/32 (Under ceiling) 44/41/37/35 (Floor console)
	Heating			36/34/33/29 (Under ceiling) 39/37/36/32 (Floor console)	41/38/34/32 (Under ceiling) 44/41/37/35 (Floor console)
Sound Power Level	Cooling	H	dB(A)	51	55
	Heating			51	55
Airflow Rate	Cooling	H/M/L/Q	m³/h	640/590/540/480	780/700/560/500
	Heating			640/590/540/480	780/700/560/500
Net Dimensions			mm	199×990×655	199×990×655
Weight			kg(lbs)	27 (60)	27 (60)
Connection Pipe Diameter		Liquid/Gas	Inches	1/4 / 1/2	1/4 / 1/2
List Price	£			401	661

Compact cassette



Model No.	Indoor unit			AUYG07LVLA	AUYG09LVLA	AUYG12LVLB	AUYG14LVLB	AUYG18LVLB
kW Class		kW		2.0	2.5	3.5	4.0	5.0
Power Source				Single-phase, ~230V, 50Hz				
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	33/31/29/27	33/31/29/27	37/33/31/28	40/35/32/29	42/37/33/29
	Heating			34/32/29/27	34/32/29/27	37/33/31/28	40/37/34/29	44/40/37/30
Sound Power Level	Cooling	H	dB(A)	46	46	49	52	54
	Heating			47	47	49	52	56
Airflow Rate	Cooling	H/M/L/Q	m³/h	540/490/440/390	540/490/440/390	610/530/470/410	680/580/490/410	750/610/520/410
	Heating			540/490/440/390	540/490/440/390	610/530/470/410	700/620/550/430	800/710/600/450
Net Dimensions			mm	245×570×570	245×570×570	245×570×570	245×570×570	245×570×570
Weight			kg(lbs)	15 (33.1)	15 (33.1)	15 (33.1)	15 (33.1)	15 (33.1)
Panel				UTG-UFYD-W				
Connection Pipe Diameter		Liquid/Gas	Inches	1/2 / 3/8	1/4 / 3/8	1/4 / 3/8	1/4 / 1/2	1/4 / 1/2
List Price	£			493	498	510	720	799

*Price includes grille, to be ordered separately.

Slim duct



Model No.	Indoor unit			ARYG07LLTA	ARYG09LLTA	ARYG12LLTB	ARYG14LLTB	ARYG18LLTB
kW Class		kW		2.0	2.5	3.5	4.0	5.0
Power Source				Single-phase, ~230V, 50Hz				
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	28/26/25/24	28/27/26/25	29/28/27/26	32/30/28/26	32/31/30/29
	Heating			28/26/25/24	28/26/25/24	29/28/27/24	33/30/28/25	33/32/31/29
Sound Power Level	Cooling	H	dB(A)	57	57	58	60	58
	Heating			57	57	58	61	59
Airflow Rate	Cooling	H/M/L/Q	m³/h	550/490/470/440	600/550/500/450	650/600/550/480	800/700/600/480	940/880/820/750
	Heating			550/490/470/440	600/550/500/450	650/600/550/480	800/700/600/480	940/880/820/750
Net Dimensions			mm	198×700×620	198×700×620	198×700×620	198×700×620	198×900×620
Weight			kg(lbs)	17 (37.5)	19 (41.8)	19 (41.8)	19 (41.8)	23 (50.6)
Connection Pipe Diameter		Liquid/Gas	Inches	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	£			489	495	543	620	744

Multi Combination Table

2 Rooms Multi cooling

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

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected a indoor unit is up to 21000Btu from 14000Btu.

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

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h models
•The above is the value for connecting with Wall Mounted type.
•2 or more indoor units should be connected.
•Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature).
•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
•The Total ability of connected a indoor unit is up to 24000Btu from 14000Btu.
•Where "14" means "wall mounted type" only models. Other types of indoor units can not be connected.

3 Rooms Multi cooling

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

AOYG24LAT3	Combination of Indoor Unit			COOLING OPERATION								
				Cooling Capacity				Input Power (min-max)	EER	Seasonal Data		
				Room 1	Room 2	Room 3	Total Capacity (min-max)			Pdesign	SEER	Energy efficiency class
			kW	kW	kW	kW	kW		kW			
2 Room	7	7	-	2.30	2.30	-	4.60 (1.8 - 5.0)	1.20 (0.50 - 1.40)	3.83	4.6	6.3	A++
	7	9	-	2.30	2.70	-	5.00 (1.8 - 5.7)	1.36 (0.50 - 1.78)	3.68	5.0	6.2	A++
	7	12	-	2.38	3.42	-	5.80 (1.8 - 6.1)	1.70 (0.50 - 1.97)	3.41	5.8	6.1	A++
	7	14	-	2.37	4.13	-	6.50 (1.8 - 7.2)	1.91 (0.50 - 2.46)	3.40	6.5	6.0	A+
	7	18	-	2.08	4.52	-	6.60 (1.8 - 7.8)	1.91 (0.50 - 2.87)	3.46	6.6	5.9	A+
	9	9	-	2.75	2.75	-	5.50 (1.8 - 6.2)	1.55 (0.50 - 2.02)	3.55	5.5	6.1	A++
	9	12	-	2.79	3.41	-	6.20 (1.8 - 6.8)	1.90 (0.50 - 2.45)	3.26	6.2	5.9	A+
	9	14	-	2.66	3.94	-	6.60 (1.8 - 7.7)	1.91 (0.50 - 2.77)	3.46	6.6	6.0	A+
	9	18	-	2.35	4.35	-	6.70 (1.8 - 7.9)	1.91 (0.50 - 2.87)	3.51	6.7	5.9	A+
	12	12	-	3.15	3.15	-	6.30 (1.8 - 7.2)	1.90 (0.50 - 2.74)	3.32	6.3	5.9	A+
	12	14	-	3.03	3.67	-	6.70 (1.8 - 7.8)	1.91 (0.50 - 2.87)	3.51	6.7	5.9	A+
	12	18	-	2.66	4.04	-	6.70 (1.8 - 7.9)	1.92 (0.50 - 2.87)	3.49	6.7	5.8	A+
	7	7	7	2.23	2.23	2.23	6.70 (1.8 - 7.4)	1.89 (0.50 - 2.37)	3.54	6.7	6.4	A++
	7	7	9	2.14	2.14	2.52	6.80 (1.8 - 7.8)	1.94 (0.60 - 2.87)	3.51	6.8	6.4	A++
	7	7	12	1.98	1.98	2.84	6.80 (1.8 - 8.1)	1.93 (0.50 - 2.87)	3.52	6.8	6.3	A++
3 Room	7	7	14	1.82	1.82	3.16	6.80 (2.0 - 8.4)	1.94 (0.60 - 2.87)	3.51	6.8	6.2	A++
	7	7	18	1.63	1.63	3.54	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.1	A++
	7	9	9	2.03	2.38	2.38	6.80 (1.8 - 8.2)	1.93 (0.50 - 2.87)	3.52	6.8	6.4	A++
	7	9	12	1.88	2.21	2.70	6.80 (1.8 - 8.2)	1.93 (0.50 - 2.87)	3.52	6.8	6.2	A++
	7	9	14	1.74	2.04	3.02	6.80 (2.0 - 8.4)	1.94 (0.60 - 2.87)	3.51	6.8	6.2	A++
	7	9	18	1.56	1.84	3.40	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.1	A++
	7	12	12	1.76	2.52	2.52	6.80 (1.8 - 8.2)	1.94 (0.50 - 2.87)	3.51	6.8	6.2	A++
	7	12	14	1.63	2.34	2.83	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.2	A++
	9	9	9	2.27	2.27	2.27	6.80 (1.8 - 8.2)	1.94 (0.50 - 2.87)	3.51	6.8	6.4	A++
	9	9	12	2.11	2.11	2.58	6.80 (1.8 - 8.3)	1.94 (0.50 - 2.87)	3.51	6.8	6.2	A++
	9	9	14	1.95	1.95	2.89	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.2	A++
	9	9	18*	1.77	1.77	3.27	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.1	A++
	9	12	12	1.97	2.41	2.41	6.80 (1.8 - 8.3)	1.94 (0.50 - 2.87)	3.51	6.8	6.2	A++
	9	12	14	1.84	2.24	2.72	6.80 (2.0 - 8.5)	1.94 (0.60 - 2.87)	3.51	6.8	6.2	A++
	12	12	12	2.27	2.27	2.27	6.80 (1.8 - 8.3)	1.94 (0.50 - 2.87)	3.51	6.8	6.1	A++

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



2 Rooms Multi heating

AOYG14LAC2	Combination of Indoor Unit		HEATING OPERATION							
			Heating Capacity			Input Power (min-max)	EER	Seasonal Data		
			Room 1	Room 2	Total Capacity (min-max)			Pdesign	SEER	Energy efficiency class
2 Room	7	7	kW	kW	kW	kW				
	7	7	2.20	2.20	4.40 (1.1 - 5.4)	1.03 (0.25 - 1.78)	4.27	3.8	4.1	A+
	7	9	2.15	2.25	4.40 (1.1 - 5.4)	1.03 (0.25 - 1.78)	4.27	3.8	4.1	A+
	7	12	1.95	2.45	4.40 (1.1 - 5.5)	1.02 (0.25 - 1.76)	4.31	3.8	4.0	A+
	9	9	2.20	2.20	4.40 (1.1 - 5.4)	1.03 (0.25 - 1.78)	4.27	3.8	4.0	A+
	9	12	2.00	2.40	4.40 (1.1 - 5.5)	1.02 (0.25 - 1.76)	4.31	3.8	4.0	A+

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h models
 •The above is the value for connecting with Wall Mounted type.
 •2 or more indoor units should be connected.
 •Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
 •Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
 •The Total ability of connected a indoor unit is up to 21000Btu from 14000Btu.

AOYG18LAC2	Combination of Indoor Unit		HEATING OPERATION							
			Heating Capacity			Input Power (min-max)	EER	Seasonal Data		
			Room 1	Room 2	Total Capacity (min-max)			Pdesign	SEER	Energy efficiency class
2 Room	7	7	kW	kW	kW	kW		kW		
	7	7	2.70	2.70	5.40 (1.8 - 6.0)	1.24 (0.50 - 1.61)	4.37	3.8	4.1	A+
	7	9	2.50	3.00	5.50 (1.8 - 6.0)	1.36 (0.50 - 1.87)	4.04	4.0	4.1	A+
	7	12	2.30	3.30	5.60 (1.8 - 6.1)	1.38 (0.50 - 1.88)	4.06	4.2	4.0	A+
	7	14	2.25	3.35	5.60 (1.9 - 6.2)	1.35 (0.55 - 1.86)	4.15	4.2	4.0	A+
	9	9	2.80	2.80	5.60 (1.8 - 6.1)	1.41 (0.50 - 1.90)	3.97	4.2	4.1	A+
	9	12	2.45	3.15	5.60 (1.8 - 6.2)	1.38 (0.50 - 1.88)	4.07	4.2	4.0	A+
	9	14	2.35	3.25	5.60 (1.9 - 6.3)	1.35 (0.55 - 1.86)	4.15	4.2	4.0	A+
	12	12	2.80	2.80	5.60 (1.8 - 6.3)	1.34 (0.50 - 1.84)	4.18	4.2	4.0	A+

Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h models
 •The above is the value for connecting with Wall Mounted type.
 •2 or more indoor units should be connected.
 •Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).
 •Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)
 •The Total ability of connected a indoor unit is up to 24000Btu from 14000Btu.
 •Where "14" means "wall mounted type" only models. Other types of indoor units can not be connected.

3 Rooms Multi heating

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

AOYG24LAT3	Combination of Indoor Unit			HEATING OPERATION								
				Heating Capacity				Input Power (min-max)	EER	Seasonal Data		
				Room 1	Room 2	Room 3	Total Capacity (min-max)			Pdesign	SEER	Energy efficiency class
				kW	kW	kW	kW	kW				
2 Room	7	7	-	2.75	2.75	-	5.50 (2.0 - 6.1)	1.55 (0.52 - 1.93)	3.55	4.0	4.1	A+
	7	9	-	2.80	3.30	-	6.10 (2.0 - 7.0)	1.82 (0.52 - 2.52)	3.35	4.0	4.1	A+
	7	12	-	2.88	4.12	-	7.00 (2.0 - 7.3)	2.31 (0.52 - 2.66)	3.03	4.0	4.1	A+
	7	14	-	2.80	4.80	-	7.60 (2.0 - 8.3)	2.28 (0.50 - 2.87)	3.33	4.0	4.1	A+
	7	18	-	2.51	5.39	-	7.90 (2.0 - 8.3)	2.34 (0.50 - 2.87)	3.38	4.0	4.1	A+
	9	9	-	3.30	3.30	-	6.60 (2.0 - 7.4)	2.04 (0.52 - 2.68)	3.24	4.0	4.1	A+
	9	12	-	3.30	4.00	-	7.30 (2.0 - 7.7)	2.43 (0.52 - 2.87)	3.00	4.0	4.1	A+
	9	14	-	3.22	4.68	-	7.90 (2.0 - 8.3)	2.38 (0.50 - 2.87)	3.32	4.0	4.1	A+
	9	18	-	2.84	5.16	-	8.00 (2.0 - 8.5)	2.32 (0.50 - 2.87)	3.45	4.0	4.1	A+
	12	12	-	3.80	3.80	-	7.60 (2.0 - 7.8)	2.54 (0.52 - 2.87)	2.99	4.0	4.1	A+
	12	14	-	3.59	4.31	-	7.90 (2.0 - 8.4)	2.37 (0.50 - 2.87)	3.33	4.0	4.1	A+
	12	18	-	3.20	4.80	-	8.00 (2.0 - 8.6)	2.31 (0.50 - 2.87)	3.46	4.0	4.1	A+
3 Room	7	7	7	2.60	2.60	2.60	7.80 (2.0 - 8.6)	1.94 (0.50 - 2.68)	4.02	5.0	4.3	A+
	7	7	9	2.52	2.52	2.96	8.00 (2.0 - 8.8)	2.00 (0.50 - 2.87)	4.00	5.2	4.2	A+
	7	7	12	2.34	2.34	3.32	8.00 (2.0 - 8.9)	1.99 (0.50 - 2.80)	4.02	5.2	4.2	A+
	7	7	14	2.16	2.16	3.68	8.00 (2.0 - 9.2)	1.91 (0.50 - 2.72)	4.19	5.2	4.2	A+
	7	7	18	1.94	1.94	4.12	8.00 (2.0 - 9.2)	1.89 (0.50 - 2.70)	4.23	5.2	4.2	A+
	7	9	9	2.38	2.81	2.81	8.00 (2.0 - 9.0)	1.99 (0.50 - 2.87)	4.02	5.2	4.2	A+
	7	9	12	2.23	2.62	3.15	8.00 (2.0 - 9.1)	1.98 (0.50 - 2.87)	4.04	5.2	4.2	A+
	7	9	14	2.06	2.42	3.52	8.00 (2.0 - 9.2)	1.91 (0.50 - 2.72)	4.19	5.2	4.2	A+
	7	9	18	1.85	2.18	3.97	8.00 (2.0 - 9.2)	1.89 (0.50 - 2.69)	4.23	5.2	4.2	A+
	7	12	12	2.08	2.96	2.96	8.00 (2.0 - 9.1)	1.97 (0.50 - 2.87)	4.06	5.2	4.2	A+
	7	12	14	1.93	2.76	3.31	8.00 (2.0 - 9.2)	1.90 (0.50 - 2.70)	4.21	5.2	4.2	A+
	9	9	9	2.67	2.67	2.67	8.00 (2.0 - 9.1)	1.98 (0.50 - 2.87)	4.04	5.2	4.2	A+
	9	9	12	2.49	2.49	3.02	8.00 (2.0 - 9.2)	1.97 (0.50 - 2.87)	4.06	5.2	4.2	A+
	9	9	14	2.32	2.32	3.37	8.00 (2.0 - 9.2)	1.89 (0.50 - 2.70)	4.23	5.2	4.2	A+
	9	9	18 ⁺	2.10	2.10	3.81	8.00 (2.0 - 9.2)	1.87 (0.50 - 2.68)	4.28	5.2	4.2	A+
	9	12	12	2.34	2.83	2.83	8.00 (2.0 - 9.2)	1.96 (0.50 - 2.80)	4.08	5.2	4.2	A+
	9	12	14	2.18	2.64	3.17	8.00 (2.0 - 9.2)	1.89 (0.50 - 2.69)	4.23	5.2	4.2	A+
	12	12	12	2.67	2.67	2.67	8.00 (2.0 - 9.2)	1.95 (0.50 - 2.78)	4.10	5.2	4.2	A+

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

4 Rooms Multi cooling

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

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

•The above is the value for connecting with Wall Mounted type.

•3 or more indoor units should be connected.

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

•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)

•The Total ability of connected a indoor unit is up to 49000Btu from 27000Btu.

*1: Connection of ASYG18L + ARYG09L + ARYG09L is not available. All types other than this combination can be connected.

*2: Connection of ASYG18L + ARYG12L + ARYG09L + ARYG09L is not available. All types other than this combination can be connected.



4 Rooms Multi heating

AOYG30LAT4	Combination of Indoor Unit				HEATING OPERATION								Seasonal Data		
					Heating Capacity				Input Power (min-max)		EER				
					Room 1	Room 2	Room 3	Room 4	Total Capacity (min-max)	kW		Pdesign	SEER	Energy efficiency class	
					kW	kW	kW	kW	kW	kW		kW			
3 Room	7	7	14	-	2.42	2.42	4.15	-	9.00 (1.8 - 10.1)	2.66 (0.58 - 3.53)	3.38	5.8	3.8	A	
	7	7	18	-	2.27	2.27	4.86	-	9.40 (3.3 - 11.2)	2.46 (0.87 - 3.52)	3.82	5.8	3.8	A	
	7	7	24	-	2.03	2.03	5.44	-	9.50 (3.3 - 11.5)	2.47 (0.87 - 3.52)	3.85	5.8	3.8	A	
	7	9	12	-	2.49	2.94	3.56	-	9.00 (1.8 - 10.0)	2.69 (0.58 - 3.51)	3.35	5.8	3.8	A	
	7	9	14	-	2.33	2.75	4.00	-	9.10 (3.3 - 10.2)	2.64 (0.87 - 3.50)	3.45	5.8	3.8	A	
	7	9	18	-	2.17	2.56	4.66	-	9.40 (3.3 - 11.3)	2.45 (0.87 - 3.50)	3.84	5.8	3.8	A	
	7	9	24	-	1.98	2.33	5.29	-	9.60 (3.3 - 11.5)	2.46 (0.87 - 3.51)	3.90	5.8	3.8	A	
	7	12	12	-	2.33	3.33	3.33	-	9.00 (1.8 - 10.1)	2.66 (0.58 - 3.48)	3.38	5.8	3.8	A	
	7	12	14	-	2.22	3.17	3.80	-	9.20 (3.3 - 10.3)	2.62 (0.87 - 3.48)	3.51	5.8	3.8	A	
	7	12	18	-	2.08	2.97	4.45	-	9.50 (3.3 - 11.4)	2.44 (0.87 - 3.47)	3.89	5.8	3.8	A	
	7	12	24	-	1.88	2.69	5.03	-	9.60 (3.3 - 11.7)	2.45 (0.87 - 3.56)	3.92	5.8	3.8	A	
	7	14	14	-	2.10	3.60	3.60	-	9.30 (3.3 - 10.6)	2.59 (0.87 - 3.48)	3.59	5.8	3.8	A	
	7	14	18	-	1.96	3.35	4.19	-	9.50 (3.7 - 11.5)	2.42 (0.97 - 3.52)	3.93	5.8	3.8	A	
	7	14	24	-	1.78	3.05	4.77	-	9.60 (3.3 - 11.7)	2.45 (0.87 - 3.56)	3.93	5.8	3.8	A	
	7	18	18	-	1.82	3.89	3.89	-	9.60 (3.7 - 12.0)	2.40 (0.97 - 3.52)	4.00	5.8	3.8	A	
	7	18	24	-	1.65	3.53	4.42	-	9.60 (4.3 - 12.0)	2.40 (1.12 - 3.52)	4.00	5.8	3.8	A	
	9	9	9	-	3.00	3.00	3.00	-	9.00 (3.3 - 10.0)	2.69 (0.87 - 3.51)	3.35	5.8	3.8	A	
	9	9	12	-	2.80	2.80	3.39	-	9.00 (3.3 - 10.1)	2.67 (0.87 - 3.48)	3.37	5.8	3.8	A	
	9	9	14	-	2.66	2.66	3.87	-	9.20 (3.3 - 10.3)	2.63 (0.87 - 3.48)	3.50	5.8	3.8	A	
	9	9	18	-	2.49	2.49	4.52	-	9.50 (3.7 - 11.4)	2.44 (0.97 - 3.48)	3.89	5.8	3.8	A	
	9	9	24	-	2.25	2.25	5.11	-	9.60 (3.7 - 11.7)	2.45 (0.97 - 3.57)	3.92	5.8	3.8	A	
	9	12	12	-	2.65	3.22	3.22	-	9.10 (3.3 - 10.3)	2.65 (0.87 - 3.52)	3.43	5.8	3.8	A	
	9	12	14	-	2.53	3.07	3.69	-	9.30 (3.3 - 10.5)	2.61 (0.87 - 3.52)	3.56	5.8	3.8	A	
	9	12	18	-	2.36	2.86	4.29	-	9.50 (3.7 - 11.4)	2.43 (0.97 - 3.47)	3.91	5.8	3.8	A	
	9	12	24	-	2.14	2.59	4.86	-	9.60 (3.7 - 11.8)	2.44 (0.97 - 3.55)	3.93	5.8	3.8	A	
	9	14	14	-	2.38	3.46	3.46	-	9.30 (3.7 - 10.7)	2.58 (0.97 - 3.46)	3.60	5.8	3.8	A	
	9	14	18	-	2.22	3.23	4.04	-	9.50 (3.7 - 11.6)	2.41 (0.97 - 3.51)	3.94	5.8	3.8	A	
	9	14	24	-	2.03	2.95	4.62	-	9.60 (4.3 - 11.9)	2.42 (1.12 - 3.57)	3.97	5.8	3.8	A	
	9	18	18	-	2.07	3.76	3.76	-	9.60 (4.3 - 12.0)	2.40 (1.12 - 3.52)	4.00	5.8	3.8	A	
	12	12	12	-	3.07	3.07	3.07	-	9.20 (3.3 - 10.3)	2.63 (0.87 - 3.49)	3.50	5.8	3.8	A	
	12	12	14	-	2.91	2.91	3.49	-	9.30 (3.3 - 10.6)	2.59 (0.87 - 3.49)	3.59	5.8	3.8	A	
	12	12	18	-	2.71	2.71	4.07	-	9.50 (3.7 - 11.6)	2.42 (0.97 - 3.52)	3.93	5.8	3.8	A	
	12	12	24	-	2.48	2.48	4.65	-	9.60 (3.7 - 11.8)	2.43 (0.97 - 3.54)	3.95	5.8	3.8	A	
	12	14	14	-	2.76	3.32	3.32	-	9.40 (3.7 - 10.8)	2.40 (0.97 - 3.50)	3.92	5.8	3.8	A	
	12	14	18	-	2.57	3.08	3.85	-	9.50 (3.7 - 11.6)	2.40 (0.97 - 3.49)	3.96	5.8	3.8	A	
	12	18	18	-	2.40	3.60	3.60	-	9.60 (4.3 - 12.0)	2.40 (1.12 - 3.52)	4.00	5.8	3.8	A	
4 Room	7	7	7	7	2.35	2.35	2.35	2.35	9.40 (1.8 - 10.8)	2.43 (0.58 - 3.47)	3.87	6.2	4.0	A+	
	7	7	7	9	2.27	2.27	2.27	2.68	9.50 (1.8 - 10.9)	2.42 (0.58 - 3.51)	3.88	6.2	4.0	A+	
	7	7	7	12	2.14	2.14	2.14	3.06	9.50 (1.8 - 11.1)	2.41 (0.58 - 3.55)	3.94	6.2	4.0	A+	
	7	7	7	14	2.04	2.04	2.04	3.49	9.60 (3.3 - 11.3)	2.38 (0.87 - 3.56)	4.03	6.2	4.0	A+	
	7	7	7	18	1.87	1.87	1.87	4.00	9.60 (3.3 - 12.0)	2.27 (0.87 - 3.56)	4.23	6.2	4.0	A+	
	7	7	9	9	2.18	2.18	2.57	2.57	9.50 (3.3 - 10.9)	2.41 (0.87 - 3.44)	3.94	6.2	4.0	A+	
	7	7	9	12	2.06	2.06	2.43	2.95	9.50 (3.3 - 11.1)	2.40 (0.87 - 3.54)	3.96	6.2	4.0	A+	
	7	7	9	14	1.96	1.96	2.31	3.36	9.60 (3.3 - 11.4)	2.38 (0.87 - 3.54)	4.03	6.2	4.0	A+	
	7	7	9	18	1.80	1.80	2.13	3.87	9.60 (3.7 - 12.0)	2.27 (0.97 - 3.55)	4.23	6.2	4.0	A+	
	7	7	12	12	1.98	1.98	2.82	2.82	9.60 (3.3 - 11.3)	2.39 (0.87 - 3.57)	4.02	6.2	4.0	A+	
	7	7	12	14	1.87	1.87	2.67	3.20	9.60 (3.3 - 11.5)	2.36 (0.87 - 3.58)	4.07	6.2	4.0	A+	
	7	7	12	18	1.72	1.72	2.46	3.69	9.60 (3.7 - 12.0)	2.27 (0.97 - 3.58)	4.23	6.2	4.0	A+	
	7	7	14	14	1.77	1.77	3.03	3.03	9.60 (3.7 - 11.8)	2.34 (0.97 - 3.58)	4.10	6.2	4.0	A+	
	7	7	14	18	1.64	1.64	2.81	3.51	9.60 (3.7 - 12.0)	2.27 (0.97 - 3.56)	4.23	6.2	4.0	A+	
	7	9	9	9	2.09	2.47	2.47	2.47	9.50 (3.3 - 11.2)	2.40 (0.87 - 3.54)	4.00	6.2	4.0	A+	
	7	9	9	12	2.01	2.36	2.36	2.87	9.60 (3.3 - 11.3)	2.39 (0.87 - 3.58)	4.02	6.2	4.0	A+	
	7	9	9	14	1.89	2.23	2.23	3.25	9.60 (3.7 - 11.5)	2.37 (0.97 - 3.58)	4.05	6.2	4.0	A+	
	7	9	9	18	1.75	2.06	2.06	3.74	9.60 (3.7 - 12.0)	2.27 (0.97 - 3.58)	4.23	6.2	4.0	A+	
	7	9	12	12	1.91	2.25	2.72	2.72	9.60 (3.3 - 11.4)	2.38 (0.87 - 3.58)	4.03	6.2	4.0	A+	
	7	9	12	14	1.80	2.13	2.58	3.09	9.60 (3.7 - 11.6)	2.35 (0.97 - 3.58)	4.09	6.2	4.0	A+	
	7	9	12	18	1.67	1.97	2.39	3.58	9.60 (3.7 - 12.0)	2.27 (0.97 - 3.58)	4.23	6.2	4.0	A+	
	7	9	14	14	1.71	2.02	2.94	2.94	9.60 (3.7 - 11.8)	2.33 (0.97 - 3.58)	4.12	6.2	4.0	A+	
	7	9	14	18	1.59	1.87	2.73	3.41	9.60 (4.3 - 12.0)	2.27 (1.12 - 3.58)	4.23	6.2	4.0	A+	
	7	12	12	12	1.81	2.59	2.59	2.59	9.60 (3.3 - 11.5)	2.37 (0.87 - 3.58)	4.05	6.2	4.0	A+	
	7	12	12	14	1.72	2.46	2.46	2.95	9.60 (3.7 - 11.7)	2.34 (0.97 - 3.58)	4.10	6.2	4.0	A+	
	7	12	12	18	1.60	2.29	2.29	3.43	9.60 (3.7 - 12.0)	2.27 (0.97 - 3.56)	4.23	6.2	4.0	A+	
	7	12	14	14	1.64	2.34	2.81	2.81	9.60 (3.7 - 11.9)	2.32 (0.97 - 3.58)	4.14	6.2	4.0	A+	
	9	9	9	9	2.40	2.40	2.40	2.40	9.60 (3.7 - 11.3)	2.40 (0.97 - 3.58)	4.00	6.2	4.0	A+	
	9	9	9	12	2.28	2.28	2.28	2.76	9.60 (3.7 - 11.4)	2.38 (0.97 - 3.58)	4.03	6.2	4.0	A+	
	9	9	9	14	2.16	2.16	2.16	3.14	9.60 (3.7 - 11.6)	2.36 (0.97 - 3.58)	4.07	6.2	4.0	A+	
	9	9	9	18*	1.99	1.99	1.99	3.62	9.60 (4.3 - 12.0)	2.27 (1.12 - 3.58)	4.23	6.2	4.0	A+	
	9	9	12	12	2.17	2.17	2.63	2.63	9.60 (3.7 - 11.5)	2.37 (0.97 - 3.58)	4.05	6.2	4.0	A+	
	9	9	12	14	2.06	2.06	2.49	2.99	9.60 (3.7 - 11.7)	2.35 (0.97 - 3.58)	4.09	6.2	4.0	A+	
	9	9	12	18*	1.91	1.91	2.31	3.47	9.60 (4.3 - 12.0)	2.27 (1.12 - 3.58)	4.23	6.2	4.0	A+	
	9	9	14	14	1.96	1.96	2.84	2.84	9.60 (4.3 - 11.9)	2.33 (1.12 - 3.58)	4.12	6.2	4.0	A+	
	9	12	12	12	2.07	2.51	2.51	2.51	9.60 (3.7 - 11.6)	2.36 (0.97 - 3.58)	4.07	6.2	4.0	A+	
9	12	12	14	1.97	2.39	2.39	2.87	9.60 (3.7 - 11.8)	2.34 (0.97 - 3.58)	4.10	6.2	4.0	A+		
9	12	14	14	1.87	2.27	2.73	2.73	9.60 (4.3 - 11.9)	2.31 (1.12 - 3.58)	4.16	6.2	4.0	A+		
12	12	12	12	2.40	2.40	2.40	2.40	9.60 (3.7 - 11.6)	2.35 (0.97 - 3.58)	4.09	6.2	4.0	A+		

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

•The above is the value for connecting with Wall Mounted type.

•3 or more indoor units should be connected.

•Heating capacity is based on 20°CDB (indoor temperature), 7°CDB/6°CWB (outdoor temperature).

•Pipe Length: 5 m, Height difference: 0 m (Outdoor unit to Indoor unit)

•The Total ability of connected a indoor unit is up to 49000Btu from 27000Btu.

*1: Connection of ASYG18L + ARYG0

Simultaneous Multi Twin / Triple

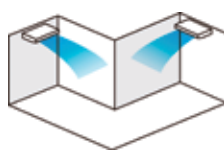


Features

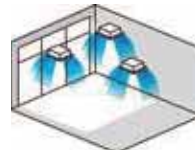
Can support various installation scenes from office to commercial space by same place multi connection of up to 3 units.

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

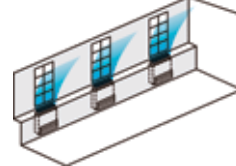
Installation according to floor layout



Installation according to lighting conditions

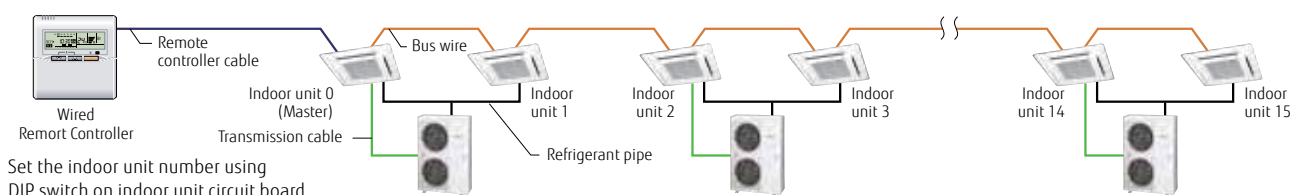


Installation according to layout and lighting conditions



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×2	AUYG24LV×2	AUYG18LV×3
Duct	ARYG18LL×2	ARYG24LM×2	ARYG18LL×3
Ceiling	ABYG18LV×2	ABYG24LV×2	ABYG18LV×3
Outdoor unit	AOYG36LBTB / AOYG36LATT	AOYG54LBTB / AOYG54LATT	

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



Specifications

Model No.				Indoor unit		Compact Cassette	
						AUYG18LVLB	
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(lbs)	15 (33)		16 (35)
Cassette Grille (To be ordered separately)						UTG-UFYD-W	
List Price		£		799		946	

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(lbs)	38 (84)		38 (84)		27 (60)		27 (60)		
Filter (To be ordered separately)						-		UTDLF2SNA		-		-	
List Price		£		744		921		661		791			

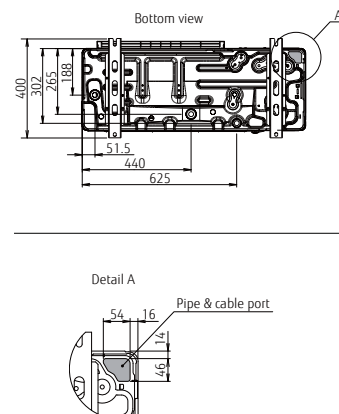
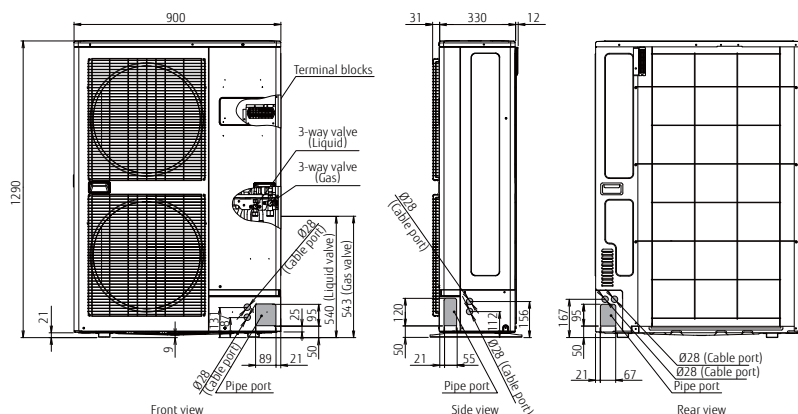
Model No.		Outdoor unit		AOYG36LBTB		AOYG54LBTB		AOYG36LATT		AOYG54LATT			
				Capacity		Capacity		Capacity		Capacity			
Capacity		Cooling		kW		10.0		13.3		10.0		14.0	
		Heating		kW		11.2		15.0		11.2		16.0	
Power Source						Single-phase, ~230V, 50Hz				3-phase, ~400V, 50Hz			
Pdesign		Cooling		kW		10.0		-		10.0		-	
		Heating (-10°C)		kW		10.0		-		10.0		-	
SEER		Cooling		W/W		5.56		-		6.00		-	
SCOP		Heating		W/W		3.90		-		4.00		-	
Annual Energy Consumption		Cooling		kWh/a		629		-		583		-	
		Heating		kWh/a		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		dB(A)		69		72		69		71	
Net Dimension H × W × D				mm		1290×900×330		1290×900×330		1290×900×330		1290×900×330	
Weight				kg(lbs)		93(205)		93(205)		104 (229)		104 (229)	
Connection Pipe Diameter (Liquid / Gas)				3/8 / 5/8		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		°CDB		-15 to 24		-15 to 24		-15 to 24		-15 to 24	
Refrigerant		Type (Global Warming Potential)		R410A (2,088)		R410A (2,088)		R410A (2,088)		R410A (2,088)		R410A (2,088)	
Charge		g		3,450		3,450		3,450		3,450		3,450	
List Price		£		1384		1806		1444		1866			
Separation tube						UTP-SX236A(Twin)		UTP-SX254A(Twin)/ UTP-SX354A(Triple)		UTP-SX236A (Twin)		UTP-SX254A (Twin) / UTP-SX354A (Triple)	
List Price		£		69		69 / 93		69		69 / 93			

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

Dimensions

(Unit : mm)

Outdoor Unit: AOYG36LBTB / AOYG36LATT / AOYG54LBTB / AOYG54LATT



Freeverter

UTY-FVI



Features

Freeverter : UTY-FVI

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

Selection Criteria

Type	Cooling kW (1)	EER	Heating kW (1)	COP	Heating @-10°C kW	Power Supply V/Ph	Pipe Run min - max (2)	Pipe Size	Max R410s gas charge (3)	Run Amps clg/htg (4)	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 kg	4,8/ 5,1	£636
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 kg	7,2/ 7,4	£754
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 kg	9,7/ 9,9	£965
AOYG30LE	8,5 (2,80-10,00)	3,21	10,0 (2,70-11,2)	3.73	8,33	230V/1Ph	3-20m	5/8, 3/8	3,30 kg	11,6/ 11,7	£1213
AOYG36LE	9,40 (2,80-11,20)	3,18	11,2 (2,70-12,70)	3.61	9,41	230V/1Ph	3-20m	5/8, 3/8	3,30 kg	13,0/ 13,6	£1441
AOYG45LE	12,50 (4,5-14,0)	2,91	14,0 (5,0-16,20)	3.68	12,03	230V/1Ph	3-30m	5/8, 3/8	4,55 kg	16,5/ 16,1	£1636
AOYG36LA	10,00 (4,70-11,40)	3,52	11,2 (5,0-14,00)	3.90	11,32	400V/3Ph	5-30m	5/8, 3/8	5,60 kg	4,3/ 4,4	£1444
AOYG45LA	12,50 (5,0-14,0)	3,08	14,0 (5,4-16,20)	3.81	12,93	400V/3Ph	5-30m	5/8, 3/8	5,60 kg	6,1/ 5,5	£1776
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 kg	6,9/ 6,5	£1866
AOYA72LA	20,3 (10,8-23,5)	3,25	22,6 (12,0-26,5)	3.60	19,4	400V/3Ph	5-50m	7/8, 1/2	17,25 kg	9,6/ 9,6	£3062
AOYA90LA	25,0 (11,2-28,0)	3,2	28,0 (12,5-31,5)	3.40	22,76	400V/3Ph	5-50m	7/8, 1/2	17,25 kg	11,9/ 12,5	£3367

(1) Cooling capacity at 27°C / 35° and heating at 20°C / 7°C

(2) The maximum refrigerent piping length between indoor and outdoor unit must not be exceeded.

(3) The maximum refrigerent charge includes outdoor unit, indoor unit and the pipework.

(4) At nominal conditions (1) above.

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.

Operating limits: • Cooling: -10° C ~ 46°C • Heating: -15 °C ~ 24°C

Stand Alone Control Options

Available from Local Controls or Heating Distributor



RLM 162 Supply / Return air duct sensor controller



RLA 162 Room Sensor Controller



QAC 22 Outdoor Air sensor

Outdoor Units



AOYG12-24LA



AOYG30-36LE



AOYG36-54LA



AOYA72-90LA

Type	Freeverter
Product Code	UTYFVI
Power Supply	230vAC 50Hz 1 phase
Power Consumption	4w
Current	0.015A
Inputs Cool / Heat	Dry contact 20mA
Inputs Cool/Heat	Impedance 10Kohm
0-10v DC	
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	1278

SINGLE PHASE OUTDOOR									
Split									
AOYG45-54LETL		5	5	5	5				
Multi									
AOYG36-45LBT8		5	5	5	5				
3 PHASE OUTDOOR									
Split									
AOYG36-60LATT		4	4	4	4				
AOYA72-90LALT		4	4	4	4				6
Multi									
AOYG36-54LATT		4	4	4	4				

- *A Part 9705932012 required
- *B UTY-XWNX Also required
- *C Cable included with UTZ-VXAA
- *D Cable included with UTZ VXGA

9705932012 for use with all AS and AG models when using Intesis range and Network converer BMS options

OPTIONAL PARTS FOR SPLIT & MULTI SPLIT

Optional parts list (Interface /Communication Kit/External Connect Kit)

Type			Indoor unit															Outdoor unit										
			Wall Mounted					Duct					Cassette					Floor		Ceiling/Floor		Ceiling	Single-phase		3-phase			
			Compact			Large		Slim		Medium static		High static			Compact			Large		ADYG 09/12/14 LVCA	ADYG 14/18/LVTB	ADYG 22/24/LVTA	ADYG 30/36/LRTE 36/45/54 LRTA	Single Split		Single Split		Simultaneous Multi
			ASYG 09/12/LCA	ASYG 07/09/12/14 LUCA	ASYG 07/09/12/14 LMCA	ASYG 18/30/LFCA 24/LFCC	ASYG 30/36/LMTA	ARYG 07/09/L1TA 12/14/L1TB	ARYG 18/24/36/L4S 30/45/54 L1TMLA	ARYG 12/18/24/ 30/45/54 L1HTBP	ARYG 45/54/LHTA	ARYG 60/LHTA	ARYG 72/90/LHTA	AUYG 07/09/12/ 14/18 LVLB	AUYG 22/24/LVLA	AUYG 30/36/LRLE 36/45/54 LRLA	AUYG 18/24/30/ 36/45/54 LRLB	ADYG 45/54/LETL	ADYG 45/L1TB					ADYG 36/45/54/60 LATT	ADYA 72/90/LALT	ADYG 36/45/54 LATT		
Interface	Wi-Fi Interface		●			●									●			●	UTY-TFNYZ1	UTY-TFNYZ1	UTY-TFNYZ1							
			●			●									●			●	FJ-RC-WIFI-1	FJ-RC-WIFI-1	FJ-RC-WIFI-1							
	KNX Interface		●			●									●			●	FJ-RC-KNX-1i	FJ-RC-KNX-1i	FJ-RC-KNX-1i							
	Modbus Convertor															●												
	MODBUS Interface		●			●									●			●	FJ-RC-MBS-1	FJ-RC-MBS-1	FJ-RC-MBS-1							
Communication Kit		●	UTY-TWBXF	●	UTY-XCBXZ2																							
																												
External input and output PCB					●				●								●											
External input and output PCB Box					●												●											
External input and output PCB Bracket									●																			
External Connect Kit									●								●											
	For Indoor Unit *Duct type is excluded.					●									●		●		●	UTY-XWZX	UTY-XWZX	UTY-XWZX						
	For Indoor Unit *Duct type is excluded.				●												£9											
	For Outdoor Unit																									●		UTY-XWZXZ2
	For Outdoor Unit																								●			UTY-XWZXZ3
External Control Set	For Outdoor Unit																								●			UTY-XWZXZ4
	For Outdoor Unit																								●			UTY-XWZXZ4
External Control Set		For Indoor Unit (Duct type only) Use to connect with various peripheral devices and air conditioner PC board.						●							●									●				

Communication Kit/External input and output PCB/Box/Bracket

Communication Kit UTY-TWBXF/UTY-XCBXZ2/UTY-TWRX For Compact Wall Mounted



£87 / 87 / 75

External input and output PCB UTY-XCSXZ1/UTY-XCSX **NEW**



£82 / 82

External input and output PCB Box UTZ-GXXB/UTY-GXRA **NEW**

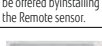
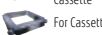


£27 / 51

External input and output PCB Bracket UTZ-GXNA **NEW**



£27

Type			Wall Mounted					Duct					Cassette				Floor	Ceiling/Floor		Ceiling	
			Compact		Large			Slim	Medium static	Medium static	High static		Compact		Large						
			ASVG 09/12/LCA	ASVG 07/09/12/14 LUCA	ASVG 07/09/12/14 LMCA	ASVG 18/30/LFCA 24/LFCC	ASVG 30/36/LMTA						ARVIG 07/09/LTA 12/14/LTB	ARVIG18/LTB 22/24/36/45/LMLA 30/36/LMLE	ARVIG 12/14/18/ 24/30/45/54 LHTBP	ARVIG 45/54/LHTA					ARVIG60/LHTA
Controllers	Wired Remote Controller						●					●					●				
							●					●					●				
			●		●	●	●					●		●	●	●			●		
Simple Remote Controller			●		●	●	●					●		●	●	●			●		
		●		●	●	●					●		●	●	●			●			
		●		●	●	●					●		●	●	●			●			
Others	IR Receiver Kit with Wireless Remote Controller	 For Duct For Cassette					●		●			●				●					
		 For Duct For Cassette									●						●				
	Human Sensor Kit																●				
	Remote Sensor Unit	 New amenity space can be offered by installing the Remote sensor.					●														
	Auto Louver Grille Kit						●	●													
	Long Life Filter								●	●	●										
	Flange								●	●	●										●
	Drain Pump Unit								●	●	●										●
	Fresh Air Intake Kit	 For Compact Cassette  For Cassette												●	●	●					



Linwood now offer an extensive range of plenum boxes to suit the Fujitsu General UK range of ducted air conditioning systems

Installing split system air conditioning 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 single ducted split air conditioning systems.

Easy to use online ordering & live order processing via
www.linwoodplenums.co.uk/fujitsu-plenums.html

Contact details:

Team Linwood,
Rear of Sound Leisure Ltd
Sandreas Way, Crossgates
Leeds, LS15 BAR

Email: sales@linwoodplenums.co.uk
Tel: 0113 868 0410 Mob: 07946 344474



OPTIONAL PARTS FOR SPLIT & MULTI SPLIT

Controllers (Check indoor units for compatibility)

For Individual & Centralized Control

Wired Remote Controller £155
UTY-RNRYZ1 **NEW**



Wired Remote Controller £100
UTY-RVNYM



Simple Remote Controller £80
UTY-RSNYM



Wi-Fi Interface **Future Release**
UTY-TFNYZ1 **NEW**



Communication devices

Interface

Wi-Fi Interface £225
FJ-RC-WIFI-1



MODBUS® Convertor £225
UTY-VMX **NEW**



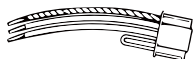
MODBUS® Interface £225
FJ-RC-MBS-1



KNX® Interface £255
FJ-RC-KNX-1i



BMS Connector £15
Wired Remote Connector
9705932012



For use with all AS and AG models when using Intesis range and Network converter BMS options.

Others

For Duct type

IR Receiver Kit £252
UTY-LRHYM



IR Receiver Kit £256
UTY-LBTYM **NEW**



Remote Sensor Unit £54
UTY-XSZX

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



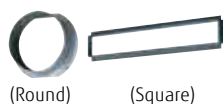
Auto Louver Grille Kit
UTD-GXSAW £130
UTD-GXSBW £145



Long Life Filter
UTD-LF25NA £91
UTD-LFNA/UTD-LFNB £59/59
UTD-LFNC/UTDLF60KA £59/91



Flange
UTD-RF204 (Round) £30
UTD-SF045T (Square) £40



Drain Pump Unit £60
UTZ-PX1NBA
For Medium Static Pressure Duct



Connection Units

Separation Tube £69
UTP-SX236A / UTP-SX254A
For 3-phase simultaneous multi



38UTP-SX354A £93
For 3-phase simultaneous multi



For Cassette type

IR Receiver Kit £73
UTY-LRHYA2



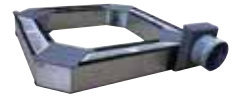
IR Receiver Kit £94
UTY-LBTYC **NEW**



Human Sensor Kit £59
UTY-SHZXC **NEW**



Fresh Air Intake Kit £280
UTZ-VXAA
For Compact Cassette



Fresh Air Intake Kit £350
UTZ-VXRA
For Cassette



For Ceiling Type

Drain Pump Unit £45
UTR-DPB24T

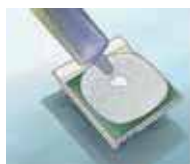


Service and Maintenance

Service Monitoring Tool £230
UTY-ASSX



HS Pack £POA
HSPACK01



Wired Remote Controller (Touch Panel)

UTY-RNRYZ1



Max. Controllable
16 indoor units

Standard on New Cassette and Medium Static Duct unit

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, weekly timer, and various energy saving controls can be realized using one remote controller only.



Accurate and comfortable control

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



Various energy saving control

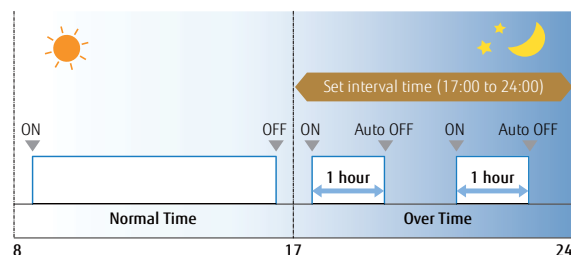
Auto OFF timer

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

2 schedules Weekly Timer

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting



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

Specifications

Model name	UTY-RNRYZ1
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 20.4
Weight (g)	220
List Price	155

DC12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RVNYM



Max. Controllable
16 indoor units

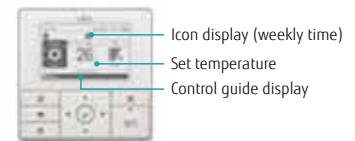
Features

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)

High visibility and Easy operation

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



High performance and compact size

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



Various energy saving control

Weekly Timer function

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



Auto OFF Timer

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

Specifications

Model name	UTY-RVNYM
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 21.3
Weight (g)	220
List Price	100

DC12 V is supplied by the indoor unit.

Auto Louver Grille Kit

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



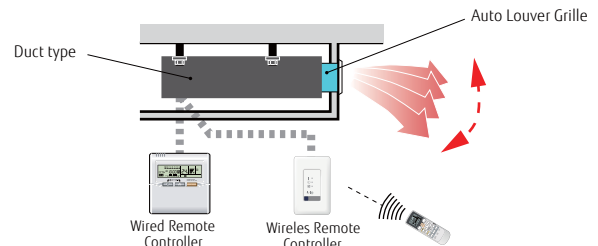
Features

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

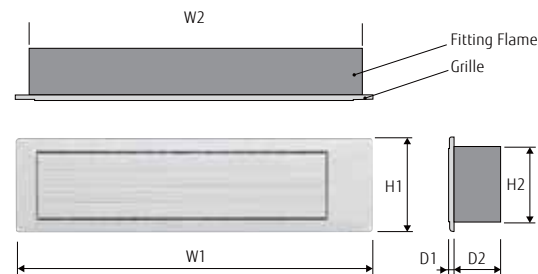


Flexible Control

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



Dimensions



Unit:mm

Model Name	W1	W2	H1	H2	D1	D2
UTD-GXTA-W	683	645				
UTD-GXTB-W	883	845	180	148	9	84
UTD-GXTC-W	1,083	1,045				

Specifications

Model name			UTD-GXSA-W	UTD-GXSB-W	UTD-GXSC-W
Applicable Indoor Unit			ARYG07/09LLTA ARYG12/14LLTB ARXD04/07/09/12/14GALH (For VRF)	ARYG18LLTB ARXD18GALH (For VRF)	ARXD24GALH (For VRF)
Power Supply			Connecting with Control box of indoor unit		
Fixing of Auto Louver Grille			Screw f×ing 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)
Color			White		
Louver Motor			Stepping Motor		
Accessories			Fitting Flame, etc.		
Operation range	Cooling	°C (°F)	18 to 32 (64 to 90)		
		% RH	80% or less		
	Heating	°C (°F)	16 to 30 (60 to 88)		
List Price			130	145	180

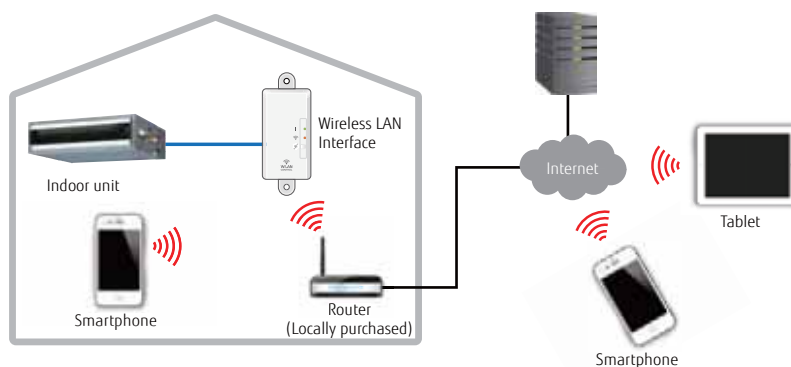
UTY-TFNYZ1



Future Release

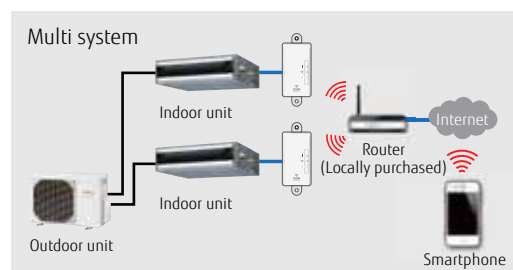
Features

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



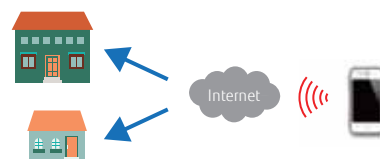
Basic control

- Turning the units on and off
- Mode control (Heat, Cool, Dry, Auto, Fan)
- Fan speed setting
- Louver position (Airflow direction setting)
- Room temperature setting
- Timer operation setting (Weekly timer)
- Economy mode setting



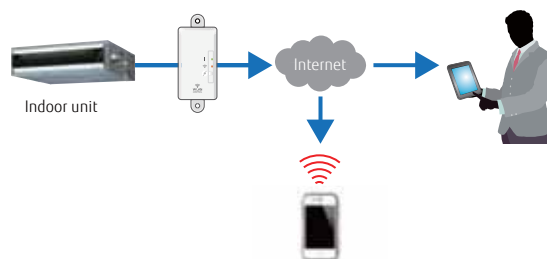
Multiple air conditioning management

- Multiple air conditioning management at difference locations.



Error display & E-mail notification

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



Specifications

Model name	UTY-TFNYZ1
Dimensions (H × W × D) (mm)	71×38×15
Weight (g)	85
List Price	Future Release

UTY-VMSX



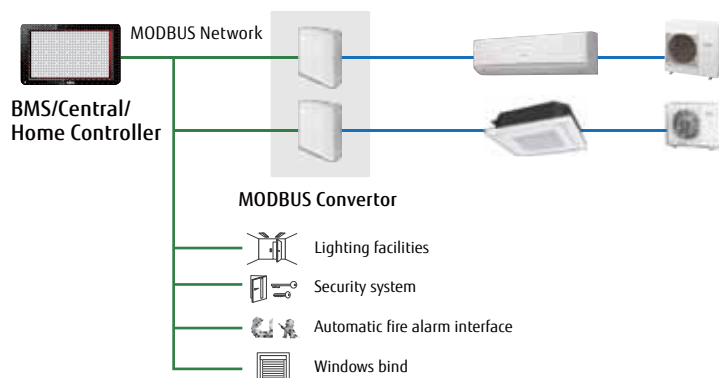
Max. Connectable

1 Single indoor unit

Features

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

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

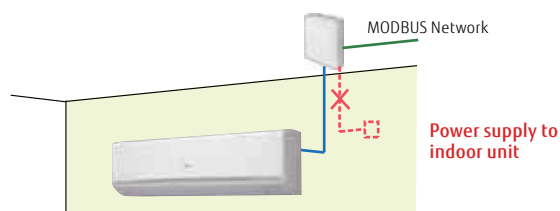


Basic control

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

Easy Installation

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



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 Convertor			1
List Price			225

Wireless LAN Interface

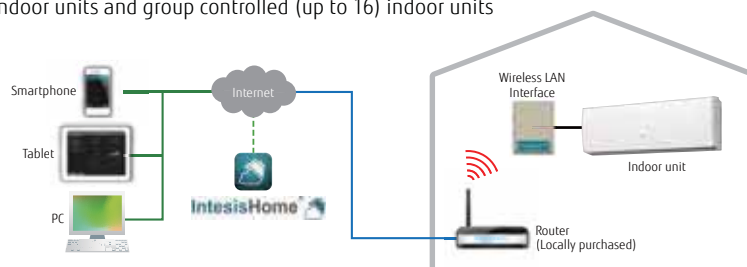
FJ-RC-WIFI-1



Features



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



Specifications

Model name	FJ-RC-WIFI-1
Price	225

MODBUS® Interface

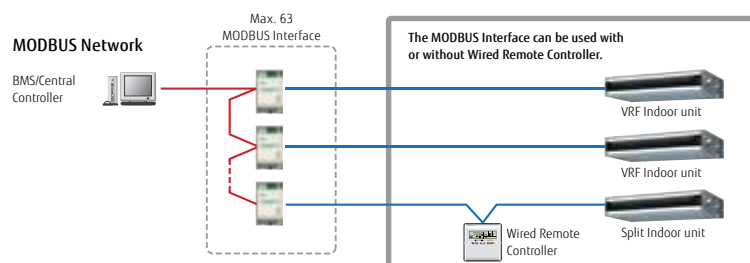
FJ-RC-MBS-1



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	FJ-RC-MBS-1
Price	225

KNX® Interface

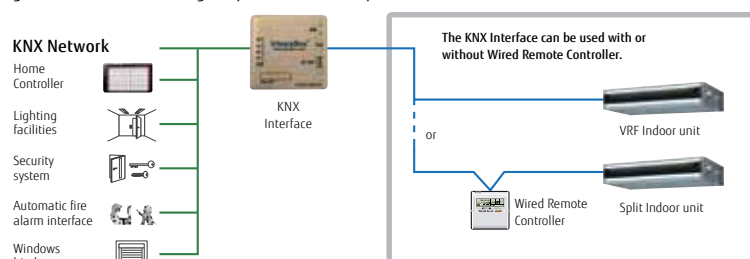
FJ-RC-KNX-1i



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	FJ-RC-KNX-1i
Price	255

VRF



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

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



074 All Type Lineup

075 AIRSTAGE™ Outline

079 AIRSTAGE™ Outdoor Units

- AIRSTAGE™ VR-II Heat Recovery Modular Type
- AIRSTAGE™ V-III Heat Pump Modular Type
- AIRSTAGE™ V-II Heat Pump Modular Type
- AIRSTAGE™ J-II Heat pump type
- AIRSTAGE™ J-IIS Heat pump type

098 Indoor Unit Lineup

104 Controller

128 Optional Parts for VRF

134 VENTILATION

AIRSTAGE™ SERIES Outline

Heat Recovery Modular type
for simultaneous heating and
cooling operation



AIRSTAGE™ VR-II

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 model

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

Heat Pump type for
heating or
cooling operation



AIRSTAGE™ J-II

4 HP, 5 HP, 6 HP 3 Models
Single phase



AIRSTAGE™ J-III

4 HP, 5 HP, 6 HP 3 Models
Single phase

VR-II & V-III Common Features
136 Design Flexibility

All Type Lineup

Outdoor units

Capacity (kW)		12.1	14.0	15.1-15.5	22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0	73.5
HP		4	5	6	8	10	12	14	16	18	20	22	24	26
VR-II series	Heat Recovery	Space saving Page 142 ~ Set Model												
	Energy efficiency Page 142 ~ Set Model													
V-III series	Heat Pump	Space saving Page 150 ~ Set Model												
	Energy efficiency Page 150 ~ Set Model													
J-II series* Heat Pump Page 162 ~														
		AJY040LALH	AJY045LALH	AJY054LALH										
J-IIS series Heat Pump Page 166 ~														
		AJY040LCLAH	AJY045LCLAH	AJY054LCLAH										

* Model numbers may change without prior notice

Indoor units



Compact Cassette



Cassette



Slim Duct
(With drain pump)



Medium Static Pressure
Duct



High
Static Pressure Duct



Floor/Ceiling



Ceiling



Wall Mounted
(EEV internal/EEV external)



Wall Mounted

Indoor units

Capacity range 1.1 kW to 28.0 kW

(J-II & J-IIS can be connected up to 14.0 kW.)

78.5 28	85.0 30	90.0 32	95.0 34	100.5 36	107.0 38	112.0 40	118.5 42	123.5 44	130.0 46	135.0 48	140.0 50	145.0 52	150.0 54
 AJY252GALH	 AJY270GALH	 AJY288GALH	 AJY306GALH	 AJY324GALH	 AJY342GALH	 AJY360GALH	 AJY378GALH	 AJY396GALH	 AJY414GALH	 AJY432GALH			
 AJY252GALHH	 AJY270GALHH	 AJY288GALHH	 AJY306GALHH	 AJY324GALHH	 AJY342GALHH	 AJY360GALHH	 AJY378GALHH	 AJY396GALHH					
 AJY252LALBH	 AJY270LALBH	 AJY288LALBH	 AJY306LALBH	 AJY324LALBH	 AJY342LALBH	 AJY360LALBH	 AJY378LALBH	 AJY396LALBH	 AJY414LALBH	 AJY432LALBH	 AJY450LALBH	 AJY468LALBH	 AJY486LALBH
 AJY252LALBHH	 AJY270LALBHH	 AJY288LALBHH	 AJY306LALBHH	 AJY324LALBHH	 AJY342LALBHH	 AJY360LALBHH	 AJY378LALBHH	 AJY396LALBHH	 AJY414LALBHH				

Ventilation



Energy Recovery Ventilator
5 models



Outdoor Air Unit
3 models



DX Solutions for Air Handling Applications

Controllers



Wireless
Remote Controller



Simple
Remote Controller



Wired
Remote Controller



Wired Remote Controller
(Touch Panel)



Group
Remote Controller



Central
Remote Controller



Touch Panel
Controller



System Controller
System Controller Lite
(Software)

Ventilation

2 type 8 models & DX Solution for Air Handling Applications

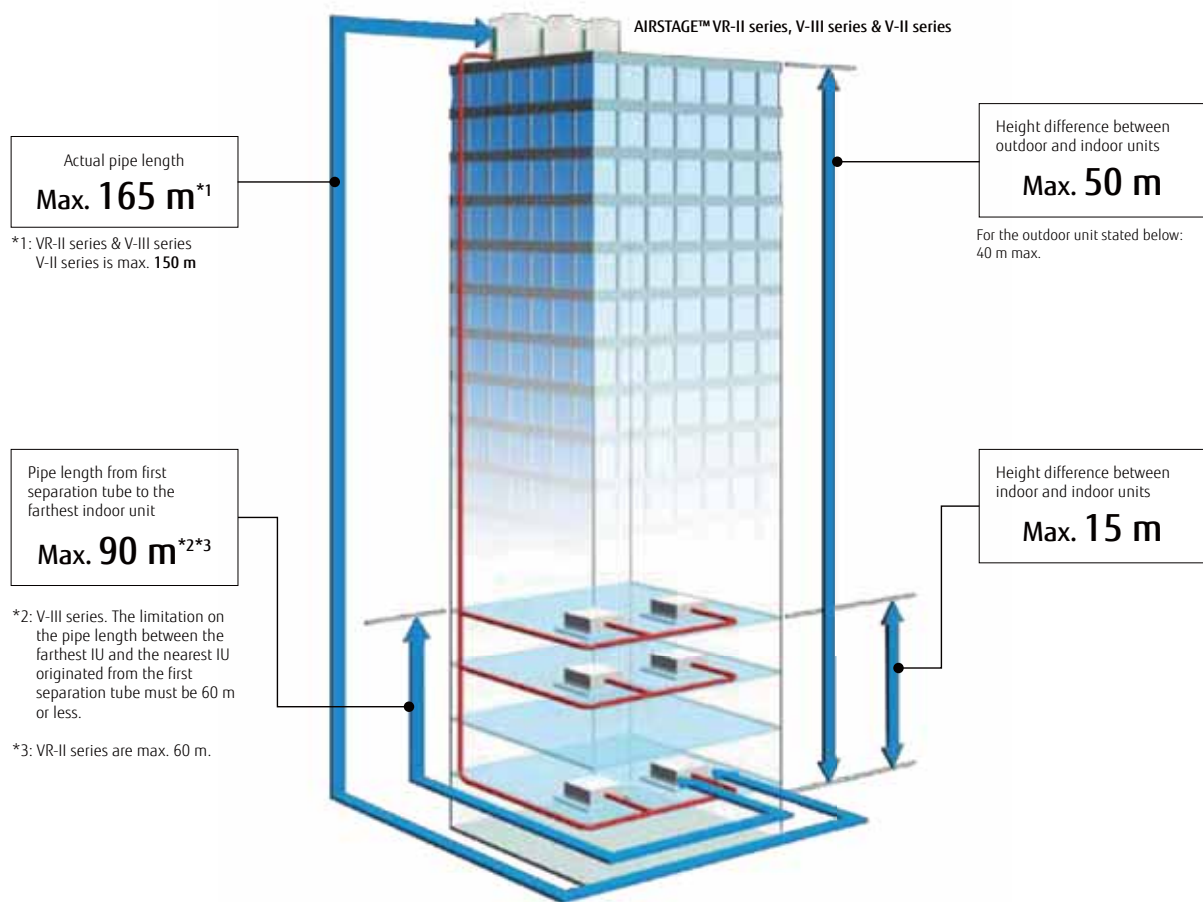
Various Easy-To-Use Controllers

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

VR-II & V-III Design Flexibility

Overall piping length Max. 1,000 m

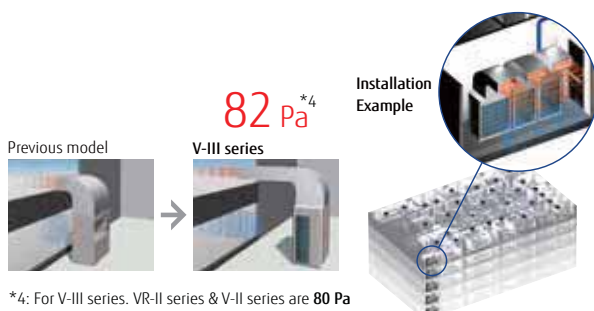
World's top class overall piping length of 1,000 m allows for application in a wide variety of buildings.



High static pressure

The outdoor unit can have a condenser hood easily connected with a static pressure of 82 Pa^{*4} standard. This allows outdoor units to be installed within plant rooms in high rise buildings.

Large diameter fan and DC motor has been utilized allowing an external static pressure of 82 Pa^{*4}.



High capacity connection

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 64
AIRSTAGE™ J-II series Heat Pump type	50% to 130% ^{*5}	up to 9
AIRSTAGE™ J-III series Heat Pump type	50% ^{*7} to 130% ^{*5}	up to 8

^{*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%.

^{*7}: Only 4 HP is 46%

OUTDOOR UNITS

Heat Recovery Modular type

080 *AIRSTAGE VR-II*

Heat Pump Modular type

086 *AIRSTAGE V-III*

Heat Pump for Small Capacity type

092 *AIRSTAGE J-II*

094 *AIRSTAGE J-IIS*

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.

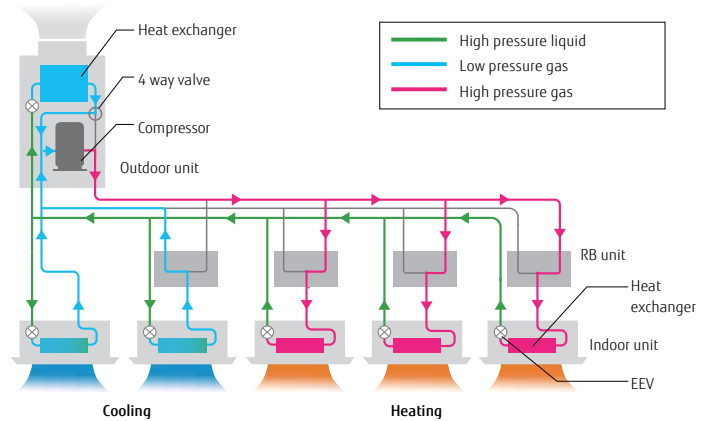
Handles changes in the temperature difference

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



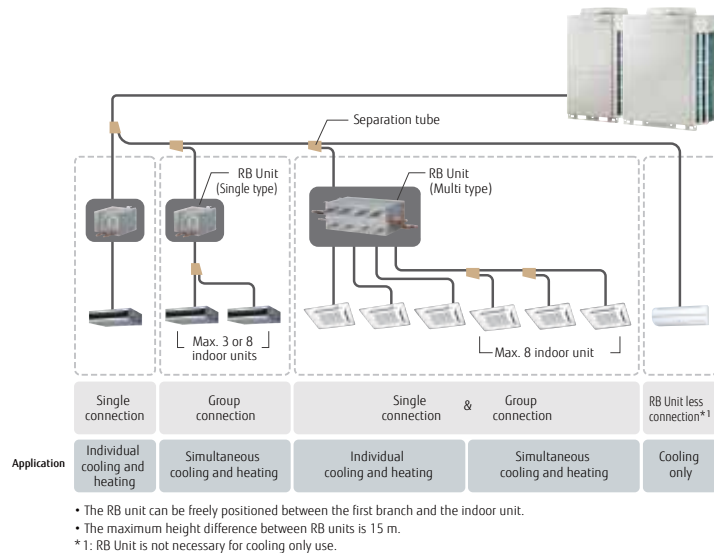
High Operating Energy Efficiency

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.



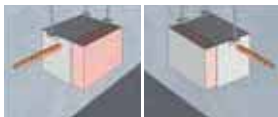
Flexible piping connection

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



Flexible installation of RB unit

- Small & slim design saves space. Height 198 mm
- A drain pipe is not required
- The control box position can be changed to meet the installation conditions
- Small design saves space
- A drain pipe is not required
- Simple installation series connection design



Installation possible from either side for freedom of the control box

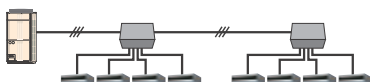


Installation possible on the upper-side for use in narrow space

• 2-way connection



• Up to 2 units can be connected in series.



Easy to maintain in a narrow space

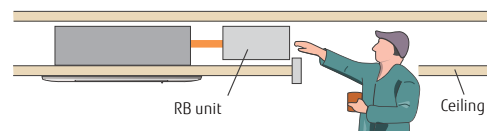


- Maintenance can be performed from the side.



- Electric box can be temporarily fixed by sliding down.

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



RB unit (single type)



RB unit (multi type)

Outdoor units lineup

• Combinations other than the followings are not recommended.

Space saving combination				
22.4 kW (8HP)  AJY72GALH 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		

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

AIRSTAGE™ VR-II



8, 10, 12 HP

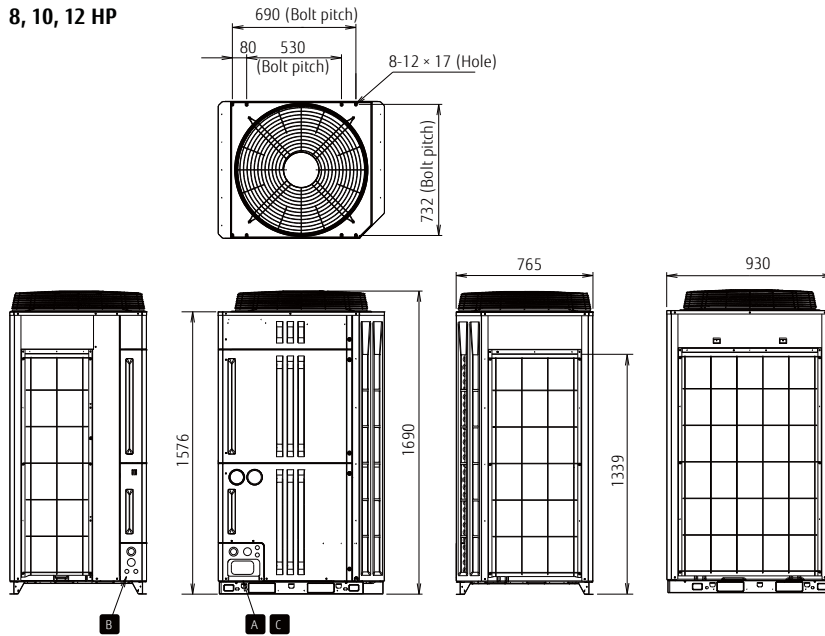


14, 16 HP

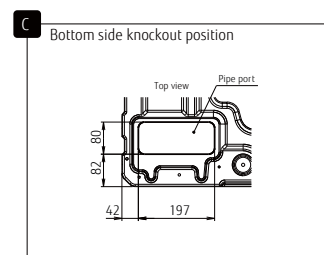
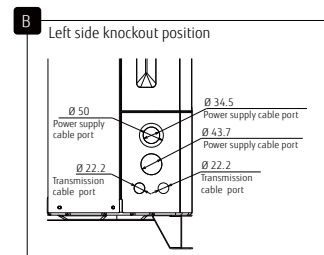
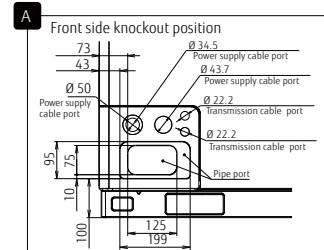
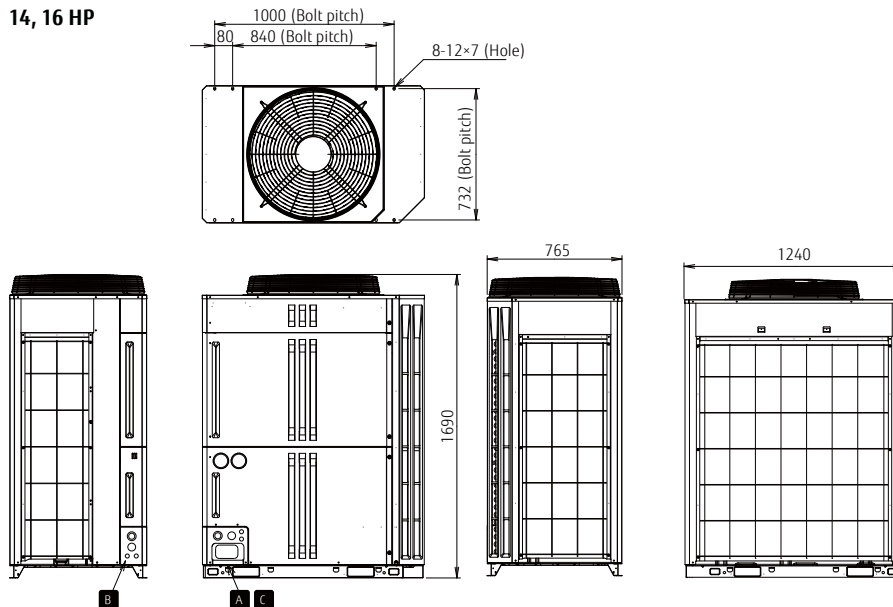
Dimensions

(Unit : mm)

8, 10, 12 HP



14, 16 HP



Outdoor units specifications

Space Saving Combination

Rating Capacity range		HP	8	10	12	14	16	18	20	22	24
											
Set Model name			AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJY162GALH	AJY180GALH	AJY198GALH	AJY216GALH
Unit 1			AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJYA90GALH	AJYA90GALH	AJY108GALH	AJY108GALH
Unit 2								AJYA72GALH	AJYA90GALH	AJYA90GALH	AJY108GALH
Unit 3											
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		m³/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	Cooling	dB(A)	56 / 77	58 / 79	59 / 80	60 / 81	61 / 82	60 / 81	61 / 82	62 / 83	62 / 83
Power Level	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
Min Recc MCB		AMP	20	25	25	40	40	25 + 20	25 + 25	25 + 25	25 + 25
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 charge		kg	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	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88
	Discharge Gas		15.88	19.05	19.05	22.22	22.22	22.22	22.22	28.58	28.58
	Suction Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92
Operation range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-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		£	5,785	6,327	7,737	9,041	10,434	12,112	12,654	14,064	15,474

Energy Efficiency Combination

Rating Capacity range		HP	16	22	24	26	28	30
								
Set Model name			AJY144GALHH	AJY198GALHH	AJY216GALHH	AJY234GALHH	AJY252GALHH	AJY270GALHH
Unit 1			AJYA72GALH	AJY126GALH	AJYA72GALH	AJYA90GALH	AJYA90GALH	AJYA90GALH
Unit 2			AJYA72GALH	AJYA72GALH	AJYA72GALH	AJYA72GALH	AJYA90GALH	AJYA90GALH
Unit 3					AJYA72GALH	AJYA72GALH	AJYA72GALH	AJYA90GALH
Maximum Connectable Indoor Unit*1			24	33	36	39	42	45
Indoor unit connectable capacity		kW	22.4-67.2	31.2-93.6	33.6-100.8	36.4-109.2	39.2-117.6	42.0-126.0
Power source			3-phase 4 wire , 400 V, 50Hz					
Capacity	Cooling	kW	44.8	62.4	67.2	72.8	78.4	84.0
	Heating		50.0	70.0	75.0	81.5	88.0	94.5
Input power	Cooling	kW	10.90	16.79	16.35	18.01	19.67	21.33
	Heating		11.40	16.60	17.10	18.73	20.36	21.99
EER	Cooling	W/W	4.11	3.72	4.11	4.04	3.99	3.94
COP	Heating	W/W	4.39	4.22	4.39	4.35	4.32	4.30
Air flow late		m³/h	11,100×2	13,000+11,100	11,100×3	11,100×3	11,100×3	11,100×3
Sound pressure level*2/	Cooling	dB(A)	59 / 80	61 / 82	61 / 82	62 / 83	62 / 83	63 / 84
Power Level	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
Min Recc MCB		AMP	20 + 20	40 + 20	20 + 20 + 20	20 + 20 + 20	25 + 25 + 20	25 + 25 + 25
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930×2	1,240+930	930×3	930×3	930×3	930×3
	Depth		765	765	765	765	765	765
Weight		kg	262×2	286+262	262×3	262×3	262×3	262×3
Refrigerant charge		kg	11.8×2	11.8×2	11.8×3	11.8×3	11.8×3	11.8×3
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	19.05
	Discharge Gas		22.22	28.58	28.58	28.58	28.58	28.58
	Suction Gas		28.58	34.92	34.92	34.92	34.92	34.92
Operation range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21
List Price		£	11,570	14,826	17,355	17,897	18,439	18,981

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 AJY144GALH 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	65 / 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
25 + 40	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
11.8×2	11.8×2	11.8×2	11.8×2	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3
15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
28.58	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92
34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27
-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21
16,761	18,171	19,475	20,868	21,801	23,211	24,498	25,908	27,195	28,605	29,909	31,302

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
11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3
19.05	19.05	19.05	19.05	19.05	19.05	19.05
28.58	28.58	28.58	34.92	34.92	34.92	34.92
34.92	34.92	41.27	41.27	41.27	41.27	41.27
-10 to 46	-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
21,153	21,695	23,867	24,409	25,802	27,123	28,516

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

High design flexibility for various building air conditioning

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

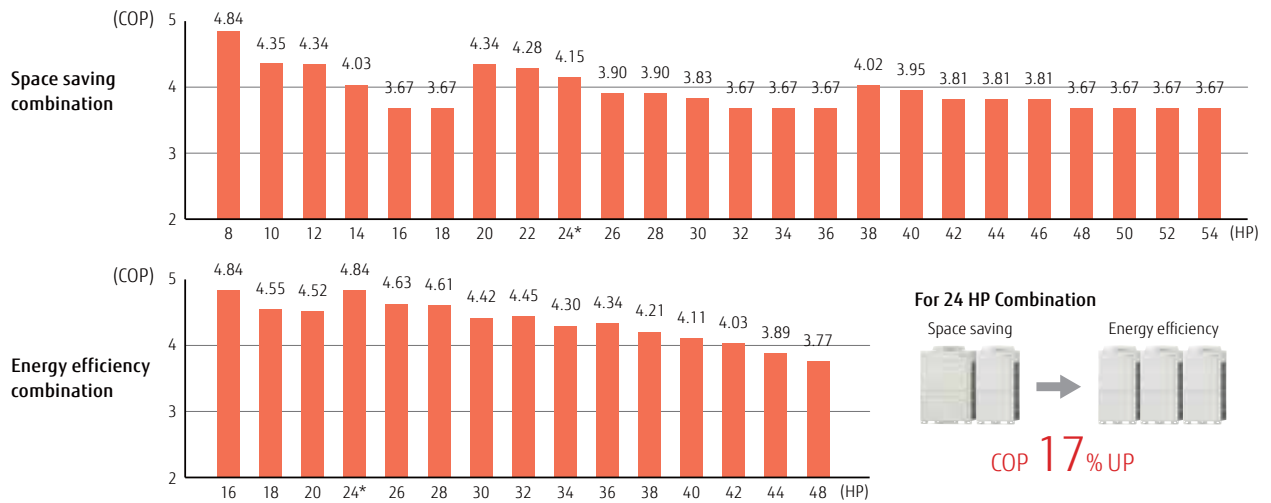
Easy installation and maintenance

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



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 that boosted operation efficiency



Powerful large propeller fan

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

*1. CFD = Computational Fluid Dynamics



3 phase DC fan motor

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



Subcool heat exchanger

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



Sine-wave DC inverter control

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



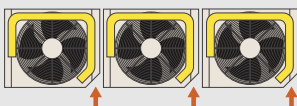
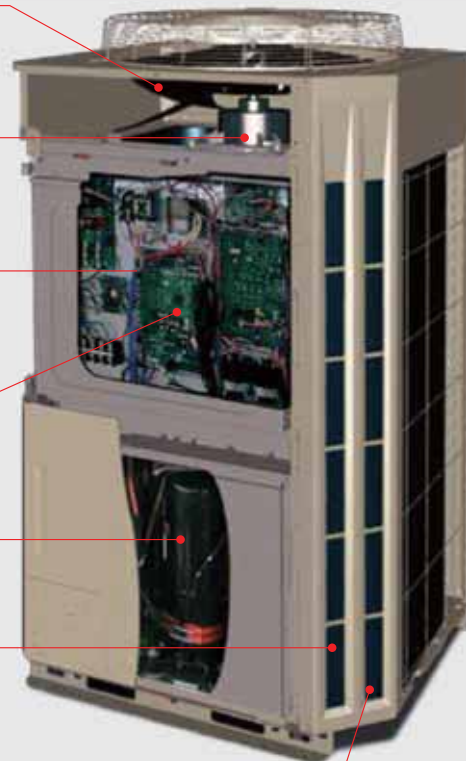
High efficient and large capacity DC inverter compressor

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



4-face heat exchanger

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



Front intake port (corner cut air inhaling structure)

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

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	50.4kW (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

AIRSTAGE™ V-III



8, 10 HP

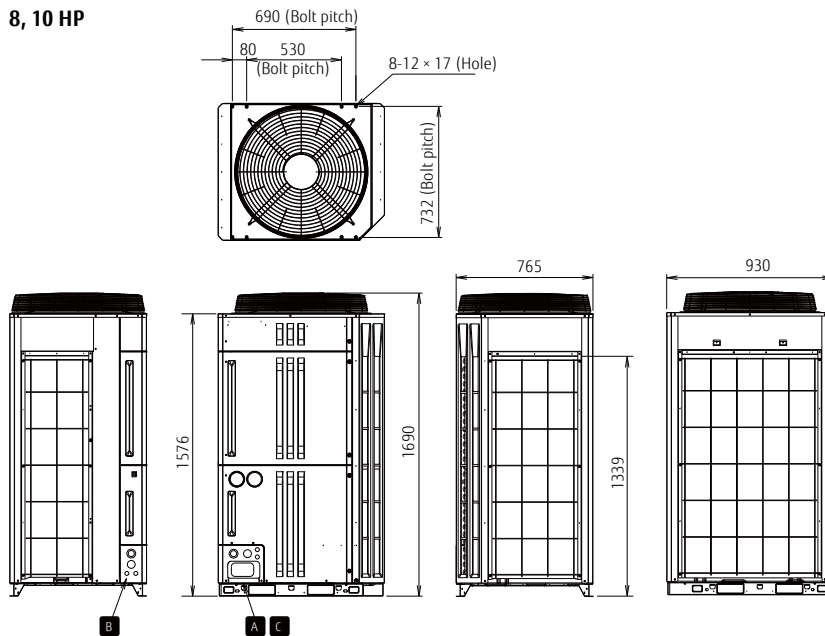


12, 14, 16 HP

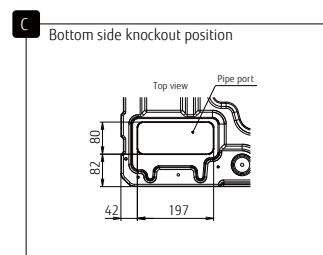
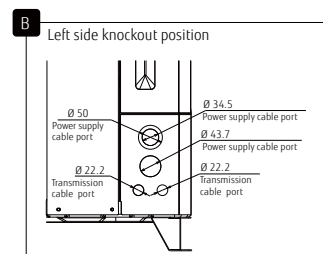
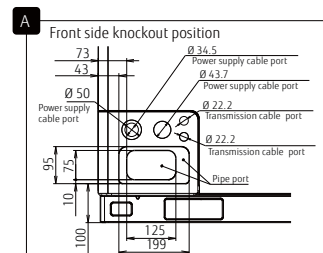
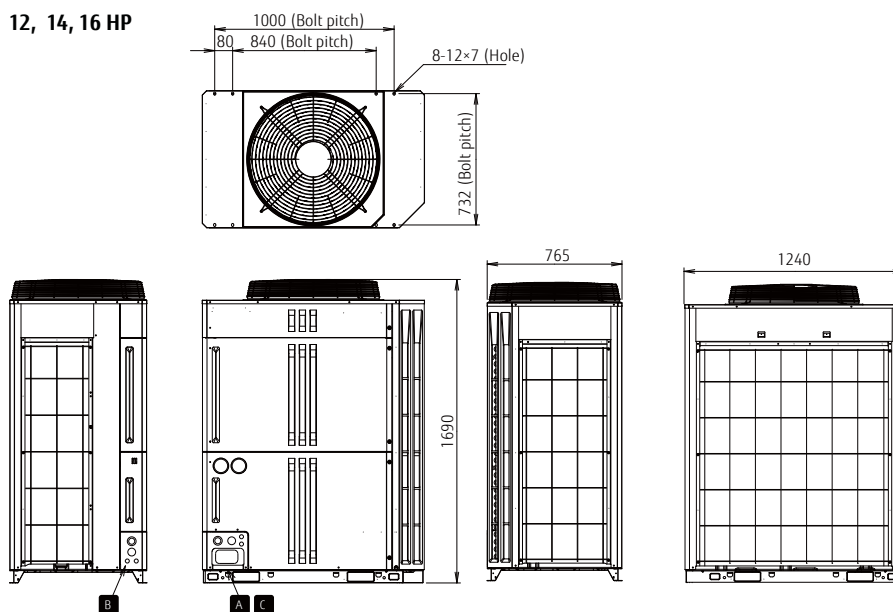
Dimensions

(Unit : mm)

8, 10 HP



12, 14, 16 HP



Outdoor units specifications

Space Saving Combination

Rating Capacity range		HP	8	10	12	14	16	18	20	22	24	26	28
													
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**1			17	21	26	30	34	39	43	47	52	56	60
Indoor unit connectable capacity		Cooling kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.0-67.5	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	kW	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	kW	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
	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 rate		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	56 / 77	58 / 79	57 / 78	60 / 81	62 / 83	63 / 84	61 / 82	61 / 82	62 / 83	63 / 84	64 / 85
	Heating	(A)	58 / 80	59 / 81	60 / 83	62 / 84	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
Compressor 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
Min Recc MCB		AMP	20	25	25	40	40	40	25+25	40+20	40+25	40+25	40+25
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	mm	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	mm	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 charge		kg	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	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88
	Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92
Operation range	Cooling	°C	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 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	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
List Price		£	5,536	6,130	7,403	8,675	10,478	11,736	12,260	14,211	14,805	16,608	17,866

Energy Efficiency Combination

Rating Capacity range		HP	16	18	20	24	26	28	30		
											
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*1			34	39	43	52	56	60	64		
Indoor unit connectable capacity	Cooling	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		4.84	4.55	4.52	4.84	4.63	4.61	4.42		
Air flow rate	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		
Compressor 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		
Min Recc MCB	AMP		20+20	25+20	25+20	20+20+20	25+20+20	25+20+20	40+20+20		
Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690		
	Width	mm	930×2	930×2	1,240+930	930×3	930×3	1,240+930×2	1,240+930×2		
	Depth	mm	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		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	mm	12.70	15.88	15.88	15.88	15.88	15.88	19.05		
	Gas		28.58	28.58	28.58	34.92	34.92	34.92	34.92		
Operation range	Cooling	°C	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-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	£		11,072	11,666	£12,939	16,608	17,202	18,475	19,747		

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 / 88	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
	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
	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-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
	19,153	20,956	22,214	23,472	23,996	25,283	27,086	28,344	29,602	31,434	32,692	33,950	35,208

	32	34	36	38	40	42	44	46
								
	AJY288LALBHH AJY108LALBH AJY108LALBH AJY072LALBH	AJY306LALBHH AJY126LALBH AJY108LALBH AJY072LALBH	AJY324LALBHH AJY108LALBH AJY108LALBH AJY108LALBH	AJY342LALBHH AJY126LALBH AJY108LALBH AJY108LALBH	AJY360LALBHH AJY126LALBH AJY126LALBH AJY108LALBH	AJY378LALBHH AJY126LALBH AJY126LALBH AJY126LALBH	AJY396LALBHH AJY144LALBH AJY126LALBH AJY126LALBH	AJY414LALBHH AJY144LALBH AJY126LALBH 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
	25+25+20	40+25+20	25+25+25	40+25+25	40+40+25	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
	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
	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27
	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	20,342	21,614	22,209	23,481	24,753	26,025	27,828	29,631

*1 Minimum connectable indoor unit number is 2.

However ARXC72 and ARXC90 can be used signal connection.

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

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

Heat Pump 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.

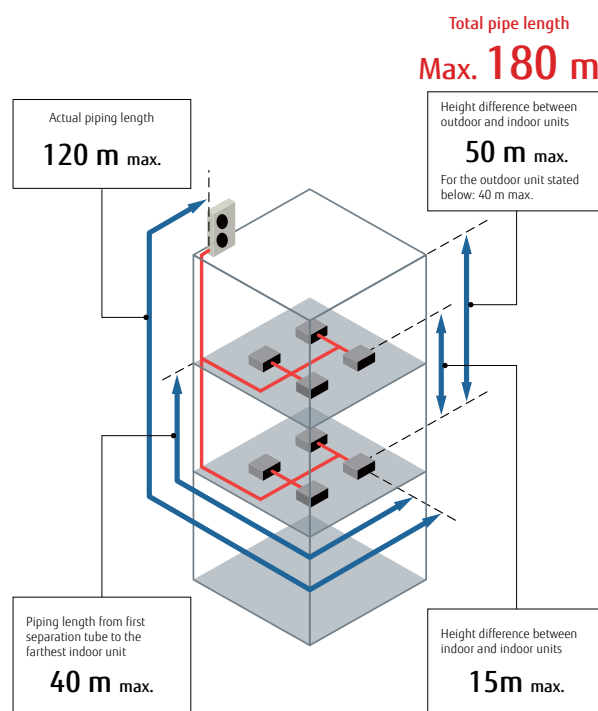
Flexible systems for small- and medium-size buildings air conditioning

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

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



4,5,8HP



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

AIRSTAGE™ J-II



Specifications

Rating Capacity range		HP	4	5	6
Model name			AJYA40LALH	AJYA45LALH	AJYA54LALH
Maximum Connectable Indoor Unit			7	8	9
Power source			230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	12.1	14.0	15.5
	Heating		13.6	16.0	18.0
Input power	Cooling	kW	3.25	3.89	4.49
	Heating		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 / Power level	Cooling	dB(A)	50 / 66	51 / 67	53 / 69
	Heating		52 / 66	53 / 67	53 / 69
Min Recc MCB		AMP	32	32	32
Net Dimensions	Height	mm	1,334	1,334	1,334
	Width		970	970	970
	Depth		370	370	370
Weight		kg	117	117	117
Refrigerant charge		kg	4.8	5.3	5.3
Connection pipe diameter	Liquid	mm	3/8	3/8	3/8
	Gas		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		-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.

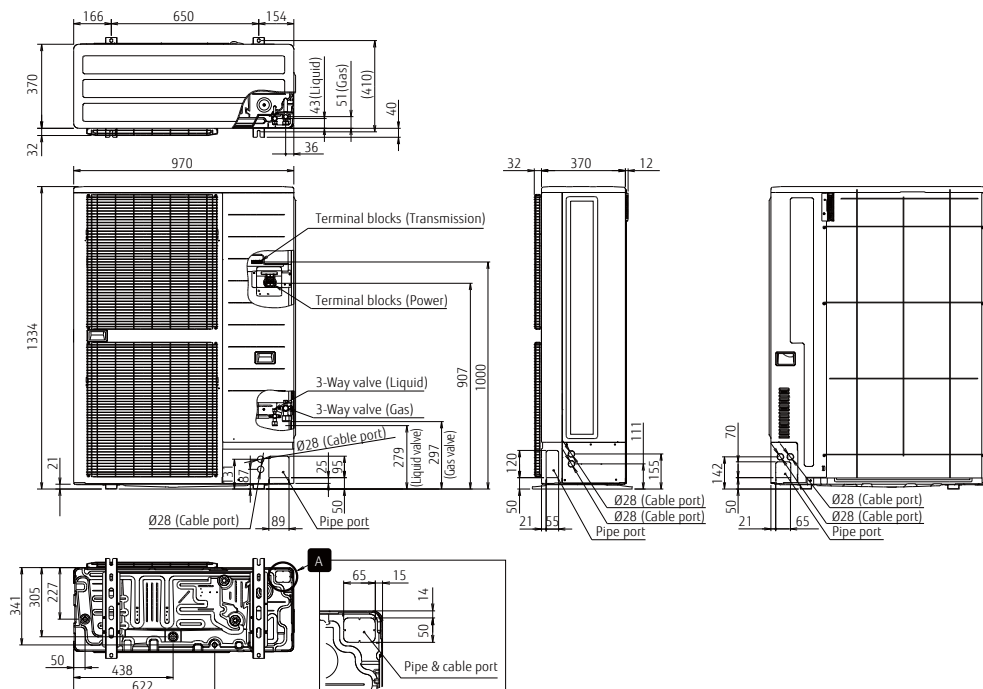
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

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

*Model number may change without prior notice

Dimensions

(Unit : mm)



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

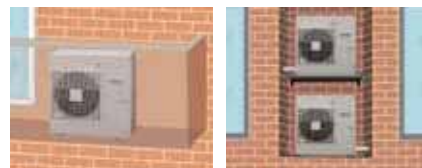
Flexible systems for homes, shops, small-size buildings air conditioning

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



Small and light weight outdoor unit

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



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 realized by large propeller and optimization of angle.



DC fan motor

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



Large heat exchanger

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

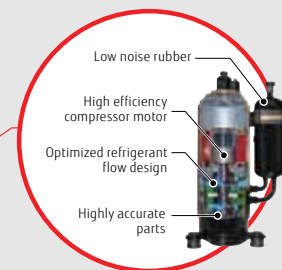


High heat transfer copper tube (Improved lead angle)



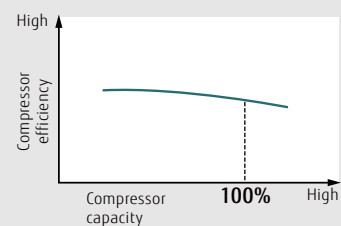
DC inverter control

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.



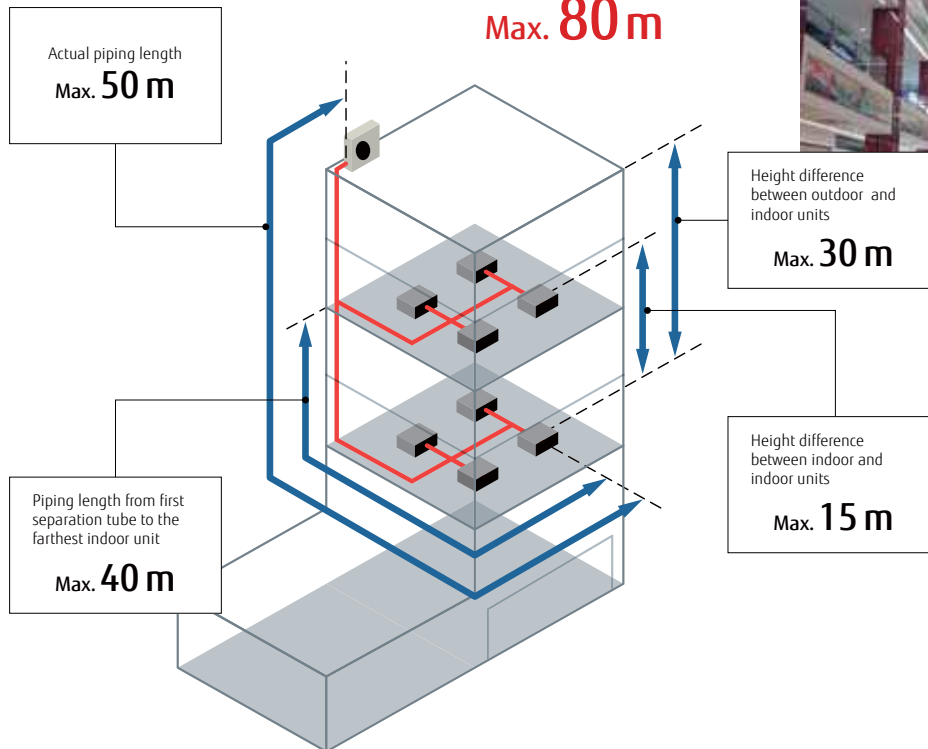
Smooth airflow grille

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



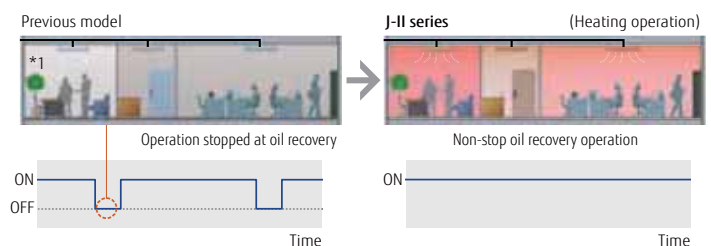
Long piping length

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.



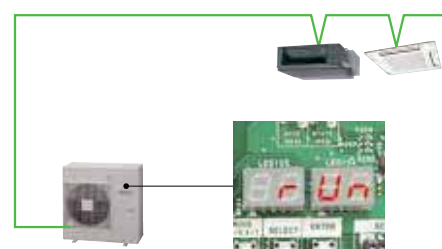
Non-stop oil recovery operation

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.



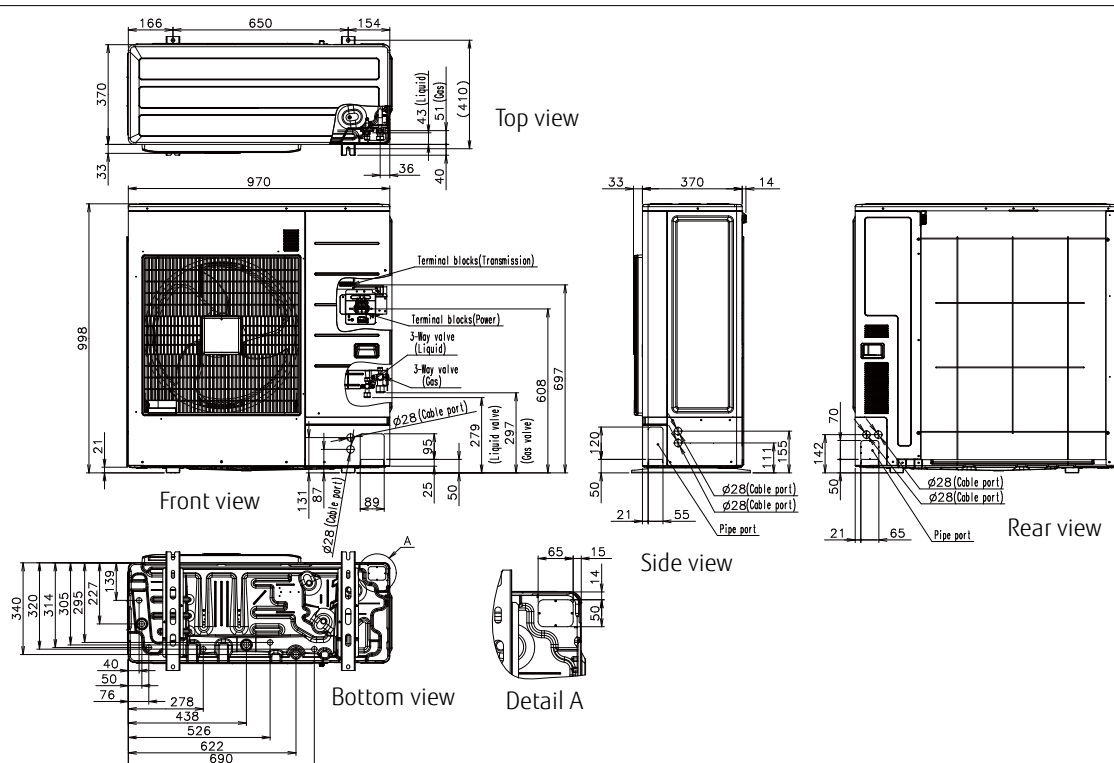
- Display connected indoor unit numbers
- Duplicately set address number of indoor unit can be displayed



Rating capacity range	HP		4	5	6
Model name			AJY040LCLAH	AJY045LCLAH	AJY054LCLAH
Maximum connectable indoor unit			7	8	8
Power source	V/Ø/Hz		230/1/50	230/1/50	230/1/50
Capacity	Cooling	kW	12.1	14.0	15.1
	Heating		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		4.40	4.07	3.87
Airflow rate		m³/h	4,040	4,200	4,200
Sound Pressure	Cooling	dB (A)	51 / 67	53 / 69	54 / 70
Power level	Heating		54 / 68	55 / 69	56 / 70
Min Recc MCB		AMP	32	32	32
Dimensions	Height	mm	998	998	998
	Width	mm	970	970	970
	Depth	mm	370	370	370
Weight	kg		86	86	87
Refrigerant charge	kg		4.0	4.0	4.0
Connection	Liquid	mm	3/8	3/8	3/8
Pipe diameter	Gas		5/8	5/8	5/8
Total pipe length		m	80	80	80
Max. Height difference			30	30	30
Operation Range	Cooling	°C	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21
List Price		£	2.310	2.520	2.730

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

(Unit : mm)



Indoor units

Indoor Unit Lineup

12 Types, 66 Models, Capacity range from 1.1 kW to 28.0 kW

Capacity range (kW)		1.1	2.2	2.8	3.6	4.5	5.6
Model code		4	7	9	12	14	18
Cassette	4-way Compact Cassette	 AUXB04GALH	 AUXB07GALH	 AUXB09GALH	 AUXB12GALH	 AUXB14GALH	 AUXB18GALH
	4-way Cassette Slim type						 AUXD18GALH
Duct	Slim Duct (With drain pump)	 ARXD04GALH	 ARXD07GALH	 ARXD09GALH	 ARXD12GALH	 ARXD14GALH	 ARXD18GALH
	Medium Static Pressure Duct						
	High Static Pressure Duct						
Floor	Floor (*Same as Ceiling models)				 ABYA12GATH	 ABYA14GATH	 ABYA18GATH
	Slim Concealed Floor (*Same as Slim Duct models)	 ARXD04GALH	 ARXD07GALH	 ARXD09GALH	 ARXD12GALH	 ARXD14GALH	 ARXD18GALH
Ceiling	Ceiling				 ABYA12GATH	 ABYA14GATH	 ABYA18GATH
Wall Mounted	Wall Mounted	 ASYA04GACH	 ASYA07GACH	 ASYA09GACH	 ASYA12GACH	 ASYA14GACH	 ASYA18GACH
	Wall Mounted (EEV external)	 ASHE04GACH	 ASHE07GACH	 ASHE09GACH	 ASHE12GACH	 ASHE14GACH	
With this model, connection of EV kit is necessary.							

7.1 24	9.0 30	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				
 ARXD24GALH								
 ARXA24GBLH	 ARXA30GBLH	 ARXA36GBLH	 ARXA45GBLH					
		 ARXC36GBTH	 ARXC45GATH		 ARXC60GATH*1	 ARXC72GBTH*1	 ARXC90GBTH*1	 ARXC96GATH*1 Future Release
 ABYA24GATH								
 ARXD24GALH								
 ABYA24GATH	 ABYA30GATH	 ABYA36GATH	 ABYA45GATH	 ABYA54GATH				
 ASYA24GACH	 ASYA30GACH							

*1: ARXC60/72/90G/96G cannot be connected to J-IIS and J-III series.

Indoor Units Specifications

4-way Compact Cassette



Model No.			AUXB04GALH	AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH	AUXB18GALH	AUXB24GALH
Power Source			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		Watts	23	25	25	29	35	36	84
Airflow Rate	High	m3/hr	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 x W x D)		mm	245 x 570 x 570 (grille 50 x 700 x 700)						
Weight		kg	15					17	
Connection	Liquid (flare)	inches	1/4					3/8	
pipe dia	Gas (flare)		1/2					5/8	
List Price		£	874	874	889	912	963	1000	1091

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. *1: This value is under cooling operation.

4-way Cassette



Model No.			AUXD18GALH	AUXD24GALH	AUXA30GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH
Power Source			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		Watts	39	46	59	80	99	119
Airflow Rate	High	m3/hr	1,150	1,280	1,600	1,800	1,900	2,000
	Med		940	1,040	1,300	1,300	1,370	1,370
	Low		870	870	1,100	1,100	1,100	1,100
Sound Pressure level	High	dB(A)	36	38	40	44	46	47
	Med		30	33	38	38	39	39
	Low		29	29	33	33	33	33
Dimensions (H x W x D)		mm	246 x 840 x 840			288 x 840 x 840 (grille 50 x 950 x 950)		
Weight		kg	22			27		
Connection pipe dia	Liquid (flare)	inches				3/8		
	Gas (flare)		5/8			3/4		
List Price		£	951	1021	1083	1236	1313	1384

***Price includes Grille, to be ordered separately**

Specifications

Specifications are based on the following conditions for all VRF indoor units:

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

Nominal Heating: Indoor temperature of 20°CDB and outdoor temperature of 7°CDB

UK Cooling: indoor temperature 23°CDB / 16°CWB and outdoor temperature 30°C

UK Heating: indoor temperature 20°CDB and outdoor temperature 0°C



Linwood now offer an extensive range of plenum boxes to suit the Fujitsu General UK range of ducted air conditioning systems

Installing split system air conditioning 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 single ducted split air conditioning systems.

Easy to use online ordering & live order processing via
www.linwoodplenums.co.uk/fujitsu-plenums.html

Contact details:

Team Linwood,
Rear of Sound Leisure Ltd
Sandreas Way, Crossgates
Leeds, LS15 8AR

Email: sales@linwoodplenums.co.uk
Tel: 0113 868 0410 Mob: 07946 344474



Slim Duct / Slim Concealed Floor



Model No.			ARXD04GALH	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH	ARXD18GALH	ARXD24GALH
Power Source			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		Watts	38	44	50	54	92	83	122
Airflow Rate	High	m3/hr	510	550	600	600	800	940	1,330
	Med		400/470 htg/clg *1	490	550	510	710	840	1,240
	Low		320/440 htg/clg *1	440	480	450	610	750	1,100
Static Pressure		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	High	dB(A)	26	28	29	30	34	34	35
	Med		21/25 htg/clg	25	26	27	32	32	32
level	Low		20/22 htg/clg	22	24	24	28	28	29
Dimensions (H x W x D)		mm	198 x 700 x 620					198 x 900 x 620	198 x 1,100 x 620
Weight		kg	17			18		22	26
Connection pipe dia	Liquid (flare)	inches	1/4					3/8	
	Gas (flare)	(mm)	1/2					5/8	
List Price		£	648	648	664	755	796	845	883

*1: This value is under cooling operation.

Medium Static Pressure Duct



Model No.			ARXA24GBLH	ARXA30GBLH	ARXA36GBLH	ARXA45GBLH	
Power Source			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		Watts	94	108	194	240	
Airflow Rate	High	m3/hr	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		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 x W x D)		mm	270 x 1,135 x 700				
Weight		kg	36	40			
Connection pipe dia	Liquid (flare)	inches	1/4				
	Gas (flare)		5/8		3/4		
List Price			£	842	961	1082	1203

High Static Pressure Duct



Model No.			ARXC36GATH	ARXC45GATH	ARXC60GATH*	ARXC72GATH*	ARXC90GATH*
Power Source			230v ~ 50Hz				
Capacity	UK Total Cooling	KW	8.30	9.30	13.40	16.60	18.60
	UK Sensible Cooling		7.40	9.20	12.20	15.10	15.60
	UK Heating		11.60	13.00	18.60	23.30	26.00
	Nominal Cooling		11.20	12.50	18.00	22.40	25.00
	Nominal Heating		12.50	14.00	20.00	25.00	28.00
Input Power		Watts	405	715	730	1100	1250
Airflow Rate	High	m3/hr	2,600	3,500	3,500	3,900	4,300
	Med		1,950	3,000	3,000	3,300	4,000
	Low		1,450	2,460	2,460	3,000	3,500
Static Pressure		Pa	100 to 200	100 to 250	100 to 250	50 to 300	100 to 300
Standard static pressure			100	100	100	260	250
Sound Pressure level	High	dB(A)	45	49	49	51	53
	Med		38	45	45	48	51
	Low		32	42	42	45	49
Dimensions (H x W x D)		mm	400 x 1,050 x 500			450 x 1,550 x 700	
Weight		kg	43	46		83	85
Connection pipe dia	Liquid	inches (mm)	3/8 Flare				1/2 Brazed
	Gas		3/4 Flare				7/8 Brazed
List Price		£	1298	1442	1587	1745	1920

*ARXC60/72/90GATH can not be connected to J-II or J-IIS outdoor units

Indoor Units Specifications

Floor / Ceiling



Model No.			ABYA12GATH	ABYA14GATH	ABYA18GATH	ABYA24GATH
Power Source			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		Watts	30	42	74	99
Airflow Rate	High	m3/hr	660	780	1,000	1,000
	Med		570	640	720	820
	Low		490	550	580	680
Sound Pressure level	High	dB(A)	36	40	46	47
	Med		32	36	39	42
	Low		28	34	35	37
Dimensions (H x W x D)		mm	199 x 990 x 655			
Weight		kg	25	26	26	27
Connection pipe dia	Liquid (flare)	inches	1/4		3/8	
	Gas (flare)		1/2		5/8	
List Price		£	846	886	940	981

Ceiling



Model No.			ABYA30GATH	ABYA36GATH	ABYA45GATH	ABYA54GATH	
Power Source			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		Watts	66	85	131	180	
Airflow Rate	High	m3/hr	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	High	dB(A)	42	45	48	51	
	Med		38	38	42	45	
level	Low		33	34	35	36	
Dimensions (H x W x D)			mm	240 x 1,660 x 700			
Weight			kg	46	48		
Connection pipe dia	Liquid (flare)	inches	3/8	3/8			
	Gas (flare)		5/8	3/4			
List Price			£	1097	1211	1834	2454

Refrigerant Leak Detection

To meet the requirements of EN378 (to be revised in 2016) all split / VRF systems installed in an occupied space with a refrigerant charge in excess of 0.44kg/m3 (R410a) must have a leak detector with audible alarm fitted.

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

Refrigerant leak detection systems are available from a number of specialist suppliers some of who offer installation, commissioning and maintenance services along with their products these companies include but are not limited too.

Aquilar, CPC (UK) Ltd, TQ Environmental, Murco Gas detection systems, Amos Detection, JAVAC

Wall Mounted



Model No.			ASYA04GACH	ASYA07GACH	ASYA09GACH	ASYA12GACH	ASYA14GACH
Power Source			230v ~ 50Hz				
Capacity	UK Total Cooling	KW	0.80	1.60	2.10	2.70	3.30
	UK Sensible Cooling		0.70	1.60	1.90	2.30	2.80
	UK Heating		1.20	2.60	3.00	3.80	4.70
	Nominal Cooling		1.10	2.20	2.80	3.60	4.50
	Nominal Heating		1.30	2.80	3.20	4.10	5.00
Input Power		Watts	13	17	18	22	34
Airflow Rate	High	m3/hr	450	490	500	560	670
	Med		370/440 htg/clg *1	450	450	480	490
	Low		320/420 htg/clg *1	370/420 htg/clg *1	370/420 htg/clg *1	420	420
Sound Pressure level	High	dB(A)	33	35	36	39	44
	Med		27/32 htg/clg *1	33	33	35	37
	Low		22/31 htg/clg *1	27/31 htg/clg *1	27/31 htg/clg *1	31	32
Dimensions (H x W x D)		mm	275 x 790 x 215				
Weight		kg	9				
Connection pipe dia	Liquid (flare)	inches	1/4				
	Gas (flare)		1/2				
		EV Kit	N/A				
List Price			£ 525	525	536	550	570

*1 : This value is under cooling operation.

Wall Mounted



Model No.			ASYE07GACH	ASYE09GACH	ASYE12GACH	ASYE14GACH
Power Source			230v ~ 50Hz			
Capacity	UK Total Cooling	KW	1.60	2.10	2.70	3.30
	UK Sensible Cooling		1.60	1.90	2.30	2.80
	UK Heating		2.60	3.00	3.80	4.70
	Nominal Cooling		2.20	2.80	3.60	4.50
	Nominal Heating		2.80	3.20	4.10	5.00
Input Power		Watts	15	16	21	34
Airflow Rate	High	m3/hr	490	500	460	680
	Med		450	450	480	490
	Low		370/420 htg/clg *1	370/420 htg/clg *1	420	420
Sound Pressure level	High	dB(A)	34	35	38	43
	Med		32	32	34	35
	Low		26/30 htg/clg *1	26/30 htg/clg *1	30	30
Dimensions (H x W x D)		mm	275 x 790 x 215			
Weight		kg	9			
Connection pipe dia	Liquid (flare)	inches	1/4			
	Gas (flare)		1/2			
		EV Kit	UTR-EV09XB			
List Price			£ 554	565	580	601

*1 : This value is under cooling operation.

Wall Mounted



Model No.			ASYA18GACH		ASYA24GACH		ASYA30GACH	
Power Source			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		Watts	32	60	91			
Airflow Rate	High	m3/hr	840	1,100	1,240			
	Med		770	910	980			
	Low		690	730	770			
Sound Pressure level	High	dB(A)	41	48	52			
	Med		39	43	45			
	Low		35	35	35			
Dimensions (H x W x D)		mm	320 x 998 x 228					
Weight		kg	15					
Connection pipe dia	Liquid (flare)	inches	3/8					
	Gas (flare)		5/8					
List Price			£ 593	651	711			

Controller

Control system overview

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

Air Conditioning Individual Control

Wired Remote Controller (Touch panel)

UTY-RNRYZ1



Wired Remote Controller

UTY-RLRY



Simple Remote Controller

UTY-RSKY



Simple Remote Controller

UTY-RHKY

Without
operation mode

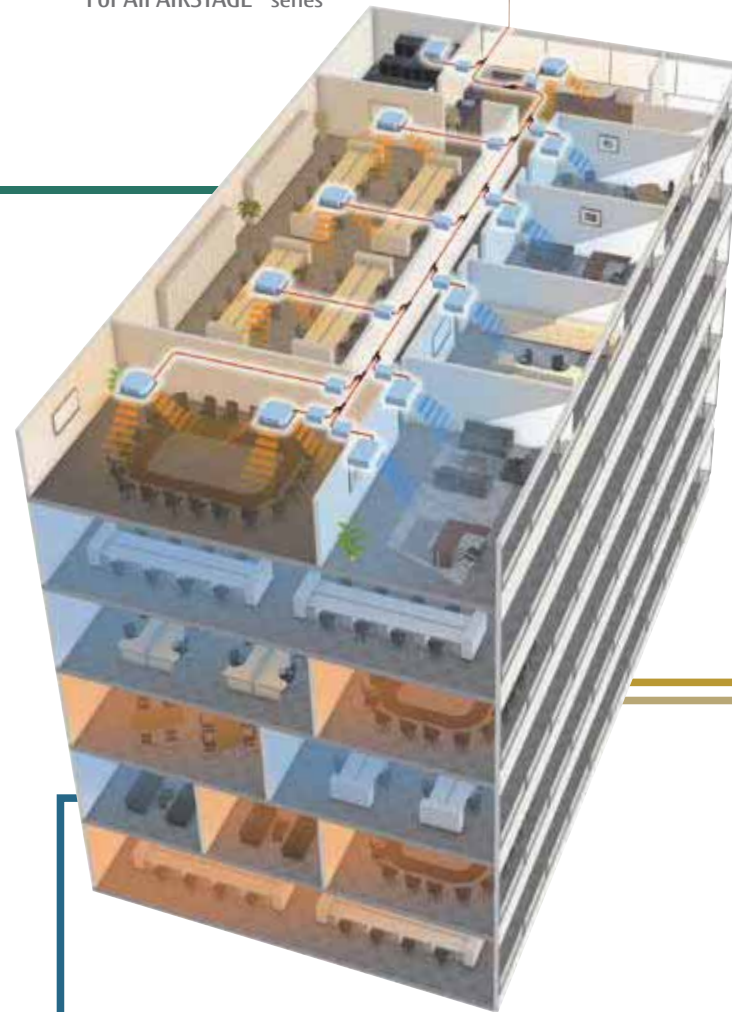


Wireless Remote Controller

UTY-LNHY



For All AIRSTAGE™ series

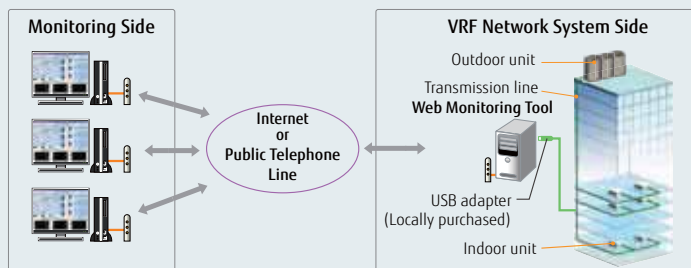


Service & Maintenance Tool

Web Monitoring System

UTY-AMGX

Software



Service Tool

UTY-ASGX

Software

USB Adaptor *2
(Locally purchased)

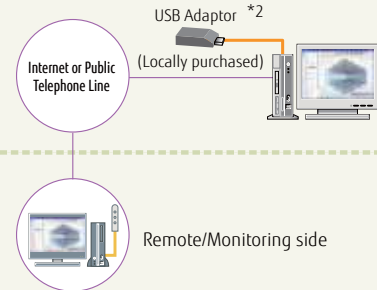


Air Conditioning Centralized Control

System Controller

UTY-APGX
UTY-ALGX (Lite edition)

Software



Touch Panel Controller

UTY-DTGYZ1

NEW

Option

UTY-PTGXA



Central Remote Controller

UTY-DCGY



Group Remote Controller

UTY-CGGY

Network Converter
UTY-VGGXZ1



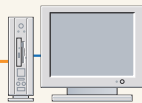
Converter / Adaptor (for external device)

BACnet® Gateway

UTY-ABGX

Software

USB Adaptor *2
(Locally purchased)



Network Converter (BMS/LONWORKS®)

UTY-VLGX



MODBUS® Converter

UTY-VMGX

NEW



MODBUS® Interface

FJ-RC-MBS-1



KNX® Interface

FJ-RC-KNX-1i



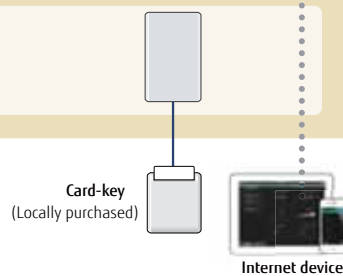
Wireless LAN Interface

FJ-RC-WIFI-1



External Switch Controller

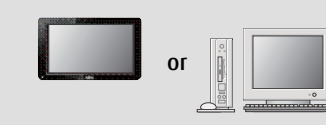
UTY-TEKX



BMS/BAS *1



BMS, Home automation system



*1. BMS/BAS: Building Management System/Building Automation System

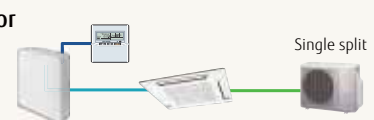
*2. USB Adaptor: Echelon® U10 USB Network Interface

Converter / Adaptor (for system expansion)

Network Converter

UTY-VTGX

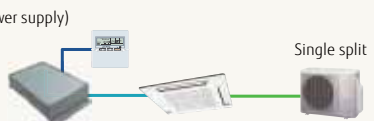
NEW



Network Converter (AC power supply)

UTY-VTGXV

NEW



Network Converter

UTY-VGGXZ1



Signal Amplifier

UTY-VSGXZ1



Comparison table of Controllers

Item										
Model name	UTY-RNRYZ1	UTY-RLRY	UTY-RSKY	UTY-RHKY	UTY-LNHY	UTY-CGGY	UTY-DCGY	UTY-DTGYZ1	UTY-ALGX	UTY-APGX
Max. controllable remote controller groups	1	1	1	1	1	8	100	400	400	1600
Max. controllable indoor units	16	16	16	16	16	128	100	400	400	1600
Max. controllable groups	—	—	—	—	—	—	16	400	400	1600
Air conditioning control function	On / Off	●	●	●	●	●	●	●	●	●
	Operation mode setting	●	●	●	—	●	●	●	●	●
	Fan speed setting	●	●	●	●	●	●	●	●	●
	Room temp. setting	●	●	●	●	●	●	●	●	●
	Room temp. set point limitation	●	●	—	—	—	●	●	●	●
	Test operation	●	●	●	—	—	●	●	—	—
	Up/down air direction flap setting	●	●	—	—	●	—	●	●	●
	Right/left air direction flap setting	●	●	—	—	●	—	●	●	●
	Group setting	—	—	—	—	—	●	●	●	●
	RC prohibition	—	—	—	—	—	●	●	●	●
	Anti freeze setting	●	—	—	—	—	●	●	●	●
	Economy mode setting	●	●	—	—	●	—	●	●	●
	Error	●	●	●	●	—	●	●	●	●
Display	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	—	—	—	—	—	—	—	—	●
	Schedule timer	Period	Week	Week	—	—	Week	Week	Year	Year
Timer		On/off, Temp, Mode, Times per day	8	4	—	—	4	20	20	144
	On/off timer	●	●	—	—	●	—	—	—	—
	Sleep timer	—	—	—	—	●	—	—	—	—
	Program timer	—	—	—	—	●	—	—	—	—
	Auto off timer	●	●	—	—	—	—	—	—	—
	Day off	●	●	—	—	—	—	●	●	●
	Min. unit of timer setting (Minutes)	10 • 30	30	—	—	5	10	10	10	10
Control	Status monitoring system	—	—	—	—	—	—	●	●	●
	Electricity charge apportionment	—	—	—	—	—	—	○	○	●
	Error history	●	●	—	—	—	●	●	●	●
	Emergency stop	—	—	—	—	—	●*2	●*2	—	—
	Remote management	—	—	—	—	—	—	●	○	●
	Energy saving management	—	—	—	—	—	—	—	○	○
	E-mail notification for malfunction	—	—	—	—	—	—	●	●	●
	Key lock	● Child lock	● Child lock	—	—	—	● Child lock	● Password setting	● Password setting	● Password setting

*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-RNRYZ1



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

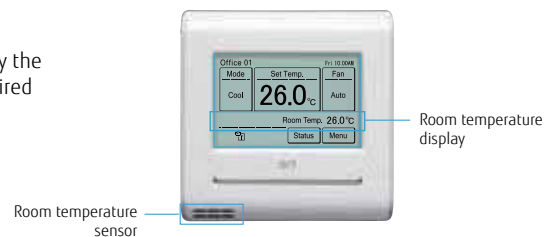
High performance and compact size

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



Accurate and comfortable control

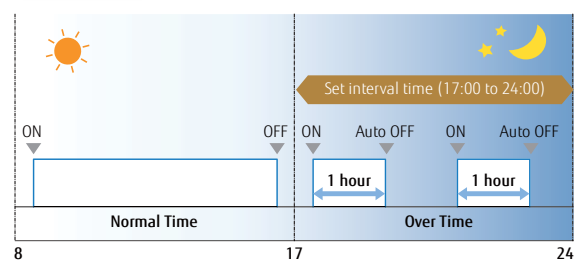
Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired remote controller.



Various energy saving control

Auto OFF timer

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



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

2 schedules Weekly Timer

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

Specifications

Model name	UTY-RNRYZ1
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 20.4
Weight (g)	220
List Price	155

DC12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RLRY



While Stocks Last

Features

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

Max. Controllable
16 indoor units

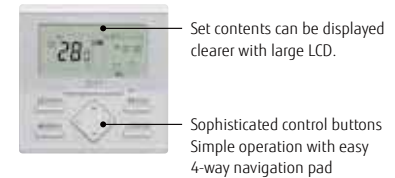
High performance and compact size

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



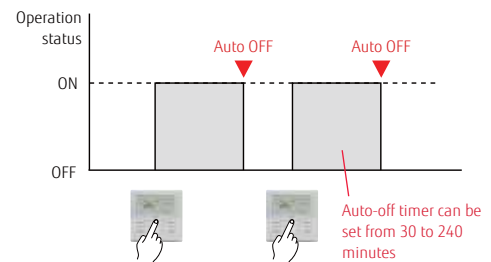
High visibility and easy operation

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



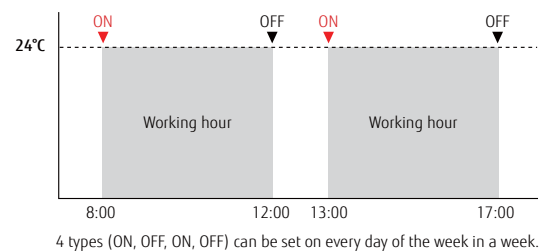
Auto-off timer

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



Weekly timer function

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



Various energy saving control

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

Specifications

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

DC12 V is supplied by the indoor unit.

Simple Remote Controller

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.
- 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.

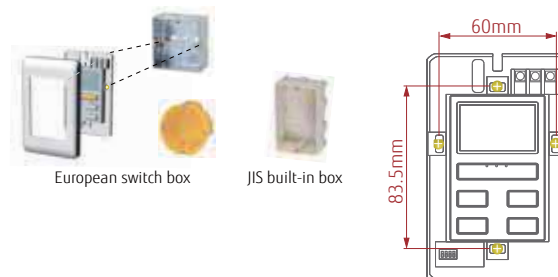
Backlight

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



Simple installation

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



Functions

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

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

Specifications

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

- A single controller controls up to 16 indoor units.

Built-in timers

4 timer programs: On / Off / Program / Sleep

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

Sleep timer: Corrects the set temperature automatically during sleep time

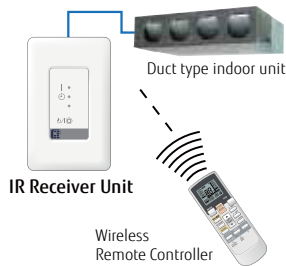
Easy installation and operation

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

Wide and precise transmitting range

IR Receiver Unit

UTB-YWC



Features

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

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

IR Receiver Unit

UTY-LRHYB1



Features

Cassette type indoor unit can be controlled with Wireless Remote Controller

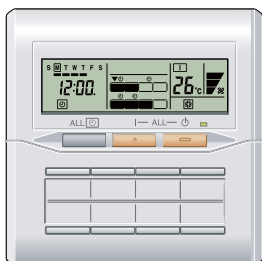
Specifications

Model name	UTY-LNHY	UTB-YWC	UTY-LRHYB1
Battery	1.5 V (R03 / LR03 / AAA) × 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	45	73	73

DC12 V is supplied by the indoor unit.

Group Remote Controller

UTY-CGGY



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 allows up to 4 Group Remote Controllers)
- 3-wire type

Max. Controllable

8

remote controller groups

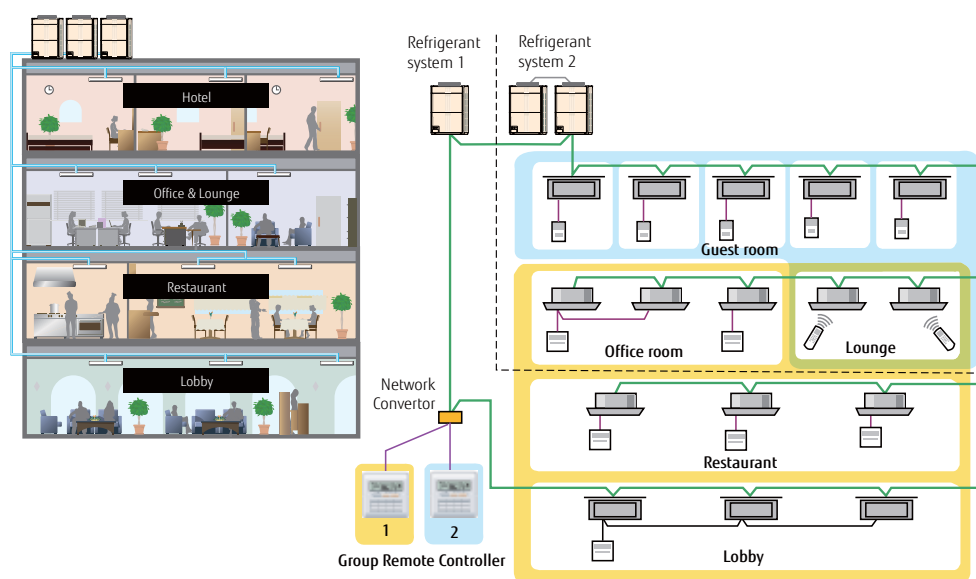
Max. Controllable

64

group R.C. in a VRF network system

Control up to 8 remote controller groups

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



Group Remote Controller 1:
To control office room, lounge, restaurant and lobby (8 remote controller groups)

Group Remote Controller 2:
To control guest room and lounge (7 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	140

DC12 V is supplied by the indoor unit.

Central Remote Controller

UTY-DCGY



Max. Controllable
100 indoor units

Max. Controllable
16 groups

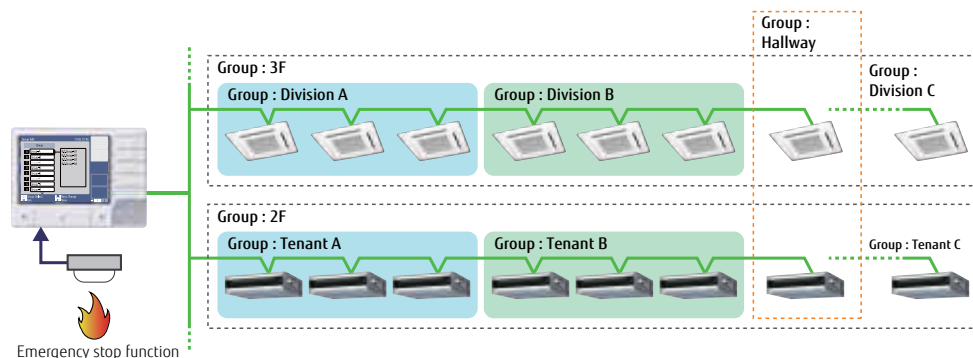
Features

For small- and medium-sized buildings and tenants

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

System overview

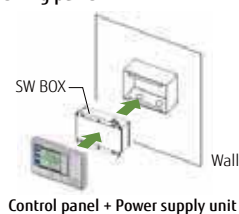
- It allows multiple indoor units grouping (Max.16 groups controlled)
- Interlock with external device



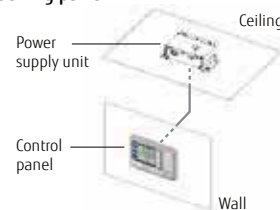
Easy Installation

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

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
List Price	1685	

Touch Panel Controller

UTY-DTGYZ1



Features

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

Max. Controllable
400 indoor units

Max. Controllable
100 outdoor units

Max. Controllable
400 groups

Diverse operation management



Individual control



Flexible grouping



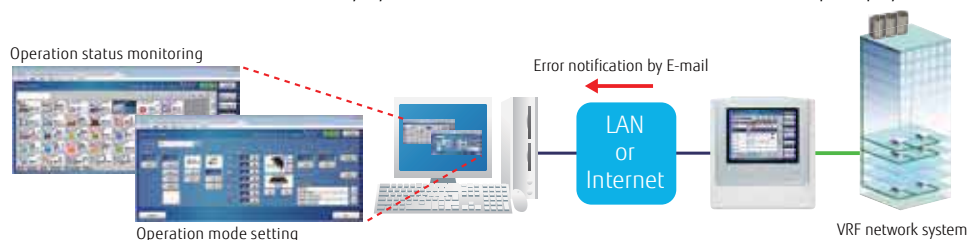
Schedule control



Indoor units operation monitoring

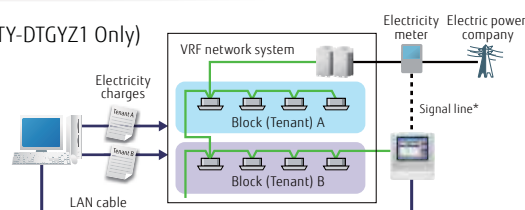
Remote monitoring and operation (UTY-DTGYZ1 Only)

- Air conditioner can be monitored and controlled via LAN from PC.
- Error contents are notified automatically by E-mail at error occurrence to handle the trouble promptly.



Electricity charge apportionment (UTY-DTGYZ1 Only) (Option: UTY-PTGXA)

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



*: Electricity meter (1unit) can be connected to external input connector of the TPC unit.
In this case, electricity meter cannot be connected to outdoor unit simultaneously.

Easy installation

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



Specifications

Model name	UTY-DTGYZ1 NEW	UTY-PTGXA NEW	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	USB 2.0
List Price	3180	196	2703

*Not compatible with UTY-PTGXA

System Controller

UTY-APGX **Software**

Features



Max. Controllable

4 VRF network systems

Max. Controllable

400 outdoor units

Max. Controllable

1,600 indoor units

System Controller realizes the advanced integrated monitoring & control of VRF network system from small scale buildings to large scale buildings.

- Up to a maximum of 4 VRF network systems, 1600 indoor units, and 400 outdoor units can be controlled.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

System Controller Lite

UTY-ALGX **Software**

Features



Max. Controllable

1 VRF network systems

Max. Controllable

100 outdoor units

Max. Controllable

400 indoor units

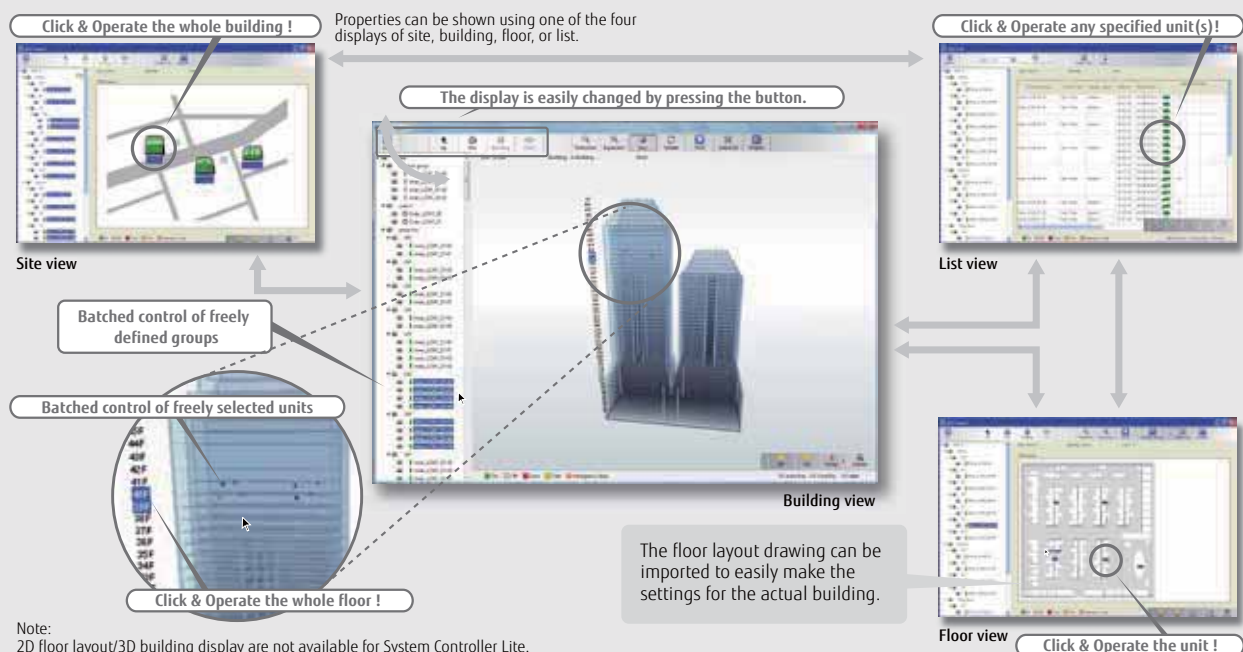
System Controller Lite has standard functions sufficient for air conditioner management in small and medium scale buildings .

- 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)

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.



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. Error for the past 1 year are logged and can be reviewed later.

Operating & control record

Displays the history of operation status and control.

Data base import/export

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

Automatic clock adjustment

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

Electricity charge apportionment

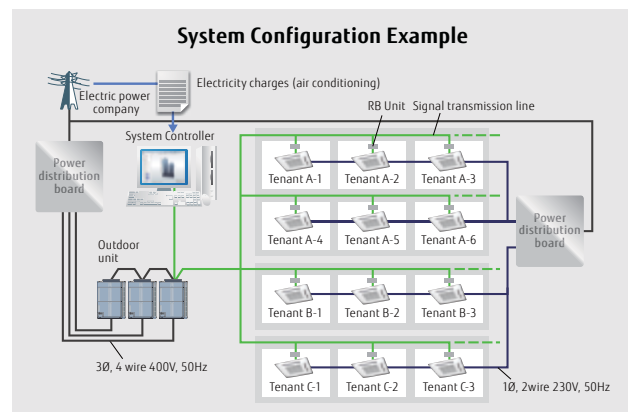
Standard for System Controller

Option for System Controller Lite UTY-PLGXA1

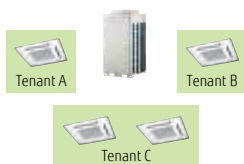
Electricity charge apportionment calculation framework

Suppose you want to find the power consumed by the air conditioners of each tenant from the electricity charge for each month. With electricity charge apportionment function, used energy apportionment ratio will be provided, calculating in detail the energy consumed by the units used by each tenant. This information is then used to calculate the charges for the electricity consumed for air conditioning by each tenant from the total electricity charges in the bill from the electric power company. (See figure at right)

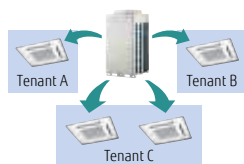
The detailed calculation takes into consideration such things as unused rooms and nighttime electricity charges and shows them in a charges calculation sheet.



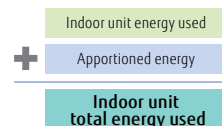
Energy used by each unit is calculated



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

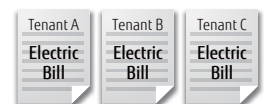


The energy used by each indoor unit and the energy apportioned by the outdoor unit are added together to calculate the total amount of energy used.



Electricity charges by tenant are calculated

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



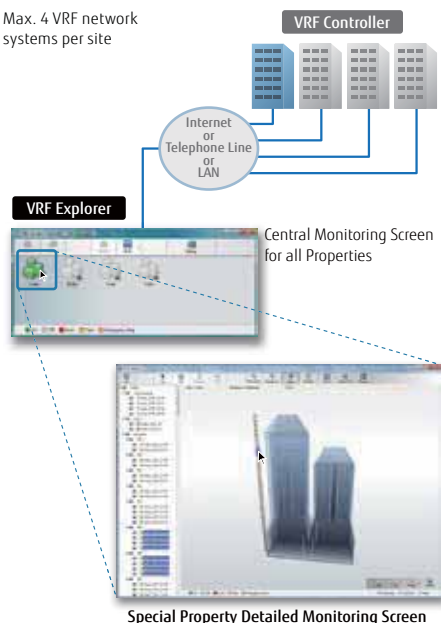
Remote management

- Standard** for System Controller
- Option** for System Controller Lite UTY-PLGXA1

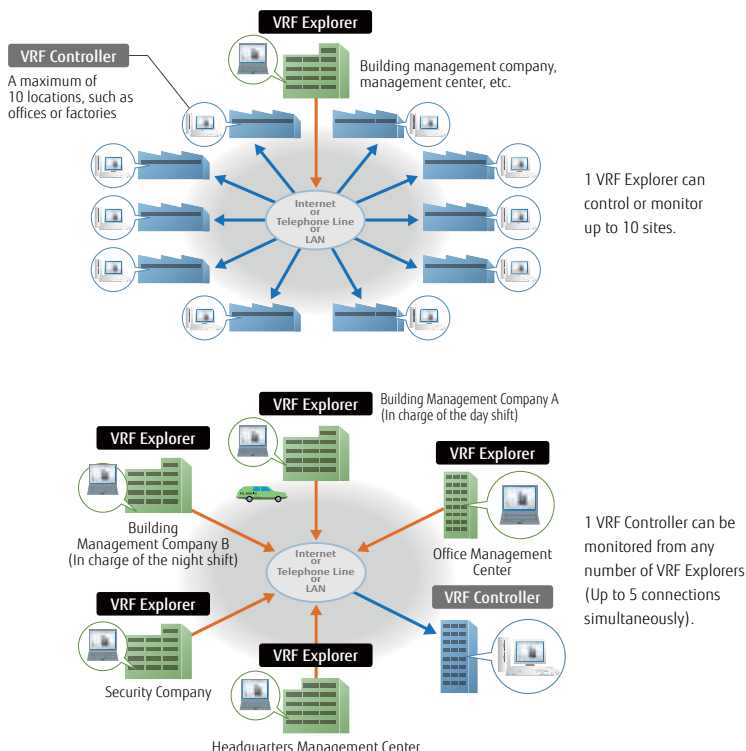
System Controller may be used on site or remotely over various networks for remote central control. System Controller requires 2 softwares working together. VRF Controller runs on site and communicate with VRF system. VRF Explorer runs remotely and provides user interface and communicate with the VRF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

On site central control

Max. 4 VRF network systems per site



Remote central control



Energy saving management

- Option** for System Controller UTY-PEGX
- Option** for System Controller Lite UTY-PLGXE1

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



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 analyze the energy saving effect.

Indoor unit rotation operation

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

Peak cut operation

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

Outdoor unit capacity save

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

FUNCTIONS SUMMARY

Function	Type	System controller					
		UTY-APGX	Option UTY-PEGX	UTY-ALGX	Option UTY-PLGXR1	Option UTY-PLGXA1	Option UTY-PLGXE1
System specification	Max. VRF networks supported	4	-	1	-	-	-
	Max. indoor unit / remote controller groups per VRF network	400	-	400	-	-	-
	Max. outdoor units per System controller	100	-	100	-	-	-
	Max. indoor units / remote controller groups per System controller	1600	-	400	-	-	-
	Max. outdoor units per System controller	400	-	100	-	-	-
Site supervision	Multi site display	10	-	10	-	-	-
	Number of building / 1 site	20	-	-	-	-	-
	Number of floor per 1 site	200	-	-	-	-	-
	Number of floor per 1 building	50	-	-	-	-	-
	3D graphical layout view	○	-	-	-	-	-
	2D graphical layout view	○	-	-	-	-	-
	List display	○	-	○	-	-	-
	Tree display	○	-	○	-	-	-
	Group display	○	-	○	-	-	-
	Error notification	○	-	○	-	-	-
Error management	Audible alarm	○	-	○	-	-	-
	Error e-mail notification	○	-	○	-	-	-
History	Error history	○	-	○	-	-	-
	Operation history	○	-	○	-	-	-
	Control history	○	-	○	-	-	-
Operation control	Individual control	On/Off	○	○	-	-	-
		Operation mode	○	○	-	-	-
		Room temperature	○	○	-	-	-
		Fan speed	○	○	-	-	-
		Air flow direction	○	○	-	-	-
		Economy mode	○	○	-	-	-
		Room temperature set point limitation	○	○	-	-	-
		Test operation	○	○	-	-	-
		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	-	-	-
Remote management	Low noise mode Weekly schedule	○	-	○	-	-	-
	Remote monitoring	○	-	-	○	-	-
	Remote operation control	○	-	-	○	-	-
	Remote function setting	○	-	-	○	-	-
Electricity charge apportionment	Apportionment charge/bill calculation	○	-	-	-	○	-
	Tenant (block) setting	○	-	-	-	○	-
	Common facilities apportionment setting	○	-	-	-	○	-
	Rated power consumption allotment setting	○	-	-	-	○	-
	Individual calculation at cooling and heating	-	○*	-	-	○	-
Energy saving management	Electricity meter supported	-	○	-	-	○	-
	Indoor unit rotation	-	○	-	-	-	○
	Peak cut control	-	○	-	-	-	○
	Outdoor unit capacity save	-	○	-	-	-	○
	Record of energy saving operation	-	○	-	-	-	○
	Energy saving information	-	○	-	-	-	○
	Power consumption monitor	-	○	-	-	-	○
Others	Electricity meter supported	-	○	-	-	-	○
	Database import/export	○	-	○	-	-	-
	Automatic clock adjustment	○	-	○	-	-	-
	Multi language	7 languages	-	7 languages	-	-	-

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

○: Available. - : Not available.

Personal computer system requirements

	System Controller	System Controller Lite
Operating system	• Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8 (32-bit or 64-bit), Windows® 8 Pro (32-bit or 64-bit) • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • 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, 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 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 5 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 4 USB ports are required for WibuKey connection - 1 USB port is required for Echelon® U10 USB Network Interface * The maximum number of required USB port depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	
Software	Adobe® Reader® 9.0 or later	
Optical drive	DVD-ROM drive	

• Personal computer that satisfies the following system requirements

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

PACKING LIST

Type	For System controller		For System controller Lite			
	System Controller	Option Energy manager	System Controller Lite	Option Remote access	Option Electricity charge apportionment	Option Energy saving
Model name	UTY-APGX	UTY-PEGX	UTY-ALGX	UTY-PLGXR1	UTY-PLGXA1	UTY-PLGXE1
DVD-ROM	1	1	1	—	—	—
WibuKey*1(Software protection key)	1	1	1	1	1	1
List Price	5714	2350	2350	850	700	850

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

System Controller or System Controller Lite may only run on a PC with Wibu Key. However, WibuKey is not required for remote VRF Explorer software.

BACnet® Gateway

UTY-ABGX Software



DVD-ROM
(Software)



Software
Protection Key



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Max. Controllable

4

VRF network
systems

Max. Controllable

400

outdoor units

Max. Controllable

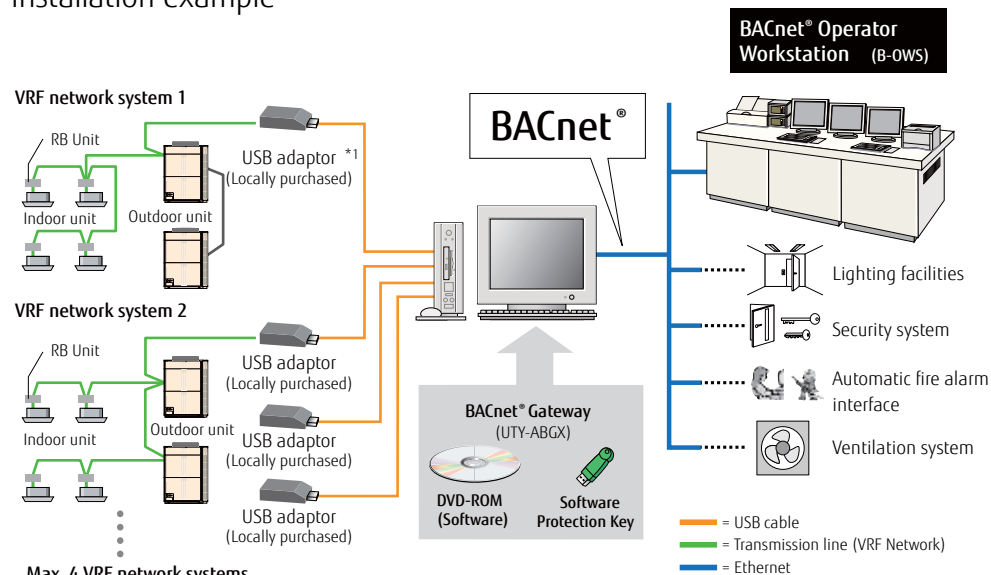
1,600

indoor units

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-135-2004) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.
- Scheduling function, Alarm & Event functions as well as Electricity Change Apportionment function are provided in BACnet® Gateway.
- Connection between VRF network system to personal computer is possible via small U10 USB interface. However, both U10 USB interface & personal computer are locally purchased items.
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.

Installation example



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

Personal computer system requirements

	UTY-ABGX
Operating system	• Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8 (32-bit or 64-bit), Windows® 8 Pro (32-bit or 64-bit) • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • 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, 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 WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB ports depends on the applicable system configurations.
Software	Adobe® Reader® 9.0 or later
Optical drive	DVD-ROM drive

Packing list

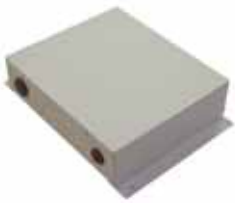
Name and shape	Quantity
DVD-ROM	1
WibuKey (Software protection key)	1
List Price	2993

• Personal computer that satisfies the following system requirements

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

Network Converter for LONWORKS®

UTY-VLGX



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®**

Max. Controllable

4 units to BMS

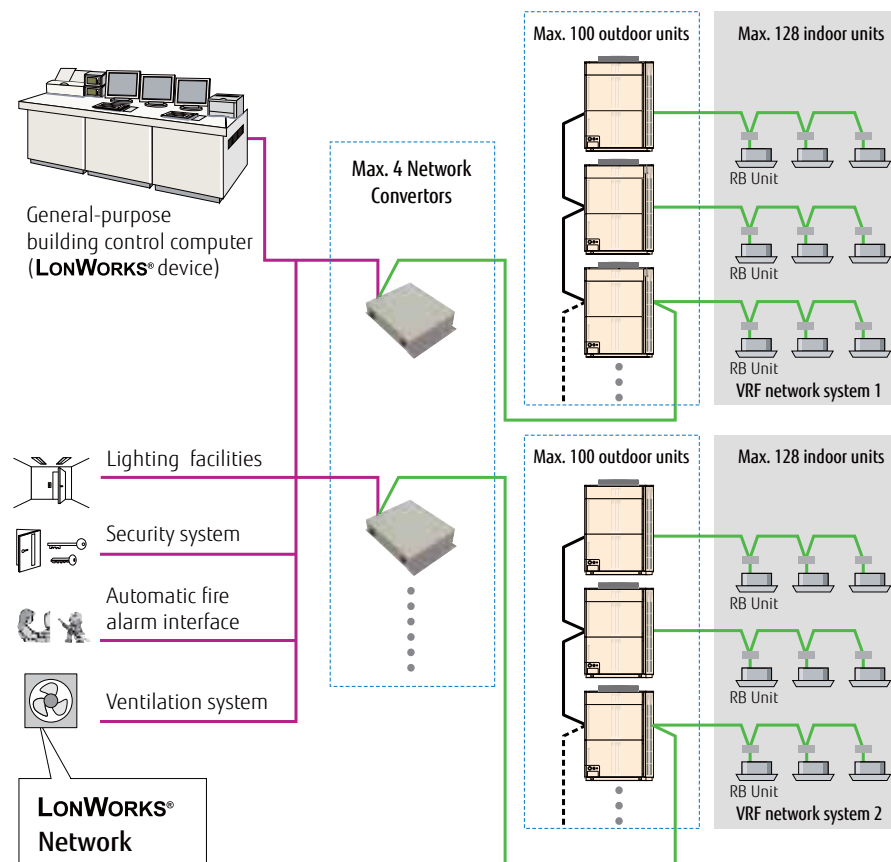
Max. Controllable

100 outdoor units

Max. Controllable

128 indoor units

Installation example



Specifications

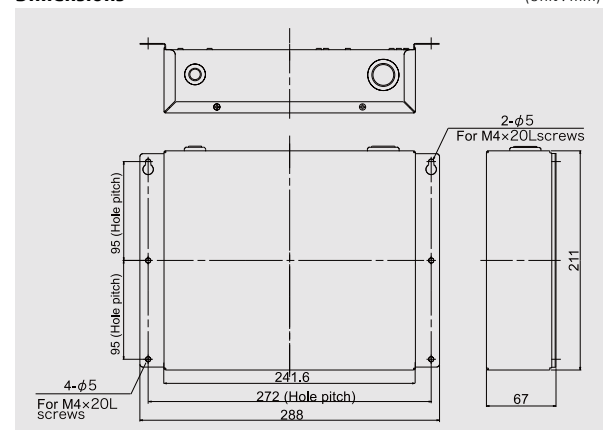
Model name	UTY-VLGX
Power Supply	208-240V 50/60Hz, Single phase
Power Consumption (W)	4.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500
List Price	2993

Transmission specifications (BMS side)

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

Dimensions

(Unit : mm)



UTY-VMGX



Features

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

- Compact and lightweight design
- Direct connection to MODBUS Network
- Up to 128 indoor units can be controlled in one MODBUS Convertor
- The MODBUS Convertor permits central monitoring and control of air conditioners from BMS or Central Controller.

Max. Controllable

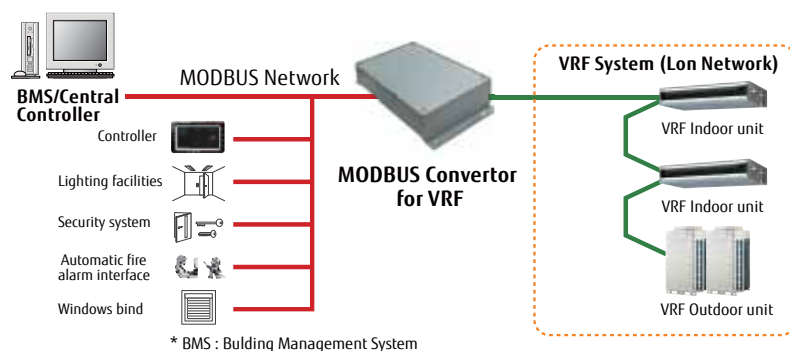
9 units to one VRF

Max. Controllable

100 outdoor units

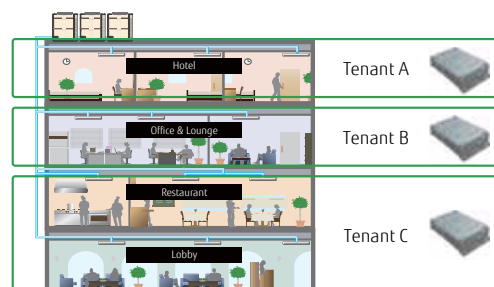
Selectable

128 indoor units



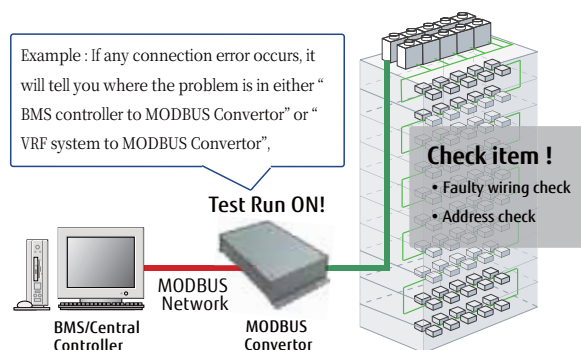
Connectable MAX 9

Up to 9 convertors can be connected to a VRF network. The simultaneous controls such as ON/OFF or temperature settings can be done for each zone.



Traceability of sources of connection error

It is easy to locate the source of error if any connection errors should occur after completion of installation works.



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	510

MODBUS® Interface

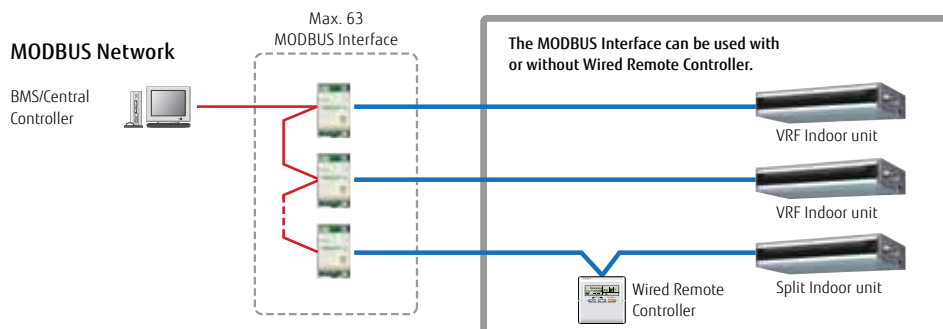
FJ-RC-MBS-1



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.



KNX® Interface

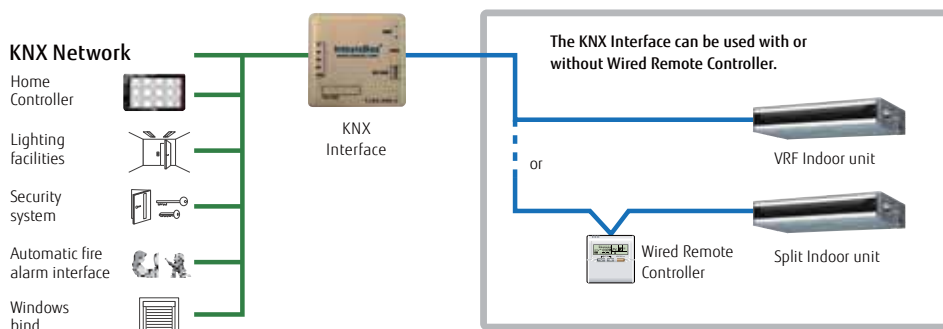
FJ-RC-KNX-1i



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	FJ-RC-MBS-1
Dimensions (H × W × D) (mm)	93×53×58
Weight (g)	85
List Price	225

Model name	FJ-RC-KNX-1i
Dimensions (H × W × D) (mm)	70×70×28
Weight (g)	70
List Price	255

Wireless LAN Interface

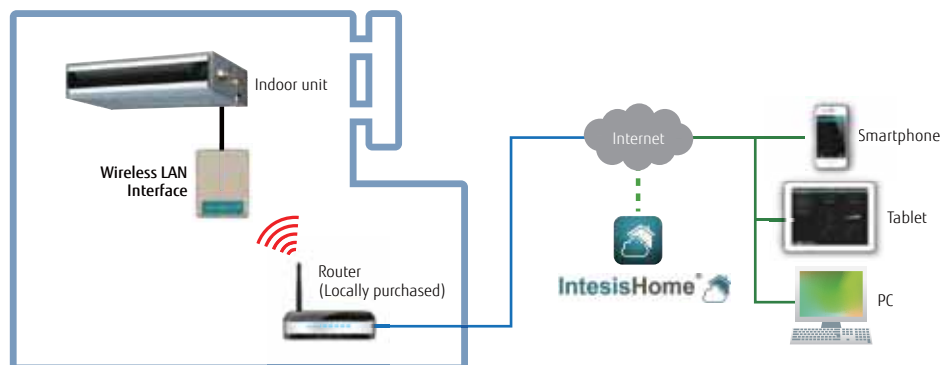
FJ-RC-WIFI-1



Features



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



Basic control

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



(Application screen image)

Advanced control (Optional functions)

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

Notifications and history

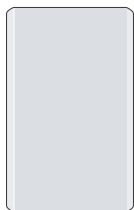
- Alerts e-mail notification (future release)
- Air conditioning malfunction alerts
- Connectivity monitoring and alerts
- History (future release)

Specifications

Model name	FJ-RC-WIFI-1
Dimensions (H × W × D) (mm)	70×108×28
Weight (g)	80
List Price	225

External Switch Controller

UTY-TEKX



Features

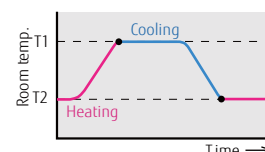
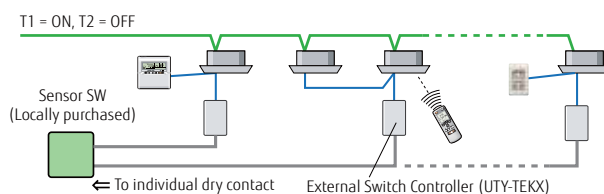
Air conditioner switching can be controlled by connecting other sensor switches

- 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 a locally purchased parts.

Installation example

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

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

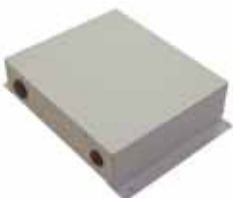


Note 1.
Please choose a thermosensor switch which can be set up for T1 and T2.

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

Signal Amplifier

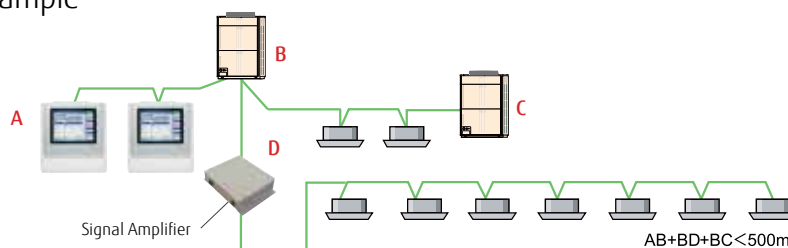
UTY-VSGXZ1



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-TEKX
Power Supply	DC 12V
Dimensions (H × W × D) (mm)	120 × 75 × 30
Weight (g)	100
List Price	87

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	701

Network Convertor 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

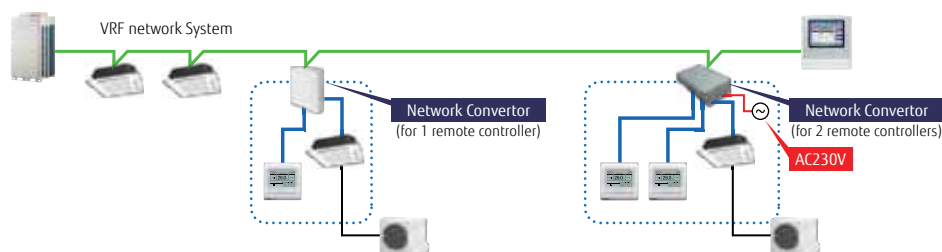
Network Convertors

Features

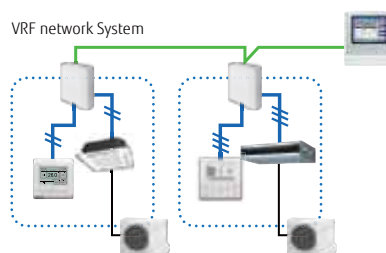
- The network convertors are required when connecting single split system to VRF network system.
- Compact and light weight design
- Connectable to both types of 2-wire and 3-wire remote controllers

Installation example.

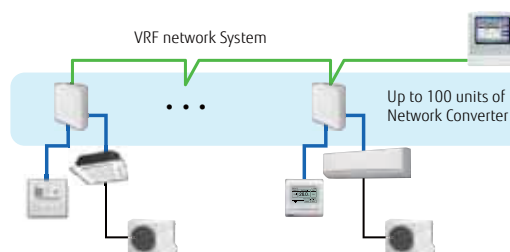
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60Hz) is required for 2 remote controllers type.



- 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)

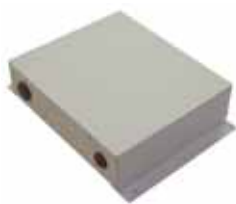


Specifications

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	411		562

Network Convertor for Group Remote Controller

UTY-VGGXZ1

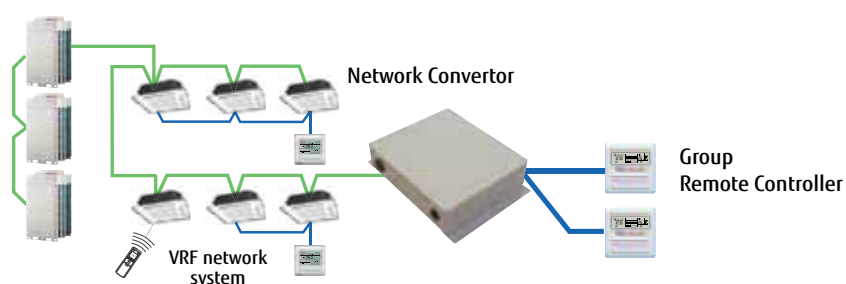


Features

- This network convertor is required when connecting Group Remote Controller to VRF network system.

Installation example

- 4 Group Remote Controllers can be connected to a single network convertor.
- 2 refrigerant circuits can be covered by a single network convertor.
- Up to a total of 16 network convertors and central remote controller adaptors can be connected in a single VRF network system.



Max. Controllable

16

Network
Convertor units

Max. Controllable

4

Group Remote
Controllers

Specifications

Model name	UTY-VGGXZ1
Power Supply	208-240V 50/60Hz, Single phase
Power Consumption (W)	6.5
Dimensions (H × W × D) (mm)	67 x 288 x 211
Weight (g)	1,500
List Price	438

Web Monitoring Tool

UTY-AMGX **Software**

Features

VRF network system
can be supported

4

Max. Monitor and control

400

outdoor units

1,600

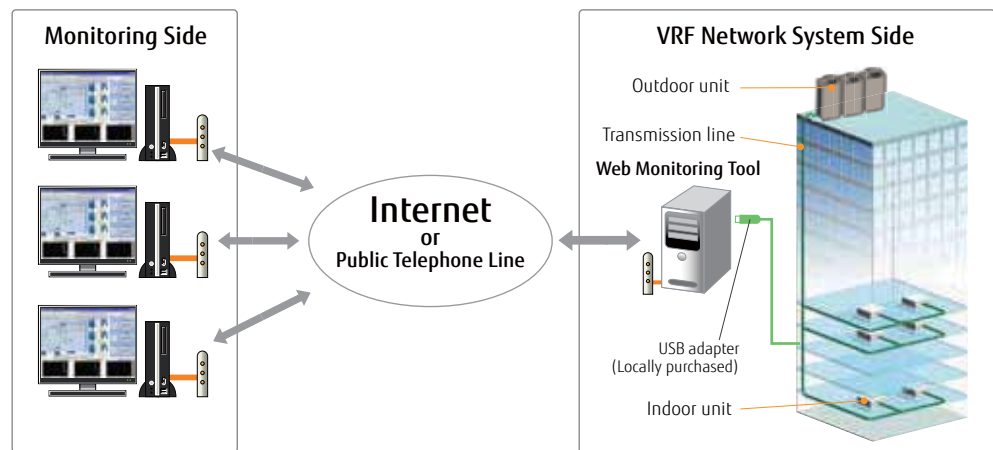
indoor units
can be supported

Product features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet*1.
- Requires either a dedicated internet connection or public telephone line.
- Determination of an error occurrence can be made through error warnings and equipment status information obtained from a remote location.
- The monitoring data in a remote side can be optionally downloaded. And, this data can be displayed in offline mode of the service tool.
- Monitoring side computer is not required to install special software, requires only general web browser.

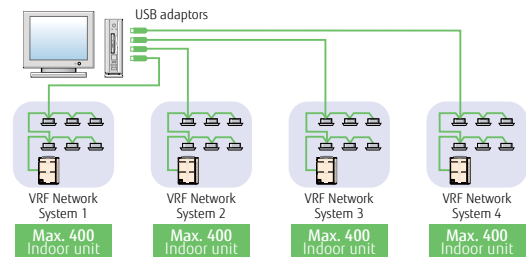
*1: Use of internet mail system required.

Web Monitoring System



Support 4 VRF network systems

USB adaptor (max. 4 adaptors per PC) permit,
monitoring of up to 1,600 indoor units.
Suitable for large-scale buildings or hotels.



Personal computer system requirements

UTY-AMGX	
Operating system	• Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8 Pro (32-bit or 64-bit) • Microsoft® Windows® 8.1 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 [32-bit], and Windows® 8.1 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8 [64-bit], and Windows® 8.1 [64-bit])
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 5 ports) - 1 USB port is required for WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB ports depends on the applicable system configurations.
Software	Internet Explorer® 8, 9, 10 or 11 / Adobe® Reader® 9.0 or later
Optical drive	DVD-ROM drive

Packing list

Name and shape	Quantity
DVD-ROM	1
WibuKey (Software protection key)	1
List Price	700

• 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.)

Service Tool

UTY-ASGX Software



Max. Monitor and controll

100

outdoor units

Max. Monitor and controll

400

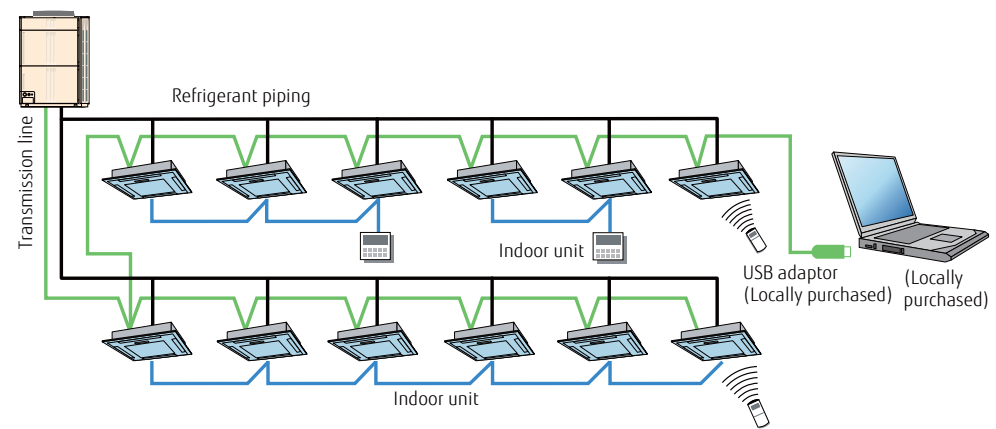
indoor units

Features

Extensive monitoring and analysis functions for installation and maintenance

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

Wiring connection



Functions

•Equipment Detail (Diagram)



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

Personal computer system requirements

	UTY-ASGX
Operating system	• Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8 Pro (32-bit or 64-bit) • Microsoft® Windows® 8.1 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 [32-bit], and Windows® 8.1 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8 [64-bit], and Windows® 8.1 [64-bit])
HDD	10 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	• 2 USB ports - 1 USB port is required for WibuKey connection - 1 USB port is required for Echelon® U10 USB Network Interface
Software	Internet Explorer® 8, 9, 10 or 11 / Adobe® Reader® 9.0 or later
Optical drive	DVD-ROM drive

Packing list

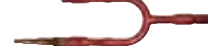
Name and shape	Quantity
DVD-ROM	1
WibuKey (Software protection key)	1
List Price	700

- 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 FOR VRF

Connection Units

Separation Tube

Gas Pipe  Liquid Pipe  UTP-AX054A £51	Gas Pipe  Liquid Pipe  UTP-AX090A £59	Gas Pipe  Liquid Pipe  UTP-AX180A £87	Gas Pipe  Liquid Pipe  UTP-AX567A £151
Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe  UTP-BX090A £64	Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe  UTP-BX180A £92	Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe  UTP-BX567A £156	For DX-Kit  UTP-LX180A £87

Header

Gas Pipe  Liquid Pipe  UTR-H0906L / UTR-H1806L £157	Gas Pipe  Liquid Pipe  UTR-H0908L / UTR-H1808L £161	Gas Pipe  Liquid Pipe  UTP-CX567A £151
Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe  UTP-J0906A £210 / UTP-J1806A £215	Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe  UTP-J0908A £220 / UTP-J1808A £225	Suction Gas Pipe  Discharge Gas Pipe  Liquid Pipe  UTP-DX567A £156

EV Kit

For Compact Wall Mounted type  Model code ≤ 09 : UTR-EV09XB £68 Model code ≤ 12 : UTR-EV14XB £68
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RB Unit

Single type  UTP-RX01AH £324 / UTP-RX01BH £358 UTP-RX01CH £411	Multi type  UTP-RX04BH £1293
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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	51	59	87	151

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	64	92	156

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
List Price		157 / 161	159 / 164

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		210 / 220	215 / 225

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		151	156

EV Kit

Model name	UTR-EV09XB	UTR-EV14XB
Application model	ASYE04GACH ASYE07GACH ASYE09GACH	ASYE12GACH ASYE14GACH
List Price	68	68

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	$Q \geq 8.0$	$Q \leq 18.0$	$Q \leq 28.0$	$Q \leq 56.1^{*1}$
Maximum capacity of connectable indoor units per branch (Q)	kW	$Q \geq 8.0$	$Q \leq 18.0$	$Q \leq 28.0$	$Q \leq 18.0$
Maximum number of connectable indoor units per branch		3	8	8	8
Dimensions (H×W×D)	mm	198×298×268			260×658×428
List Price		324	358	411	1293

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

Controllers

For Individual Control

Wired Remote Controller (Touch Panel) £155
UTY-RNRYZ1 **NEW**



Wired Remote Controller £120
UTY-RLRY



Simple Remote Controller £80
UTY-RSKY
With operation mode



Simple Remote Controller £75
UTY-RHKY
Without operation mode



Wireless Remote Controller £45
UTY-LNHY



IR Receiver Unit £73
UTB-YWC
For All Duct types except Large Airflow Duct



IR Receiver Unit £73
UTY-LRHYB1
For Cassette type



For Centralized Control

Group Remote Controller £140
UTY-CGGY



Central Remote Controller £1685
UTY-DCGY



Touch Panel Controller
UTY-DTGYZ1 **NEW**
£3180
UTY-DTGY
£2703
Option
UTY-PTGXA
£196



System Controller Lite **Software** £2350
UTY-ALGX

Option
UTY-PLGXA1
£700
UTY-PLGXR1
£850
UTY-PLGXE1
£850



System Controller **Software** £5714
UTY-APGX

Option
UTY-PEGX
£2350



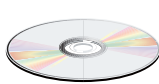
USB Adaptor (Field supplied) £450
USB75010R
For system controllers



Convertors / Adaptors

For External device

BACnet® Gateway Software £2993
UTY-ABGX



DVD-ROM
(Software)

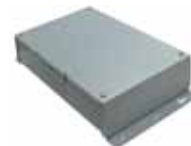


Software
Protection Key

**Network Converter
for LONWORKS®** £2993
UTY-VLGX



MODBUS® Converter for VRF £510
UTY-VMGX NEW



MODBUS® Interface £225
FJ-RC-MBS-1



KNX® Interface £255
FJ-RC-KNX-1i



Wireless LAN Interface £225
FJ-RC-WIFI-1

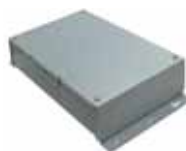


For System expansion

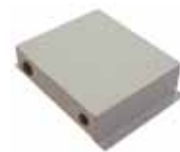
Network Converter for single split
UTY-VTGX NEW £411



Network Converter for single split
UTY-VTGXV NEW £562
AC power supply type



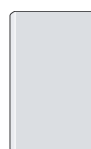
Network Converter for Group Remote Controller
UTY-VGGXZ1 £438



Signal Amplifier £701
UTY-VSGXZ1



External Switch Controller £87
UTY-TEKX



Panels

For Cassette type

Cassette Grille £151
UTG-UFYC-W
For Compact Cassette type



Cassette Grille £160
UTG-UGYA-W
For Cassette type



For Duct type

Flange (Round) £30 UTD-RF204 For Medium Static Pressure Duct type / Ceiling type 	Flange (Square) £40 UTD-SF045T For Medium Static Pressure Duct type 	Remote Sensor Unit £54 UTY-XSZX For All Duct type New amenity space can be offered by installing the Remote sensor. 
Long-Life Filter UTD-LF25NA £91 For Medium Static Pressure Duct type 	UTD-LF60KA £91 For High Static Pressure Duct type 	Auto Louver Grille Kit UTD-GXTA-W (for ARXD04/07/09/12/14GALH) £130 UTD-GXTB-W (for ARXD18GALH) £145 UTD-GXTC-W (for ARXD24GALH) £180 For Slim Duct type 
		Drain Pump Unit UTZ-PX1NBA £60 For Medium Static Pressure Duct type 

For Cassette type

Fresh Air Intake Kit £280 UTZ-VXAA For Compact Cassette type 	Fresh Air Intake Kit £350 UTZ-VXRA For Cassette type 
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For Ceiling type

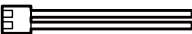
Drain Pump Unit £45 UTR-DPB24T For Ceiling type 	Flange (Round) £30 UTD-RF204 For Medium Static Pressure Duct type / Ceiling type 
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Service

Service Tool Software £700 UTY-ASGX 	USB Adaptor (Field supplied) £450 USB75010R For system controllers 	Outdoor Unit £POA Strip and Re-build Service (Terms and conditions apply)
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Others

Communication system: External Connect Kit

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

VENTILATION



Effective heat exchange and simultaneous fresh air ventilation

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

Airflow rate (m³/h)	250	350	500	800	1000	1500	2000
Energy Recovery Ventilator Page 202	 UTZ-80025B	 UTZ-80035B	 UTZ-80050B	 UTZ-80080B	 UTZ-80100B		
Outdoor Air Unit Page 204					 AR08054CTAH	 AR18072CTAH	 AR28096CTAH

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 206	 ISV unit UTP-VX30A	 Control unit UTY-VDCX		 ISV unit UTP-VX80A	 Control unit UTY-VDCX		 ISV unit UTP-VX30A	 Control unit UTY-VDCX	 ISV unit UTP-VX30A x 2	 Control unit UTY-VDCX

136 Energy Recovery Ventilator

138 Outdoor Air Unit

140 DX-Kit for air handling applications

Optional Hard-wired Controller Interface

UTI-ERV

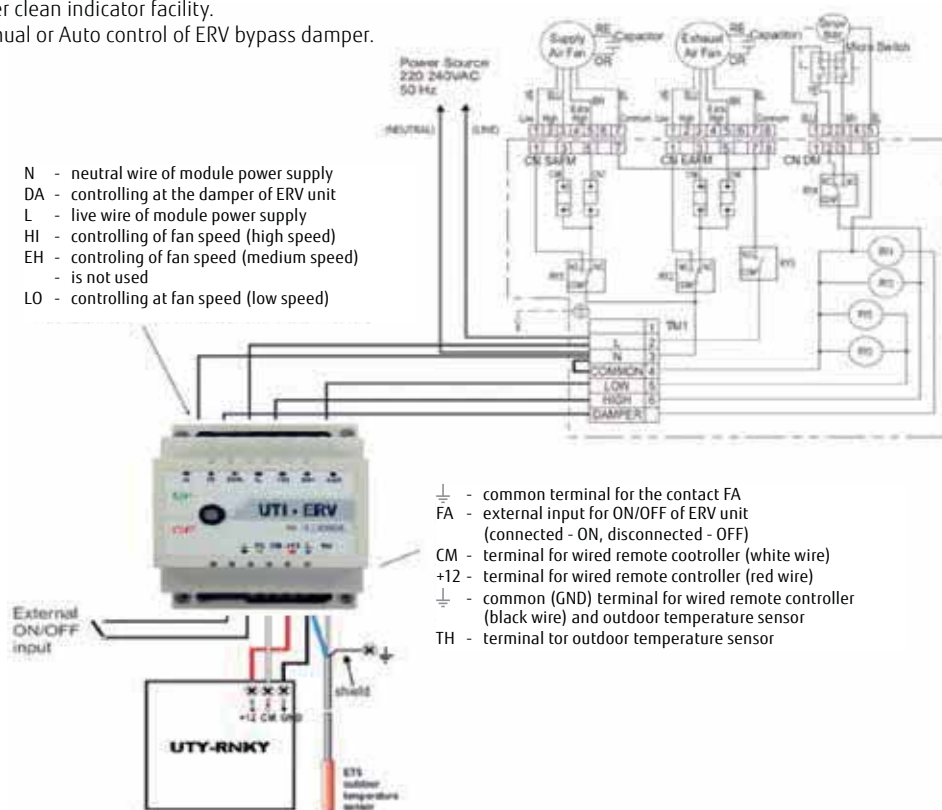
Features

In order to use a Fujitsu hard-wired controller c/w time clock with the ERV units an interface is required. The UTI-ERV interface provides the following features:-

- UTI-ERV interface supplied with 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 remote controller - Hi/Low (ERV HI/low fan speeds can also be changed by re-configuring the tapings on the fan motors).
- Controller has an integral 7 day programmable time clock.
- HW Controller has built-in room temperature sensor and temperature selection.
- Filter clean indicator facility.
- Manual or Auto control of ERV bypass damper.

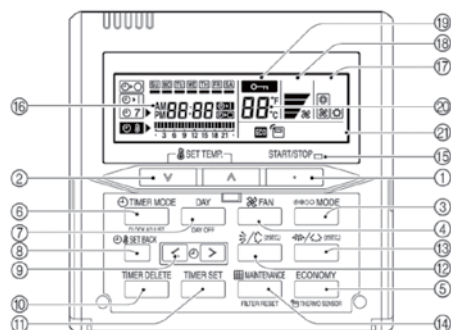
Wired Diagram

- N - neutral wire of module power supply
- DA - controlling at the damper of ERV unit
- L - live wire of module power supply
- HI - controlling of fan speed (high speed)
- EH - controlling of fan speed (medium speed)
- is not used
- LO - controlling at fan speed (low speed)



- ⊥ - common terminal for the contact FA
- FA - external input for ON/OFF of ERV unit (connected - ON, disconnected - OFF)
- CM - terminal for wired remote controller (white wire)
- +12 - terminal for wired remote controller (red wire)
- ⊥ - common (GND) terminal for wired remote controller (black wire) and outdoor temperature sensor
- TH - terminal for outdoor temperature sensor

Description of the buttons of remote controller*



- 1 Start/Stop Button
- 2 Set Temperature Button
- 3 Master Control Button
- 4 Fan Control Button
- 5 Recovery ventilator ON/OFF
- 6 Timer Mode (CLOCK ADJUST) Button
- 7 DAY (DAY OFF) Button
- 8 SET BACK Button
- 9 Set Time Button
- 10 DELETE Button
- 11 SET Button
- 12 N/A13 N/A
- 14 Filter Button
- 15 Operation Lamp
- 16 Timer and Clock Display
- 17 Operation Mode Display
- 18 Fan Speed Display
- 19 Operation Lock Display
- 20 Temperature Display
- 21 Function Display

⊥ DELETE Button

UTY-RNKY



Specifications

Model name	UTI-ERV	UTY-RNKY
Power Supply	208-240V 50/60Hz, Single Phase	from UTI-ERV
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	352	80

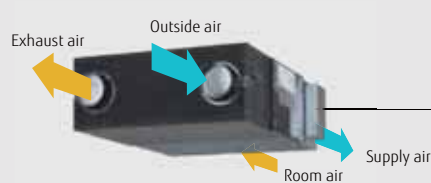
*UTY-RNKY to be ordered separately

Energy Recovery Ventilator

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

Features

Adopts a highly efficient counter-flow heat exchange element



Heat exchange ventilation and normal ventilation

Heat exchange ventilation

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

Normal ventilation

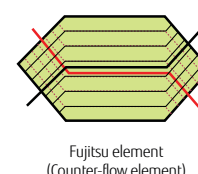
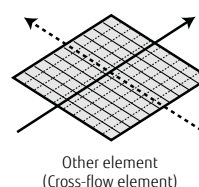
The operation is used during periods when the room space requires no cooling or heating effect, i.e. when there is minimal temperature difference between the indoor and outdoor environments.

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

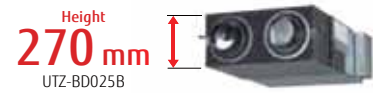
Significantly reducing low pressure loss and noise allows low-noise operation.

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 of buildings.

Slim shape and easier installation

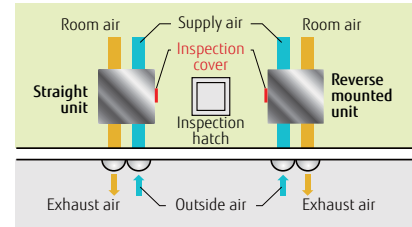
Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.



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

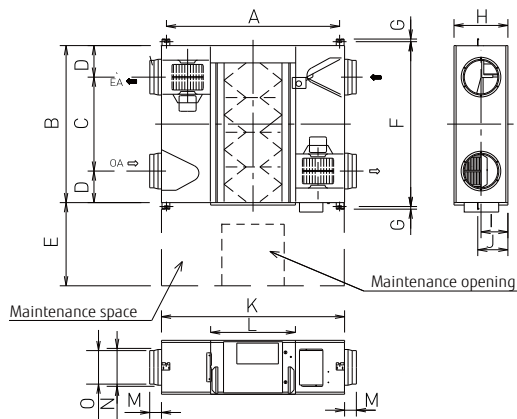
Specifications

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
	External static pressure	(Extra high)/High/Low	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	37.5 / 37 / 34.5	40.5 / 39.5 / 36.5	
Dimensions		W×D×H	mm	882 x 599 x 270	1050 x 804 x 317	1090 x 904 x 317	1322 x 884 x 388	1322 x 1134 x 388
Weight			kg	29	49	57	71	83
Outlet duct diameter			mm	150	150	200	250	250
Operation range			℃	-10 to 40	-10 to 40	-10 to 40	-10 to 40	-10 to 40
Maximum humidity			%	85	85	85	85	85
List Price				680	840	1080	1570	1780

* 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

Outdoor Air Unit

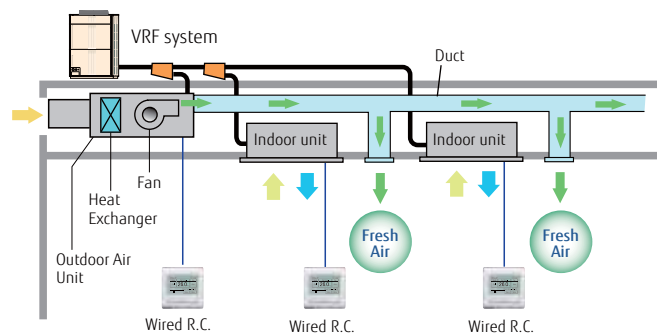
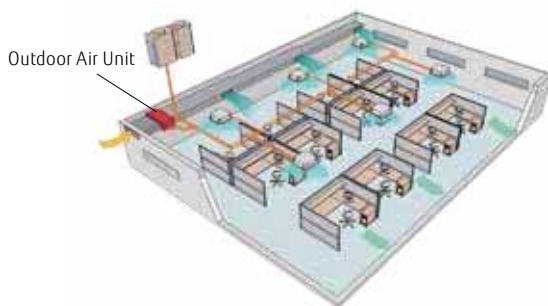
The heat pump method efficiently processes the outdoor air for cooling and heating and supplies 100% fresh air into a room.

Features

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

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

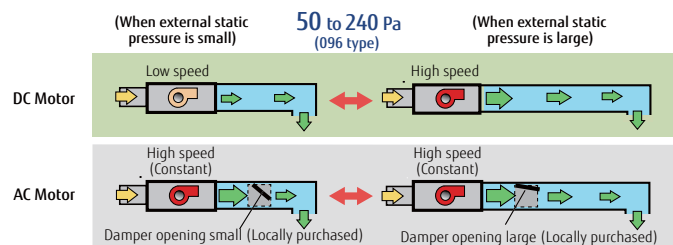
*1. Connectable VRF series: J-IIS, J-II, V-II, VR-III In J-II series alone, OAU is prohibit to connect under the ambient temperature of 40°C or higher.



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

High energy savings and flexible duct design by using DC motor

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



Top class compact design

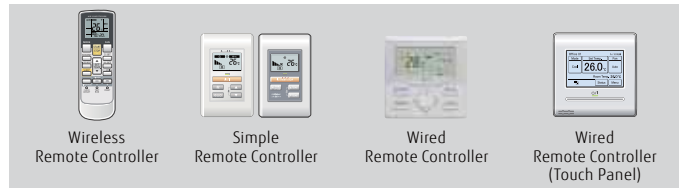
- Top class lightweight compact design at just 425 mm in height, 55 kg in weight for ARXH072 type. This unit can be installed easily even at narrow space.



Various Controller

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

Individual Controller



Central Controller



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

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		8.9	13.9	17.4
Input Power		W	179	292	370
Airflow Rate	Cooling/Heating	m³/h	1,080	1,680	2,100
		l/s	300	466	583
Static Pressure	Standard (range)	Pa	185 (50-185)	200 (50-200)	200 (50-240)
Sound Pressure Level		dB (A)	42	44	47
Dimensions (H x W x D)		mm	425×1,367×572	425×1,367×572	450×1,583×700
Weight		kg	48	55	71
Connection Pipe Diameter (Small / Large)		mm	Ø9.52/Ø19.05	Ø12.70/Ø22.22	Ø12.70/Ø22.22
Operation Range	Cooling	°CDB	5 to 43	5 to 43	5 to 43
	Heating		-7 to 21	-7 to 21	-7 to 21
Refrigerant			R410A	R410A	R410A
List Price			2385	3854	4075

Note : Specifications are based on the following conditions.

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

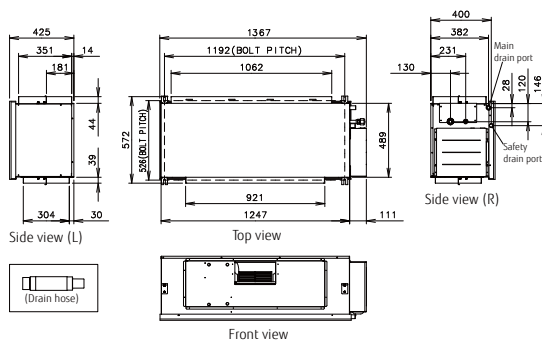
Pipe length : 7.5 m Voltage : 230 [V].

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

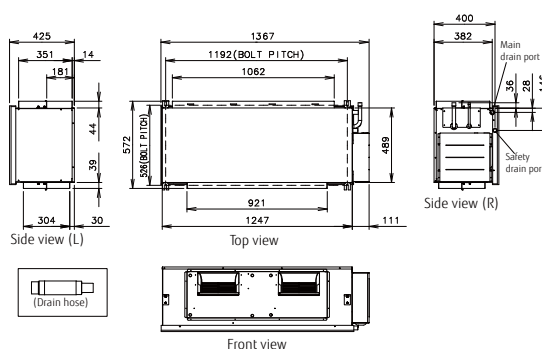
Dimensions

(Unit : mm)

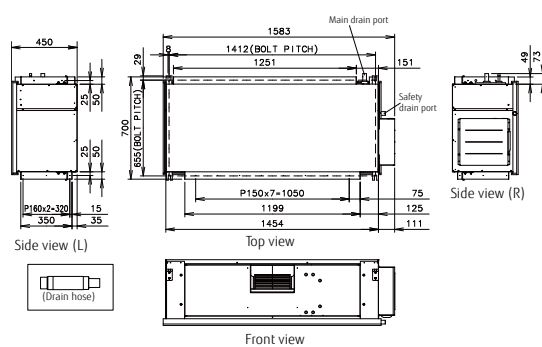
ARXH054GTAH



ARXH072GTAH



ARXH096GTAH

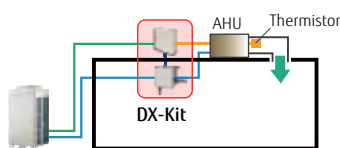


DX-Kit For Air Handling Applications

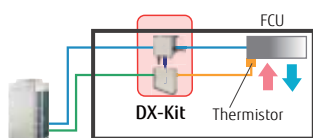
These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or, be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).

Features

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

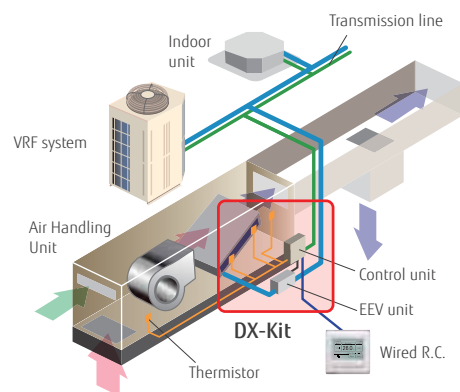


When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.



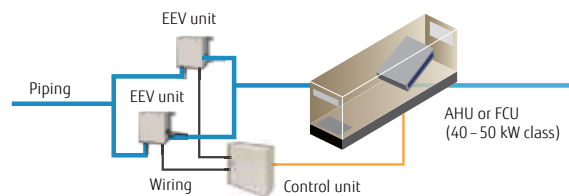
When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

Arrangement as part of a VRF system



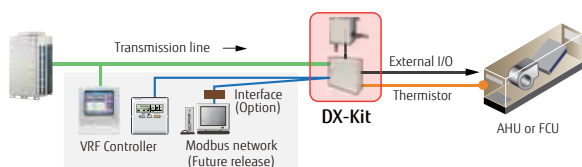
Supports a wide range of capacity classes

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

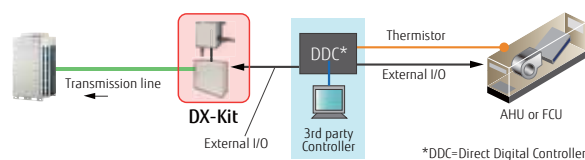


A variety of controls to match the application

Central control using our VRF controllers or central management controllers



Central control from external controllers



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.

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

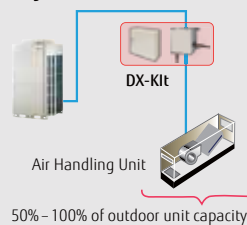


Installation Limitation

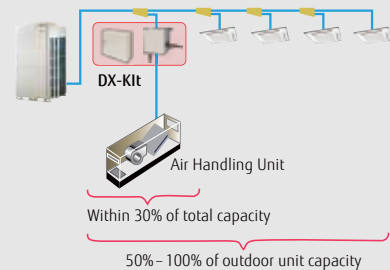
- Connectable VRF series: J-IIS, J-II, V-II, VR-II
- Connectable DX-Kit system capacity range: 50 to 100% of the outdoor unit capacity
- Connectable DX-Kit system capacity range with indoor units: 30% or less of the outdoor unit capacity
- Max. wiring length from control unit: 10 m
- Max. piping length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

Connectable capacity

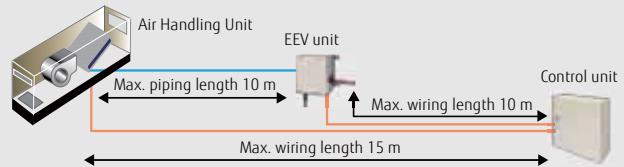
• Single connection



• Mixed connection

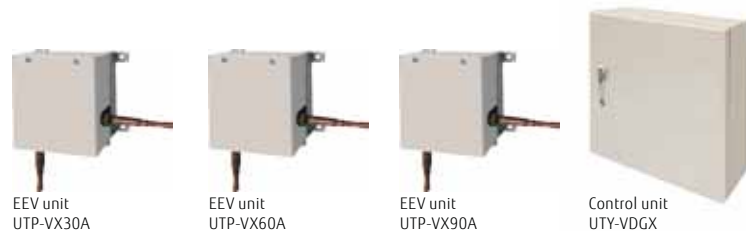


Piping and wiring length



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 × W × D)		mm	400 × 400 × 120									
List Price			750									
EEV unit			UTP-VX30A			UTP-VX60A			UTP-VX90A		UTP-VX90A×2	
Connection pipe diameter (Liquid)		mm	3/8			1/2			1/2		1/2	
Dimensions (H × W × D)			160 × 220 × 90									
List Price			231			231			231		462	

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].

R22 Replacement

Fujitsu R410A RAC and PAC systems can be considered for use with existing R22 pipework*.
There is no need to replace existing R22 pipework, saving time and money.

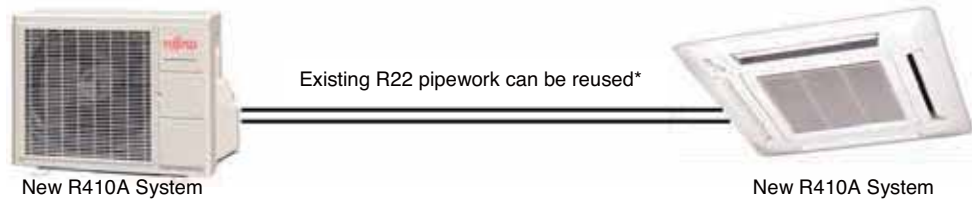


Table 1: When the existing R22 pipework is of a different diameter please refer to the following table for maximum pipe lengths and additional charge.

Model	Liquid Pipe	1/4				3/8			1/2		5/8		Additional Charge
	Gas 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	
ASYG07-12LM ASYG07-12LU ASYG09-12LT		S	20 (15)			8 (6)							50(g/m)
ASYG14LM ASYG14LU			S	20 (15)		8 (6)	8 (6)						50(g/m)
ASYG18LF			S	25 (15)		10 (6)	10 (6)						50(g/m)
ASYG24LF				S	30 (15)		12 (6)	12 (6)					50(g/m)
ASYG30LF ASYG30/36LM						S	50 (20)	20 (9)	20 (9)				90(g/m)
AUYG12LV ARYG12LL ARYG12LH		S	25 (15)			10 (6)							50(g/m)
AUYG14-18LV ARYG14-18LL ABYG18LV ARYG14LH			S	25 (15)		10 (6)	10 (6)						50(g/m)
AUXG18LR ARYG18LH			S	30 (15)		12 (6)	12 (6)						50(g/m)
AUYG24LV ARYG24LM ABYG24LV AUXG24LR ARYG24LH				S	30 (15)		12 (6)	12 (6)					50(g/m)
AUYG30-54LR (Φ1) ARYG30-45LM (Φ1) ARYG45-54LH (Φ1) ABYG30-45LR (Φ1) AUXG30-54LR (Φ1) ARYG30-54LH (Φ1)						S	50 (20)	20 (9)	20 (9)				90(g/m)
AUYG36-54LR (Φ3) ARYG36-45LM (Φ3) ARYG45-60LH (Φ3) ABYG36-54LR (Φ3)						S	75 (30)	30 (10)	30 (10)				90(g/m)
AOYG36-54LA (Φ3) AOYG36-54LB (Φ1)						S	75 (30)	30 (10)	30 (10)				90(g/m)
ARYC72-90LH (Φ3)											S	48 (12)	170(g/m)

S: Standard Pipe Size (GRN): Additional Charge Not Necessary Up To This Length (m) RED: Maximum Pipe Length (m)

Table 2

Outside Diameter	Wall Thickness	Material
1/4	0.8mm	Annealed Copper
3/8	1.0mm	Annealed Copper
1/2	1.2mm	Annealed Copper
5/8	1.2mm	Annealed Copper
3/4	1.2mm	Annealed Copper
1-1/8	1.0mm	Half Hardened Copper

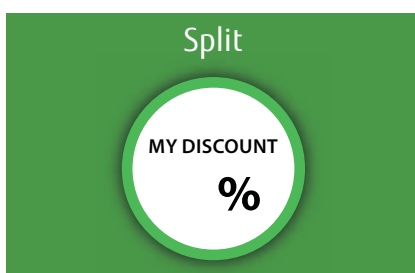
*Existing R22 pipework can only be used if it is free from defect and contamination, insulated on both lines, the pipe wall thickness complies with table 2, and, the existing R22 system can be operated for 30 minutes in cooling mode.

All systems should be installed in accordance with the manufactures guidelines – please contact your Fujitsu representative for full details on using existing R22 pipework.

Capacity and efficiency can be reduced when the STANDARD pipe sizes are not used.

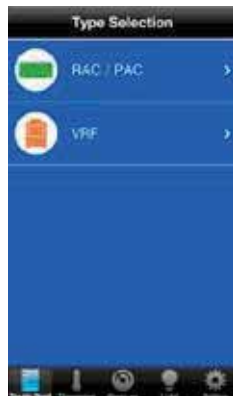
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Please insert your discounts here and then refer to the colour tabs on the edge of each page for reference.



Mobile Technician App

By FUJITSU GENERAL LIMITED



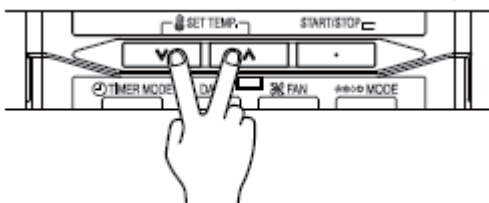
Standard Error Codes (all indoor units from 2013)

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
Refrigerant 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
IU connection error on WRC	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 position 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	solid LED	solid LED	-	-
VRF RB: Coms/Main PCB error	solid LED	continuous	-	-
WRC: Incompatible IU connected	-	-	-	C0:12
WRC: Indoor – WRC Coms error	-	-	-	C0:15

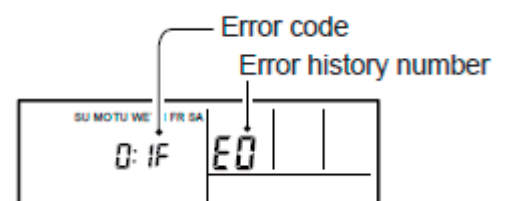
ERROR CODE HISTORY DISPLAY

Up to 16 memorized error codes may be displayed for the indoor unit connected to the remote controller

Press the SET TEMPERATURE buttons , simultaneously for 3 seconds



Press the SET TEMPERATURE button to select the error history number



FUJITSU GENERAL AIR CONDITIONING (UK)

Unit 150, Centennial Park, Centennial Avenue,
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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.

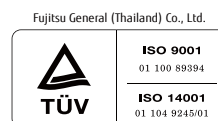
Cooling	Indoor temp. : 27°C DB/19°C WB Outdoor temp.: 35°C DB/24°C WB	Heating	Indoor temp. : 20°C DB Outdoor temp.: 7°C DB/6°C WB
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- Performance test is in accordance with EN14511
- Seasonal efficiency test is in accordance with EN14825
- Sound power test is in accordance with EN12102

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