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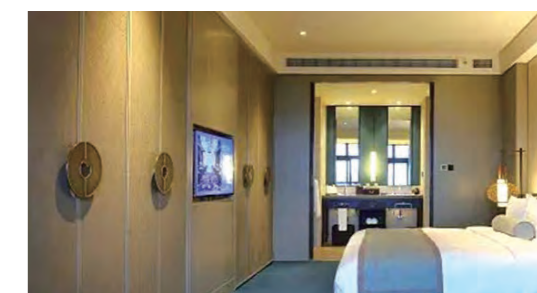


## LIGHT COMMERCIAL SOLUTIONS



### SMALL OFFICES

We have systems suitable for air conditioning in offices on one floor with many rooms such as private rooms and meeting rooms.



### HOTELS

Our new Small AIRSTAGE™ VRF outdoor units can be installed quickly and discretely due to their compact size.



### SHOPS & RESTAURANTS

If using in shops or restaurants that have many people coming and going, we recommend Simultaneous multi and large pack products that achieve powerful air conditioning with a low noise design.



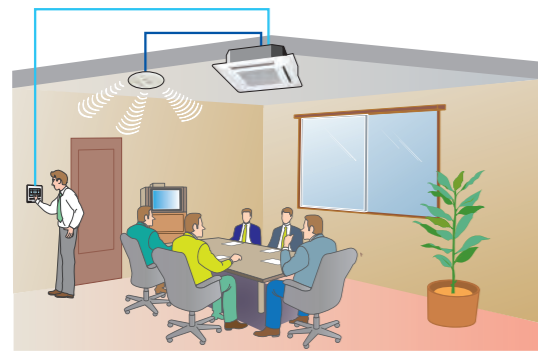
# SMALL OFFICES

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



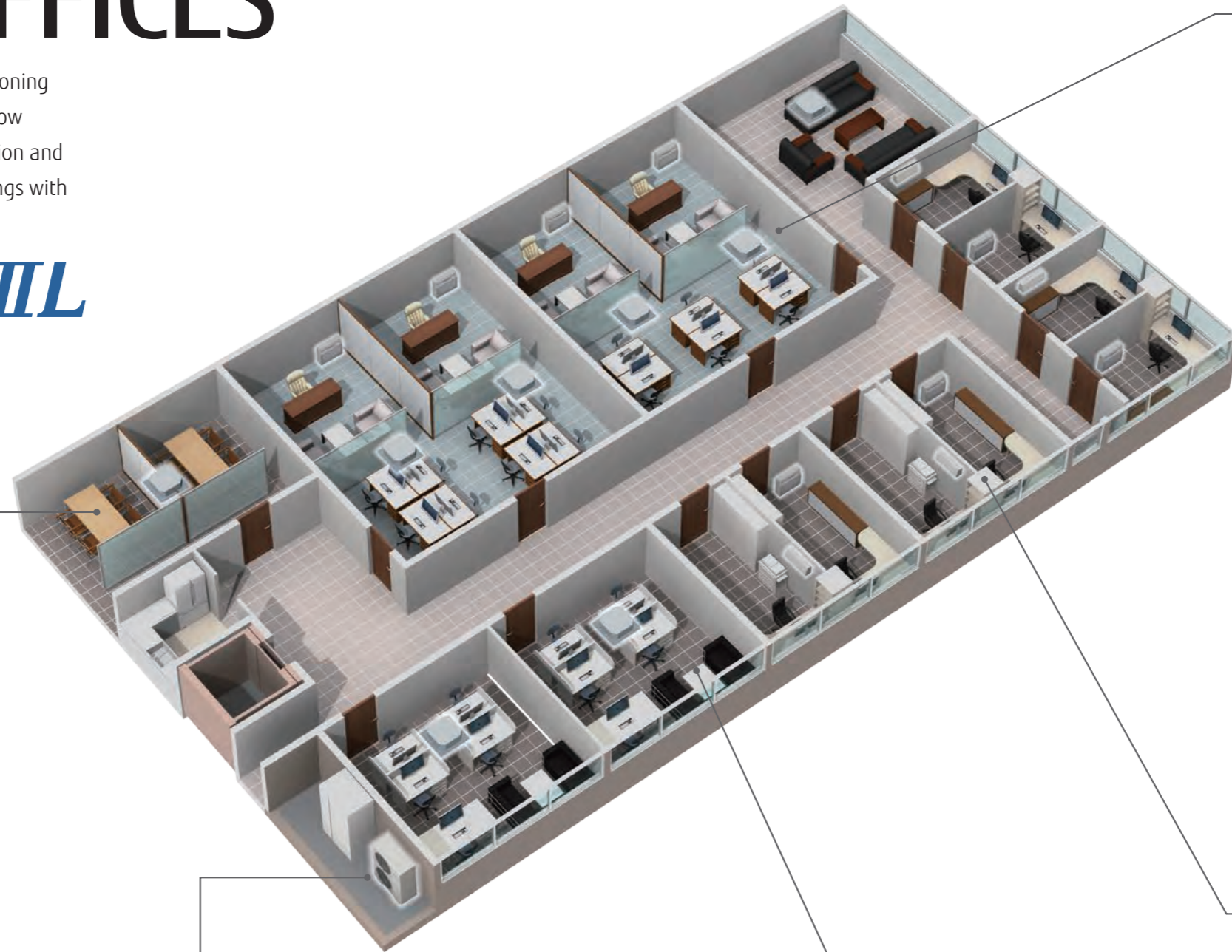
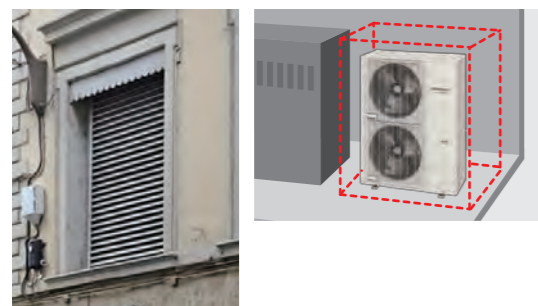
## Energy saving solution suitable for meeting rooms and business discussion rooms

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



## Compact and low noise design outdoor unit

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



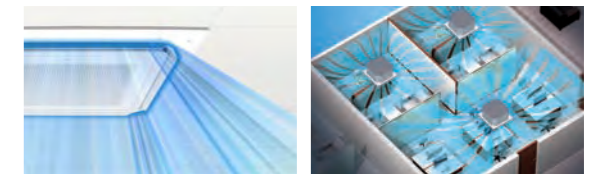
## Up to 12 HP by compact outdoor unit

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

## Comfortable office air conditioning without airflow feeling



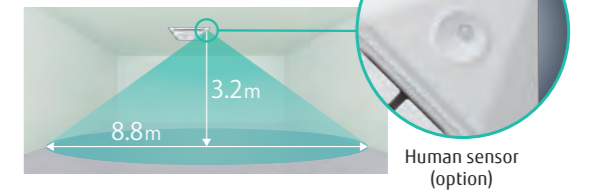
Circular Airflow Cassette blows out in all directions without temperature unevenness



Individual airflow direction control to prevent people from being exposed to airflow



Energy saving operation when there are no people by linking up with human sensor

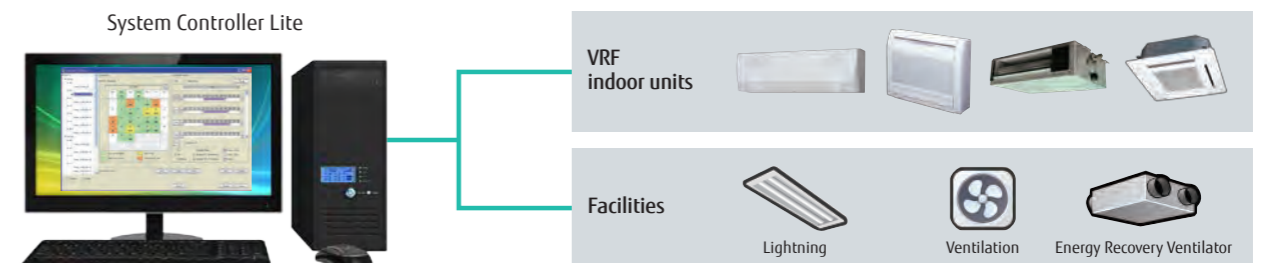


## 1.1 kW personal air conditioning



## Centralized control of both air conditioning and lighting

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





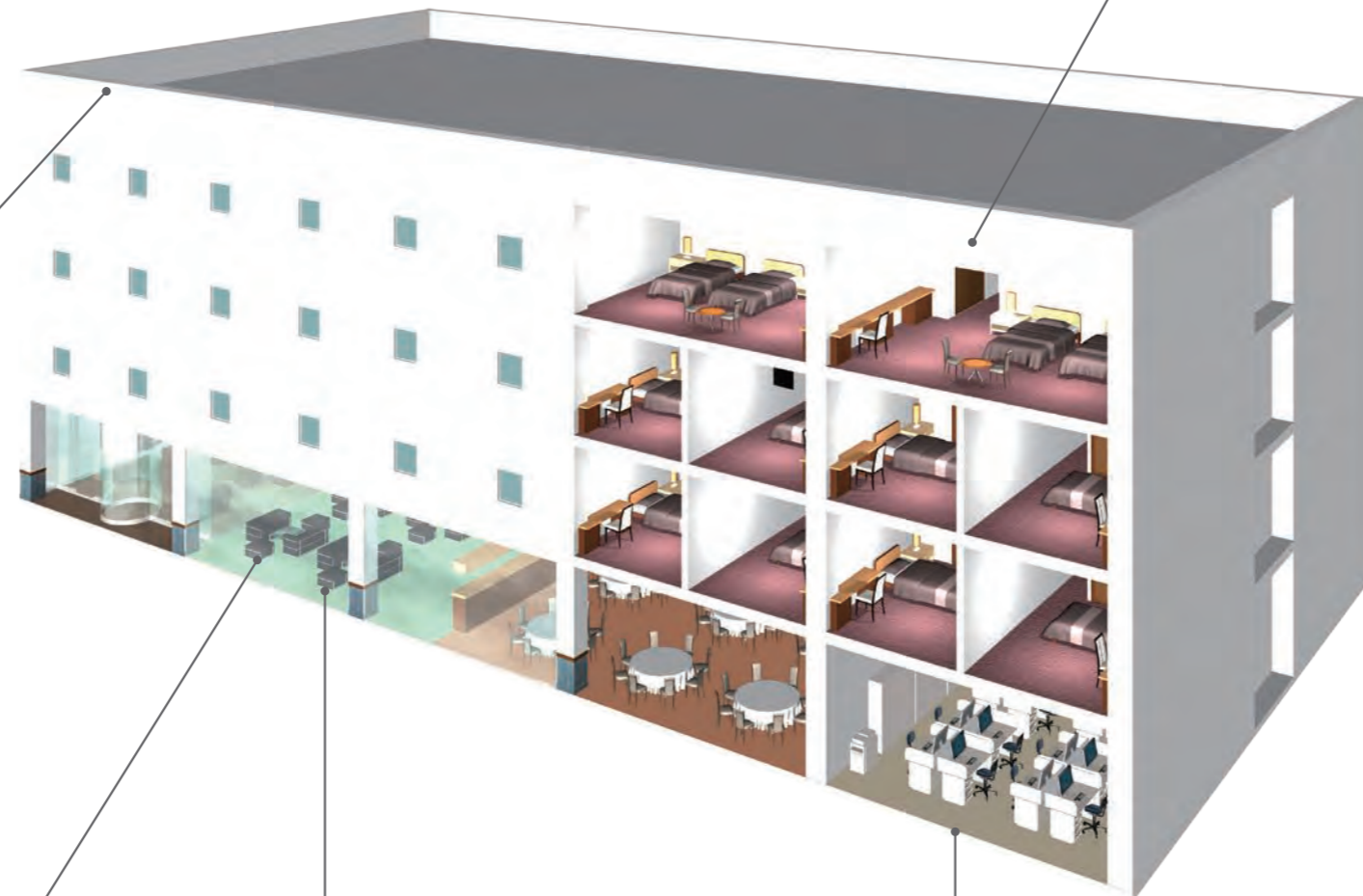
# HOTELS

Fujitsu General provides perfect total air conditioning systems that take into account comfort, energy saving, external appearance, safety and easy installation for small low-rise hotels.

## AIRSTAGE™ J-III L

### Appearance-oriented compact outdoor unit

Due to the lowest and most compact design in the industry, the appearance of hotel is not damaged even when installed on the building.



### Large space air conditioning in the reception and lobby

Ultra-large duct type single split system suitable for large spaces with high ceilings



### Ventilation of the whole hotel supported

Outdoor air processing is essential in hotel spaces with a high degree of airtightness. The DX-Kit can link up with air conditioners to ensure sufficient ventilation. This system can be expanded.



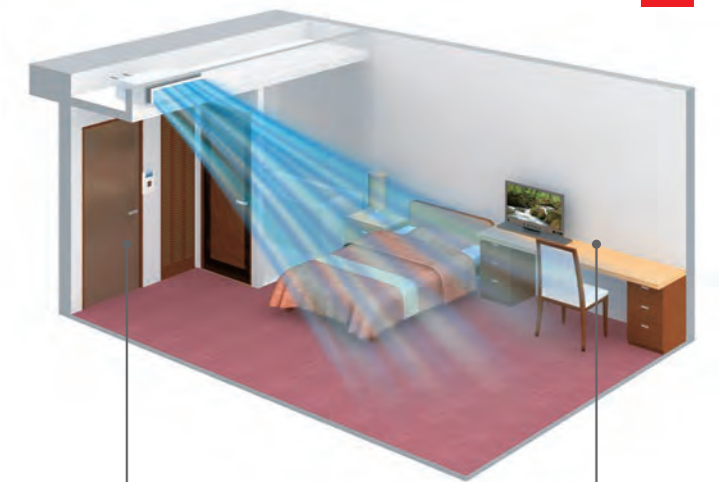
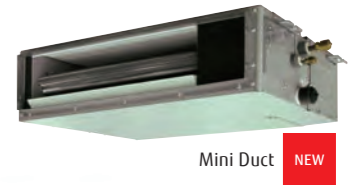
### Centralized control of air conditioning in shared spaces

Air conditioning in shared spaces such as lobbies and hallways is controlled centrally. Temperature and operating conditions can be managed without the adjustment by guests.



### Guest room air conditioning with excellent comfort, energy saving and easy installation

**Space saving**  
Mini duct type with 198 mm height and 450mm depth. This can be installed in narrow ceiling space easily.



**Card key switch available**  
Using the card key prevents you from forgetting to switch off the air conditioner.



Use of an external connect switch

**Comfortable airflow that switches up and down air directions**  
The Auto Louver Grille Kit achieves comfortable airflow by adjusting the air direction.



Simple Remote Controller with sophisticated design

### Safety measures

Refrigerant leak detection system is provided. This system detects a refrigerant leak and then sounds an alarm to shut off the leakage.



- Emergency stop in the event of an emergency
- Emergency stop function for each refrigerant system (VRF system)



# SHOPS, RESTAURANT & COMPLEX BUILDING

Fujitsu General provides perfect total air conditioning systems that offer smooth support by tenant, by purpose and by customer visit frequency in shops and restaurants with multiple lighting and a high density of customers.



Centralized control of air conditioning for all tenants

Centralized control with simple touch panel operation of scheduled operation by tenant, centralized control and electricity charge apportionment



Remote monitoring of air conditioning

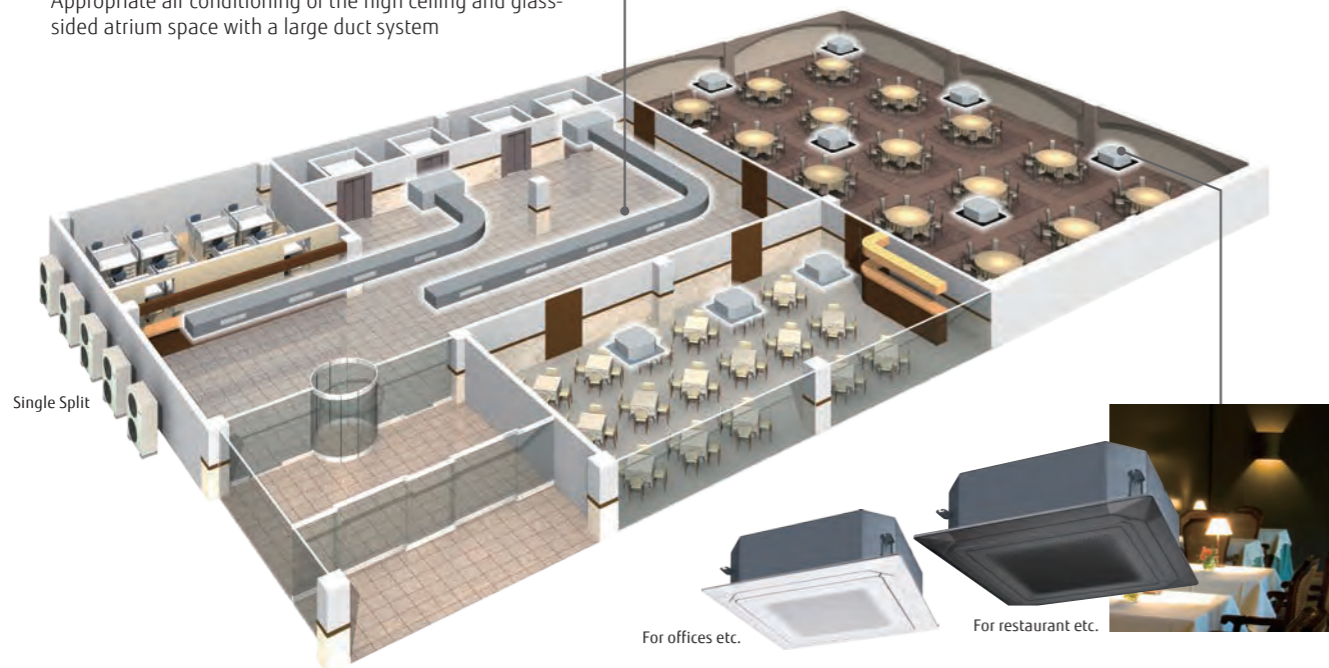
SMALL VRF **AIRSTAGE™** for COMPLEX BUILDING



Appropriate air conditioning in the atrium space

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

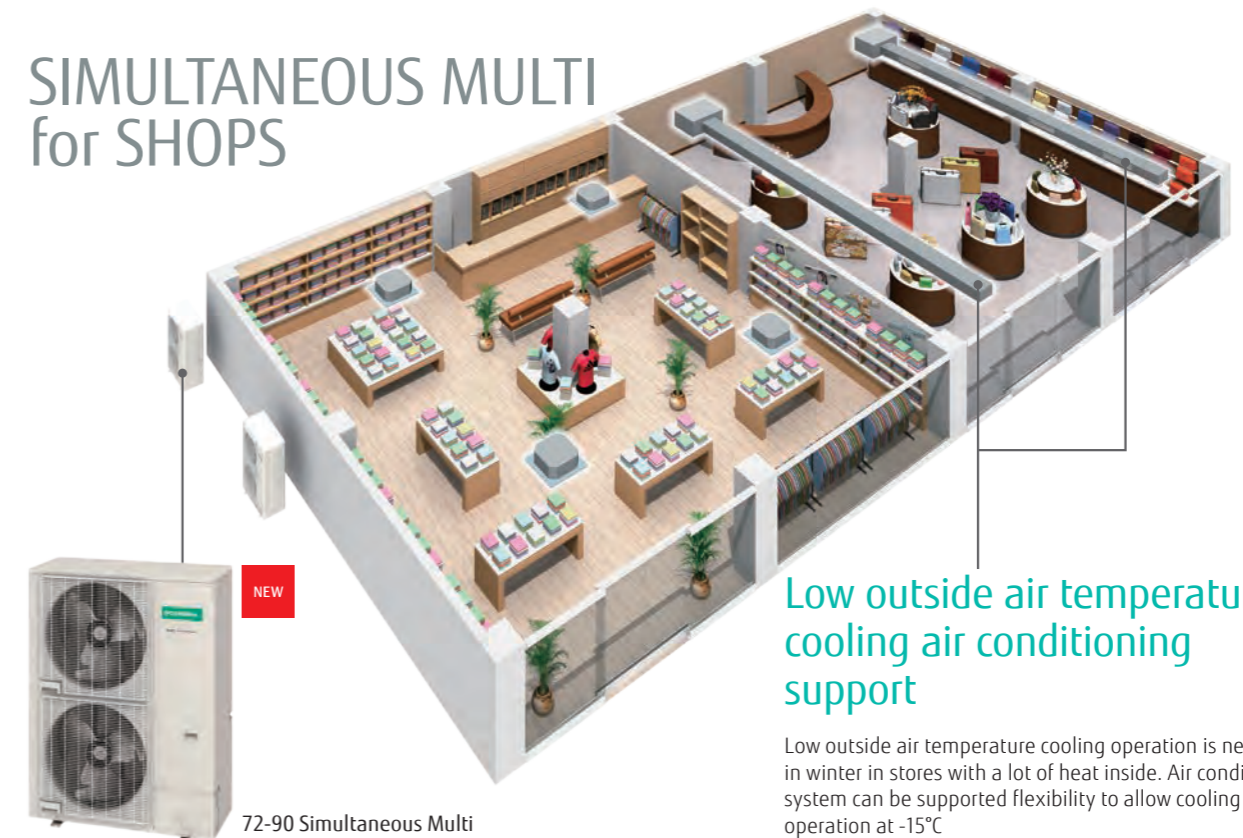
SINGLE SPLIT for RESTAURANT



Color variations by two panels

Both black and white panels are available for Cassette type. Black panel is suitable for the dark place such as a restaurant with atmosphere. White panel is usually used at bright areas such as offices. (Available to single split and VRF indoor units)

SIMULTANEOUS MULTI for SHOPS



Low outside air temperature cooling air conditioning support

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

Space saving installation

Simultaneous multi type can connect up to four air indoor units. This large capacity model makes large spaces comfortable simultaneously. Furthermore, this is top class compact outdoor unit in the industry



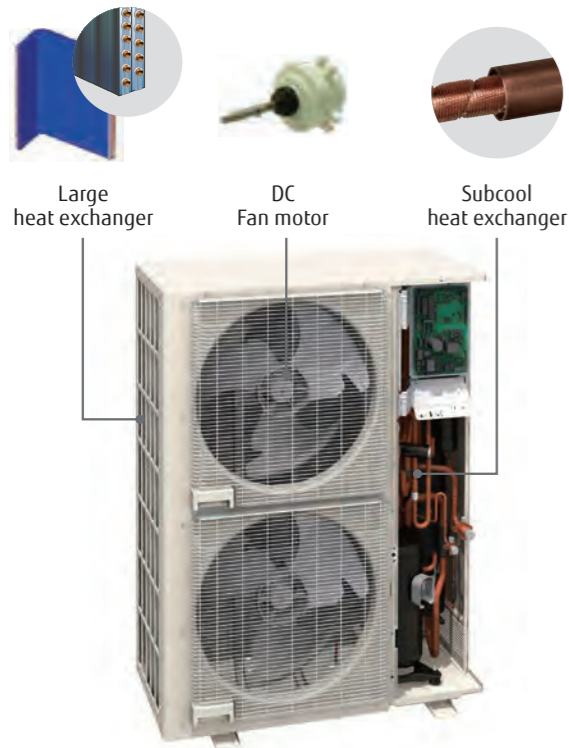
30-150 Pa Medium Static Pressure Duct



# CORE TECHNOLOGY

## High Energy Saving

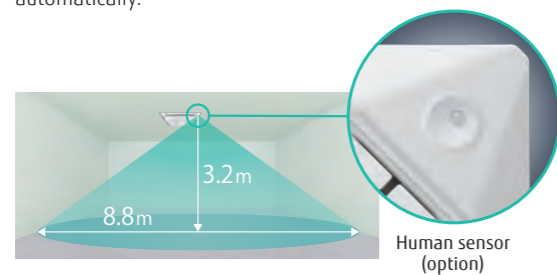
**ALL DC** High efficiency design with top class SEER/SCOP



**AIRSTAGE™ J-III L**

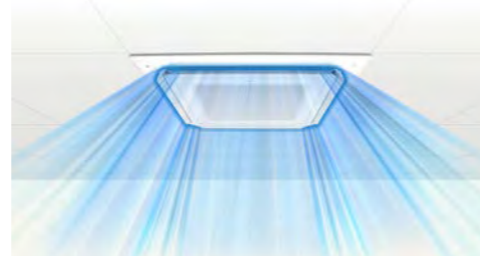
### Human sensor control

Motion sensor save operation catches the movements of people for wide area and operation stop is also judged automatically.

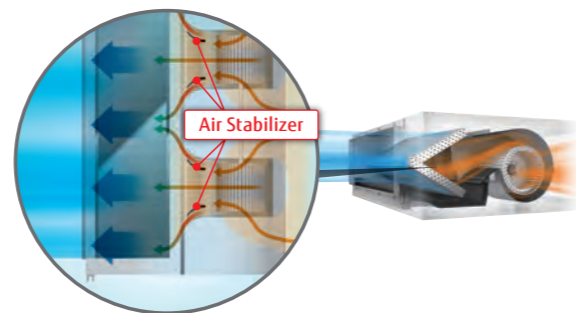


## More Comfort

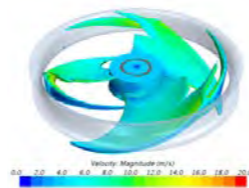
**Individual** Uniform air conditioning  
Circular airflow to achieve uniform air conditioning without temperature unevenness in workspaces



**Low Noise** Quiet design  
Duct type  
Low noise duct structure with a built-in air stabilizer



**Outdoor unit Fan**  
Outdoor unit fan design with little separation vortex, fan control to minimize the air volume and top class low noise



**Low Ambient** Low ambient operation  
Refrigeration cycle technology allows cooling operation even at -15°C.



## Installation Flexibility

**AIRSTAGE™**  
Small VRF Compact Outdoor Unit

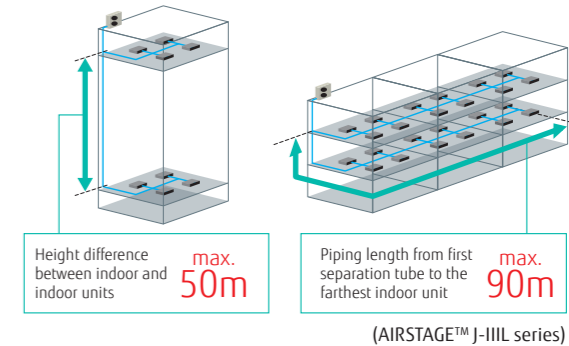


**Compact** Top class Compact design  
Compact outdoor unit can be attained at the top class in the industry by optimal airflow structure design. (Up to 12 HP)

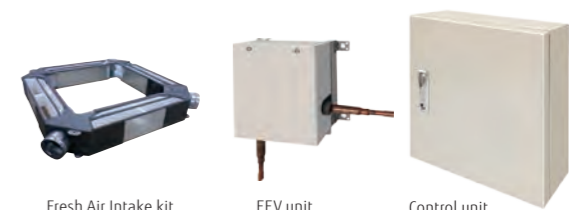
**Small Refrigerant** Designed for low refrigerant charge  
Optimal design of indoor unit and outdoor unit reduces the refrigerant volume and special support is not required even when installing in a small room of about 15 m<sup>2</sup>.



**Long Piping** Long piping design  
Piping design suitable for long, narrow office buildings with a difference in height and low-rise shops with depth



**Intake** Various optional parts  
• Intake fresh air with our Fresh Air Intake kit  
• Comfortable temperature control with a remote sensor  
• Operation by linking up to ventilation equipment and air handling unit with the DX-Kit





# SPLIT

For Light Commercial



**SPLIT**















































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# SPLIT Indoor Units



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

Type	Series	BTU						BTU					
		12	14	18	24	30	36	45	54	60	72	90	
Cassette Page 032~	Compact 4-way Flow Series Compact & Comfort Page 032	 AUHG12LVLB	 AUHG14LVLB	 AUHG18LVLB	 AUHG24LVLA								
	Circular Flow Series Comfort for Large Room Page 034			 AUXG18LRLB	 AUXG24LRLB		 AUXG30LRLB	 AUXG36LRLB	 AUXG45LRLB	 AUXG54LRLB			
	4-way Flow Series Comfort for Large Room Page 036						 AUHG30LRLE	 AUHG36LRLE	 AUHG45LRLE	 AUHG54LRLE			
Duct Page 038~	 Mini Duct Page 038	 ARHG12LSLAP*	 ARHG14LSLAP*	 ARHG18LSLAP*									
	Slim Duct Page 040	 ARHG12LLTB	 ARHG14LLTB	 ARHG18LLTB									
	Medium Static Pressure Duct Compact & Comfort Page 042	 ARHG12LHTBP	 ARHG14LHTBP	 ARHG18LHTBP	 ARHG24LHTBP		 ARHG30LHTBP	 ARHG36LHTBP	 ARHG45LHTBP	 ARHG54LHTBP			
	Medium Static Pressure Duct Standard Page 044				 ARHG24LMLA		 ARHG30LMLA	 ARHG36LMLA	 ARHG45LMLA				
	High Static Pressure Duct Page 046								 ARHG45LHTA	 ARHG54LHTA	 ARHG60LHTA		
	 Big Duct Page 048											 ARHG72LHTA*	 ARHG90LHTA*
Floor/Ceiling Comfort & Dual Design Page 050			 ABHG18LVTB	 ABHG24LVTA									
Ceiling Comfort for Large Room Page 052						 ABHG30LRTE	 ABHG36LRTE	 ABHG45LRTE	 ABHG54LRTE				
Wall Mounted Page 054	Standard Range Series New Design & Large Capacity					 ASHG30LMTA	 ASHG36LMTA						



# SPLIT and MULTI SPLIT 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 (option) detects movement of people in the room and decides whether to save energy or stop the unit.
- Economy mode**  
Thermostat setting automatically changes according to the temperature to avoid unnecessary cooling and heating.
- Room temperature set point limitation**  
The minimum and maximum temperature range can be set giving further energy saving while considering the comfort of the occupants.
- Set temperature auto return**  
The setting temperature automatically returns to the previously set temperature.

## Comfortable Function

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

## 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.
- Long life filter**

## Installation

- Automatic airflow adjustment**  
Automatically detects required airflow in each application case and adjusts the volume.
- Drain pump as standard**
- Blue fin**



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

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

# SPLIT and MULTI SPLIT Feature Summary



Type	Cassette			Duct						Floor/Ceiling	Ceiling	Wall Mounted
	Compact 4-way Flow	Circular Flow	4-way Flow	Mini	Slim	Medium Static Pressure	High Static Pressure	Big				
Model No.	AUHG12/14/18/LVLB, AUHG22/24/LVLA	AUXG18/24/30/36/45/54/LRLB	AUHG30/36/LRLE, AUHG36/45/54/LRLA	ARHG 12/14/18 LSLAP	ARHG 12/14/18 LLTB	ARHG12/14/18/24/30/36/45/54 LHTBP	ARHG22/24/36/45 LMLA, ARHG30/36 LMLE	ARHG45/54/60LHTA	ARHG72/90 LHTA	ABHG18 LVTB, ABHG22/24 LVTA	ABHG30/36 LRTE, ABHG36/45/54/LRTA	ASHG30/36 LMTA
Energy Saving Function	Save human sensor											
	Save & Stop human sensor		○									
	Economy mode	●	●	●	●	●	●	●	●	●	●	●
	Room temperature set point limitation	○	●	○	●	○	●	○	○	●	○	○
	Set temperature auto return	○	●	○	●	○	●	○	○	●	○	○
Convenient Function	Server room operation											●
	Powerful mode											●
	10°C HEAT operation	●	○	○	○	○	○	○	○ (60)	○	●	●
	Low noise mode		○ (45/54)				○ (45/54)	○ (45/36/LMLA)	○	○	○ (45/54/36/LRTA)	●
	Auto-changeover	●	●	●	●	●	●	●	●	●	●	●
	Up/down swing flaps	●	●	●	○	○						
	Double swing automatic										●	●
	Automatic fan speed	●	●	●	●	●	●	●	●	●	●	●
	Auto restart	●	●	●	●	●	●	●	●	●	●	●
	Connectable fresh air duct	○	●	●			●	●			●	
	Fresh air intake	○	○	○	○	○	○	○	○		○	
	Connectable distributing duct		●	●			●					
	Individual airflow direction control		●									
Convenient Function	Auto off timer	○	●	○	●	○	○	○	○	○	○	○
	Sleep timer	●	○	○	○	○	○	○	○ (60)	○	●	●
	Program timer	●	○	○	○	○	○	○	○ (60)	○	●	●
	Weekly timer		●		●		●					●
	Weekly + setback timer	○		●		●		●		○	○	○
	Filter sign	●	●	●	●	●	●	●	●	●	●	●
	External error output		○		○		○			○		○
	External ON/OFF input	○	●	○	●	○	●	○	○	●	○	○
	Wireless LAN control	○	○	○	○	○	○	○	○	○	○	○
Clean Function	Ion deodorization filter											●
	Apple-catechin filter											●
	Washable panel											●
	Long life filter						○	○	○ (60)	○		
Installation	Automatic airflow adjustment					●			●			
	Drain pump as standard	●	●	●	●	●	○				○	○
Blue fin		○ (30/36/45/54)	○ (45/54)			○ (30/36/45/54)		●	●		○ (45)	

○ Optional function



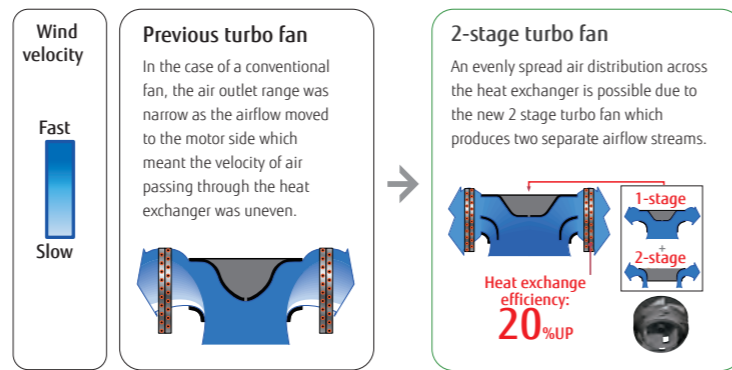
# Compact Cassette 4-way Flow Compact & Comfort



## Features

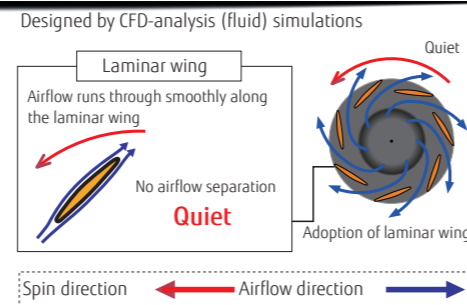
### 2-stage turbo fan

High efficiency design by 2 stage structure



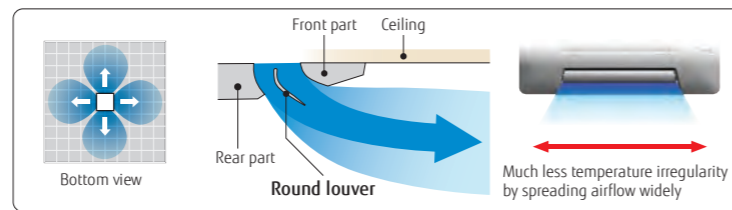
### Quiet quality

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

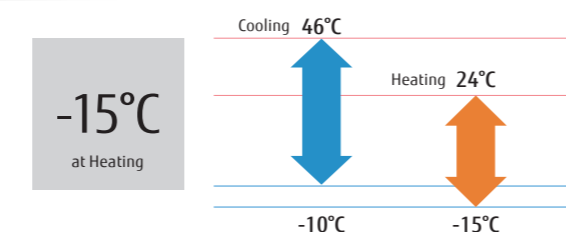


### Improvement of the airflow distribution

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



### Low ambient operation



Model : AUHG12LVLB / AUHG14LVLB / AUHG18LVLB / AUHG24LVLA



Wireless R.C.



For AUHG12/14/18LVLB For AUHG24LVLA

## Specifications

Model No.	Indoor unit		AUHG12LVLB	AUHG14LVLB	AUHG18LVLB	AUHG24LVLA
	Outdoor unit		AOHG12LALL	AOHG14LALL	AOHG18LALL	AOHG24LALA
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)	6.8 (0.9-8.0)
	Heating	kW	4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)	8.0 (0.9-9.1)
Input Power	Cooling/Heating		1.05/1.11	1.33/1.34	1.62/1.66	2.21/2.26
	Cooling	W/W	3.33	3.21	3.21	3.08
EER	Cooling		3.33	3.21	3.21	3.08
	Heating	W/W	3.69	3.71	3.61	3.54
Pdesign	Cooling/Heating(-10°C)		3.5/4.2	4.3/4.5	5.2/5.2	6.8/6.0
SEER	Cooling		6.20	6.40	6.20	5.60
	Heating (Average)	W/W	4.10	4.40	4.20	3.90
SCOP	Cooling		A++	A++	A++	A+
	Heating (Average)		A+	A+	A+	A
Max. Operating Current	Cooling/Heating		7.5/10.0	9.0/12.5	9.0/12.5	12.0/13.5
	Cooling	A	198	235	293	425
Annual Energy Consumption	Cooling	kWh/a	1431	1432	1731	2151
	Heating	kWh/a	1.2	1.5	2.2	2.7
Moisture Removal	Indoor (Cooling)	H/M/L/Q	37/34/30/27	38/34/30/27	38/34/30/26	49/44/36/30
	Indoor (Heating)	H/M/L/Q	37/34/31/29	43/38/34/30	43/38/34/30	49/45/40/33
Sound Pressure Level	Outdoor(Cooling/Heating)	High	47/48	49/49	50/50	52/53
	Indoor(Cooling/Heating)	High	49/49	50/55	50/55	59/61
Sound Power Level	Outdoor(Cooling/Heating)	High	61/63	62/64	62/65	67/70
	Indoor / Outdoor	High	600/1780	680/1910	680/2000	930/2470
Net Dimensions H x W x D	Indoor	mm	245×570×570	245×570×570	245×570×570	245×570×570
		kg (lbs)	15 (33)	15 (33)	15 (33)	16 (35)
Weight	Outdoor	mm	578×790×300	578×790×300	578×790×300	578×790×315
		kg (lbs)	40 (88)	40 (88)	40 (88)	44 (97)
Connection Pipe Diameter (Liquid / Gas)	mm	6.35/9.52	6.35/12.70	6.35/12.70	6.35/15.88	
Drain hose Diameter (I.D./O.D.)	mm	25/32	25/32	25/32	25/32	
Max Pipe Length (Pre-Charge)	m	25 (15)	25 (15)	25 (15)	30 (15)	
Max Height Difference		15	15	15	20	
Operation Range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	1.15 (2.4)	1.25 (2.6)	1.25 (2.6)	1.70 (3.5)
Cassette Grille	Model name		UTG-UFGD-W	UTG-UFGD-W	UTG-UFGD-W	UTG-UFGD-W
	Dimensions (H x W x D)	mm	49×700×700	49×700×700	49×700×700	49×700×700
	Weight	kg (lbs)	2.6 (6)	2.6 (6)	2.6 (6)	2.6 (6)

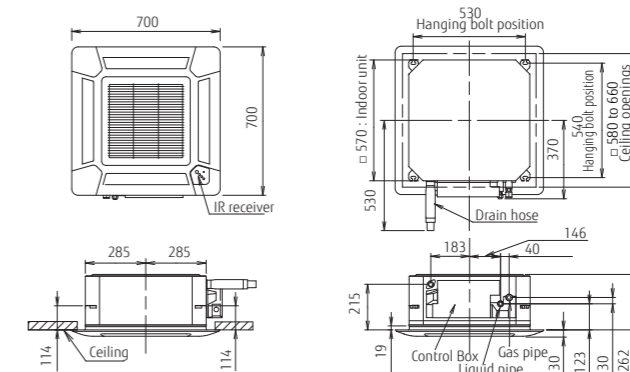
## Optional parts

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



## Dimensions

(Unit : mm)





# Cassette

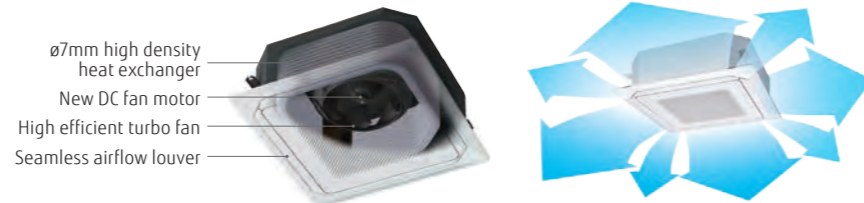
Circular Flow Comfort for large room



## 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.



### 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-RNRZ2) only

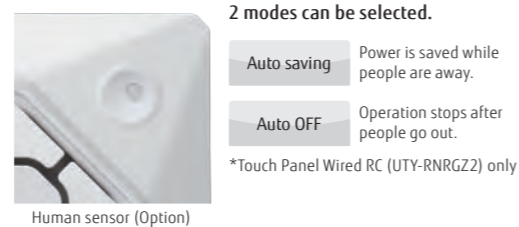


Comfortable air conditioning by preventing direct blowing of cold air and by providing swinging air flow simultaneously.

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.



\*Touch Panel Wired RC (UTY-RNRG2) only

### Various Cassette Grille

Both black and white color grilles are available. There are three types, white color grille with Remote Controller, only white color grille and only black color grille. Possible to choose according to the atmosphere and the use of the room.



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



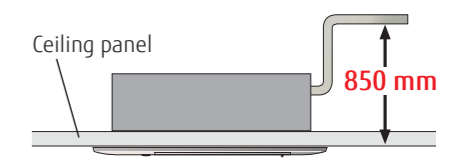
## Specifications

Model No.	Indoor unit		AUXG18LRLB	AUXG24LRLB	AUXG30LRLB	AUXG36LRLB	AUXG45LRLB	AUXG54LRLB
	Outdoor unit		AOHG18LBCA	AOHG24LBCA	AOHG30LBTB	AOHG36LBTB	AOHG45LBTB	AOHG54LBTB
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	kW	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
	Cooling		3.66	3.15	3.32	3.21	3.25	3.04
COP	Cooling	W/W	4.00	3.58	3.61	3.71	3.75	3.45
	Heating	W/W	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	-	-
	Cooling		7.05	6.60	6.70	6.40	-	-
SEER	Cooling		4.40	4.20	4.30	4.30	-	-
	Heating (Average)	W/W	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
	Cooling	kWh/a	258	361	444	519	-	-
Annual Energy Consumption	Cooling		1367	1999	2604	2833	-	-
	Heating		-	-	-	-	-	-
Moisture Removal	Cooling	l/h	2.2	2.7	2.5	3.3	4.5	5.0
	Heating		-	-	-	-	-	-
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
	Outdoor (Cooling/Heating)	High	51/50	55/56	53/55	54/55	55/55	55/57
Sound Power Level	Indoor (Cooling/Heating)	High	47/47	49/49	54/54	58/58	60/60	61/61
	Outdoor (Cooling/Heating)	High	64/62	68/68	67/69	68/70	68/68	69/71
	Indoor / Outdoor	High	m³/h	1050/1900	1150/2460	1600/3600	1900/3800	2000/6750
Airflow Rate	Indoor	mm	246×840×840	246×840×840	288×840×840	288×840×840	288×840×840	288×840×840
		kg (lbs)	24 (53)	24 (53)	26 (57)	26 (57)	29 (64)	29 (64)
		mm	620×790×290	620×790×290	830×900×330	830×900×330	1290×900×330	1290×900×330
Net Dimensions H x W x D	Outdoor	kg (lbs)	41 (90)	41 (90)	61 (134)	61 (134)	86 (189)	86 (189)
		mm	620×790×290	620×790×290	830×900×330	830×900×330	1290×900×330	1290×900×330
		kg (lbs)	41 (90)	41 (90)	61 (134)	61 (134)	86 (189)	86 (189)
Weight	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	
	mm	25/32	25/32	25/32	25/32	25/32	25/32	
Connection Pipe Diameter (Liquid / Gas)	mm	30 (15)	30 (15)	50 (20)	50 (20)	50 (20)	50 (20)	
	m	20	20	30	30	30	30	
Drain hose Diameter (I.D./O.D.)	mm	20	20	30	30	30	30	
	m	30 (15)	30 (15)	50 (20)	50 (20)	50 (20)	50 (20)	
Max Pipe Length (Pre-Charge)	mm	20	20	30	30	30	30	
	m	30 (15)	30 (15)	50 (20)	50 (20)	50 (20)	50 (20)	
Max Height Difference	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	1.80 (3.8)	1.80 (3.8)	2.10 (4.4)	2.10 (4.4)	3.35 (7.0)	3.35 (7.0)
Cassette Grille	Variation		UTG-UKGA-W: White Color with touch panel wired remote controller UTG-UKGC-W: White Color / UTG-UKGA-B*: Black Color					
	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)

\*1: IR Receiver kit and human sensor kit cannot be connected.

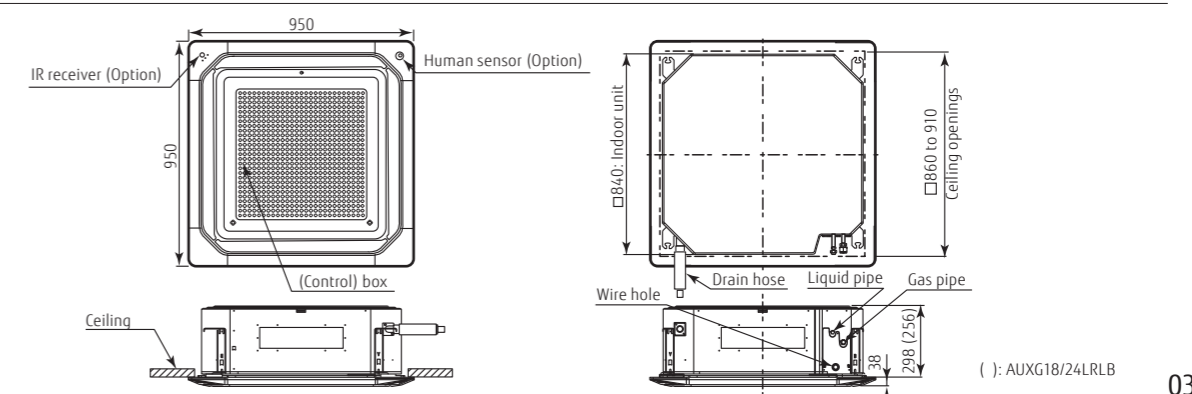
## Optional parts

Wired Remote Controller:	UTY-RNRG22, UTY-RVNGM, UTY-RLRG UTY-RNNGM	Air Outlet Shutter Plate:	UTR-YDZK
Simple Remote Controller:	UTY-RSNGM, UTY-RSRG	Insulation Kit For High Humidity:	UTZ-KXRA
IR Receiver Kit:	UTY-LBTGC	Flesh Air Intake Kit:	UTZ-VXRA
Human Sensor Kit:	UTY-SHZXC	External input and output PCB (with box):	UTY-XCSX + UTZ-GXRA
Wide Panel:	UTG-AKXA-W	External connect kit:	UTY-XWZXZG, UTY-XWZXZ3
Panel Spacer:	UTG-BKXA-W	Cassette Grille:	UTG-UKGA-W, UTG-UKGA-B, UTG-UKGC-W

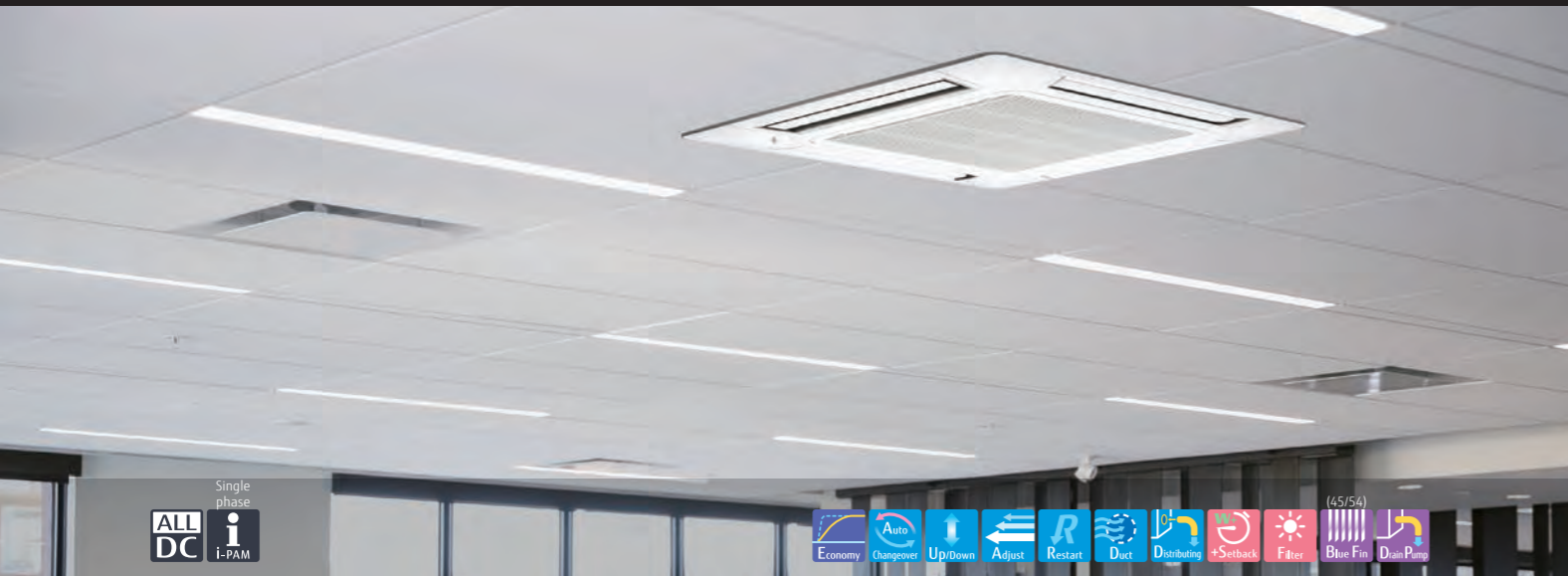


## Dimensions

(Unit : mm)



# Cassette 4-way Flow Comfort for large room



Single phase

ALL DC i-PAM

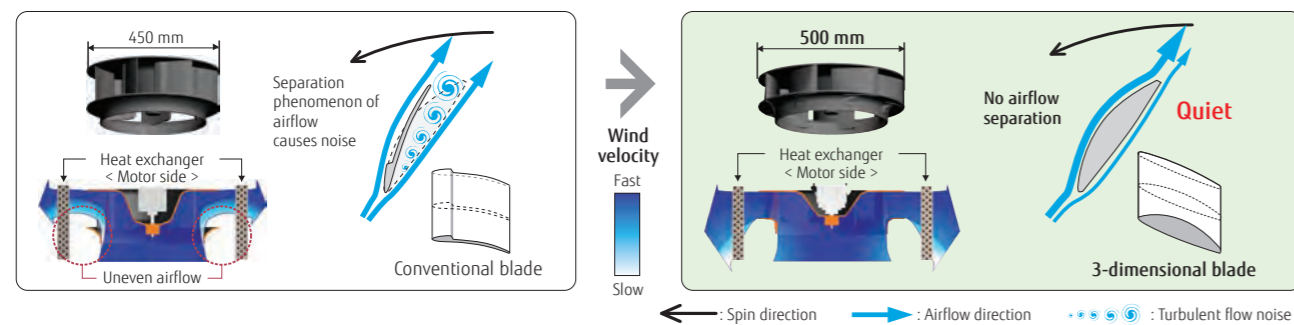
Economy Auto Up/Down Adjust Restart Duct Distributing +Setback Filter Blue Fin Drain Pump (45/54)

## Features

### High efficiency turbo fan with 3-dimensional blade

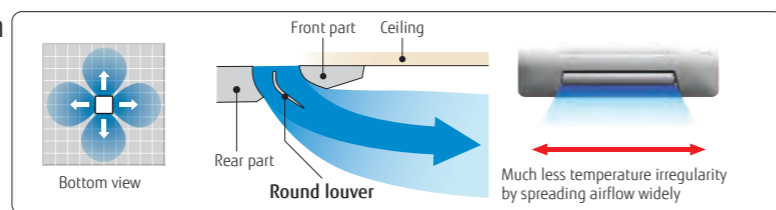
Previous turbo fan: Air passing through the heat exchanger was uneven and the air would only flow close to the ceiling.

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 louver: The louver design distributes air leaving a space between the chassis and the ceiling allowing for wide and uniform airflow distribution.

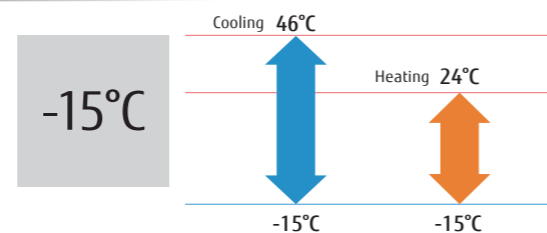


### Adjustment of hanger position is possible after installation

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



### Low ambient operation



Model : AUHG30LRLE / AUHG36LRLE / AUHG45LRLA / AUHG54LRLA / AUHG36LRLA [3phase] / AUHG45LRLA [3phase] / AUHG54LRLA [3phase]

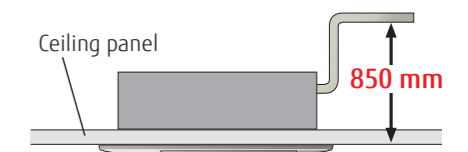


## Specifications

Model No.	Indoor unit				Outdoor unit						
	AUHG30LRLE	AUHG36LRLE	AUHG45LRLA	AUHG54LRLA	AUHG36LRLA	AUHG45LRLA	AUHG54LRLA				
Power Source		Single-phase, ~230V, 50Hz				3-phase, ~400V, 50Hz					
Capacity	Cooling	kW		8.5 (2.8-10.0)	10.0 (2.8-11.2)	12.5 (4.0-14.0)	13.3 (4.5-14.5)	10.0 (4.7-11.4)	12.5 (5.0-14.0)	14.0 (5.4-16.0)	
	Heating	kW		10.0 (2.7-11.2)	11.2 (2.7-12.7)	14.0 (4.2-16.2)	16.0 (4.7-16.5)	11.2 (5.0-14.0)	14.0 (5.4-16.2)	16.0 (5.8-18.0)	
Input Power	Cooling/Heating		kW		2.65/2.77	3.12/3.02	3.88/3.77	4.42/4.69	2.44/2.56	3.54/3.58	4.36/4.43
	Cooling		W/W		3.21	3.21	3.22	3.01	4.10	3.53	3.21
EER	Cooling		W/W		3.21	3.21	3.22	3.01	4.10	3.53	3.21
	Heating		W/W		3.61	3.71	3.71	3.41	4.38	3.91	3.61
Pdesign	Cooling/Heating(-10°C)		kW		8.5/8.0	10.0/8.7	-	-	10.0/10.0	-	-
	Cooling		W/W		6.50	6.30	-	-	6.50	-	-
SEER	Cooling		W/W		6.50	6.30	-	-	6.50	-	-
	Heating (Average)		W/W		4.30	4.20	-	-	4.30	-	-
SCOP	Cooling		W/W		A++	A++	-	-	A++	-	-
	Heating (Average)		W/W		A+	A+	-	-	A+	-	-
Max. Operating Current	Cooling/Heating		A		17.0/17.0	18.5/20.0	20.5/20.5	21.5/21.5	7.9/7.9	8.9/8.9	9.9/9.9
	Cooling		kWh/a		458	555	-	-	538	-	-
Annual Energy Consumption	Cooling		kWh/a		458	555	-	-	538	-	-
	Heating		kWh/a		2604	2897	-	-	3253	-	-
Moisture Removal	Cooling		l/h		2.5	3.5	4.5	5.0	3.0	4.5	5.0
	Heating		l/h		2.5	3.5	4.5	5.0	3.0	4.5	5.0
Sound Pressure Level	Indoor (Cooling)		H/M/L/Q		40/38/36/32	43/38/36/32	46/42/40/36	47/43/41/37	44/39/36/33	46/42/40/36	47/43/41/37
	Indoor (Heating)		H/M/L/Q		40/38/36/32	43/38/36/32	46/42/40/36	47/43/41/37	44/39/36/33	46/42/40/36	47/43/41/37
Sound Power Level	Outdoor (Cooling/Heating)		High		53/55	54/55	55/55	55/57	51/53	54/54	55/56
	Indoor (Cooling/Heating)		High		54/54	57/57	-	-	58/58	-	-
Airflow Rate	Outdoor (Cooling/Heating)		High		68/69	69/70	-	-	67/69	-	-
	Indoor / Outdoor		High		m³/h	1600/3600	1800/3800	1900/6750	2000/6750	1800/6200	1900/6750
Net Dimensions H x W x D	Indoor		mm		288x840x840	288x840x840	288x840x840	288x840x840	288x840x840	288x840x840	288x840x840
	Outdoor		mm		830x900x330	830x900x330	1290x900x330	1290x900x330	1290x900x330	1290x900x330	1290x900x330
Weight	Indoor		kg(lbs)		26 (57)	26 (57)	26 (57)	26 (57)	26 (57)	26 (57)	26 (57)
	Outdoor		kg(lbs)		61 (135)	61 (135)	86 (190)	86 (190)	104 (229)	104 (229)	104 (229)
Connection Pipe Diameter (Liquid / Gas)	Indoor		mm		9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
	Outdoor		mm		25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0	25.0/32.0
Max Pipe Length (Pre-Charge)	Indoor		m		50 (20)	50 (20)	50 (20)	50 (20)	75 (30)	75 (30)	75 (30)
	Outdoor		m		30	30	30	30	30	30	30
Max Height Difference	Cooling		°CDB		-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating		°CDB		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		kg(CO2eq-T)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)		2.10 (4.4)	2.10 (4.4)	3.35 (7.0)	3.35 (7.0)	3.45 (7.2)	3.45 (7.2)	3.45 (7.2)
Cassette Grille	Model name		mm		UTG-UGGA-W	UTG-UGGA-W	UTG-UGGA-W	UTG-UGGA-W	UTG-UGGA-W	UTG-UGGA-W	UTG-UGGA-W
	Dimensions (H x W x D)		mm		50x950x950	50x950x950	50x950x950	50x950x950	50x950x950	50x950x950	50x950x950
Weight		kg(lbs)		5.5 (12)	5.5 (12)	5.5 (12)	5.5 (12)	5.5 (12)	5.5 (12)	5.5 (12)	

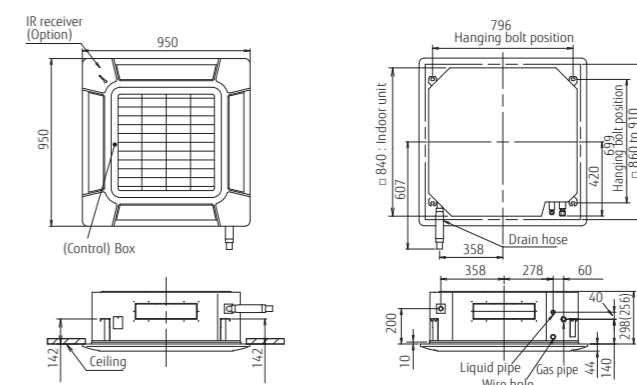
## Optional parts

Wired Remote Controller:	UTY-RNNGM, UTY-RVNGM	Panel Spacer:	UTG-BKXA-W
Simple Remote Controller:	UTY-RSNGM	Air Outlet Shutter Plate:	UTR-YDZK
IR Receiver Kit:	UTY-LRHGA2	Insulation Kit For High Humidity:	UTZ-KXRA
Wide Panel:	UTG-AKXA-W	Fresh Air Intake Kit:	UTZ-VXRA



## Dimensions

(Unit : mm)





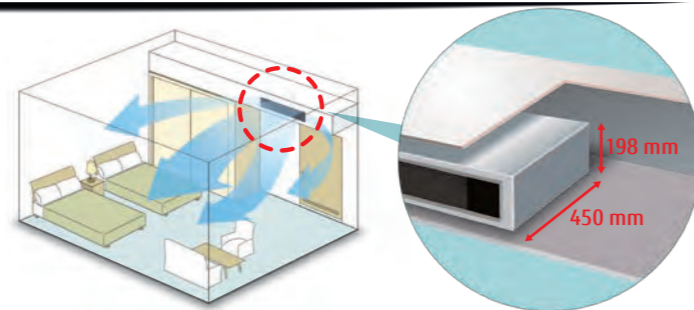
**NEW** Mini Duct Built-in Drain Pump



**Features**

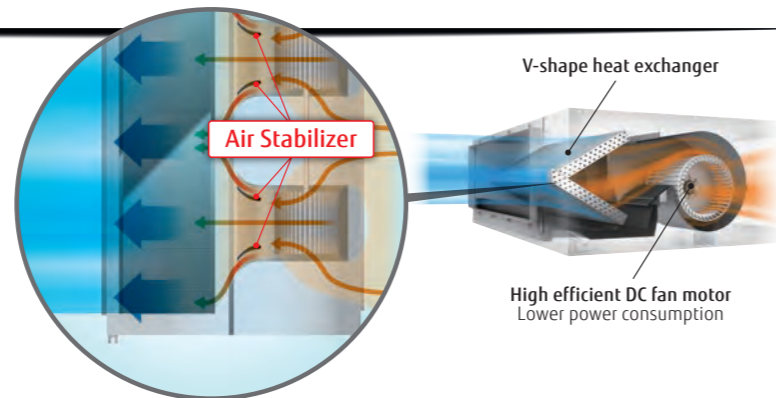
**Large living space available**

- Installation space can be reduced down to minimum depth 450 mm height 198 mm and compact design
- Minimum size: Depth 450 mm, Height 198 mm Volume 27% down compared with current model
- Lightweight: 15.5 kg 18% down (12/14 class)



**Optimum airflow path and low noise operation**

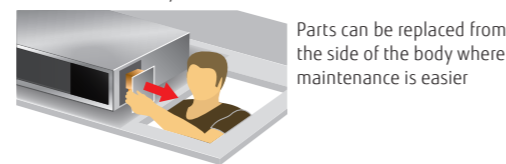
Low noise is realized drastically by stabilized airflow design



**Easy design and maintenance for drain**

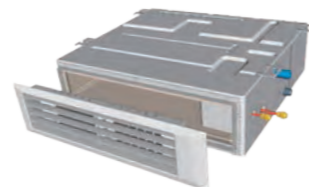
By using the DC fan motor, it is possible to change the static pressure range from 0 to 50 Pa\*. The change of static pressure range is possible by remote controller.  
\*: 0 to 30 Pa. (12)

**Built-in drain pump as standard:**  
Maintenance is easy

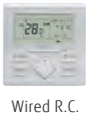
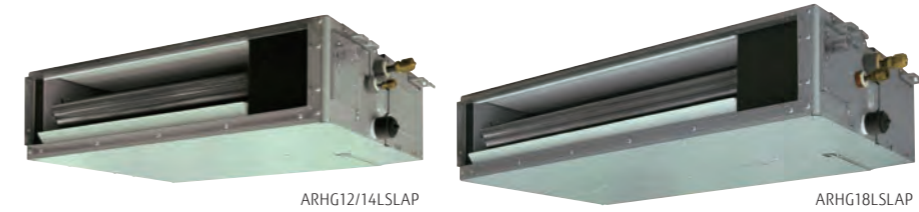


**Auto Louver Grille Kit (Option)**

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



**Model : ARHG12LSLAP / ARHG14LSLAP / ARHG18LSLAP**

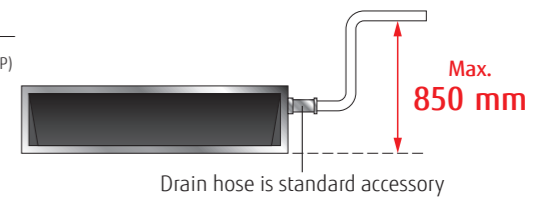


**Specifications**

Model No.	Indoor unit		ARHG12LSLAP	ARHG14LSLAP	ARHG18LSLAP
	Outdoor unit		AOHG12LALL	AOHG14LALL	AOHG18LALL
Power Source	Single-phase, ~230V, 50Hz				
Capacity	Cooling	kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)
	Heating	kW	4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)
Input Power	Cooling/Heating		1.03/1.15	1.34/1.49	1.62/1.77
	Cooling	W/W	3.40	3.21	3.21
COP	Heating		3.56	3.35	3.38
	Cooling/Heating(-10°C)		3.5/4.2	4.3/4.5	5.2/5.2
SEER	Cooling		5.70	5.60	5.80
	Heating		3.90	3.80	3.80
Energy Efficiency Class	Cooling		A+	A+	A+
	Heating		A	A	A
Max. Operating Current	Cooling/Heating		7.5/10.0	9.0/12.5	9.0/12.5
	Cooling	kWh/a	215	269	314
Annual Energy Consumption	Heating		1505	1656	1914
	Moisture Removal		l/h	1.2	1.4
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	31/27/25/23	35/30/27/23	33/29/26/23
	Indoor (Heating)	H/M/L/Q	31/27/25/23	35/30/27/23	33/29/26/23
	Outdoor(Cooling/Heating)	High	47/48	49/49	50/50
Sound Power Level	Indoor(Cooling/Heating)	High	55/57	60/62	58/59
	Outdoor(Cooling/Heating)	High	61/63	62/64	62/65
	Airflow Rate	Indoor / Outdoor	High	650/1780	800/1910
Static pressure range (Standard)			Pa	0 - 30 (10)	0 - 50 (15)
			mm	198×700×450	198×700×450
Net Dimensions H x W x D	Indoor		kg(lbs)	15.5 (34)	15.5 (34)
	Outdoor		mm	578×790×300	578×790×300
			kg(lbs)	40 (88)	40 (88)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/12.70
	Drain hose Diameter (I.D./O.D.)		mm	25/32	25/32
Max Pipe Length (Pre-Charge)			m	25 (15)	25 (15)
	Max Height Difference			15	15
Operation Range	Cooling		°CDB	-10 to 46	-10 to 46
	Heating		°CDB	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	1.15 (2.4)	1.25 (2.6)

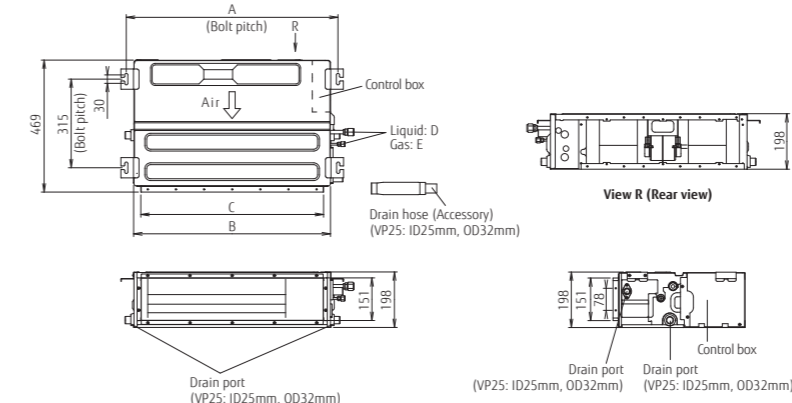
**Optional parts**

- Wired Remote Controller: UTY-RLRG, UTY-RNRGZ2, UTY-RVNGM
- Simple Remote Controller: UTY-RSNGM, UTY-RSRG
- IR Receiver Kit: UTY-LBTGM
- Remote Sensor Unit: UTY-XSZX
- Auto Louver Grille Kit: UTD-GXTA-W (ARHG12/14LSLAP), UTD-GXTB-W (ARHG18LSLAP)
- External connect kit: UTY-XWZXZG



**Dimensions**

(Unit : mm)



	ARHG12/14LSLAP	ARHG18LSLAP
A	752	952
B	700	900
C	650	850
D	6.35	9.52
E	12,7	15.88

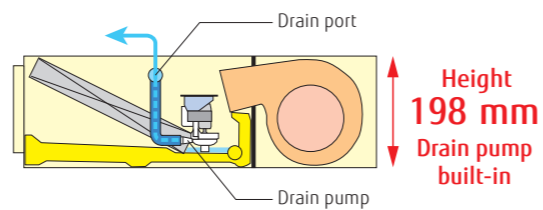
# Slim Duct Slim & Comfort



## 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.



### Selectable with a wide range of static pressure

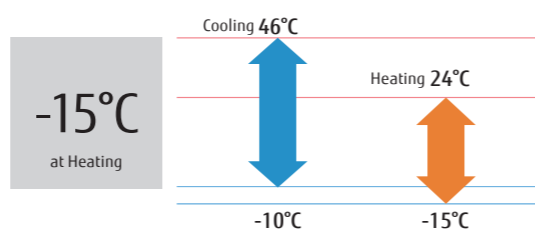
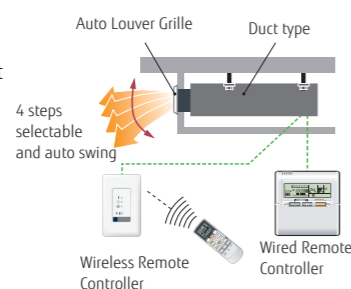
By using the DC fan motor, it is possible to change the static pressure range from 0 to 90 Pa. The change of static pressure range is possible by remote controller.



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 : ARHG12LLTB / ARHG14LLTB / ARHG18LLTB

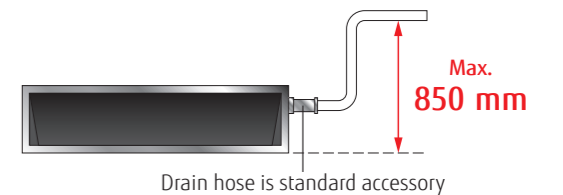


## Specifications

Model No.	Indoor unit		ARHG12LLTB	ARHG14LLTB	ARHG18LLTB
	Outdoor unit		AOHG12LALL	AOHG14LALL	AOHG18LALL
Power Source	Single-phase, ~230V, 50Hz				
Capacity	Cooling	kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)
	Heating	kW	4.1 (0.9-5.7)	5.0 (0.9-7.5)	6.0 (0.9-7.5)
Input Power	Cooling/Heating	kW	1.05/1.11	1.33/1.34	1.62/1.66
EER	Cooling		3.33	3.21	3.21
	Heating		3.69	3.71	3.61
Pdesign	Cooling/Heating(-10°C)	kW	3.5/4.2	4.3/4.5	5.2/5.2
SEER	Cooling		5.90	5.80	6.20
	Heating		4.00	3.90	4.10
Energy Efficiency Class	Cooling		A+	A+	A++
	Heating		A+	A	A+
Max. Operating Current	Cooling/Heating	A	7.5/10.0	9.0/12.5	9.0/12.5
Annual Energy Consumption	Cooling	kWh/a	207	259	293
	Heating	kWh/a	1467	1614	1774
Moisture Removal		l/h	1.3	1.5	2.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	29/28/26/25	32/30/28/26	32/30/29/27
	Indoor (Heating)	H/M/L/Q	29/28/26/24	32/30/28/25	32/30/29/27
	Outdoor(Cooling/Heating)	High	47/48	49/49	50/50
Sound Power Level	Indoor(Cooling/Heating)	High	58/58	60/60	58/58
	Outdoor(Cooling/Heating)	High	61/63	62/64	62/65
Airflow Rate	Indoor / Outdoor	High	650/1780	800/1910	940/2000
Static pressure range (Standard)		Pa	0 to 90 (25)	0 to 90 (25)	0 to 90 (25)
		mm	198×700×620	198×700×620	198×900×620
Net Dimensions H x W x D	Indoor	kg(lbs)	19 (42)	19 (42)	23 (51)
	Outdoor	mm	578×790×300	578×790×300	578×790×300
Weight		kg(lbs)	40 (88)	40 (88)	40 (88)
Connection Pipe Diameter (Liquid / Gas)		mm	6.35/9.52	6.35/12.70	6.35/12.70
Drain hose Diameter (I.D./O.D.)		mm	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)		m	25 (15)	25 (15)	25 (15)
Max Height Difference			15	15	15
Operation Range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46
	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	1.15 (2.4)	1.25 (2.6)	1.25 (2.6)

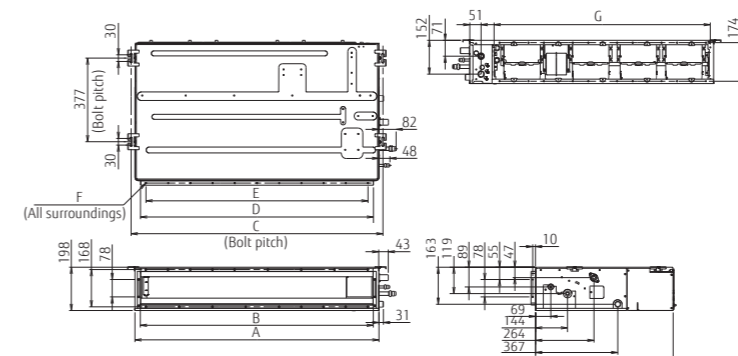
## Optional parts

Wired Remote Controller: UTY-RNNGM, UTY-RVNGM    Auto Louver Grille Kit: UTD-GXTA-W (For ARHG12 / 14LLTB)  
 Simple Remote Controller: UTY-RSNGM    UTD-GXTB-W (For ARHG18LLTB)  
 IR Receiver Kit: UTY-LRHGM    External connect kit: UTD-ECSSA  
 Remote Sensor Unit: UTY-XSZX



## Dimensions

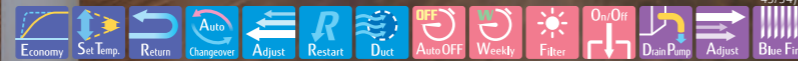
(Unit : mm)



	ARHG12 / 14LLTB	ARHG18LLTB
A	700	900
B	650	850
C	734	934
D	650	850
E	P100x6-600	P100x8-800
F	18xØ5	22xØ5
G	574	774



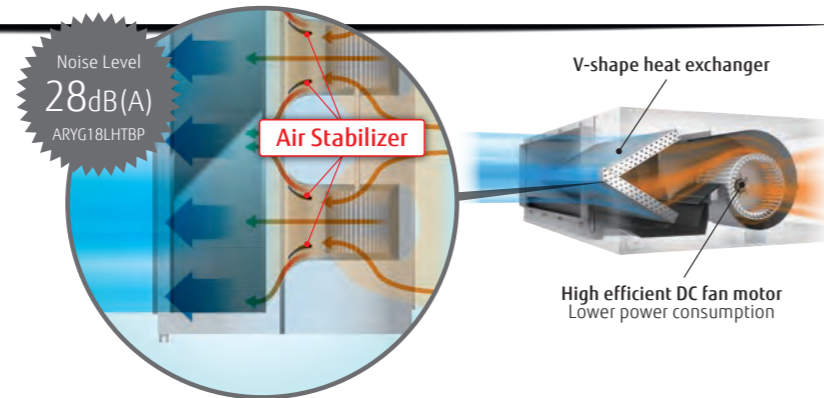
# Medium Static Pressure Duct Compact & Comfort



## Features

### High Efficiency & Quiet operation

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



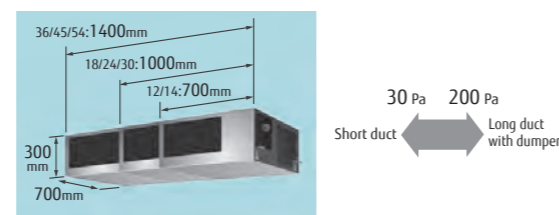
### Automatic Airflow adjustment function

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



### Improved installation flexibility

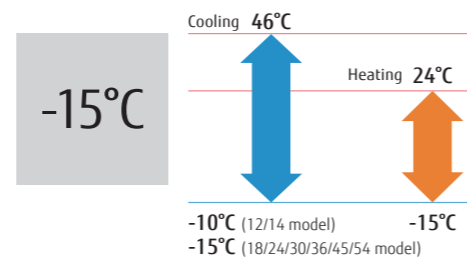
- Capable to be installed in various applications that requires static pressure of 30 Pa to 200 Pa
- Built-in drain pump, rises drain up to 850 mm
- Unified depth throughout the range enables the selection of the capacity regardless of the additional space.



### 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: ARHG12LHTBP / ARHG14LHTBP / ARHG18LHTBP / ARHG24LHTBP  
ARHG30LHTBP / ARHG36LHTBP / ARHG45LHTBP / ARHG54LHTBP

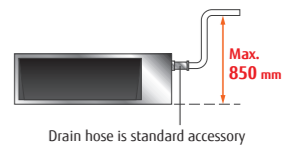


## Specifications

Model No.	Indoor unit		ARHG12LHTBP	ARHG14LHTBP	ARHG18LHTBP	ARHG24LHTBP	ARHG30LHTBP	ARHG36LHTBP	ARHG45LHTBP	ARHG54LHTBP
	Outdoor unit		AOHG12LBLA	AOHG14LBLA	AOHG18LBCA	AOHG24LBCA	AOHG30LBTA	AOHG36LBTA	AOHG45LBTA	AOHG54LBTA
Power Source	Single-phase, ~230V, 50Hz									
Capacity	Cooling	kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-6.5)	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.4 (2.8-11.2)	12.1 (4.0-14.0)	13.4 (4.5-14.5)
	Heating	kW	4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-8.0)	8.0 (0.9-9.1)	10.0 (2.7-11.2)	11.2 (2.7-11.2)	13.3 (4.2-16.2)	16.0 (4.7-16.5)
Input Power	Cooling/Heating	kW	0.90/1.00	1.18/1.25	1.37/1.48	1.95/2.21	2.65/2.70	2.83/3.07	3.59/3.44	4.42/4.62
EER	Cooling	W/W	3.89	3.64	3.80	3.49	3.21	3.32	3.37	3.03
COP	Heating	W/W	4.10	4.00	4.05	3.62	3.70	3.65	3.87	3.46
Pdesign	Cooling/Heating(-10°C)	kW	3.5/4.2	4.3/4.5	5.2/4.3	6.8/6.0	8.5/8.0	9.4/8.7	-	-
SEER	Cooling	W/W	6.20	6.10	7.15	6.50	5.95	5.81	-	-
SCOP	Heating (Average)	W/W	4.10	4.00	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	-	-
Max. Operating Current	Cooling/Heating	A	8.0/10.5	9.5/13.0	10.0/13.5	13.5/18.5	17.0/17.0	20.0/20.0	22.5/22.5	23.5/23.5
	Cooling	kWh/a	198	247	255	366	500	566	-	-
Annual Energy Consumption	Heating	kWh/a	1434	1573	1462	2092	2833	3194	-	-
	Moisture Removal	l/h	0.7	0.9	1.2	1.8	2.3	2.0	2.6	2.6
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	32/27/26/24	33/28/27/25	28/25/22/20	32/28/24/21	36/33/30/29	36/31/28/26	39/35/31/29	39/35/31/29
	Indoor (Heating)	H/M/L/Q	32/27/26/24	33/28/27/25	28/25/22/20	32/28/24/21	36/33/30/29	33/31/28/26	39/35/31/29	39/35/31/29
	Outdoor (Cooling/Heating)	High	47/48	49/49	50/51	55/56	53/55	54/55	55/55	55/57
Sound Power Level	Indoor (Cooling/Heating)	High	57/58	59/60	54/54	57/57	63/65	64/63	67/69	67/69
	Outdoor (Cooling/Heating)	High	60/61	64/63	64/62	68/68	68/69	69/70	68/68	69/71
Airflow Rate (High)	Indoor / Outdoor	High	m³/h	850/1780	950/1910	1050/1900	1360/2460	1700/3600	2050/3800	2550/6750
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)
		mm	300×700×700	300×700×700	300×1000×700	300×1000×700	300×1000×700	300×1400×700	300×1400×700	300×1400×700
Net Dimensions H x W x D	Indoor	mm	27 (59)	27 (59)	36 (79)	36 (79)	36 (79)	46 (101)	46 (101)	46 (101)
	Outdoor	mm	578×790×300	578×790×300	620×790×290	620×790×290	830×900×330	830×900×330	1290×900×330	1290×900×330
Weight	Indoor	kg(lbs)	40 (88)	40 (88)	41 (90)	41 (90)	61 (134)	61 (134)	86 (189)	86 (189)
	Outdoor	kg(lbs)	6.35/9.52	6.35/12.70	6.35/12.70	6.35/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Connection Pipe Diameter (Liquid / Gas)		mm	25/32	25/32	25/32	25/32	25/32	25/32	25/32	
Drain hose Diameter (I.D./O.D.)		mm	25 (15)	25 (15)	30 (15)	30 (15)	50 (20)	50 (20)	50 (20)	
Max Pipe Length (Pre-Charge)		m	15	15	20	20	30	30	30	
Max Height Difference	Cooling	°CDB	-10 to 46	-10 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	
	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-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)	R410A (2,088)	
	Charge	kg(CO2eq-1)	1.15 (2.4)	1.25 (2.6)	1.80 (3.8)	1.80 (3.8)	2.10 (4.4)	2.10 (4.4)	3.35 (7.0)	

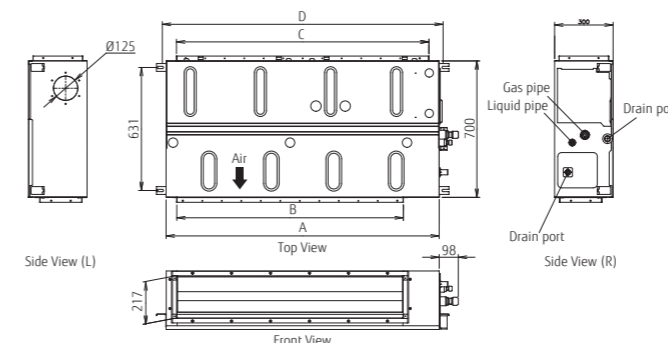
## Optional parts

- Wired Remote Controller: UTY-RNRGZ2, UTY-RVNGM, UTY-RNNGM, UTY-RLRG Long life filter: UTD-LFNA (for ARHG36/45/54LHTBP)  
 Simple Remote Controller: UTY-RSNGM, UTY-RSRG UTD-LFNB (for ARHG24/30LHTBP)  
 IR Receiver Unit: UTY-LBTGM UTD-LFNC (for ARHG12/14LHTBP)  
 External input and output PCB (with bracket): UTY-XCSX + UTZ-GXNA Remote Sensor Unit: UTY-XSZX  
 External connect kit: UTY-XWZXZG, UTY-XWZXZ3



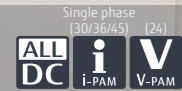
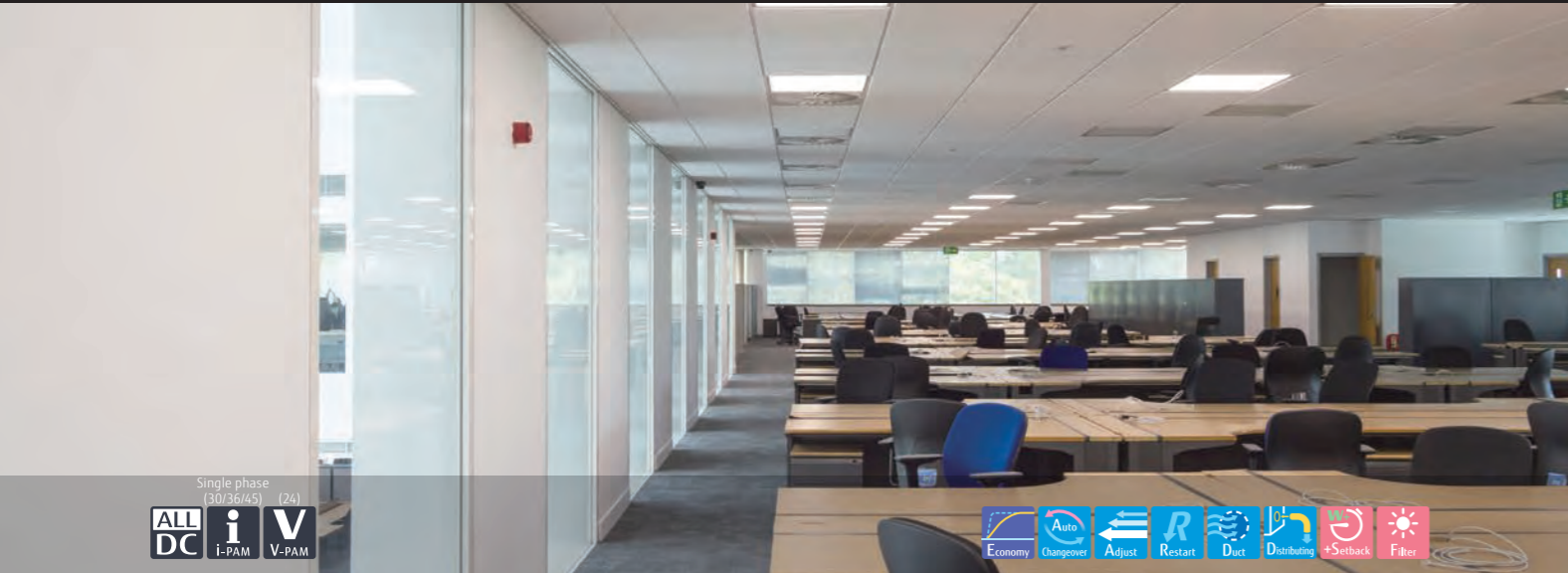
## Dimensions

(Unit : mm)



	ARHG12/14LHTBP	ARHG18/24/30LHTBP	ARHG36/45/54LHTBP
A	700	1,000	1,400
B	462	762	1,162
C	650	895	1,295
D	740	1,040	1,440

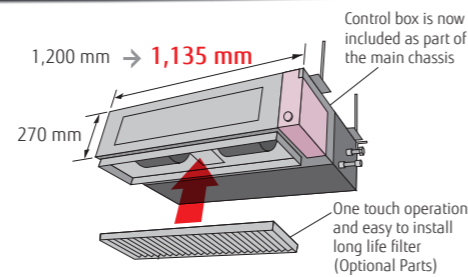
# Medium Static Pressure Duct Standard



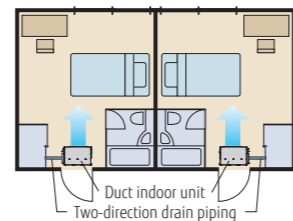
## Features

### Slim & Compact design

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



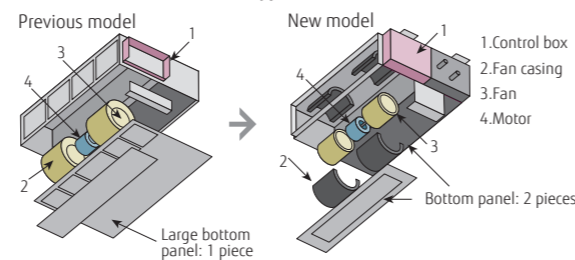
### Two-direction drain piping



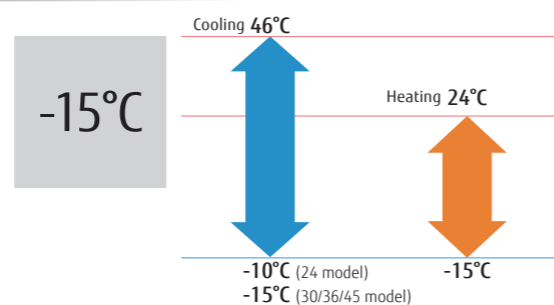
### Easy maintenance

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.

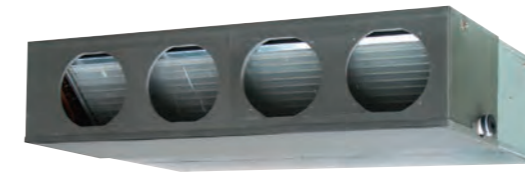
See below for the case of rear suction type



### Low ambient operation



Model : ARHG24LMLA / ARHG30LMLA / ARHG36LMLA / ARHG45LMLA / ARHG36LMLA [3phase] / ARHG45LMLA [3phase]

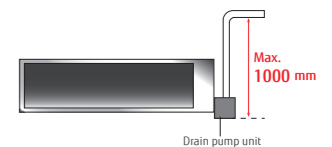


## Specifications

Model No.	Indoor unit		ARHG24LMLA	ARHG30LMLA	ARHG36LMLA	ARHG45LMLA	ARHG36LMLA	ARHG45LMLA
	Outdoor unit		AOHG24LALA	AOHG30LETL	AOHG36LETL	AOHG45LETL	AOHG36LATT	AOHG45LATT
Power Source	Single-phase, ~230V, 50Hz						3-phase, ~400V, 50Hz	
Capacity	Cooling	kW	6.8 (0.9-8.0)	8.5 (2.8-10.0)	9.4 (2.8-11.2)	12.1 (4.0-13.3)	10.0 (4.7-11.4)	12.5 (5.0-14.0)
	Heating		8.0 (0.9-9.1)	10.0 (2.7-11.2)	11.2 (2.7-12.7)	13.1 (4.2-15.5)	11.2 (5.0-14.0)	14.0 (5.4-16.2)
Input Power	Cooling/Heating	kW	2.21/2.26	2.65/2.68	2.96/3.10	3.77/3.68	2.84/2.87	3.89/3.88
	Cooling		3.08	3.21	3.18	3.21	3.52	3.21
EER	Cooling	W/W	3.54	3.73	3.61	3.61	3.90	3.61
	Heating		3.54	3.73	3.61	3.61	3.90	3.61
Pdesign	Cooling/Heating (-10°C)	kW	6.8/6.0	8.5/8.0	9.4/8.7	-	10.0/10.0	-
	Cooling		6.20	5.90	5.70	-	5.80	-
SEER	Cooling	W/W	4.00	3.90	3.80	-	4.00	-
	Heating		4.00	3.90	3.80	-	4.00	-
Energy Efficiency Class	Cooling	A	A++	A+	A+	-	A+	-
	Heating		A+	A	A	-	A+	-
Max. Operating Current	Cooling/Heating	A	12.0/13.5	17.0/17.0	18.5/20.0	21.0/21.0	8.5/8.5	9.5/9.5
	Cooling		384	504	576	-	603	-
Annual Energy Consumption	Cooling	kWh/a	2098	2868	3202	-	3497	-
	Heating		2.5	2.5	3.0	4.0	3.0	4.5
Moisture Removal	Indoor (Cooling)	H/M/L/Q	31/29/27/25	39/35/30/26	39/35/30/26	42/38/32/28	38/36/31/26	42/38/32/28
	Indoor (Heating)		H/M/L/Q	31/29/27/25	42/35/30/26	42/35/30/26	42/38/32/28	40/36/31/26
Sound Pressure Level	Outdoor (Cooling/Heating)	High	52/53	53/55	54/55	55/55	51/53	54/54
	Indoor (Cooling/Heating)		High	60/62	65/69	65/70	-	65/67
Sound Power Level	Outdoor (Cooling/Heating)	High	67/70	68/69	69/70	-	67/69	-
	Indoor / Outdoor		High	1100/2470	1900/3600	1900/3800	2100/6750	1800/6200
Static pressure range (Standard)	Indoor	Pa	30 to 150 (35)	30 to 150 (47)	30 to 150 (47)	30 to 150 (60)	30 to 150 (47)	30 to 150 (60)
	Outdoor		270×1135×700	270×1135×700	270×1135×700	270×1135×700	270×1135×700	270×1135×700
Net Dimensions H x W x D	Indoor	kg(lbs)	38 (84)	40 (88)	40 (88)	40 (88)	40 (88)	40 (88)
	Outdoor		578×790×315	830×900×330	830×900×330	1290×900×330	1290×900×330	1290×900×330
Weight	Indoor	kg(lbs)	44 (97)	61 (134)	61 (134)	86 (190)	104 (229)	104 (229)
	Outdoor		6.35/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Connection Pipe Diameter (Liquid / Gas)	Indoor (Cooling/Heating)	mm	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1	35.7/38.1
	Max Pipe Length (Pre-Charge)		m	30 (15)	50 (20)	50 (20)	50 (20)	75 (30)
Max Height Difference	Cooling	°CDB	-10 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)	kg(CO2eq-T)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		1.70 (3.5)	2.10 (4.4)	2.10 (4.4)	3.35 (7.0)	3.45 (7.2)	3.45 (7.2)

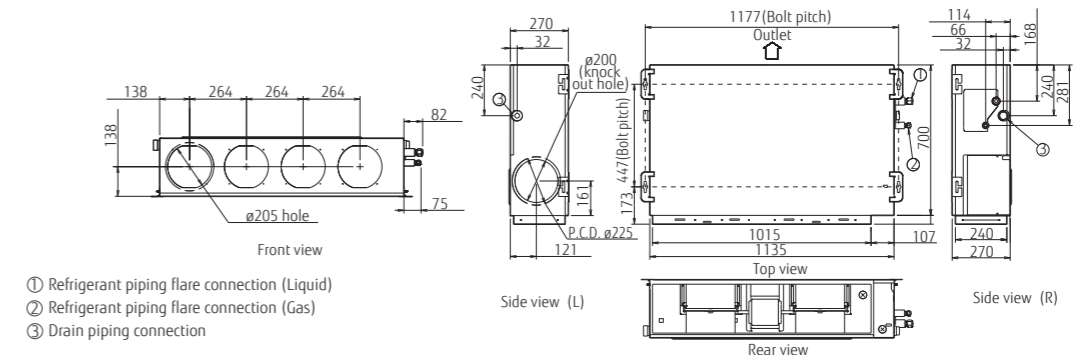
## Optional parts

- Wired Remote Controller: UTY-RNNGM, UTY-RVNGM
- Simple Remote Controller: UTY-RSNGM
- Flange (Round): UTD-RF204
- Flange (Square): UTD-SF045T
- Long Life Filter: UTD-LF25NA
- Remote Sensor Unit: UTY-XSZX
- Drain Pump Unit: UTZ-PX1NBA
- IR Receiver Kit: UTY-LRHGM
- External connect kit: UTD-ECSSA



## Dimensions

(Unit : mm)



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



# High Static Pressure Duct

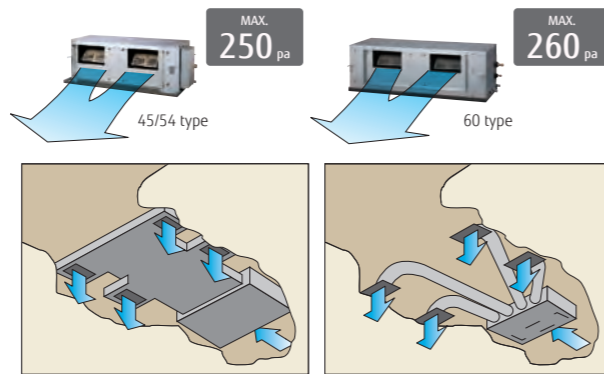


## Features

### High energy efficiency

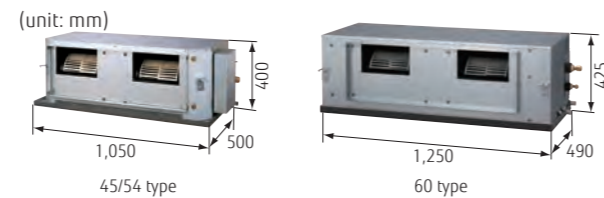
Significantly greater efficiency is realized by using all DC inverter technology. (60 type)

### Design also corresponding to high static pressure



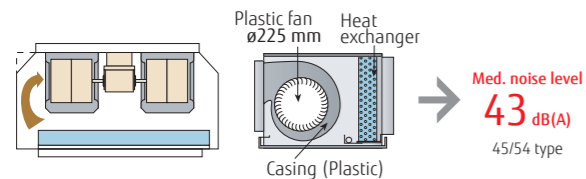
### Easy installation (Compact size & Lightweight)

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

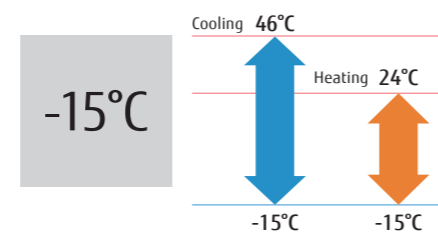


### Low noise

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 : ARHG45LHTA / ARHG54LHTA / ARHG45LHTA [3phase] / ARHG54LHTA [3phase] / ARHG60LHTA [3phase]



## Specifications

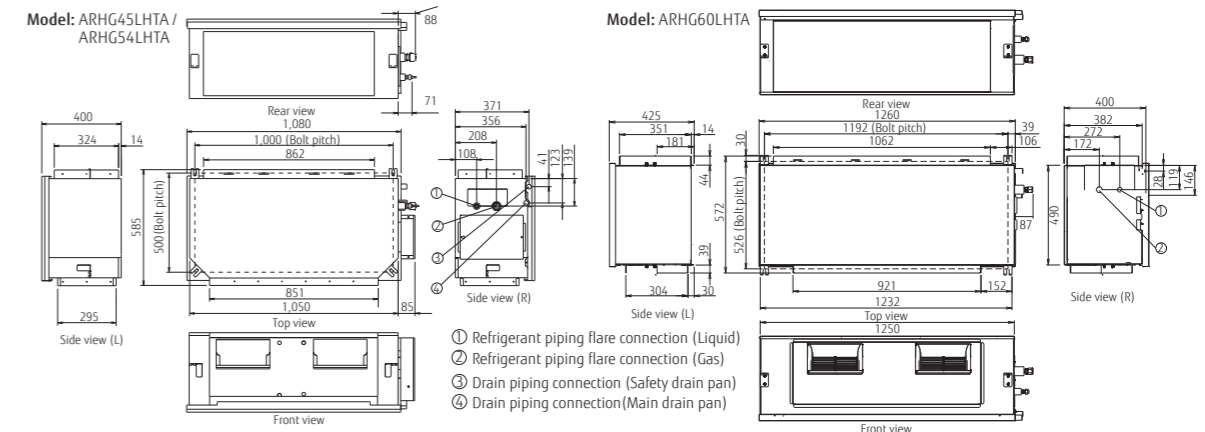
Model No.	Indoor unit		ARHG45LHTA	ARHG54LHTA	ARHG45LHTA	ARHG54LHTA	ARHG60LHTA
	Outdoor unit		AOHG45LETL	AOHG54LETL	AOHG45LATT	AOHG54LATT	AOHG60LATT
Power Source	Single-phase, ~230V, 50Hz				3-phase, ~400V, 50Hz		
Capacity	Cooling	kW	12.5 (4.5-14.0)	13.4 (5.0-14.5)	12.5 (5.0-14.0)	14.0 (5.4-16.0)	15.0 (6.2-17.5)
	Heating		14.0 (5.0-16.2)	16.0 (5.5-18.0)	14.0 (5.4-16.2)	16.0 (5.8-18.0)	18.0 (6.2-20.0)
Input Power	Cooling/Heating	kW	4.30/3.80	4.77/4.69	4.06/3.67	4.65/4.37	4.70/5.15
EER	Cooling	W/W	2.91	2.81	3.08	3.01	3.19
COP	Heating		3.68	3.41	3.81	3.66	3.50
Max. Operating Current	Cooling/Heating	A	22.5/22.5	23.5/23.5	11.0/11.0	12.0/12.0	12.5/12.5
Moisture Removal		l/h	1.5	2.0	1.5	2.5	2.0
Sound Pressure	Indoor (Cooling)	H/M/L/Q	47/43/40/-	47/43/40/-	47/43/40/-	47/43/40/-	45/40/36/-
	Indoor (Heating)	H/M/L/Q	47/43/40/-	47/43/40/-	47/43/40/-	47/43/40/-	45/40/36/-
	Outdoor (Cooling/Heating)	High	55/55	55/57	54/54	55/56	56/58
Airflow Rate	Indoor / Outdoor	High	m³/h	3350/6750	3350/6750	3350/6750	3350/6900
Static pressure range (Standard)		Pa	100 to 250 (100)	100 to 250 (100)	100 to 250 (100)	100 to 250 (100)	60 to 260 (60)
		mm	400×1050×500	400×1050×500	400×1050×500	400×1050×500	425×1250×490
Net Dimensions	Indoor		mm	46 (101)	46 (101)	46 (101)	54 (119)
		H x W x D	kg (lbs)	1290×900×330	1290×900×330	1290×900×330	1290×900×330
Weight	Outdoor		mm	86 (189)	86 (189)	104 (229)	104 (229)
		kg (lbs)	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	
Connection Pipe Diameter (Liquid / Gas)		mm	23.4/25.4	23.4/25.4	23.4/25.4	23.4/25.4	
Drain hose Diameter (I.D./O.D.)		mm	50 (20)	50 (20)	75 (30)	75 (30)	
Max Pipe Length (Pre-Charge)		m	30	30	30	30	
Max Height Difference		°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	
		°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	kg(CO2eq-T)	3.35 (7.0)	3.35 (7.0)	3.45 (7.2)	3.45 (7.2)	3.45 (7.2)

## Optional parts

- Wired Remote Controller: UTY-RNNGM, UTY-RVNGM
- Simple Remote Controller: UTY-RSNGM
- Long-Life Filter: UTD-LF60KA (For ARHG45/54LHTA only)
- Remote Sensor Unit: UTY-XSZX
- IR Receiver Kit: UTY-LRHGM (For ARHG60LHTA only)
- External connect kit: UTD-ECSSA, UTY-XWZXZ3

## Dimensions

(Unit : mm)



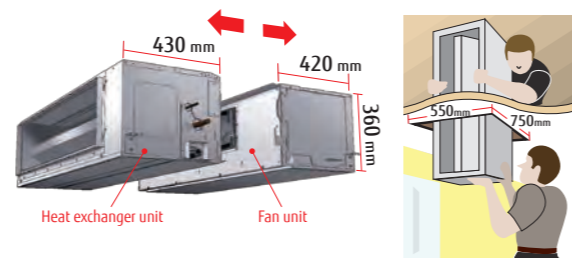
NEW Big Duct



Features

Separation is possible by lightweight compact design

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



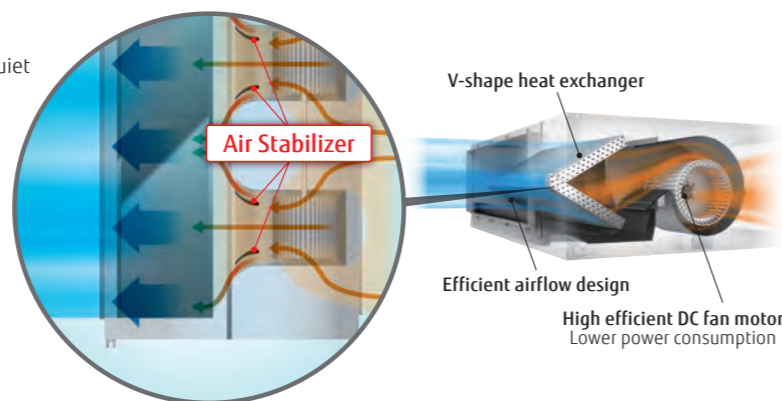
Automatic Airflow adjustment function

This function can set the optimum airflow automatically, so installation time is shortened drastically.



Quiet operation

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



Model : ARHG72LHTA / ARHG90LHTA



Wired R.C.



Specifications

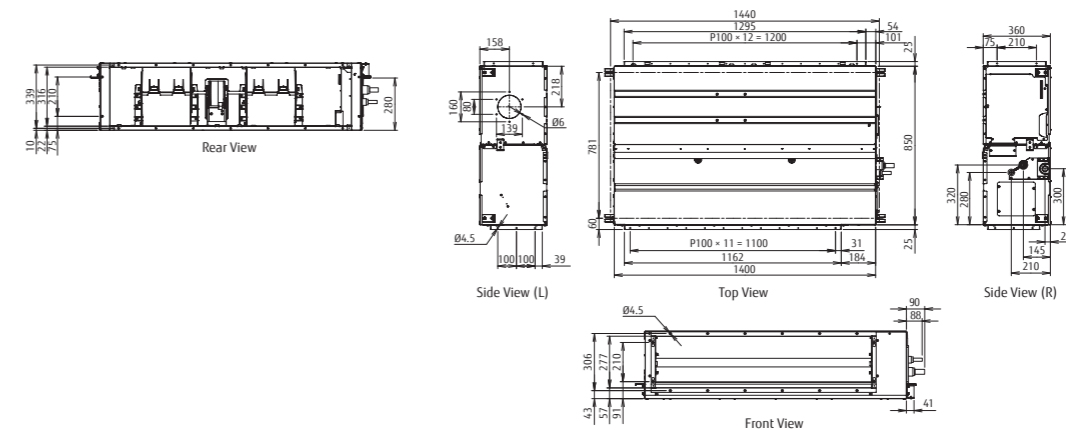
Model No.	Indoor unit		ARHG72LHTA		ARHG90LHTA	
	Outdoor unit		AOHG72LRLA		AOHG90LRLA	
Power Source	Indoor		Single-phase, ~230V, 50Hz			
	Outdoor		3-phase, ~400V, 50Hz			
Capacity	Cooling	kW	19.0 (8.4-20.9)		22.0 (10.3-24.2)	
	Heating		22.4 (7.2-24.6)		27.0 (8.5-29.7)	
Input Power	Cooling/Heating		6.46 / 6.59		7.77 / 8.18	
	Cooling	W/W	2.94		2.83	
EER	Heating		3.4		3.3	
	Max. Operating Current	Indoor(Cooling/Heating)		4.6/4.6		6.0/6.0
Outdoor(Cooling/Heating)		13.3/13.3		14.6/14.6		
Moisture Removal			I/h		6.0	
			4.5		6.0	
Sound Pressure	Indoor (Cooling)	H/M/L/Q	46/43/41/39		47/44/42/40	
	Indoor (Heating)		46/43/41/39		47/44/42/40	
	Outdoor(Cooling/Heating)		High		55/55	
Airflow Rate	Indoor / Outdoor	High	m³/h		4300/8400	
Static pressure range (Standard)			Pa		50 to 150 (72)	
			mm		360×1400×850	
Net Dimensions H x W x D	Indoor		kg (lbs)		80 (176)	
	Outdoor		mm		1428×1080×480	
Weight	Indoor		kg (lbs)		174 (383)	
	Outdoor		kg (lbs)		165 (363)	
Connection Pipe Diameter (Liquid / Gas)			mm		12.7/25.4	
Drain Hose Diameter (I.D./O.D.)			mm		23.4/25.4	
Max Pipe Length (Pre-Charge)			m		100 (30)	
Height Difference	Cooling		-15 to 46		-15 to 46	
	Heating		-20 to 24		-20 to 24	
Refrigerant	Type (Global Warming Potential)		R410A (2,088)		R410A (2,088)	
	Charge		kg(CO2eq-T)		5.6 (11.7)	
				7.1 (14.8)		

Optional parts

- Wired Remote Controller: UTY-RNRG22, UTY-RLRG, UTY-RVNGM, UTY-RNNGM
- Simple Remote Controller: UTY-RSRG, UTY-RHRG, UTY-RSNGN
- IR Receiver Unit: UTY-LBTGM
- Remote Sensor Unit: UTY-XSZX
- External Connect Kit: UTY-XWZXZG
- External Input and Output PCB: UTY-XCSX
- Drain Pump Unit: UTZ-PX1NAB
- Long Life filter: UTD-LFKA

Dimensions

(Unit : mm)





# Floor/Ceiling Comfort & Dual Design



## Features

### Flexible installation

#### Example for floor installation

Floor console



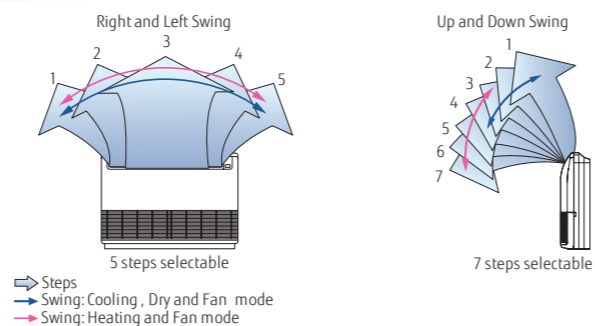
#### Example for ceiling installation

Under ceiling



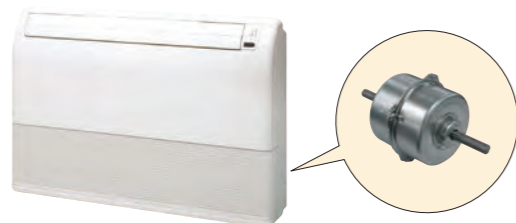
### Double auto swing

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

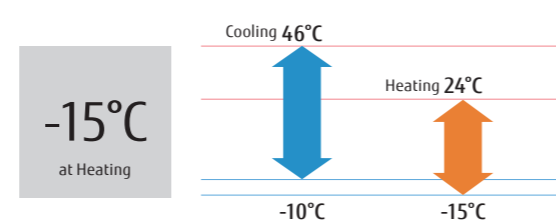


### High power DC fan motor

- High power
- Wide rotation range
- High efficiency



### Low ambient operation



Model : ABHG18LVTB / ABHG24LVTA



Wireless R.C.



For ABHG18LVTB



For ABHG24LVTA

## Specifications

Model No.	Indoor unit		ABHG18LVTB		ABHG24LVTA	
	Outdoor unit		AOHG18LALL		AOHG24LALA	
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW	5.2 (0.9-5.9)		6.8 (0.9-8.0)	
	Heating	kW	6.0 (0.9-7.5)		8.0 (0.9-9.1)	
Input Power	Cooling/Heating		1.62/1.66		2.21/2.26	
	Cooling	W/W	3.21		3.08	
COP	Heating		3.61		3.54	
	Cooling/Heating(-10°C)		5.2/5.2		6.8/6.0	
SEER	Cooling		6.10		5.60	
SCOP	Heating (Average)		4.00		3.90	
Energy Efficiency Class	Cooling		A+		A+	
	Heating (Average)		A+		A	
Max. Operating Current	Cooling/Heating		A		12.0/13.5	
	Cooling	kWh/a	298		425	
Annual Energy Consumption	Heating		1819		2150	
	Moisture Removal		l/h		2.7	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	43/40/34/31		48/44/40/35	
	Indoor (Heating)	H/M/L/Q	43/40/34/31		48/44/40/35	
	Outdoor(Cooling/Heating)	High	50/50		52/53	
Sound Power Level	Indoor(Cooling/Heating)	High	57/57		61/61	
	Outdoor(Cooling/Heating)	High	62/65		67/70	
	Airflow Rate	Indoor / Outdoor	High	780/2000		980/2470
Net Dimensions	Indoor		mm		199×990×655	
	H x W x D		kg(lbs)		27 (59)	
	Outdoor		mm		578×790×315	
Weight	Indoor		kg(lbs)		40 (88)	
	Outdoor		kg(lbs)		44 (97)	
Connection Pipe Diameter (Liquid / Gas)			mm		6.35/12.70	
Drain hose Diameter (I.D./O.D.)			mm		25/32	
Max Pipe Length (Pre-Charge)			m		25 (15)	
Max Height Difference			m		15	
Operation Range	Cooling		°CDB		-10 to 46	
	Heating		°CDB		-15 to 24	
Refrigerant	Type (Global Warming Potential)		R410A (2,088)		R410A (2,088)	
	Charge		kg(CO2eq-T)		1.25 (2.6)	
				1.70 (3.5)		

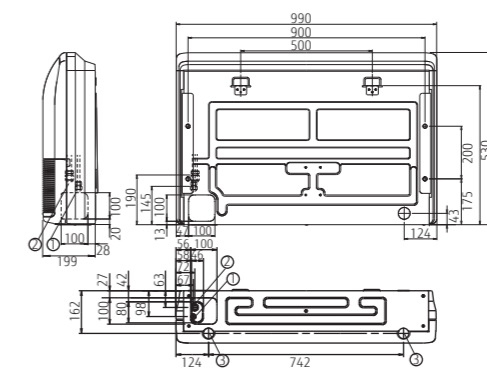
## Optional parts

Wired Remote Controller: UTY-RNNGM, UTY-RVNGM

Simple Remote Controller: UTY-RSNGM

## Dimensions

(Unit : mm)



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

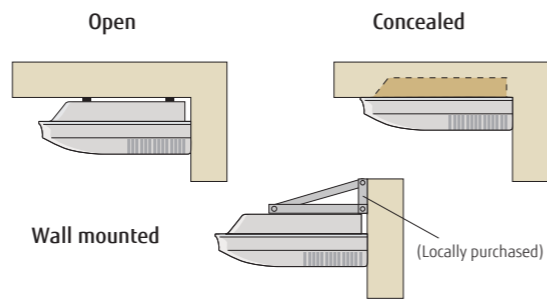
# Ceiling Comfort for Large Room



## Features

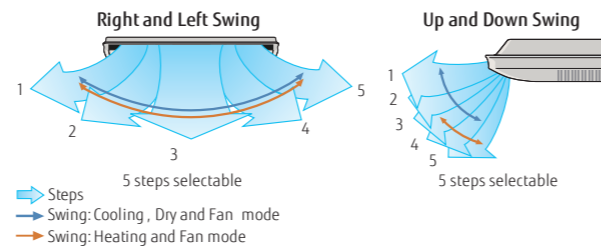
### Flexible installation

Various installations are possible to match the room layout.

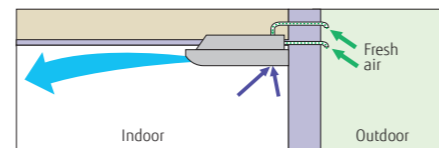


### Multi auto swing

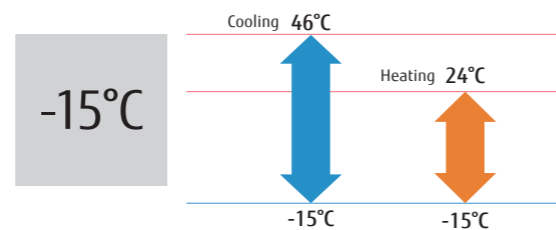
A combination of right/left and up/down directional swing allows 3-dimensional air direction control.



### Fresh air intake



### Low ambient operation



Model : ABHG30LRTE / ABHG36LRTE / ABHG45LRTA /  
ABHG36LRTA [3phase] / ABHG45LRTA [3phase] / ABHG54LRTA [3phase]

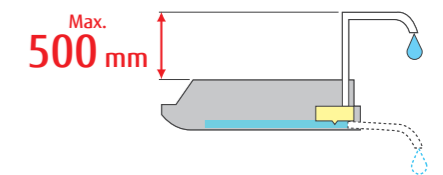


## Specifications

Model No.	Indoor unit		ABHG30LRTE	ABHG36LRTE	ABHG45LRTA	ABHG36LRTA	ABHG45LRTA	ABHG54LRTA
	Outdoor unit		AOHG30LETL	AOHG36LETL	AOHG45LETL	AOHG36LATT	AOHG45LATT	AOHG54LATT
Power Source	Single-phase, ~230V, 50Hz					3-phase, ~400V, 50Hz		
Capacity	Cooling	kW	8.5 (2.8-10.0)	9.4 (2.8-11.2)	12.1 (4.0-13.3)	10.0 (4.7-11.4)	12.5 (5.0-14.0)	14.0 (5.4-16.0)
	Heating		10.0 (2.7-11.2)	11.2 (2.7-12.7)	13.3 (4.2-15.5)	11.2 (5.0-14.0)	14.0 (5.4-16.2)	16.0 (5.8-18.0)
Input Power	Cooling/Heating	kW	2.65/2.77	2.93/3.02	3.77/3.68	2.84/2.87	3.89/3.88	4.65/4.67
EER	Cooling	W/W	3.21	3.21	3.21	3.52	3.21	3.01
COP	Heating		3.61	3.71	3.61	3.90	3.61	3.43
Pdesign	Cooling/Heating(-10°C)	kW	8.5/8.0	9.4/8.7	-	10.0/10.0	-	-
SEER	Cooling	W/W	6.10	6.00	-	6.10	-	-
SCOP	Heating		4.20	4.10	-	4.10	-	-
Energy Efficiency Class	Cooling	A	A++	A+	-	A++	-	-
	Heating		A+	A+	-	A+	-	-
Max. Operating Current	Cooling/Heating	kWh/a	17.0/17.0	18.5/20.0	20.5/20.5	7.9/7.9	8.9/8.9	9.9/9.9
Annual Energy Consumption	Cooling		487	548	-	573	-	-
	Heating	2662	2965	-	3414	-	-	
Moisture Removal		l/h	2.5	3.0	4.0	3.0	4.5	5.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	45/43/37/32	47/43/37/32	49/45/39/34	47/43/37/32	49/45/39/34	51/48/42/38
	Indoor (Heating)		H/M/L/Q	45/43/37/32	47/43/37/32	49/45/39/34	47/43/37/32	49/45/39/34
Sound Power Level	Outdoor(Cooling/Heating)	High	53/55	54/55	55/55	51/53	54/54	55/56
	Indoor(Cooling/Heating)		High	57/60	60/61	-	61/61	-
Airflow Rate	Outdoor(Cooling/Heating)	High	68/69	69/70	-	67/69	-	-
	Indoor / Outdoor		High	m³/h	1660/3600	1900/3800	2100/6200	1900/6200
Net Dimensions H x W x D	Indoor	mm	240×1660×700	240×1660×700	240×1660×700	240×1660×700	240×1660×700	240×1660×700
		kg(lbs)	46 (101)	46 (101)	46 (101)	46 (101)	46 (101)	48 (106)
Weight	Outdoor	mm	830×900×330	830×900×330	1290×900×330	1290×900×330	1290×900×330	1290×900×330
		kg(lbs)	61 (134)	61 (134)	86 (189)	104 (229)	104 (229)	104 (229)
Connection Pipe Diameter (Liquid / Gas)		mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88
Drain port Diameter (I.D./O.D.)		mm	22.0/25.6	22.0/25.6	22.0/25.6	22.0/25.6	22.0/25.6	22.0/25.6
Max Pipe Length (Pre-Charge)		m	50 (20)	50 (20)	50 (20)	75 (30)	75 (30)	75 (30)
Max Height Difference		m	30	30	30	30	30	30
Operation Range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating		-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	kg(CO2eq-T)	2.10 (4.4)	2.10 (4.4)	3.35 (7.0)	3.45 (7.2)	3.45 (7.2)	3.45 (7.2)

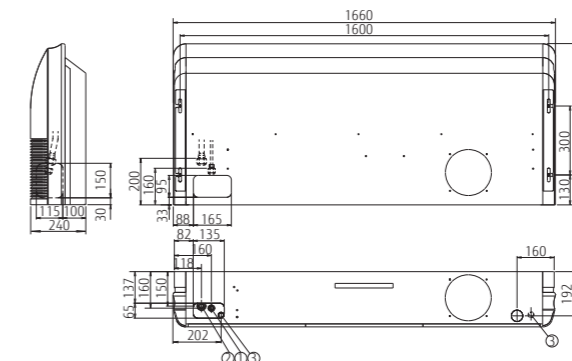
## Optional parts

- Wired Remote Controller: UTY-RNNGM, UTY-RVNGM
- Simple Remote Controller: UTY-RSNGM
- Drain Pump Unit: UTR-DPB24T
- Flange: UTD-RF204



## Dimensions

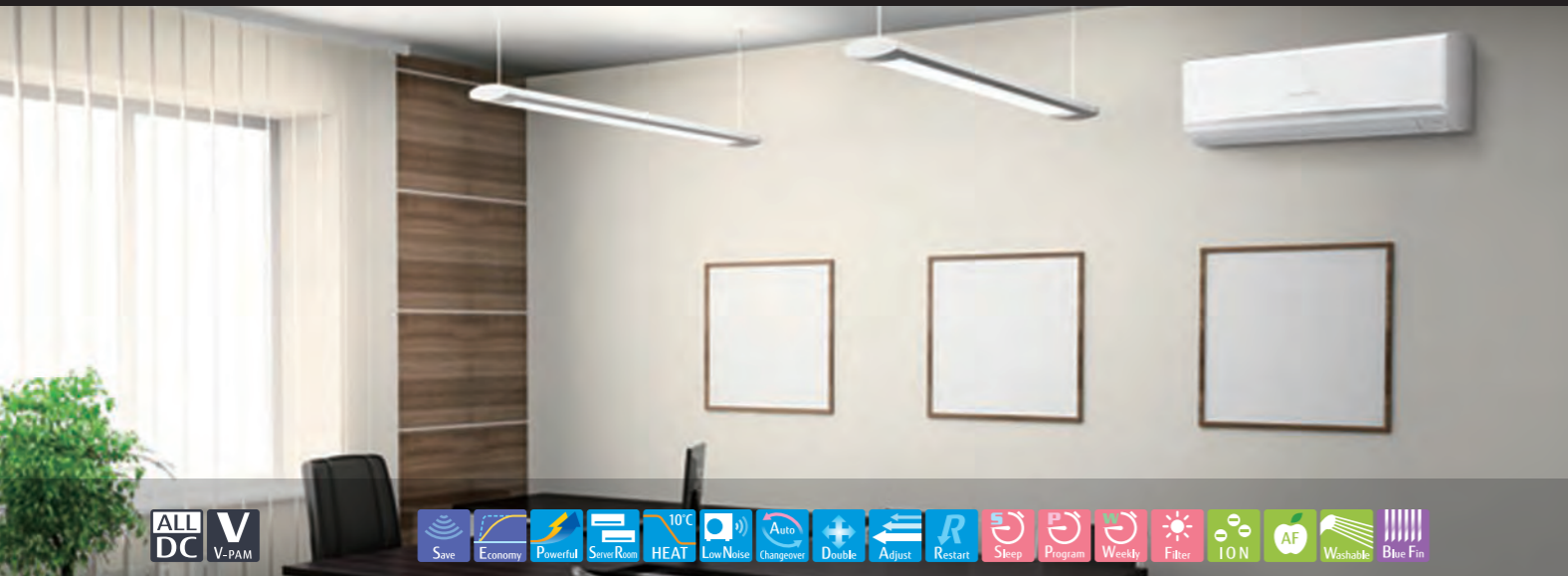
(Unit : mm)



- Refrigerant piping flare connection (Liquid)
- Refrigerant piping flare connection (Gas)
- Drain piping connection



# Wall Mounted Standard Range New Design & Large Capacity



## 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

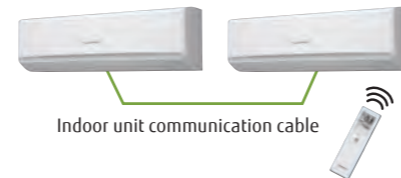
Human sensor catches movements of people in a room, and operates with lower capacity when people leave the room. When people come back to the room, it automatically returns to previous operating mode.



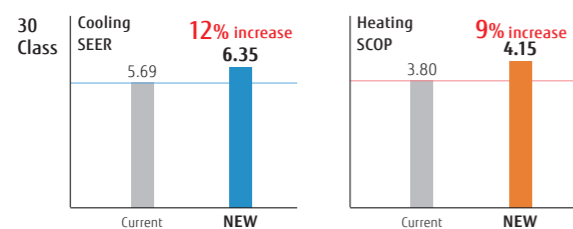
### Server room function\*

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.

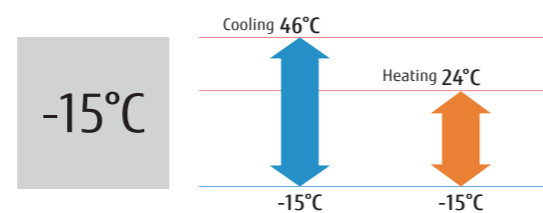
- **Alternative operation:** Two units operate alternately
- **Backup operation:** When 1 unit breaks down, the other unit starts operating automatically.
- **Supporting operation:** Both units operate simultaneously when the loaded capacity is not enough with one unit



### High seasonal energy efficiency



### Low ambient operation



Model: ASHG30LMTA / ASHG36LMTA



## Specifications

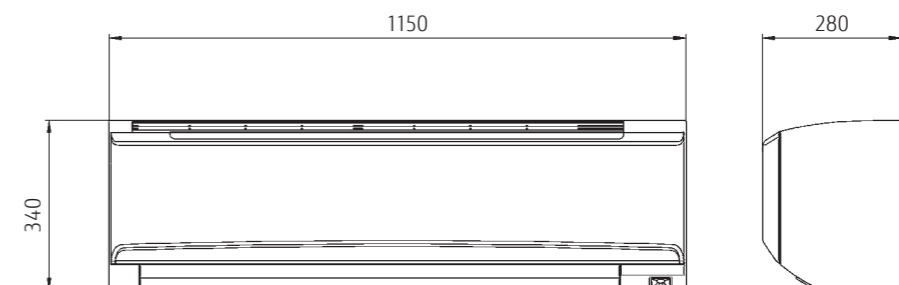
Model No.	Indoor unit		ASHG30LMTA		ASHG36LMTA	
	Outdoor unit		AOHG30LMTA		AOHG36LMTA	
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW	8.0 (2.9-9.0)		9.4 (2.9-10.0)	
	Heating	kW	8.8 (2.2-11.0)		10.1 (2.7-11.2)	
Input Power	Cooling/Heating		2.33/2.41		3.16/2.96	
	Cooling	W/W	3.43		2.97	
COP	Heating		3.65		3.41	
	Cooling/Heating(-10°C)		8.0/6.5		9.4/7.1	
SEER	Cooling	W/W	6.35		5.73	
SCOP	Heating (Average)		4.15		4.19	
Energy Efficiency Class	Cooling		A++		A+	
	Heating (Average)		A+		A+	
Max. Operating Current	Cooling/Heating		A		19.0/19.0	
	Cooling	kWh/a	441		575	
Annual Energy Consumption	Heating		2,193		2,373	
	Moisture Removal		l/h		3.7	
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	50/44/38/31		50/44/38/31	
	Indoor (Heating)	H/M/L/Q	49/44/39/31		49/44/39/31	
	Outdoor(Cooling/Heating)	High	52/55		55/56	
Sound Power Level	Indoor(Cooling/Heating)	High	65/65		65/65	
	Outdoor(Cooling/Heating)	High	67/68		68/70	
	Airflow Rate	Indoor / Outdoor	High	1380/3600		1380/3800
Net Dimensions H x W x D	Indoor		340×1150×280		340×1150×280	
	Outdoor		830×900×330		830×900×330	
Weight	Indoor		18 (40)		18 (40)	
	Outdoor		61 (134)		61 (134)	
Connection Pipe Diameter (Liquid / Gas)			9.52/15.88		9.52/15.88	
Drain hose Diameter (I.D./O.D.)			13.8 / 15.8 to 16.7		13.8 / 15.8 to 16.7	
Max Pipe Length (Pre-Charge)			50 (20)		50 (20)	
Max Height Difference			30		30	
Operation Range	Cooling		-15 to 46		-15 to 46	
	Heating		-15 to 24		-15 to 24	
Refrigerant	Type (Global Warming Potential)		R410A (2,088)		R410A (2,088)	
	Charge		kg(CO2eq-T)		2.10 (4.4)	

## Optional parts

- Wired Remote Controller (Touch panel (two-wire)): UTY-RNRGZ2 + UTY-TWRX
- Wired Remote Controller (High grade (three-wire)): UTY-RVNGM + UTY-XWNX
- Wired Remote Controller (two-wire): UTY-RLRG + UTY-TWRX
- Wired Remote Controller(three-wire): UTY-RNNGM + UTY-XWNX
- Simple Remote Controller (three-wire): UTY-RSNGM, UTY-RSRG + UTY-XWNX
- External input and output PCB (with box): UTY-XCSXZ1 + UTZ-GXXB
- External Connect Kit: UTY-XWZX

## Dimensions

(Unit : mm)











# SIMULTANEOUS MULTI

For Light Commercial



## PRODUCT LINEUP

Type	BTU				
	36	45	54	72	90
Twin/Triple Single phase Page 058	 AOHG36LBTB	 AOHG45LBTB	 AOHG54LBTB		
Twin/Triple 3 phase Page 058	 AOHG36LATT	 AOHG45LATT	 AOHG54LATT		
<b>NEW</b> Twin/Triple/ Double Twin 3 phase Page 060				 AOHG72LRLA	 AOHG90LRLA



### SIMULTANEOUS MULTI

- 058 Simultaneous Multi Twin/Triple
- 060 Simultaneous Multi Twin/Triple/Double Twin



# Simultaneous Multi Twin/Triple

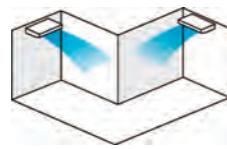


## Features

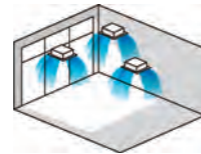
Can support various installation scenes from office to commercial space by same place multi connection of up to 3 units.

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

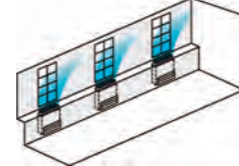
Installation according to floor layout



Installation according to lighting conditions

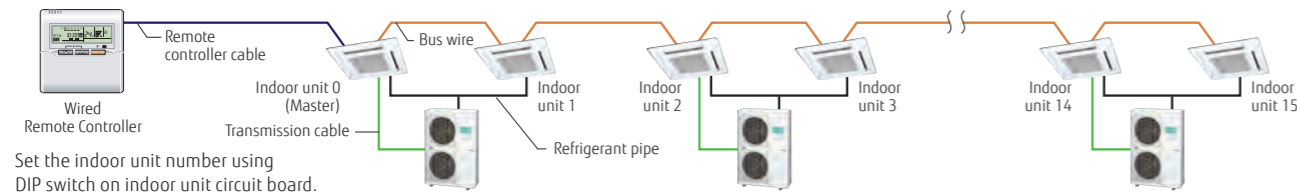


Installation according to layout and lighting conditions



## Simultaneous control

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



Set the indoor unit number using DIP switch on indoor unit circuit board.

## Simultaneous Operation Multi type Indoor Unit Line up

Outdoor unit	AOHG36LBTB/AOHG36LATT		AOHG45LBTB/AOHG45LATT		AOHG54LBTB/AOHG54LATT	
	4HP		5HP		6HP	
Indoor unit	Combination	18×2	Twin 22×2		Triple 24×2	
	Cassette	AUHG18LVLB×2	AUHG22LVLA×2		AUHG24LVLA×2	
	Duct	ARHG18LLTB×2	ARHG22LMLA×2		ARHG24LMLA×2	
	Ceiling	ABHG18LVTB×2	ABHG22LVTA×2		ABHG24LVTA×2	
Separation tube	UTP-SX236A×1		UTP-SX254A×1		UTP-SX254×1	

Model : AOHG36LBTB / AOHG45LBTB / AOHG54LBTB  
AOHG36LATT [3phase] / AOHG45LATT [3phase] / AOHG54LATT [3phase]



## Specifications

Model No.	Indoor unit	Compact Cassette			
		AUHG18LVLB	AUHG22LVLA	AUHG24LVLA	
Power Source		Single-phase, ~230V, 50Hz			
Airflow Rate (High)	Cooling   H/M/L/Q	m <sup>3</sup> /h	680/580/490/410	930/830/600/450	930/830/600/450
Net Dimension H × W × D		mm	245×570×570	245×570×570	245×570×570
Weight		kg (lbs)	15 (33)	16 (35)	16 (35)
Cassette Grille			UTG-UFGD-W	UTG-UFGD-W	UTG-UFGD-W

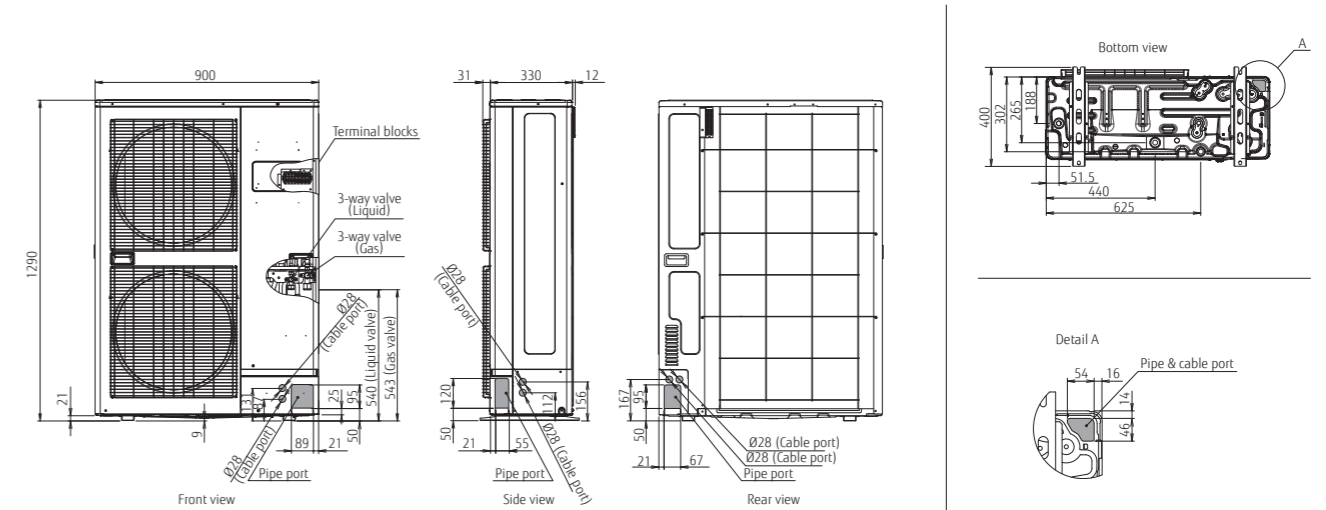
Model No.	Indoor unit	Duct			Floor/Ceiling Universal		
		ARHG18LLTB	ARHG22LMLA	ARHG24LMLA	ABHG18LVTB	ABHG22LVTA	ABHG24LVTA
Power Source		Single-phase, ~230V, 50Hz			Single-phase, ~230V, 50Hz		
Airflow Rate (High)	Cooling   H/M/L/Q	m <sup>3</sup> /h	940/880/820/750	1100/910/750/580	780/700/560/500	980/820/680/540	980/820/680/540
Net Dimension H × W × D		mm	198 × 900 × 620	270 × 1135 × 700	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655
Weight		kg (lbs)	38 (84)	38 (84)	27 (60)	27 (60)	27 (60)

Model No.	Outdoor unit	AOHG36LBTB	AOHG45LBTB	AOHG54LBTB	AOHG36LATT	AOHG45LATT	AOHG54LATT	
		Capacity	Cooling	10.0	12.1	13.3	10.0	12.5
	Heating	11.2	14.0	15.0	11.2	14.0	16.0	
Power Source		Single-phase, ~230V, 50Hz			3-phase, ~400V, 50Hz			
Pdesign	Cooling	10.0	-	-	10.0	-	-	
	Heating (-10°C)	10.0	-	-	10.0	-	-	
SEER	Cooling	5.56	-	-	6.00	-	-	
SCOP	Heating	3.90	-	-	4.00	-	-	
Annual Energy Consumption	Cooling	629	-	-	583	-	-	
	Heating	3588	-	-	3499	-	-	
Energy Efficiency Class	Cooling	A	-	-	A+	-	-	
	Heating	A	-	-	A+	-	-	
Sound Pressure Level (High)	Cooling	52	54	55	51	54	55	
	Heating	69	70	72	69	69	71	
Net Dimension H × W × D		mm	1290×900×330	1290×900×330	1290×900×330	1290×900×330	1290×900×330	
Weight		kg (lbs)	93(205)	93(205)	104 (229)	104 (229)	104 (229)	
Connection Pipe Diameter (Liquid / Gas)		mm	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	9.52/15.88	
Max Pipe Length (Pre-Charge)		m	75(30)	75(30)	75(30)	75(30)	75(30)	
Height Difference		m	30	30	30	30	30	
Operation Range	Cooling	*CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-15 to 24	
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	
	Charge	kg (CO2eq-T)	3.45 (7.2)	3.45 (7.2)	3.45 (7.2)	3.45 (7.2)	3.45 (7.2)	
Separation tube			UTP-SX236A(Twin)	UTP-SX254A(Twin)	UTP-SX254A(Twin)/ UTP-SX354A(Triple)	UTP-SX236A (Twin)	UTP-SX254A (Twin)	UTP-SX254A (Twin) / UTP-SX354A (Triple)

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

## Dimensions

(Unit : mm)



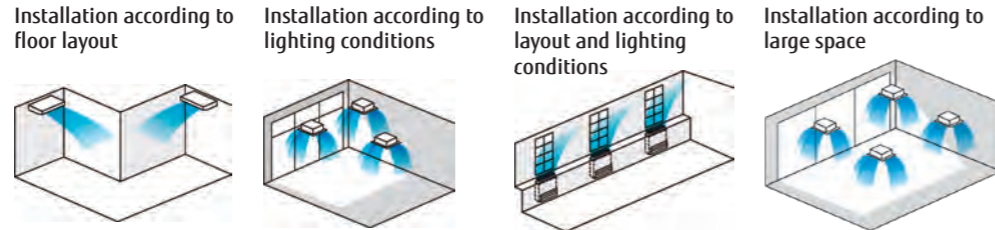
**NEW** Simultaneous Multi Twin/Triple/Double Twin



**Features**

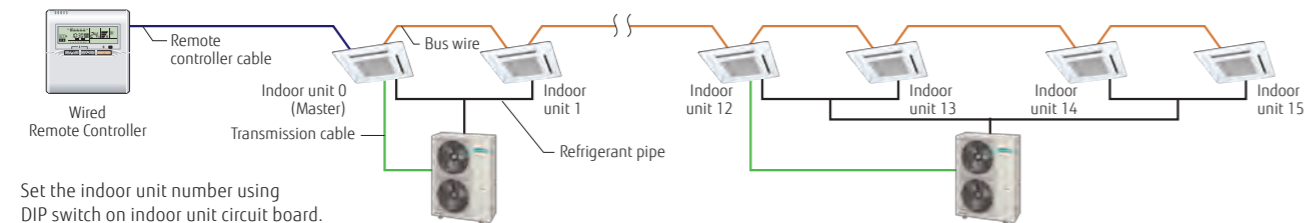
Can support various applications from large open plan offices to retail stores with up to 4 indoor units.

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



**Simultaneous control**

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



Set the indoor unit number using DIP switch on indoor unit circuit board.

\*When using a wireless remote controller, the following functions cannot be used : Timer operation, Sleep Timer operation, 10% Heat operation

**Simultaneous Operation Multi type Indoor Unit Line up**

Outdoor unit	AOHG72LRLA			AOHG90LRLA			
	8HP			10HP			
Indoor unit	Combination	Twin	Triple	Double Twin	Twin	Triple	Double Twin
	Cassette	AUHG36LRLE×2	AUHG24LVLVLA×3	AUHG18LVLVB×4	AUHG45LRLA×2	AUHG30LRLE×3	AUHG22LVLVLA×4
	Duct	ARHG36LMLE×2	ARHG24LMLA×3	ARHG18LLTB×4	ARHG45LRLA×2	ARHG30LMLE×3	ARHG22LMLA×4
	Ceiling	ABHG36LRTE×2	ABHG24LVTA×3	ABHG18LVTB×4	ABHG45LRTA×2	ABHG30LRTE×3	ABHG22LVTA×4
Separation tube		UTP-SX272A×1	UTP-SX372A×1	UTP-SX272A×1 UTP-SX236A×2	UTP-SX272A×1	UTP-SX372A×1	UTP-SX272A×1 UTP-SX254A×2

Model: AOHG72LRLA [3phase] / AOHG90LRLA [3phase]



**Specifications**

Model No.	Indoor unit	Compact Cassette, Cassette					
		AUHG18LVLB	AUHG22LVLVLA	AUHG24LVLVLA	AUHG30LRLE	AUHG36LRLE	AUHG45LRLA
Power Source		Single-phase, ~230V, 50Hz					
Airflow Rate (Cooling)	H/M/L/Q m³/h	680/580/490/410	930/830/600/450	930/830/600/450	1600/1400/1270/1150	1800/1400/1270/1150	1900/1640/1460/1250
Net Dimension H × W × D	mm	245×570×570	245×570×570	245×570×570	288 × 840 × 840	288 × 840 × 840	288 × 840 × 840
Weight	kg(lbs)	15 (33)	16 (35)	16 (35)	26 (57)	26 (57)	26 (57)
Cassette Grille		UTG-UFGD-W			UTG-UGGA-W		

Model No.	Indoor unit	Duct					
		ARHG18LLTB	ARHG22LMLA	ARHG24LMLA	ARHG30LMLE	ARHG36LMLE	ARHG45LMLA
Power Source		Single-phase, ~230V, 50Hz					
Airflow Rate (Cooling)	H/M/L/Q m³/h	940/880/820/750	1100/910/750/580	1100/910/750/580	1900/1620/1270/980	1900/1620/1270/980	2100/1750/1350/1070
Net Dimension H × W × D	mm	198 × 900 × 620	270 × 1135 × 700	270 × 1135 × 700	270 × 1135 × 700	270 × 1135 × 700	270 × 1135 × 700
Weight	kg(lbs)	23 (51)	38 (84)	38 (84)	40 (88)	40 (88)	40 (88)

Model No.	Indoor unit	Floor/Ceiling, Ceiling					
		ABHG18LVTB	ABHG22LVTA	ABHG24LVTA	ABHG30LRTE	ABHG36LRTE	ABHG45LRTA
Power Source		Single-phase, ~230V, 50Hz					
Airflow Rate (Cooling)	H/M/L/Q m³/h	780/700/560/500	980/820/680/540	980/820/680/540	1660/1500/1200/1000	1900/1500/1200/1000	2100/1700/1400/1100
Net Dimension H × W × D	mm	199 × 990 × 655	199 × 990 × 655	199 × 990 × 655	240 × 1660 × 700	240 × 1660 × 700	240 × 1660 × 700
Weight	kg(lbs)	27 (60)	27 (60)	27 (60)	46 (101)	46 (101)	46 (101)

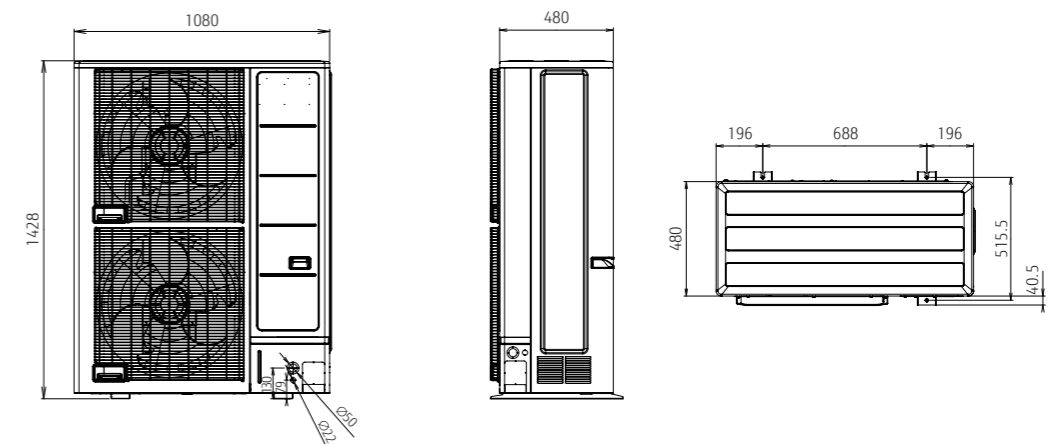
Model No.	Outdoor unit		AOHG72LRLA		AOHG90LRLA	
	Cooling	Heating	kW		kW	
Capacity			19.0	22.4	22.0	27.0
Power Source	3-phase, ~400V, 50Hz					
Sound Pressure Level (High)	Cooling	dB(A)	55		55	
Net Dimension H × W × D		mm	1428×1080×480		1428×1080×480	
Weight		kg(lbs)	163 (359)		172 (378)	
Connection Pipe Diameter (Liquid / Gas)		mm	12.7/25.4		12.7/25.4	
Max Pipe Length (Pre-Charge)		m	100 (30)		100 (30)	
Height Difference			30		30	
Operation Range	Cooling	°CDB	-15 to 46		-15 to 46	
	Heating		-20 to 24		-20 to 24	
Refrigerant	Type (Global Warming Potential)		R410A (2,088)		R410A (2,088)	
	Charge	kg(CO2eq-T)	5.6(11.7)		7.1(14.8)	

\*: That specification is not fixed yet.

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

**Dimensions**

(Unit : mm)

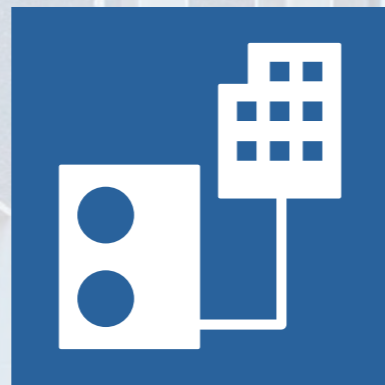













# SMALL VRF

For Light Commercial

# AIRSTAGE™



## PRODUCT LINEUP SMALL VRF Outdoor Units

Capacity (kW)	12.1	14.0	15.1-15.5	22.4	28.0	33.5
HP	4	5	6	8	10	12
<b>NEW</b> J-IIIIL Series Page 064~				 AJH072LELAH	 AJH090LELAH	 AJH108LELAH
J-III Series Page 068~	 AJH040LBLAH AJH040LELAH	 AJH045LBLAH AJH045LELAH	 AJH054LBLAH AJH054LELAH			
J-IIS Series Page 072~	 AJH040LCLAH	 AJH045LCLAH	 AJH054LCLAH			

### SMALL VRF

- 062 PRODUCT LINEUP SMALL VRF Outdoor Units
- 064 AIRSTAGE™ J-IIIIL
- 068 AIRSTAGE™ J-III
- 072 AIRSTAGE™ J-IIS
- 076 PRODUCT LINEUP SMALL VRF Indoor Units
- Small VRF New Indoor Units**
- 078 Cassette Circular Flow
- 079 Mini Duct
- 080 Compact Floor
- 081 Wall Mounted
- 084 Indoor Units for SMALL VRF Specifications



# Heat Pump for Small Capacity Type

## AIRSTAGE™ J-III L

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



### System Outline

#### Compact Outdoor unit

The compact and low sound level enable the units to be installed to various environment with restriction and/or limited spaces such as mechanical rooms and or rooftops.

#### Small room application

Up to 30 indoor units can be connected by the optimum heat exchanger structure. Available to various small rooms.

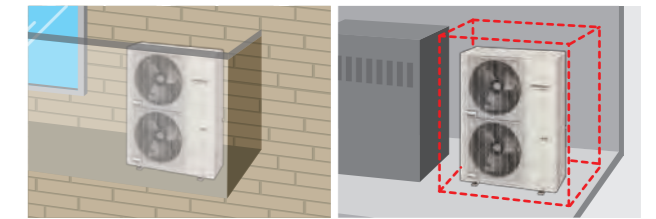
#### Quiet design

Top class low sound operation has been achieved. This allows installation of the units to various places without a special sound prevention work.



### Compact Design

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



Model / 12HP class

Height difference  
**1,428 mm**  
▲26%

Space area  
**0.71 m<sup>2</sup>**  
▲27%

### Advanced high efficiency technology



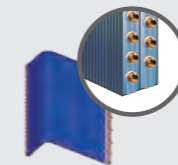
#### Large propeller fan

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



#### 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 2-row large heat exchanger.



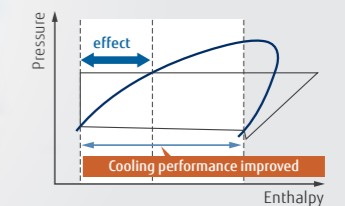
#### DC inverter control

Efficiency is improved by mounting of new active filter module.



#### Subcool heat exchanger

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



15-120 rps



#### Scroll compressor

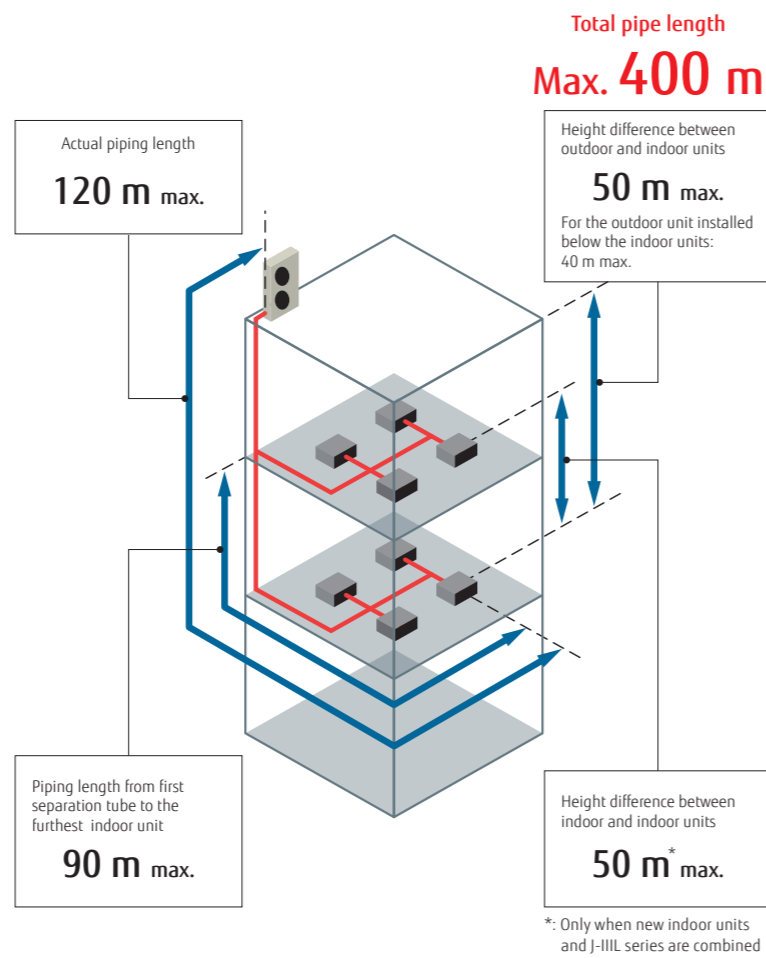
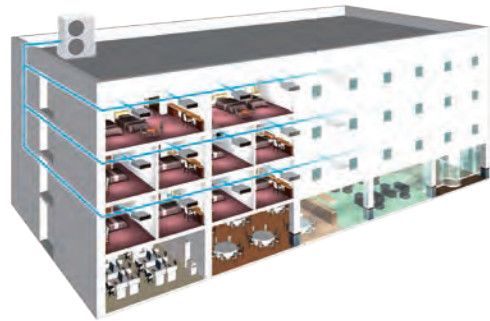
The equipment of scroll compressor with a wide range of rotational frequency from 15 to 120 rps together with Fujitsu General's unique sensorless sine wave control method which smoothly control the input power run into the motor realized a mutual improvement on the energy efficient operation and the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



Features

Long Piping Length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 400 m. This opens up new possibilities in system design.



Up to 30 units can be connected

The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 30 units.

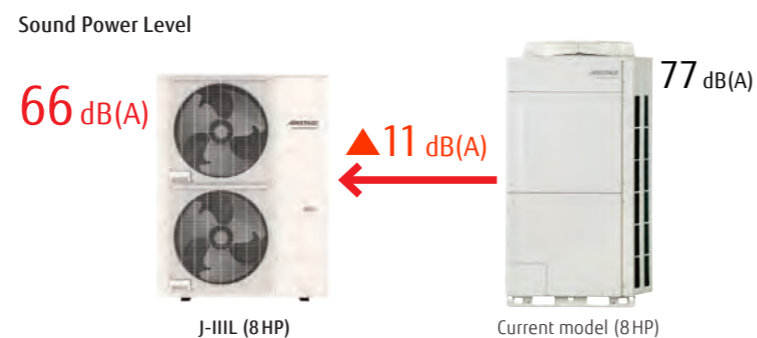
High Static Pressure

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



Top Class Low Operating Sound

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



NEW 8,10,12HP: AJH072LELAH / AJH090LELAH / AJH108LELAH



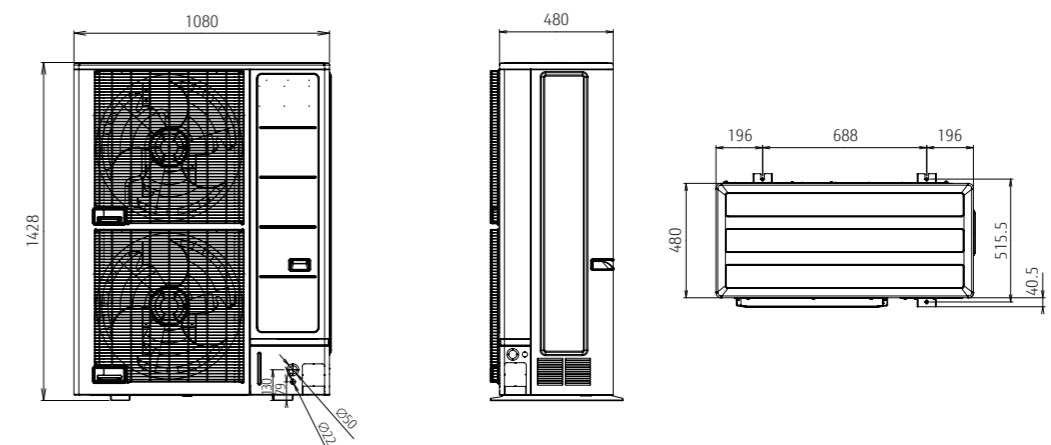
Specifications

Rating Capacity range	HP	8	10	12
Model name		AJH072LELAH	AJH090LELAH	AJH108LELAH
Maximum Connectable Indoor Unit		1-20	1-25	1-30
Power source		3 phase, ~400V, 50Hz		
Capacity	Cooling	22.4	28.0	33.5
	Nominal Heating	22.4	28.0	33.5
	Max Heating	25.0	31.5	37.5
Input power	Cooling	6.30	8.59	10.42
	Nominal Heating	4.65	6.61	8.18
	Max Heating	5.45	8.29	10.25
EER	Cooling	3.56	3.26	3.22
COP	Nominal Heating	4.82	4.24	4.10
	Max Heating	4.56	3.80	3.66
	Air flow rate	m <sup>3</sup> /h	8,400	9,000
Sound pressure level / Power level	Cooling	52/66	54/69	59/73
	Heating	54/—	57/—	61/—
	Height	1,428	1,428	1,428
Net Dimensions	Width	1,080	1,080	1,080
	Depth	480	480	480
	Weight	kg	170	177
Refrigerant	Type (Global Warming Potential)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge kg(CO <sub>2</sub> eq-T)	7.0 (14.6)	7.5 (15.7)	7.5 (15.7)
Connection pipe diameter	Liquid	9.52	9.52	12.70
	Gas	19.05	22.20	28.58
Total pipe length	m	400	400	400
Max. height difference		50/40 (Outdoor unit: Upper/Lower)		
Operation range	Cooling	-15 to 46	-15 to 46	-15 to 46
	Heating	-20 to 21	-20 to 21	-20 to 21

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

Dimensions

(Unit : mm)



# Heat Pump for Small Capacity Type



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

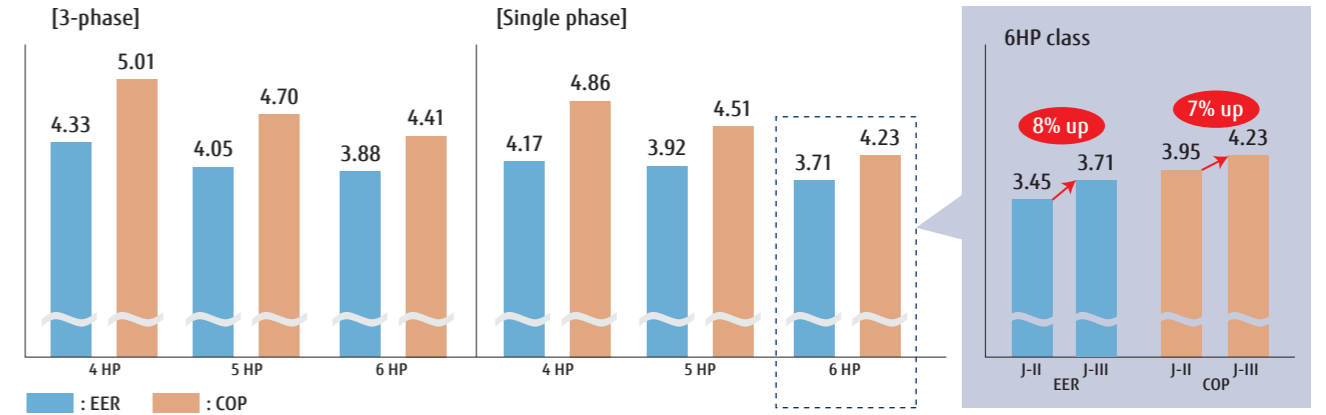
Space saving design and long piping design allow for flexible installation on the roofs or balconies of small and medium-size buildings. Multiple indoor units of various capacities and types can be connected.



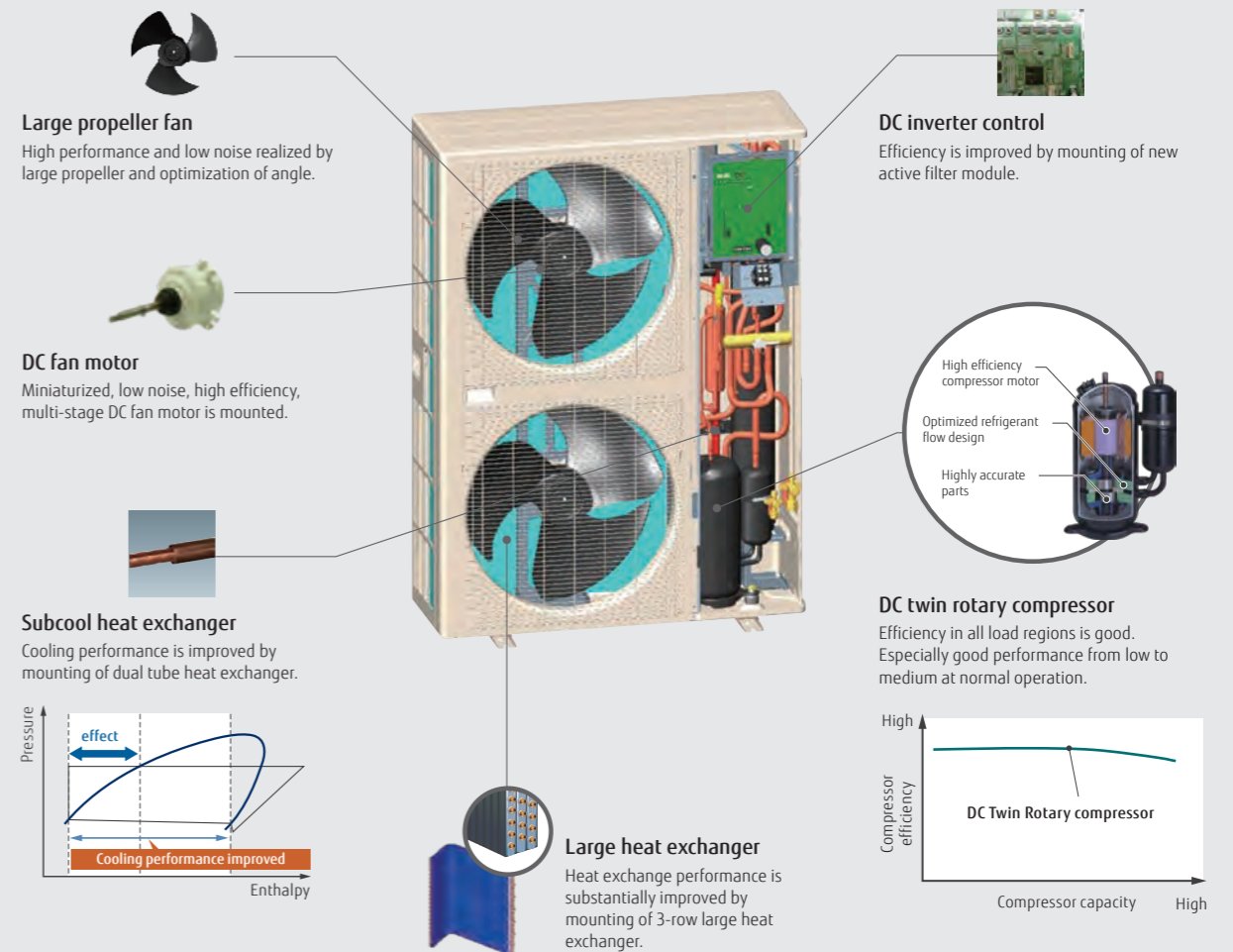
## Efficiency in actual operation

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

## High EER / COP



## Advanced high efficiency technology

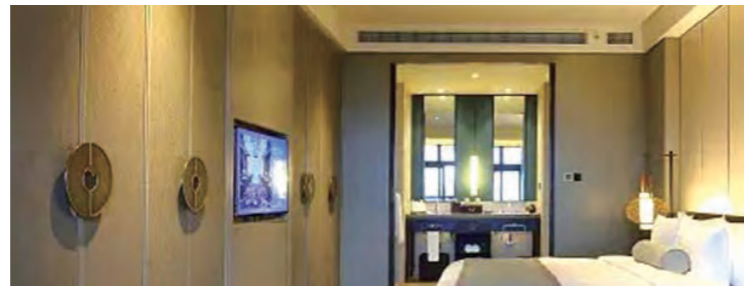




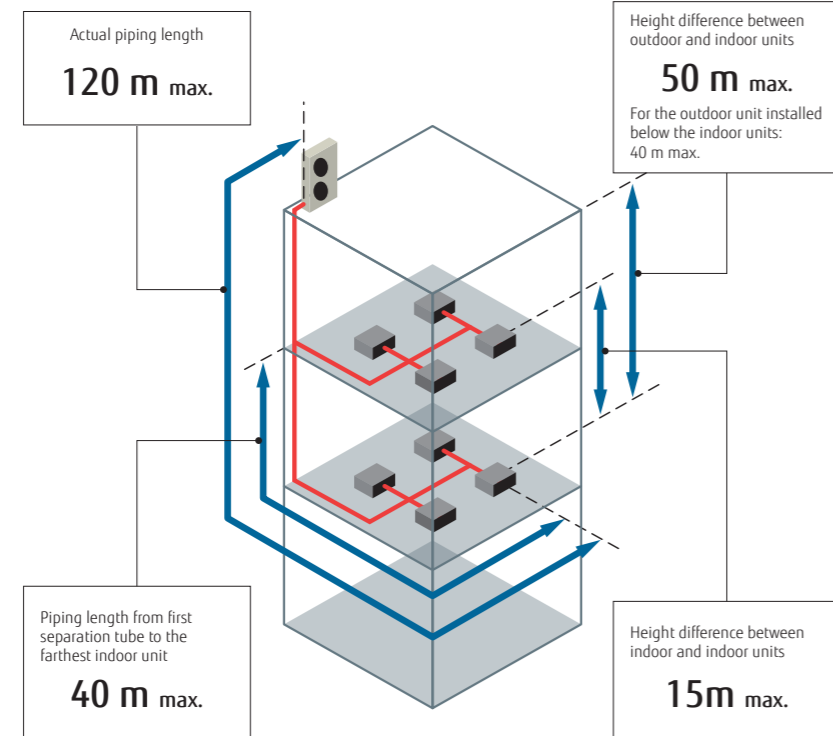
Features

Long Piping Length

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



Total pipe length  
Max. 180 m



4,5,6HP : AJH040LBLAH / AJH045LBLAH / AJH054LBLAH  
AJH040LELAH [3phase] / AJH045LELAH [3phase] / AJH054LELAH [3phase]



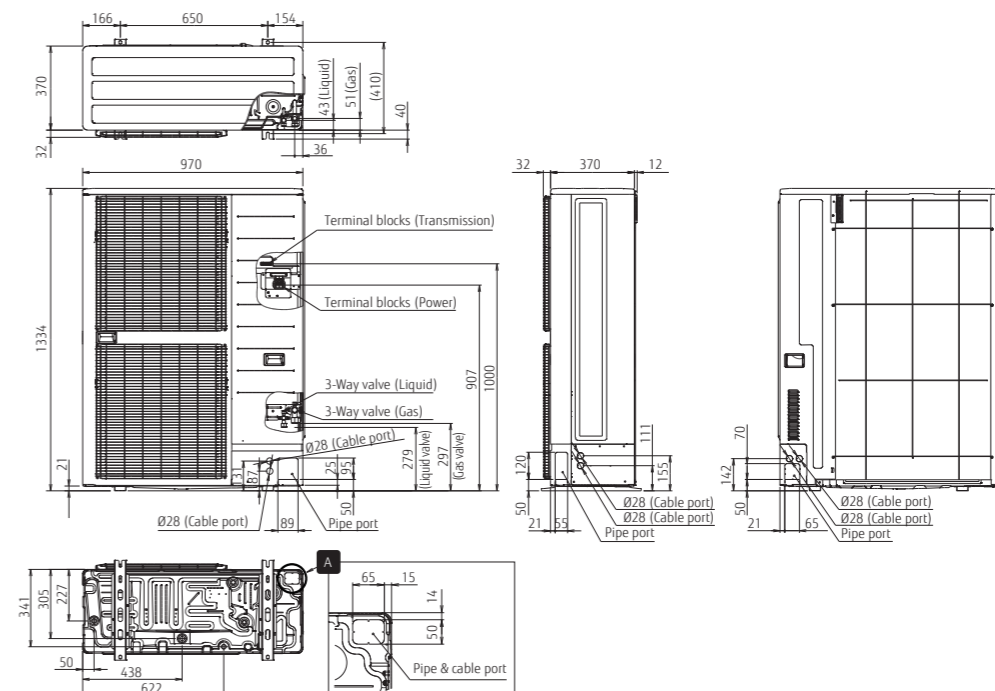
Specifications

Rating Capacity range		HP	4	5	6	4	5	6
Model name			AJH040LBLAH	AJH045LBLAH	AJH054LBLAH	AJH040LELAH	AJH045LELAH	AJH054LELAH
Maximum Connectable Indoor Unit			1-9	1-10	1-13	1-9	1-10	1-13
Power source			Single-phase, ~230V, 50Hz			3-phase, ~400V, 50Hz		
Capacity	Cooling	kW	12.1	14.0	15.5	12.1	14.0	15.5
	Heating	kW	13.6	16.0	18.0	13.6	16.0	18.0
Input power	Cooling	kW	2.90	3.57	4.18	2.79	3.46	3.99
	Heating	kW	2.80	3.55	4.26	2.71	3.40	4.08
EER	Cooling	W/W	4.17	3.92	3.71	4.33	4.05	3.88
COP	Heating	W/W	4.86	4.51	4.23	5.01	4.70	4.41
Air flow rate		m <sup>3</sup> /h	6,200	6,400	6,900	6,200	6,400	6,900
Sound pressure level / Power level	Cooling	dB(A)	50 / 66	51 / 67	53 / 69	50 / 66	51 / 67	53 / 69
	Heating	dB(A)	52 / 68	53 / 69	55 / 71	52 / 68	53 / 69	55 / 71
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,334	1,334	1,334	1,334	1,334	1,334
	Width	mm	970	970	970	970	970	970
	Depth	mm	370	370	370	370	370	370
Weight		kg	117	117	119	119	119	119
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO <sub>2</sub> eq-T)	4.8 (10.0)	5.3 (11.1)	5.3 (11.1)	4.8 (10.0)	5.3 (11.1)	5.3 (11.1)
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Gas	mm	15.88	15.88	19.05	15.88	15.88	19.05
Total pipe length		m	180	180	180	180	180	180
Max. height difference		m	50/40 (Outdoor unit: Upper/Lower)			50/40 (Outdoor unit: Upper/Lower)		
Operation range	Cooling	°C	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating	°C	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note: Specifications are based on the following conditions.  
Cooling: Indoor temperature of 27°CDB/19°CWB, and outdoor temperature of 35°CDB/24°CWB.  
Heating: Indoor temperature of 20°CDB/15°CWB, and outdoor temperature of 7°CDB/6°CWB.  
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit: 0 m.  
The protective function may work when using it outside the operation range.

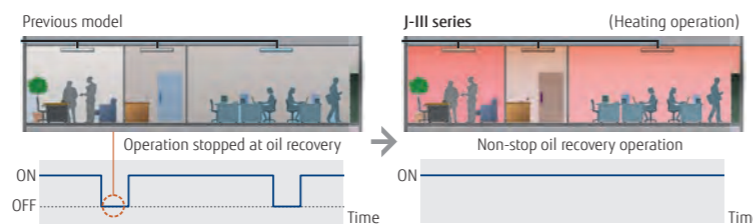
Dimensions

(Unit : mm)



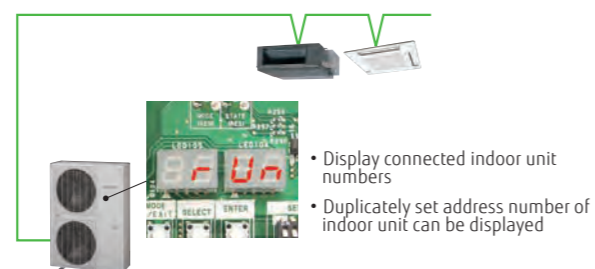
Non-stop oil recovery operation

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.



# Heat Pump for Small Capacity Type



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.

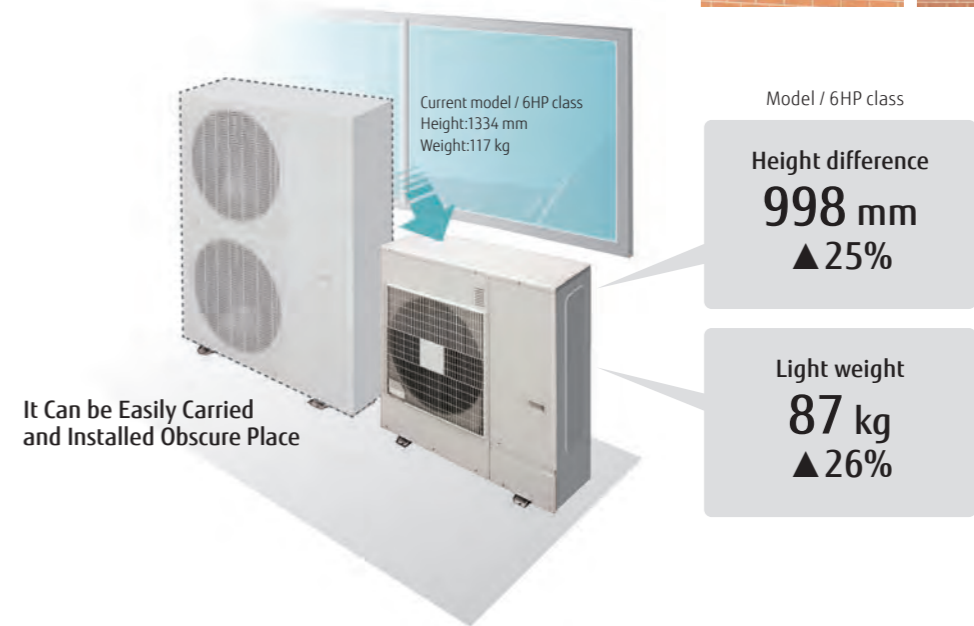
### Flexible systems for homes, shops, small-size buildings air conditioning

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.

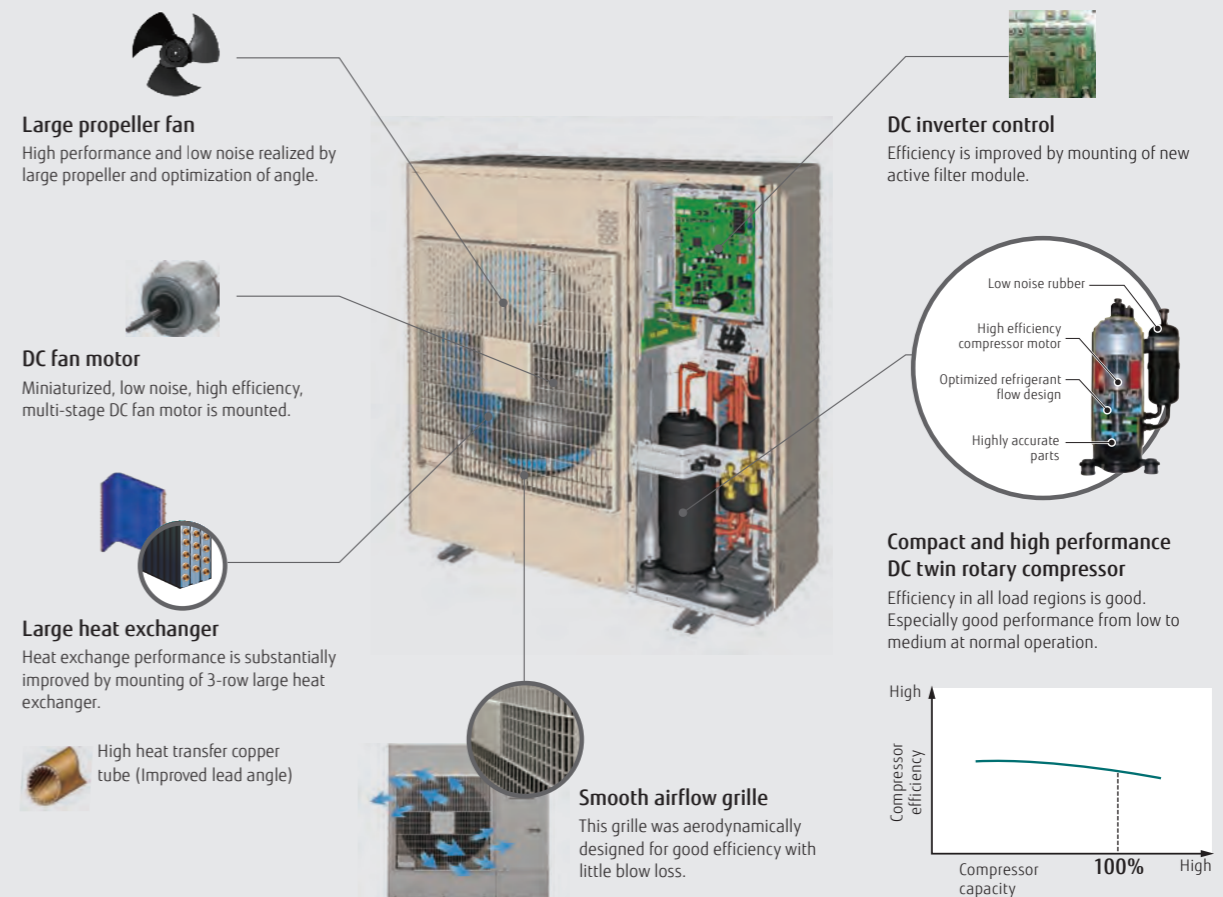


## Small and light weight outdoor unit

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



## Advanced high efficiency technology

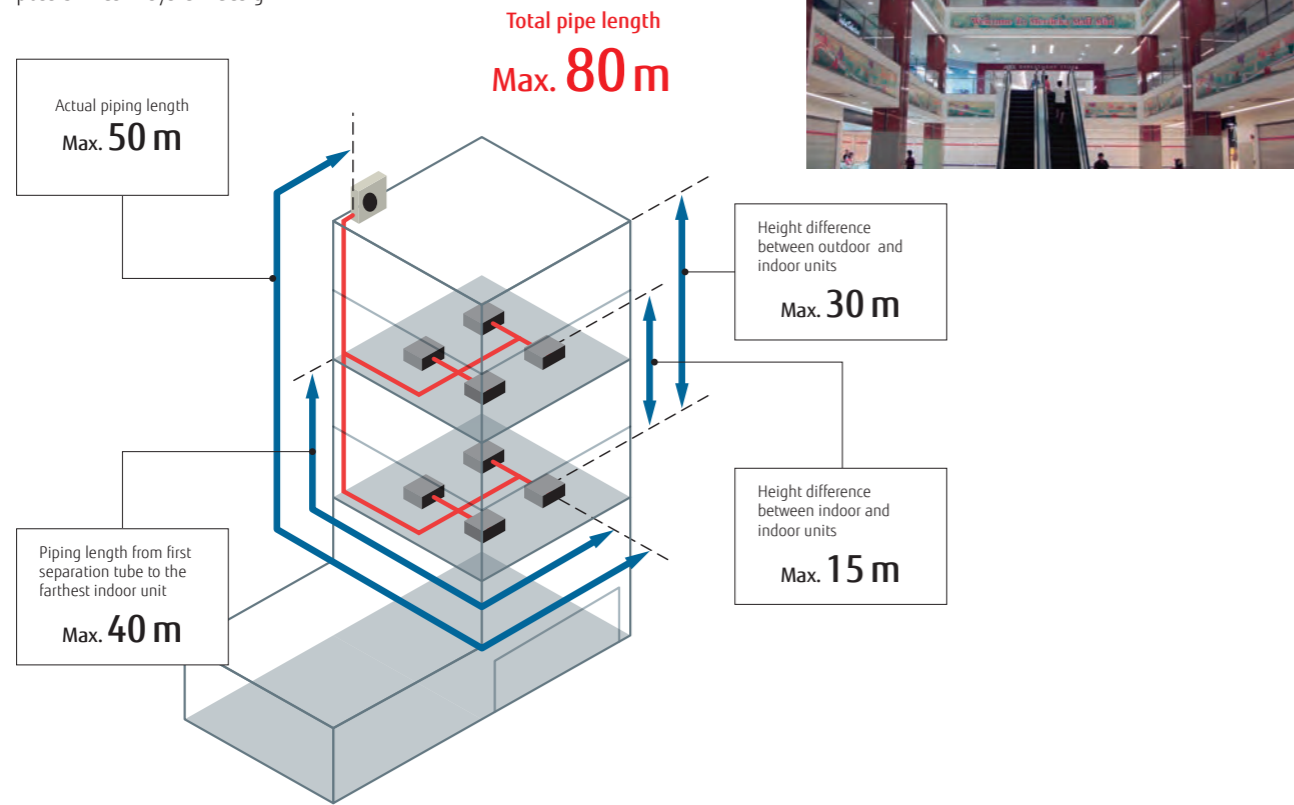




Features

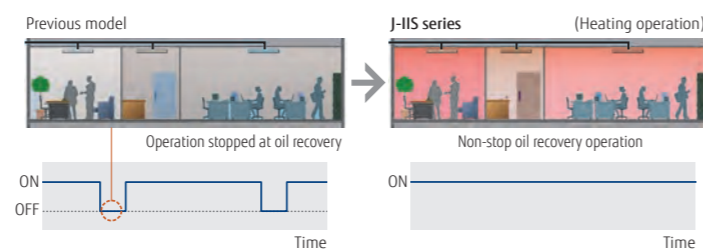
Long piping length

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



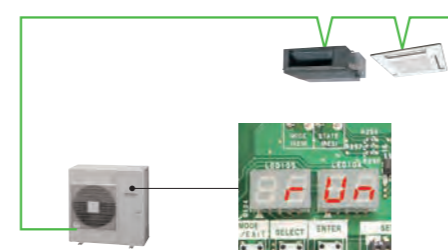
Non-stop oil recovery operation

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

4,5,6HP : AJH040LCLAH / AJH045LCLAH / AJH054LCLAH



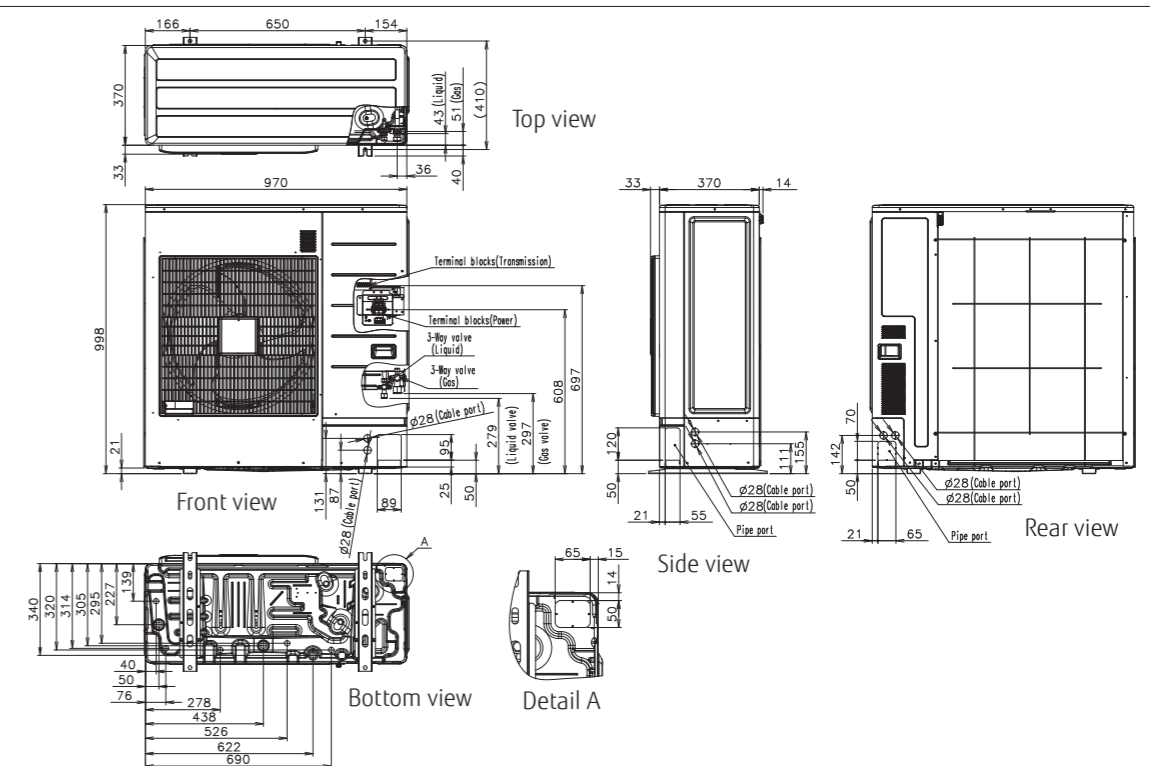
Specifications

Rating Capacity range	HP	4	5	6
Model name		AJH040LCLAH	AJH045LCLAH	AJH054LCLAH
Maximum Connectable Indoor Unit		7	8	8
Power source		Single-phase, ~230V, 50Hz		
Capacity	Cooling	12.1	14.0	15.1
	Heating	13.6	16.0	16.5
Input power	Cooling	3.44	4.43	5.03
	Heating	3.09	3.93	4.11
EER	Cooling	3.52	3.16	3.00
COP	Heating	4.40	4.07	4.01
Air flow rate		4,040	4,200	4,200
Sound pressure level / Power level	Cooling	51 / 67	53 / 69	54 / 70
	Heating	54 / 68	55 / 69	56 / 70
Heat exchanger fin		Blue fin		
Net Dimensions	Height	998	998	998
	Width	970	970	970
	Depth	370	370	370
Weight		86	86	87
Refrigerant	Type (Global Warming Potential)	R410A (2,088)		
	Charge	4.0 (8.4)	4.0 (8.4)	4.0 (8.4)
Connection pipe diameter	Liquid	9.52	9.52	9.52
	Gas	15.88	15.88	15.88
Total pipe length		80	80	80
Max. height difference		30	30	30
Operation range	Cooling	-5 to 46	-5 to 46	-5 to 46
	Heating	-20 to 21	-20 to 21	-20 to 21

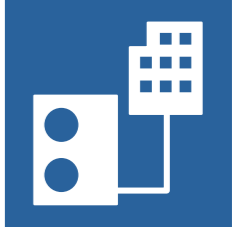
Note : Specifications are based on the following conditions.  
 Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.  
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.  
 Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.  
 The protective function may work when using it outside the operation range.

Dimensions

(Unit : mm)



# SMALL VRF Indoor Units



Capacity range (kW)		1.1	2.2	2.8	3.6	4.5	5.6	7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0	28.0		
Model code		4	7	9	12	14	18	24	30	34	36	45	54	60	72	90	96		
Cassette	Compact	NEW AUXB04GBLH	AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH	AUXB18GALH	AUXB24GALH											
	4-way Flow Slim type						AUXD18GALH	AUXD24GALH											
	4-way Flow Large type						AUXA18GALH*1	AUXA24GALH*1	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH						
	NEW Circular Flow Slim type						AUXM018GLAH	AUXM024GLAH	AUXM030GLAH										
	NEW Circular Flow Large type						AUXK018GLAH	AUXK024GLAH	AUXK030GLAH	AUXK034GLAH	AUXK036GLAH	AUXK045GLAH	AUXK054GLAH						
Duct	Mini Duct (With drain pump)	NEW ARXK04GCLH	ARXK07GCLH	ARXK09GCLH	ARXK12GCLH	ARXK14GCLH	ARXK18GCLH	ARXK24GCLH											
	Slim Duct (With drain pump)	ARXD04GALH*1	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH	ARXD18GALH	ARXD24GALH											
	Medium Static Pressure Duct							ARXA24GBLH	ARXA30GBLH		ARXA36GBLH	ARXA45GBLH							
	High Static Pressure Duct											ARXC36GATH	ARXC45GATH	ARXC60GATH*2	ARXC72GBTH*2	ARXC90GBTH*2	ARXC96GATH*2		
	NEW Large Airflow Duct (Compact type)						ARXN018GLBH*3	ARXN024GTBH*3	ARXN030GTBH*3										
Floor	Floor (*Same as Ceiling models)				ABHA12GATH	ABHA14GATH	ABHA18GATH	ABHA24GATH											
	Slim Concealed Floor (*Same as Slim Duct models)	ARXD004GALH	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH	ARXD18GALH	ARXD24GALH											
	NEW Compact Floor	AGHA004GCAH	AGHA007GCAH	AGHA009GCAH	AGHA012GCAH	AGHA014GCAH													
	NEW Compact Floor (EEV external)	AGHE004GCAH	AGHE007GCAH	AGHE009GCAH	AGHE012GCAH	AGHE014GCAH	With this model, connection of EV kit is necessary.												
Ceiling				ABHA12GATH	ABHA14GATH	ABHA18GATH	ABHA24GATH	ABHA30GATH		ABHA36GATH	ABHA45GATH	ABHA54GATH							
Wall Mounted	Wall Mounted	NEW ASHA004GTAH	NEW ASHA007GTAH	NEW ASHA009GTAH	ASHA12GACH	ASHA14GACH	NEW ASHA18GBCH	NEW ASHA24GBCH	NEW ASHA30GTAH	NEW ASHA34GTAH									
	Wall Mounted (EEV external)	NEW ASHE004GTAH	NEW ASHE007GTAH	NEW ASHE009GTAH	ASHE12GACH	ASHE14GACH	With this model, connection of EV kit is necessary.												

\*1: ARXD04GALH and AUXA18/24GALH cannot be connected to J-III L series. \*2: ARXC60/72/90/96G can be connected to J-III L series only. \*3: Large Airflow Duct (Compact type) can be connected to J-III L series only.



NEW

Cassette Circular Flow Comfort for large room

AIRSTAGE™



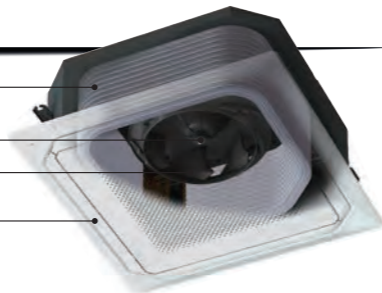
Model: AUXM018GLAH / AUXM024GLAH / AUXM030GLAH  
AUXK018GLAH / AUXK024GLAH / AUXK030GLAH / AUXK034GLAH / AUXK036GLAH / AUXK045GLAH / AUXK054GLAH

Features

Unique Circular Flow design

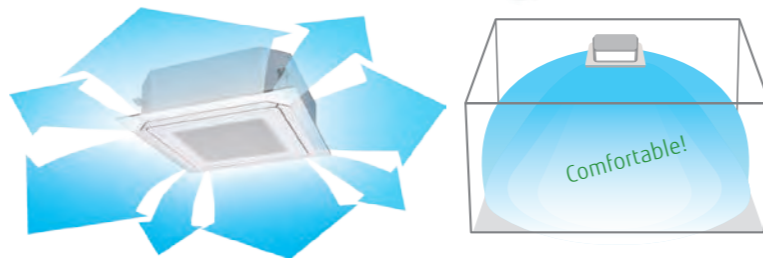
New Cassette type realizes Circular Flow to blow large airflow in 360° direction by mounting high performance DC fan motor, new turbo fan and unique seamless airflow louver design.

- 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-RNRGZ2) only

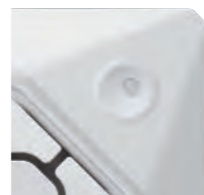


Comfortable air conditioning by preventing direct blowing of cold air and by providing swinging air flow simultaneously.

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-RNRGZ2) only

NEW

Mini Duct

AIRSTAGE™

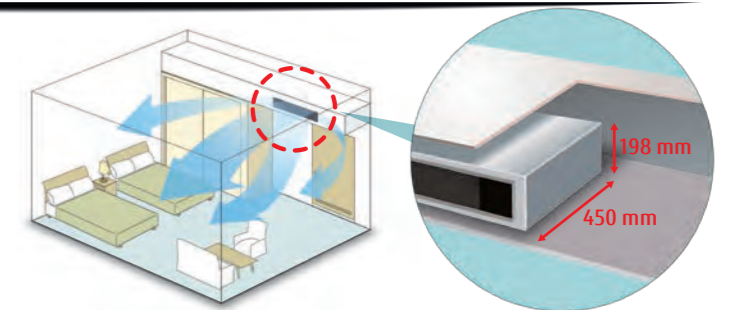


Model: ARXK04GCLH / ARXK07GCLH / ARXK09GCLH / ARXK12GCLH / ARXK14GCLH / ARXK18GCLH / ARXK24GCLH

Features

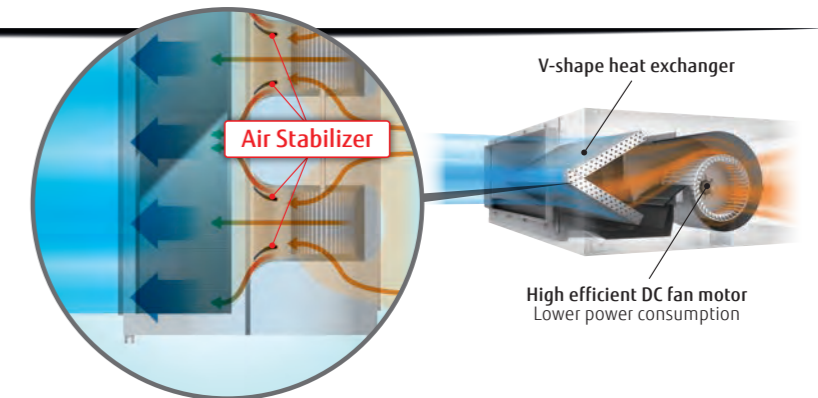
Large living space available

- Installation space can be reduced down to minimum depth 450 mm height 198 mm and compact design
- Minimum size: Depth 450 mm, Height 198 mm Volume 27% down compared with current model
- Lightweight: 14.5 kg 15% down (4 class)



Optimum airflow path and low noise operation

Low noise is realized drastically by stabilized airflow design



V-shape heat exchanger

High efficient DC fan motor  
Lower power consumption

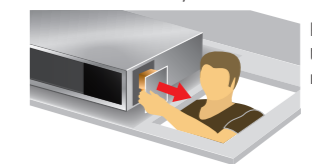
Easy design and maintenance for drain

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

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

\*: 0 to 30 Pa. (12)

Built-in drain pump as standard:  
Maintenance is easy



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

Auto Louver Grille Kit (Option)

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





NEW

# Large Airflow Duct Compact type

AIRSTAGE™



## Features

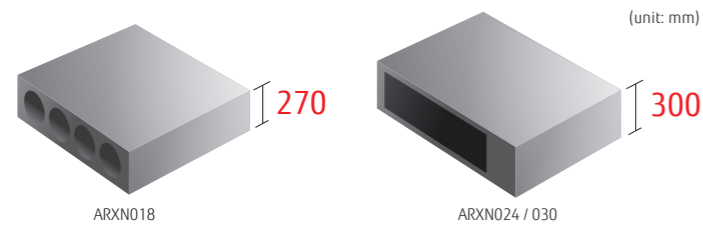
### Large airflow volume

It can be installed in places such as early replacement of air required by large airflow volume.



### Slim & Compact design

It can be installed in places such as early replacement of air required by large airflow volume.



### Quiet operation

Multistep airflow speed control allows this model to install in a quiet location.



NEW

# Compact Floor Compact & Comfort

AIRSTAGE™

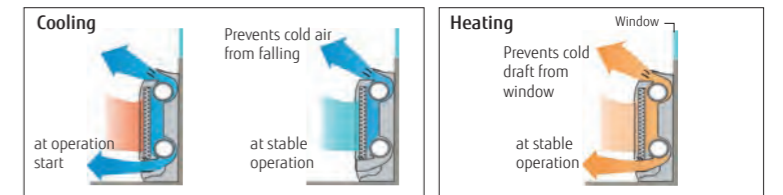


Model: AGHA004GCAH / AGHA007GCAH / AGHA009GCAH / AGHA012GCAH / AGHA014GCAH / AGHE004GCAH / AGHE007GCAH / AGHE009GCAH / AGHE012GCAH / AGHE014GCAH (EEV external)

## Features

### 2-Fan & Wide airflow

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



### Quiet operation

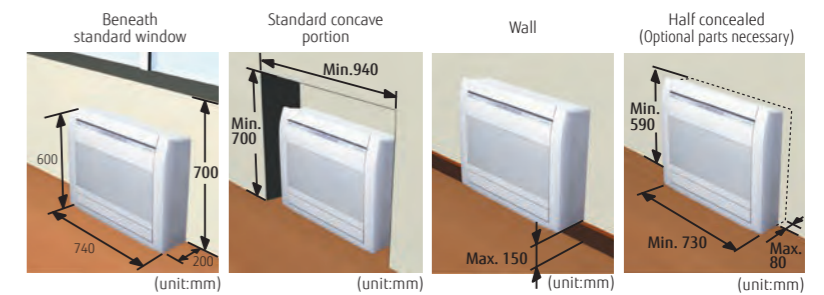
Quiet operation is realized by 6 fan speed control (via 2 wire controller)



\* Compatible Remote Controller is as follows: UTY-RNRGZ2 / UTY-RLRG / UTY-RSRG / UTY-RHRG / UTY-DCGG / UTY-DTGGZ1 / UTY-ALGX / UTY-APGX

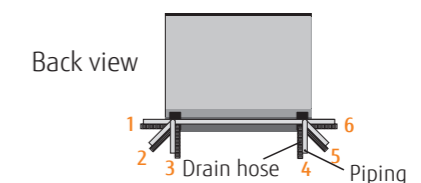
### Flexible & easy installation

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

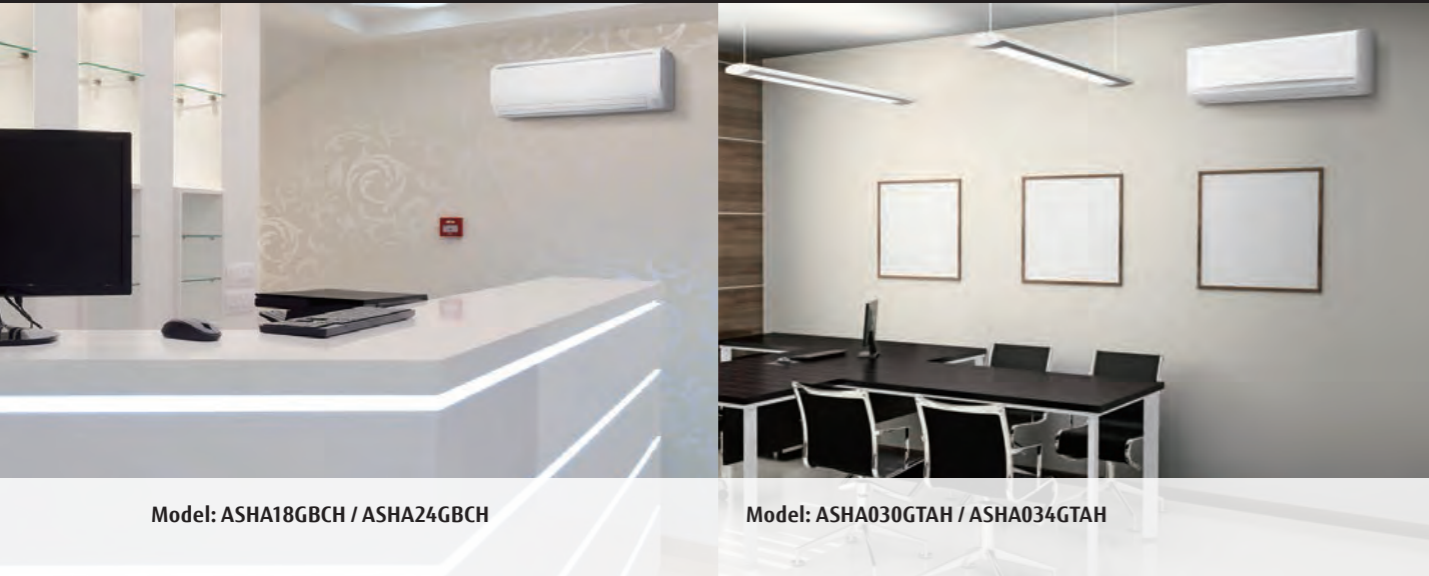
Drain hose and piping can be drawn flexibly in the right, left, side, and down directions





NEW

Wall Mounted Standard Range



Model: ASHA18GBCH / ASHA24GBCH

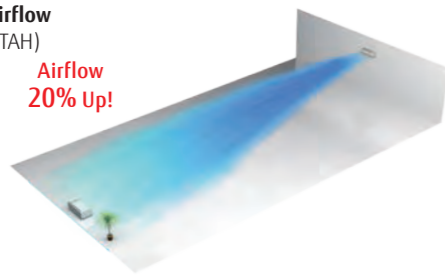
Model: ASHA030GTAH / ASHA034GTAH

Features

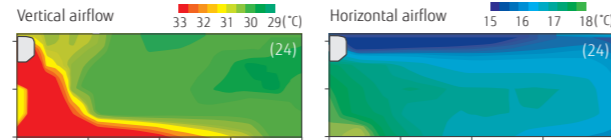
Powerful & Comfort airflow

Powerful Airflow (ASHA030GTAH)

Airflow 20% Up!



Power diffuser (ASHA18/24GBCH)



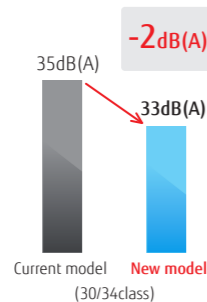
Human sensor (ASHA030/034GTAH only)

A human sensor senses the movement of humans to reduce operation when one is in the room. the wasteful consumption of energy is reduced automatically to keep down electricity bills. (Available to wired remote controller as UTY-RNRGZ2)



Quiet operation & 6 Fan speed control

Drastic low noise is realized by new airflow structure. In addition, multistep quiet operation is available by 6-step sound level settings.



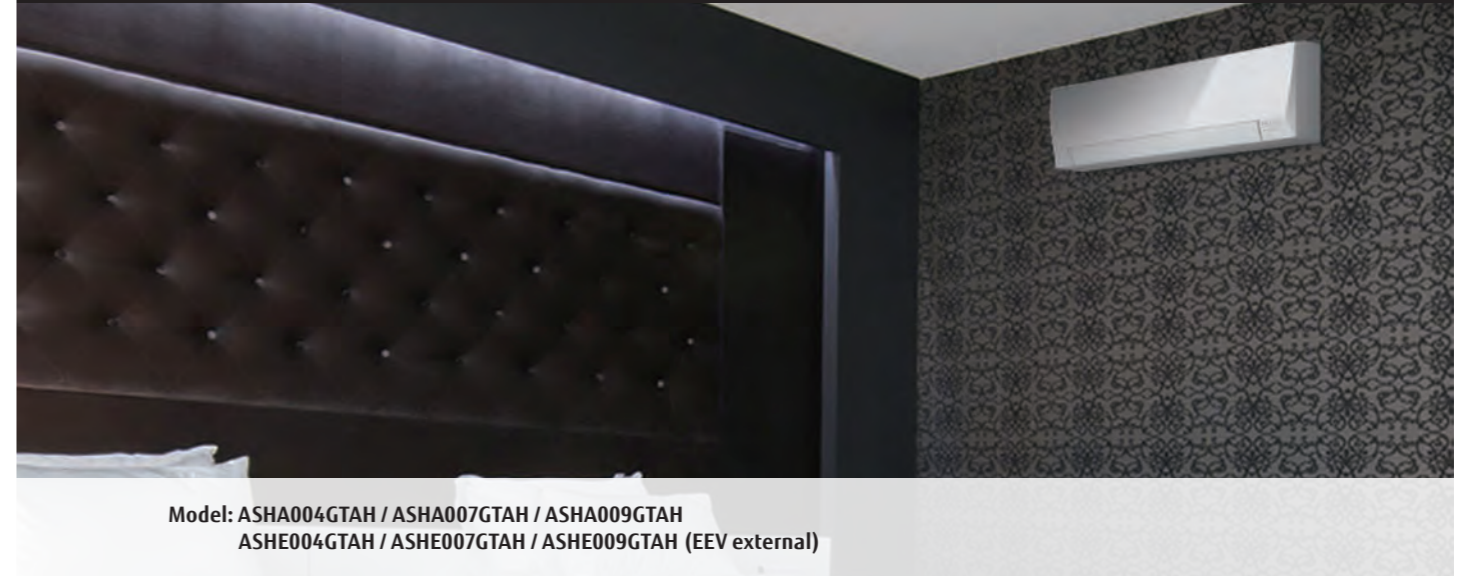
- 6-Step Speed
- High
- Med-H
- Med
- Med-L
- Low
- Quiet

\* Compatible Remote Controller is as follows: UTY-RNRGZ2 / UTY-RLRG / UTY-RSRG / UTY-RHRG / UTY-DCGG / UTY-DTGGZ1 / UTY-ALGX / UTY-APGX



NEW

Wall Mounted Compact & Comfort



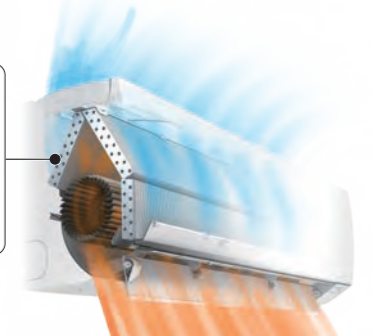
Model: ASHA004GTAH / ASHA007GTAH / ASHA009GTAH / ASHE004GTAH / ASHE007GTAH / ASHE009GTAH (EEV external)

Features

High efficient compact design

Ø5mm high density heat exchanger is mounted for the first time in the industry.

High density heat exchanger  
Making the tube thin:  
7 mm → 5 mm  
Increase of heat exchanger volume by high density and adopting sub heat exchanger



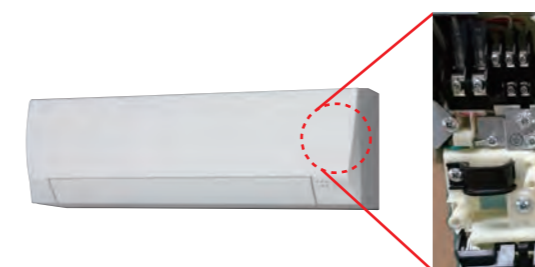
Optimized design matches to a small room

Efficient operation and refrigerant saving are realized by optimum heat exchanger design suited for small rooms.



Easy installation

Communication wiring can be installed easily by only opening the front panel and wire cover.



6 Fan Speed Control

Multistep airflow control is possible to suit the environment.

Fan speed Quiet Noise level 22 dB(A)

- 6-Step Speed
- High
- Med-H
- Med
- Med-L
- Low
- Quiet

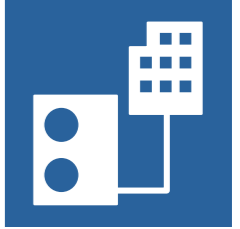
\* Compatible Remote Controller is as follows: UTY-RNRGZ2 / UTY-RLRG / UTY-RSRG / UTY-RHRG / UTY-DCGG / UTY-DTGGZ1 / UTY-ALGX / UTY-APGX







# Indoor Units for SMALL VRF Specifications



## High Static Pressure Duct

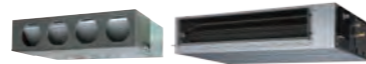


Model name	ARXC36GBTH	ARXC45GATH	ARXC60GATH*	ARXC72GBTH*	ARXC90GBTH*	ARXC96GATH*	
Power source	Single-phase, ~230V, 50Hz						
Capacity	Cooling Heating	11.2 12.5	12.5 14.0	18.0 20.0	22.4 25.0	25.0 28.0	28.0 31.5
Input power	W	207	715	730	681	819	838
Airflow rate	High Med Low	1,990 1,680 1,330	3,500 3,000 2,460	3,500 3,000 2,460	3,900 3,300 3,000	4,300 4,000 3,500	4,850 4,250 3,600
Static pressure range	Pa	0 to 200	100 to 250	100 to 250	0 to 300	0 to 300	0 to 300
Standard static pressure	Pa	100	100	100	150	150	150
Sound pressure level	High Med Low	42 36 32	49 45 42	49 45 42	47 43 40	48 46 44	48 45 42
Net Dimensions (H x W x D)	mm	400 x 1,050 x 500		450 x 1,587 x 700		550 x 1,587 x 700	
Weight	kg(lbs)	40 (88)	46 (101)	84 (185)		105 (231)	
Connection pipe diameter	Liquid (Flare) Gas (Flare)	9.52 (Flare)		12.70 (Brazing)		19.05 (Flare)	
Drain hose diameter (I.D./O.D.)	mm	25/32					

Note : Specifications are based on the following conditions.  
 \* : ARXC60/72/90/96G can be connected to J-III L series only.  
 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].

## Large Airflow Duct (Compact type)

NEW



Model name	ARXN018GLBH	ARXN024GTBH	ARXN030GTBH	
Power source	Single-phase, ~230V, 50Hz			
Capacity	Cooling Heating	5.6 6.3	7.1 8.0	9.0 10.0
Input power	W	173	180	273
Airflow rate	High Me-Hi Med Me-Lo Low Quiet	1,720 - 1,470 - 1,360 -	2,100 2,050 1,860 1,660 1,470 1,260	2,700 2,390 2,080 1,770 1,470 1,260
Static pressure range	Pa	0 to 80	0 to 100	0 to 100
Standard static pressure	Pa	50	50	50
Sound pressure level	High Me-Hi Med Me-Lo Low Quiet	36 - 33 - 30 -	37 35 33 31 28 26	41 38 34 31 28 26
Net Dimensions (H x W x D)	mm	270 x 1,135 x 700		300 x 1,400 x 700
Weight	kg(lbs)	40 (88)	48 (106)	
Connection pipe diameter	Liquid (Flare) Gas (Flare)	6.35		9.52
Drain hose diameter (I.D./O.D.)	mm	12.70		15.88
EV Kit (option)		25 / 32		

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].

## Compact Floor

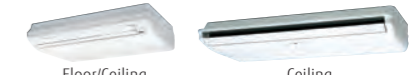
NEW



Model name	AGHA004GCAH	AGHA007GCAH	AGHA009GCAH	AGHA012GCAH	AGHA014GCAH	AGHE004GCAH	AGHE007GCAH	AGHE009GCAH	AGHE012GCAH	AGHE014GCAH	
Power source	Single-phase, ~230V, 50Hz										
Capacity	Cooling Heating	1.1 1.3	2.2 2.8	2.8 3.2	3.6 4.0	4.0 4.5	1.1 1.3	2.2 2.8	2.8 3.2	3.6 4.0	
Input power	W	12 / 14	16	17	22	29	12 / 14	16	17	22	
Airflow rate	High Med-H Med Med-L Low Quiet	380 / 430 350 320 310 280 210	470 420 390 360 330 270	500 450 420 400 370 340	590 520 470 450 420 390	670 590 520 450 400 340	380 / 430 350 320 310 280 210	470 420 390 360 330 270	500 450 420 400 370 340	590 520 470 450 420 390	
Sound pressure level	High Med-H Med Med-L Low Quiet	35 / 36 33 31 30 28 22	37 35 33 31 29 22	38 36 34 33 31 22	42 39 37 35 33 30	46 42 39 36 33 30	35 / 36 33 31 30 28 22	37 35 33 31 29 22	38 36 34 33 31 22	42 39 37 35 33 30	
Net Dimensions (H x W x D)	mm	600 x 740 x 200					600 x 740 x 200				
Weight	kg(lbs)	15 (33)	15 (33)	15 (33)	15 (33)	15 (33)	14.5 (32)	14.5 (32)	14.5 (32)	14.5 (32)	
Connection pipe diameter	Liquid (Flare) Gas (Flare)	6.35		9.52		6.35		9.52		6.35	
Drain hose diameter (I.D./O.D.)	mm	13.8/15.8 to 16.7					13.8/15.8 to 16.7				
EV Kit (option)		UTR-EV09XB					UTR-EV14XB				

Note : Specifications are based on the following conditions.  
 Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.  
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.  
 Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.  
 Voltage : 230 [V].  
 When AGH\*004GCAH, AGH\*007GCAH, and AGH\*009GCAH are connected to the outdoor unit other than J-III, gas pipe diameter should be Ø12.70.

## Floor/Ceiling / Ceiling



Model name	ABHA12GATH	ABHA14GATH	ABHA18GATH	ABHA24GATH	ABHA30GATH	ABHA36GATH	ABHA45GATH	ABHA54GATH	
Power source	Single-phase, ~230V, 50Hz								
Capacity	Cooling Heating	3.6 4.0	4.5 5.0	5.6 6.3	7.1 8.0	9.0 10.0	11.2 12.5	14.0 16.0	
Input power	W	30	42	74	99	66	85	131	
Airflow rate	High Med Low	660 570 490	780 640 550	1,000 720 580	1,000 820 680	1,630 1,370 1,140	1,690 1,400 1,170	2,010 1,600 1,230	
Sound pressure level	High Med Low	36 32 28	40 36 34	46 39 35	47 42 37	42 38 33	45 38 34	51 42 35	
Net Dimensions (H x W x D)	mm	199 x 990 x 655							240 x 1,660 x 700
Weight	kg(lbs)	25 (55)	26 (57)	26 (57)	27 (59)	46 (101)	48 (106)		
Connection pipe diameter	Liquid (Flare) Gas (Flare)	6.35		9.52		9.52		15.88	
Drain hose diameter (I.D./O.D.)	mm	12.70							15.88
EV Kit (option)		25/32							25/32

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

## Wall Mounted

NEW ASY\*004/007/009GTAH



Model name	ASHA004GTAH	ASHA007GTAH	ASHA009GTAH	ASHA12GTAH	ASHA14GTAH	ASHA18GTAH	ASHA24GTAH	ASHA30GTAH	ASHA36GTAH	ASHA45GTAH	ASHA54GTAH	
Power source	Single-phase, ~230V, 50Hz											
Capacity	Cooling Heating	1.1 1.3	2.2 2.8	2.8 3.2	3.6 4.1	4.5 5.0	1.1 1.3	2.2 2.8	2.8 3.2	3.6 4.1	4.5 5.0	
Input power	W	13	19	34	22	34	13	19	34	21	34	
Airflow rate	High Med-H Med Med-L Low Quiet	430 420 390 380 360 330	550 460 420 390 360 330	720 570 500 410 360 330	560 - 480 - 420 -	670 - 490 - 420 -	430 420 390 380 360 330	550 460 420 390 360 330	720 570 500 410 360 330	560 - 480 - 420 -		
Sound pressure level	High Med-H Med Med-L Low Quiet	31 30 28 26 24 22	35 32 30 27 24 22	43 38 34 29 24 22	39 - 35 - 31 -	44 - 37 - 32 -	31 30 28 26 24 22	35 32 30 27 24 22	43 38 34 29 24 22	39 - 35 - 31 -		
Net Dimensions (H x W x D)	mm	262 x 820 x 206			275 x 790 x 215			262 x 820 x 206			275 x 790 x 215	
Weight	kg(lbs)	7.5 (17)	7.5 (17)	7.5 (17)	9 (20)			7 (15)	7 (15)	7 (15)	9 (20)	
Connection pipe diameter	Liquid (Flare) Gas (Flare)	6.35			6.35			9.52			6.35	
Drain hose diameter (I.D./O.D.)	mm	13.8/15.8 to 16.7			13.8/15.8 to 16.7			9.52			12.70	
EV Kit (option)		-			-			UTR-EV09XB			UTR-EV14XB	

Note : Specifications are based on the following conditions.  
 Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.  
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.  
 Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.  
 Voltage : 230 [V].  
 When ASH\*004GTAH, ASH\*007GTAH, ASH\*009GTAH are connected to the outdoor unit other than J-III, gas pipe diameter should be Ø12.70.

## Wall Mounted

NEW



Model name	ASHA18GBCH	ASHA24GBCH	ASHA30GTAH	ASHA034GTAH
Power source	Single-phase, ~230V, 50Hz			
Capacity	Cooling Heating	5.6 6.3	7.1 8.0	9.0 10.0
Input power	W	32	60	74
Airflow rate	High Med-H Med Med-L Low Quiet	840 - 770 - 690 -	1,100 - 910 - 730 -	1,440 1,200 1,050 940 890 700
Sound pressure level	High Med-H Med Med-L Low Quiet	41 - 39 - 35 -	48 - 43 - 35 -	53 49 45 42 39 33
Net Dimensions (H x W x D)	mm	320 x 998 x 238		340 x 1,150 x 280
Weight	kg(lbs)	15 (33)	15 (33)	18 (40)
Connection pipe diameter	Liquid (Flare) Gas (Flare)	6.35		9.52
Drain hose diameter (I.D./O.D.)	mm	12.70		15.88
EV Kit (option)		12/16		13.8/15.8 to 16.7

Note : Specifications are based on the following conditions.  
 Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.  
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.  
 Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.  
 Voltage : 230 [V].  
 When ASHA18GBCH is connected to the outdoor unit other than J-III, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas).

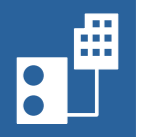
# SPLIT/SIMULTANEOUS MULTI Optional Parts List



### Controllers/Others

Type	Indoor unit											
	Cassette			Duct						Floor/Ceiling	Ceiling	Wall Mounted
	4-way Flow Compact	Circular Flow	4-way Flow	Mini	Slim	Medium Static Pressure	Medium Static Pressure	High Static Pressure	Big			
	AUHG 12/14/18/LVLB, AUHG24/LVLA	AUXG18/24/30/36/45/54 LRLB	AUHG30/36 LRLA, AUHG36/45/54 LRLA	ARHG12/14/18 LSLAP	ARHG12/14/18 LTLB	ARHG12/14/18/24/30/36/45/54/LHTBP	ARHG24/36/45 LMLA, ARHG30/36 LMLE	ARHG45/54/60 LHTA	ARHG72/90 LHTA	ABHG18/LVTB, ABHG24/LVTA	ABHG30/36 LRTE, ABHG36/45/54 LRTA	ASHG30/36 LMTA
Wired Remote Controller		● UTY-RNRGZ2		● UTY-RNRGZ2		● UTY-RNRGZ2			● UTY-RNRGZ2			● UTY-RNRGZ2+ UTY-TWRX
		● UTY-RLRG		● UTY-RLRG		● UTY-RLRG			● UTY-RLRG			● UTY-RLRG+ UTY-TWRX
						● UTY-RVNGM						● UTY-RVNGM+ UTY-XWNX
						● UTY-RNNGM						● UTY-RNNGM+ UTY-XWNX
Simple Remote Controller	2-wire type 3-wire type	● UTY-RSNGM	● UTY-RSRG, UTY-RHRG, UTY-RSNGM	● UTY-RSNGM	● UTY-RSRG, UTY-RHRG, UTY-RSNGM	● UTY-RSRG, UTY-RHRG, UTY-RSNGM	● UTY-RSNGM	● UTY-RSRG, UTY-RHRG, UTY-RSNGM	● UTY-RSNGM	● UTY-RSRG, UTY-RHRG, UTY-RSNGM	● UTY-RSNGM	● UTY-RSNGM+ UTY-XWNX
IR Receiver Kit with Wireless Remote Controller	For Duct For Cassette		● UTY-LRHGA2		● UTY-LRHGM		● UTY-LRHGM	● UTY-LRHGM (60 only)	● UTY-LRHGM			
Human Sensor Kit		● UTY-SHZXC										
Remote Sensor Unit	New amenity space can be offered by installing the Remote sensor.					● UTY-XSZX						
Cassette Grille	UTG-UFGD-W UTG-UGGA-W UTG-UKGA-W UTG-UKGC-W UTG-UKGA-B	● UTY-UFGD-W	● UTY-UKGA-W ● UTY-UKGC-W ● UTY-UKGA-B	● UTY-UGGA-W								
Auto Louver Grille Kit										● UTD-GXTA-W (12/14) ● UTD-GXTB-W (18)		
Long Life Filter						● UTD-LFNA ● UTD-LFNB ● UTD-LFNC	● UTD-LF25NA	● UTD-LF60KA (45/54)	● UTD-LFKA			
Flange							● UTD-SF045T ● UTD-RF204				● UTD-RF204	
Drain Pump Unit							● UTZ-PX1NBA		● UTZ-PX1NAB			● UTR-DPB24T
Wide Panel			● UTG-AKXA-W									
Panel Spacer			● UTG-BKXA-W									
Fresh Air Intake Kit	For Compact Cassette For Cassette	● UTY-VXAA		● UTY-VXRA								
Air Outlet Shutter Plate	For Compact Cassette For Cassette	● UTR-YDZB		● UTR-YDZK								
Insulation for High Humidity	For Compact Cassette type/ Cassette type	● UTY-KXGC		● UTY-KXRA								

# SMALL VRF Optional Parts List



### Controllers/Others

Type	Indoor unit																					
	Cassette			Duct						Floor		Ceiling/Floor	Ceiling	Wall Mounted								
	4-way Compact	4-way	Circular Flow	Mini (With drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure	—	EEV external	—	EEV external			—	EEV external	—						
	AUXB 04GBLH, AUXB 0709/12/14/18/24 GALH	AUXD 18/24 GALH	AUXA 18/24/30/34/36/45/54 GALH	AUXM 018/024/030GLAH	AUXX 018/024/030/034/036/045/054GLAH	ARXX 04/07/09/12/14/18/24CLH	ARXD 04/07/09/12/14/18/24GLH	ARXA 24/30/36/45GBLH	ARXC6 GBTH, ARXC45/60GATH	ARXC72/90GBTH, ARXC36 GATH	AGHA 004/007/009/012/014GCAH	AGHE 004/007/009/012/014GCAH	ABHA 12/14/18/24GATH	ABHA 30/36/45/54GATH	ASHA 004/007/009 GTHA	ASHE 004/007/009 GTHA	ASHA 12/14 GACH	ASHE 12/14 GACH	ASHA 18/24 GBCH	ASHA 030/034 GTAH		
Wired Remote Controller																					● UTY-RNRGZ2	
																						● UTY-RLRG
Simple Remote Controller	2-wire type 3-wire type																					● UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG
Wireless Remote Controller																						● UTY-LNHG
Group Remote Controller																						● UTY-CGGG + UTY-VGGXZ1
Central Remote Controller																						● UTY-DCCG
Touch Panel Controller																						● UTY-DTGGZ1
System Controller, System Controller Lite																						● UTY-APGXZ1, UTY-ALGXZ1
IR Receiver Unit		● UTY-LRHGB1		● UTY-LBHxD							● UTY-YWC											
Human Sensor Kit				● UTY-SHZXC																		
Remote Sensor Unit	New amenity space can be offered by installing the Remote sensor.																					● UTY-XSZX
Cassette Grille	UTG-UKGC-W UTY-UKGA-B																					
Auto Louver Grille Kit												● UTD-GXTA-W, ● UTD-GXTB-W (18), ● UTD-GXTC-W (24)										
Long Life Filter												● UTD-LF25NA ● UTD-LF60KA										
Flange												● UTD-SF045T ● UTD-RF204										● UTD-RF204
Drain Pump Unit												● UTY-PX1NBA										● UTR-DPB24T
Wide Panel			● UTG-AKXA-W																			
Panel Spacer			● UTG-BKXA-W																			
Fresh Air Intake Kit	For Compact Cassette For Cassette	● UTY-VXAA		● UTY-VXRA																		
Air Outlet Shutter Plate	For Compact Cassette For Cassette	● UTR-YDZB		● UTR-YDZK																		
Insulation for High Humidity	For Compact Cassette type/ Cassette type	● UTY-KXGC		● UTY-KXRA																		
Half Concealed Kit	This kit is used to half conceal floor type indoor unit into the wall.																					● UTR-STA



# SPLIT/SIMULTANEOUS MULTI Optional Parts List/Function List



## Interface

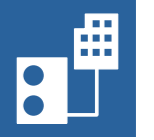
Type	Indoor unit																																																																																									
	Cassette			Duct						Floor/Ceiling	Ceiling	Wall Mounted																																																																														
	4-way Flow Compact	Circular Flow	4-way Flow	Mini	Slim	Medium Static Pressure	High Static Pressure	Big																																																																																		
	AUHG12/14/18LVLB, AUHG24LVLB	AUXG18/24/30/36/45/54 LRLB	AUHG30/36 LRL, AUHG36/45/54 LRLA	ARHG12/14/18 LSLAP	ARHG12/14/18 LLTB	ARHG12/14/18/24/30/36/45/54LHTBP	ARHG24/36/45 LMLA, ARHG30/36 LMLE	ARHG45/54/60 LHFA	ARHG72/90 LHFA	ABHG18LVTB, ABHG24LVTB	ABHG30/36 LRT, ABHG36/45/54 LRTA	ASHG30/36 LMTA																																																																														
Interface	<table border="1"> <tr> <td>Wireless LAN Interface</td> <td colspan="3">● UTZ-TFNXZ1</td> <td colspan="3">● UTZ-TFSXZ1</td> <td colspan="3">● UTZ-TFNXZ1</td> <td colspan="3">● UTZ-TFSXZ1</td> </tr> <tr> <td></td> <td colspan="3">● FJ-RC-WIFI-1</td> <td colspan="6">● FJ-RC-WIFI-1</td> <td colspan="3">● FJ-RC-WIFI-1</td> </tr> <tr> <td>KNX Converter</td> <td colspan="3">● UTY-VKSX</td> <td colspan="3">● UTY-VKSX</td> <td colspan="3">● UTY-VKSX</td> <td colspan="3">● UTY-VKSX</td> </tr> <tr> <td>KNX Interface</td> <td colspan="3">● FJ-RC-KNX-1i</td> <td colspan="3">● FJ-RC-KNX-1i</td> <td colspan="3">● FJ-RC-KNX-1i</td> <td colspan="3">● FJ-RC-KNX-1i</td> </tr> <tr> <td>MODBUS Converter</td> <td colspan="3">● UTY-VMSX</td> <td colspan="3">● UTY-VMSX</td> <td colspan="3">● UTY-VMSX</td> <td colspan="3">● UTY-VMSX</td> </tr> <tr> <td>MODBUS Interface</td> <td colspan="3">● FJ-RC-MBS-1</td> <td colspan="3">● FJ-RC-MBS-1</td> <td colspan="3">● FJ-RC-MBS-1</td> <td colspan="3">● FJ-RC-MBS-1</td> </tr> </table>												Wireless LAN Interface	● UTZ-TFNXZ1			● UTZ-TFSXZ1			● UTZ-TFNXZ1			● UTZ-TFSXZ1				● FJ-RC-WIFI-1			● FJ-RC-WIFI-1						● FJ-RC-WIFI-1			KNX Converter	● UTY-VKSX			● UTY-VKSX			● UTY-VKSX			● UTY-VKSX			KNX Interface	● FJ-RC-KNX-1i			● FJ-RC-KNX-1i			● FJ-RC-KNX-1i			● FJ-RC-KNX-1i			MODBUS Converter	● UTY-VMSX			● UTY-VMSX			● UTY-VMSX			● UTY-VMSX			MODBUS Interface	● FJ-RC-MBS-1			● FJ-RC-MBS-1			● FJ-RC-MBS-1			● FJ-RC-MBS-1		
Wireless LAN Interface	● UTZ-TFNXZ1			● UTZ-TFSXZ1			● UTZ-TFNXZ1			● UTZ-TFSXZ1																																																																																
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## External Input and Output Function/External Connect Kit/Communication Kit

Type	Indoor unit											Outdoor unit																																																																																																																																																																							
	Cassette			Duct						Floor/Ceiling	Ceiling	Wall Mounted	Simultaneous Multi																																																																																																																																																																						
	4-way Compact	Circular Flow	4-way	Mini	Slim	Medium Static Pressure	High Static Pressure	Big																																																																																																																																																																											
	AUHG12/14/18LVLB, AUHG24LVLB	AUXG18/24/30/36/45/54 LRLB	AUHG30/36 LRL, AUHG36/45/54 LRLA	ARHG12/14/18 LSLAP	ARHG12/14/18 LLTB	ARHG12/14/18/24/30/36/45/54LHTBP	ARHG24/36/45 LMLA, ARHG36/45/54 LMLE	ARHG45/54/60 LHFA	ARHG72/90 LHFA	ABHG18LVTB, ABHG24LVTB	ABHG30/36 LRT, ABHG36/45/54 LRTA	ASHG30/36 LMTA	AOHG36/45 LBTB	AOHG36/45/54 LATT																																																																																																																																																																					
Function	<table border="1"> <tr> <td>Input</td> <td>Operation/Stop</td> <td>● UTY-XWZX</td> <td>● PCB Terminal or ● UTY-XCSX + UTZ-GXRA</td> <td>● UTY-XWZX</td> <td>● PCB Terminal</td> <td>● UTD-ECSSA</td> <td>● PCB Terminal or ● UTY-XCSX + UTZ-GXNA</td> <td>● UTD-ECSSA</td> <td>● UTD-ECSSA</td> <td>● PCB Terminal or ● UTY-XCSX</td> <td>● UTY-XWZX</td> <td>● UTY-XWZX</td> <td>● UTY-XWZX or ● UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB</td> <td>● UTY-XWZX or ● UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB</td> </tr> <tr> <td></td> <td>Forced Stop</td> <td>● UTY-XWZX</td> <td>● PCB Terminal</td> <td>● UTY-XWZX</td> <td>● PCB Terminal</td> <td>● UTD-ECSSA</td> <td>● PCB Terminal</td> <td>● UTD-ECSSA</td> <td>● UTD-ECSSA</td> <td>● PCB Terminal</td> <td>● UTY-XWZX</td> <td>● UTY-XWZX</td> <td>● UTY-XWZX or ● UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB</td> <td>● UTY-XWZX or ● UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB</td> </tr> <tr> <td></td> <td>Forced Thermostat off</td> <td>● UTY-XCSX + UTZ-GXRA</td> <td></td> <td></td> <td></td> <td>● UTY-XCSX</td> <td></td> <td>● UTD-ECSSA</td> <td></td> <td>● UTY-XCSX</td> <td></td> <td></td> <td>● UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB</td> </tr> <tr> <td></td> <td>Low Noise Mode Operation</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>● UTY-XWZXZ3</td> <td>○ UTY-XWZXZ2</td> </tr> <tr> <td></td> <td>Outdoor Unit Operation Peak Control</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>● UTY-XWZXZ3</td> <td>○ UTY-XWZXZ2</td> </tr> <tr> <td>Output</td> <td>Operation Status</td> <td>○ UTY-XWZX</td> <td>● UTY-XWZXZG or ○ UTY-XCSX + UTZ-GXRA</td> <td>○ UTY-XWZX</td> <td>● UTY-XWZXZG</td> <td>○ UTD-ECSSA</td> <td>● UTY-XWZXZG or ○ UTY-XCSX + UTZ-GXNA</td> <td>○ UTD-ECSSA</td> <td>○ UTD-ECSSA</td> <td>● UTY-XWZXZG or ○ UTY-XCSX</td> <td>○ UTY-XWZX</td> <td>○ UTY-XWZX</td> <td>● UTY-XWZX or ● UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB</td> <td>○ UTY-XWZXZ3</td> <td>○ UTY-XWZXZ2</td> </tr> <tr> <td></td> <td>Error Status</td> <td></td> <td>● UTY-XWZXZG or ○ UTY-XCSX + UTZ-GXRA</td> <td></td> <td></td> <td></td> <td>● UTY-XWZXZG or ○ UTY-XCSX + UTZ-GXNA</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>○ UTY-XWZXZ3</td> <td>○ UTY-XWZXZ2</td> </tr> <tr> <td></td> <td>Compressor status</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>○ UTY-XWZXZ3</td> <td>○ UTY-XWZXZ2</td> </tr> <tr> <td></td> <td>Indoor Unit Fun Operation Status</td> <td>● UTY-VXAA*1</td> <td>● UTY-XWZXZG or ○ UTY-XCSX + UTZ-GXRA</td> <td>● UTY-VXGA*1</td> <td>● UTY-XWZXZG</td> <td>● UTD-ECSSA</td> <td>● UTY-XWZXZG or ○ UTY-XCSX + UTZ-GXNA</td> <td>● UTD-ECSSA</td> <td>● UTD-ECSSA</td> <td>● UTY-XWZXZG or ○ UTY-XCSX</td> <td></td> <td>● UTD-ECSSA</td> <td>● UTY-XWZX or ● UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB</td> <td></td> </tr> <tr> <td></td> <td>Set point attainment status</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>● UTY-XWZX*2</td> <td></td> </tr> <tr> <td></td> <td>Auxiliary Heater Output</td> <td></td> <td>● UTY-XWZXZG or ○ UTY-XCSX + UTZ-GXRA</td> <td></td> <td>● UTY-XWZXZG</td> <td>● UTD-ECSSA</td> <td>● UTY-XWZXZG or ○ UTY-XCSX + UTZ-GXNA</td> <td>● UTD-ECSSA</td> <td>● UTD-ECSSA</td> <td>● UTY-XWZXZG or ○ UTY-XCSX</td> <td></td> <td></td> <td></td> <td></td> </tr> </table>														Input	Operation/Stop	● UTY-XWZX	● PCB Terminal or ● UTY-XCSX + UTZ-GXRA	● UTY-XWZX	● PCB Terminal	● UTD-ECSSA	● PCB Terminal or ● UTY-XCSX + UTZ-GXNA	● UTD-ECSSA	● UTD-ECSSA	● PCB Terminal or ● UTY-XCSX	● UTY-XWZX	● UTY-XWZX	● UTY-XWZX or ● UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB	● UTY-XWZX or ● UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB		Forced Stop	● UTY-XWZX	● PCB Terminal	● UTY-XWZX	● PCB Terminal	● UTD-ECSSA	● PCB Terminal	● UTD-ECSSA	● UTD-ECSSA	● PCB Terminal	● UTY-XWZX	● UTY-XWZX	● UTY-XWZX or ● UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB	● UTY-XWZX or ● UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB		Forced Thermostat off	● UTY-XCSX + UTZ-GXRA				● UTY-XCSX		● UTD-ECSSA		● UTY-XCSX			● UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB		Low Noise Mode Operation												● UTY-XWZXZ3	○ UTY-XWZXZ2		Outdoor Unit Operation Peak Control												● UTY-XWZXZ3	○ UTY-XWZXZ2	Output	Operation Status	○ UTY-XWZX	● UTY-XWZXZG or ○ UTY-XCSX + UTZ-GXRA	○ UTY-XWZX	● UTY-XWZXZG	○ UTD-ECSSA	● UTY-XWZXZG or ○ UTY-XCSX + UTZ-GXNA	○ UTD-ECSSA	○ UTD-ECSSA	● UTY-XWZXZG or ○ UTY-XCSX	○ UTY-XWZX	○ UTY-XWZX	● UTY-XWZX or ● UTY-XWZX + UTY-XCSXZ1 + UTZ-GXXB	○ UTY-XWZXZ3	○ UTY-XWZXZ2		Error Status		● UTY-XWZXZG or ○ UTY-XCSX + UTZ-GXRA				● UTY-XWZXZG or ○ UTY-XCSX + UTZ-GXNA						○ UTY-XWZXZ3	○ UTY-XWZXZ2		Compressor status												○ UTY-XWZXZ3	○ UTY-XWZXZ2		Indoor Unit Fun Operation Status	● UTY-VXAA*1	● UTY-XWZXZG or ○ UTY-XCSX + UTZ-GXRA	● UTY-VXGA*1	● UTY-XWZXZG	● UTD-ECSSA	● UTY-XWZXZG or ○ UTY-XCSX + UTZ-GXNA	● UTD-ECSSA	● UTD-ECSSA	● 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\*1: This wire is included in Fresh air intake kit (UTZ-VXAA or UTZ-VXRA)      ●: Dry Contact   ○: Apply Voltage  
 \*2: This function is for installing at server room.

# SMALL VRF Optional Parts List/Function List



## Interface

Type	Indoor unit																																																																																																																																																												
	Cassette			Duct						Floor		Ceiling		Wall Mounted																																																																																																																																															
	4-way Compact	4-way	Circular Flow	Mini (With drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure	—	EEV external	Ceiling/Floor	Ceiling	—	EEV external	—	EEV external	—	—																																																																																																																																												
	AUXB 04GBLH, AUXB 0709/12/14/18/24 GALH	AUXD 18/24 GALH	AUXA 18/24/30/34/36/45/54GALH	AUXM 018/024/030GLAH	AUXK 018/024/030/034/036/045/054GLAH	ARXK 04/07/09/12/14/18/24GCLH	ARXD 04/07/09/12/14/18/24GALH	ARXA 24/30/36/45GBLH	ARXC36 GBTH, ARXC45/60 GATH	ARXC72/90GBTH, ARXC96 GATH	AGHA 004/007/009/012/014GCAH	AGHE 004/007/009/012/014GCAH	ABHA 12/14/18/24GATH	ABHA 30/36/45/54GATH	ASHA 004/007/009 GTAH	ASHE 004/007/009 GTAH	ASHA 12/14 GACH	ASHE 12/14 GACH	ASHA 18/24 GBCH	ASHA 030/034 GTAH																																																																																																																																									
Interface	<table border="1"> <tr> <td>Wireless LAN Interface</td> <td colspan="3"></td> <td colspan="6">● UTY-TFSXZ1</td> <td colspan="2">● UTY-TFSXZ1</td> <td colspan="2"></td> <td colspan="6">● UTY-TFSXZ1</td> </tr> <tr> <td></td> <td colspan="3">● FJ-RC-WIFI-1</td> <td colspan="6"></td> <td colspan="2">● FJ-RC-WIFI-1</td> <td colspan="2">● FJ-RC-WIFI-1</td> <td colspan="6">● FJ-RC-WIFI-1</td> </tr> <tr> <td>KNX Converter</td> <td colspan="3">● UTY-VKSX</td> <td colspan="6">● UTY-VKSX UTY-VKGX</td> <td colspan="2">● UTY-VKSX</td> <td colspan="2">● UTY-VKSX UTY-VKGX</td> <td colspan="6">● UTY-VKSX UTY-VKGX</td> </tr> <tr> <td>KNX Interface</td> <td colspan="3">● FJ-RC-KNX-1i</td> <td colspan="6"></td> <td colspan="2">● FJ-RC-KNX-1i</td> <td colspan="2"></td> <td colspan="6">● FJ-RC-KNX-1i</td> </tr> <tr> <td>MODBUS Converter</td> <td colspan="3">● UTY-VMSX</td> <td colspan="6">● UTY-VMSX UTY-VMGX</td> <td colspan="2">● UTY-VMSX</td> <td colspan="2">● UTY-VMSX UTY-VMGX</td> <td colspan="6">● UTY-VMSX UTY-VMGX</td> </tr> <tr> <td>MODBUS Interface</td> <td colspan="3">● FJ-RC-MBS-1</td> <td colspan="6"></td> <td colspan="2">● FJ-RC-MBS-1</td> <td colspan="2"></td> <td colspan="6">● FJ-RC-MBS-1</td> </tr> <tr> <td>External Switch Controller</td> <td colspan="3"></td> <td colspan="6"></td> <td colspan="2">● UTY-TERX</td> <td colspan="2"></td> <td colspan="6"></td> </tr> </table>																	Wireless LAN Interface				● UTY-TFSXZ1						● UTY-TFSXZ1				● UTY-TFSXZ1							● FJ-RC-WIFI-1									● FJ-RC-WIFI-1		● FJ-RC-WIFI-1		● FJ-RC-WIFI-1						KNX Converter	● UTY-VKSX			● UTY-VKSX UTY-VKGX						● UTY-VKSX		● UTY-VKSX UTY-VKGX		● UTY-VKSX UTY-VKGX						KNX Interface	● FJ-RC-KNX-1i									● FJ-RC-KNX-1i				● FJ-RC-KNX-1i						MODBUS Converter	● UTY-VMSX			● UTY-VMSX UTY-VMGX						● UTY-VMSX		● UTY-VMSX UTY-VMGX		● UTY-VMSX UTY-VMGX						MODBUS Interface	● FJ-RC-MBS-1									● FJ-RC-MBS-1				● FJ-RC-MBS-1						External Switch Controller										● UTY-TERX									
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## External Input and Output Function/External Connect Kit/Communication Kit

Type	Indoor unit							Outdoor unit			Controller																																																																																																																																																																																													
	Cassette	Duct		Floor, Floor (EEV external)	Ceiling/Floor	Ceiling	Wall Mounted, Wall Mounted (EEV external)	J-III	J-III	J-III	Central Remote Controller	Touch Panel Controller																																																																																																																																																																																												
		4-way Compact Cassette, 4-way Cassette, Circular Flow Cassette	Mini Duct (With drain pump), Slim Duct (With drain pump), Medium Static Pressure Duct, High Static Pressure Duct					AJH 040/045/054 LBLAH, AJH 040/045/054 LLELAH	AJH 040/045/054 LBLAH, AJH 040/045/054 LLELAH	AJH 040/045/054 LCLAH	UTY-DCCG	UTY-DTGGZ1																																																																																																																																																																																												
Function	<table border="1"> <tr> <td>Input</td> <td>Operation / Stop</td> <td colspan="2"></td> <td colspan="3">● UTY-XWZXZD</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td>All On / All Off</td> <td colspan="2"></td> <td colspan="3">○ UTY-XWZXZB</td> <td></td> <td></td> <td></td> <td></td> <td>● UTY-XWZXZ7</td> <td>●*2</td> </tr> <tr> <td></td> <td>Batch Stop</td> <td colspan="2"></td> <td colspan="3"></td> <td colspan="3">● UTY-XWZXZ6</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Forced Stop</td> <td colspan="2"></td> <td colspan="3">● UTY-XWZXZD</td> <td colspan="3">○ UTY-XWZXZB</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Emergency Stop</td> <td colspan="2"></td> <td colspan="3">● UTY-XWZXZD</td> <td colspan="3">○ UTY-XWZXZB</td> <td colspan="3">● UTY-XWZXZ6</td> </tr> <tr> <td></td> <td>Forced Thermostat off</td> <td colspan="2"></td> <td colspan="3">● UTY-XWZXZE</td> <td colspan="3">○ UTY-XWZXZ7</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Low Noise Mode Operation</td> <td colspan="2"></td> <td colspan="3"></td> <td colspan="3">● UTY-XWZXZ6</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Cooling/ Heating Priority</td> <td colspan="2"></td> <td colspan="3"></td> <td colspan="3">● UTY-XWZXZ6</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Outdoor Unit Operation Peak Control</td> <td colspan="2"></td> <td colspan="3"></td> <td colspan="3">● UTY-XWZXZ6</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Power Usage Information from Electricity Meter</td> <td colspan="2"></td> <td colspan="3"></td> <td colspan="3">● UTY-XWZXZF</td> <td></td> <td>●*2</td> </tr> <tr> <td>Output</td> <td>Operation Status</td> <td colspan="2"></td> <td colspan="3">● UTY-XWZXZC</td> <td colspan="3">○ UTY-XWZXZ6</td> <td colspan="3">○ UTY-XWZXZA</td> </tr> <tr> <td></td> <td>Error Status</td> <td colspan="2"></td> <td colspan="3">● UTY-XWZXZC</td> <td colspan="3">○ UTY-XWZXZ6</td> <td colspan="3">○ UTY-XWZXZA</td> </tr> <tr> <td></td> <td>Indoor Unit Fun Operation Status</td> <td colspan="2"></td> <td colspan="3">● UTY-XWZXZC</td> <td colspan="3"></td> <td colspan="3"></td> </tr> <tr> <td></td> <td>Auxiliary Heater Output</td> <td colspan="2">● UTY-XWZXZC</td> <td colspan="3"></td> <td colspan="3"></td> <td colspan="3"></td> </tr> <tr> <td></td> <td>Base Heater</td> <td colspan="2"></td> <td colspan="3"></td> <td colspan="3">● UTY-XWZXZ9</td> <td colspan="3"></td> </tr> </table>												Input	Operation / Stop			● UTY-XWZXZD										All On / All Off			○ UTY-XWZXZB							● UTY-XWZXZ7	●*2		Batch Stop						● UTY-XWZXZ6						Forced Stop			● UTY-XWZXZD			○ UTY-XWZXZB						Emergency Stop			● UTY-XWZXZD			○ UTY-XWZXZB			● UTY-XWZXZ6				Forced Thermostat off			● UTY-XWZXZE			○ UTY-XWZXZ7						Low Noise Mode Operation						● UTY-XWZXZ6						Cooling/ Heating Priority						● UTY-XWZXZ6						Outdoor Unit Operation Peak Control						● UTY-XWZXZ6						Power Usage Information from Electricity Meter						● UTY-XWZXZF				●*2	Output	Operation Status			● UTY-XWZXZC			○ UTY-XWZXZ6			○ UTY-XWZXZA				Error Status			● UTY-XWZXZC			○ UTY-XWZXZ6			○ UTY-XWZXZA				Indoor Unit Fun Operation Status			● UTY-XWZXZC										Auxiliary Heater Output	● UTY-XWZXZC												Base Heater						● UTY-XWZXZ9					
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\*2: 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

# Others



## For SPLIT/MULTI SPLIT/SIMULTANEOUS MULTI

<p><b>External input and output PCB</b></p> <p>UTY-XCSXZ1 for Wall Mounted type UTY-XCSX for Duct and Cassette type</p>	<p><b>External input and output PCB Box</b></p> <p>UTZ-GXXB UTZ-GXRA</p>	<p><b>External input and output PCB Bracket</b></p> <p>UTZ-GXNA</p>
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## Communication system For SPLIT/MULTI SPLIT

**External Connect Kit**

<p><b>For Indoor Unit</b></p> <p>UTY-XWZX UTY-XWZXZG</p>	<p><b>For Outdoor unit</b></p> <p>UTY-XWZXZ2 UTY-XWZXZ3 UTY-XWZXZ4</p>
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## External Control Set

**For Indoor unit**

UTD-ECS5A

## Communication system For SMALL VRF

**External Connect Kit**

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

**Separation Tube**

<p>UTP-SX236A / UTP-SX254A For 3-phase simultaneous multi</p>	<p>UTP-SX354A For 3-phase simultaneous multi</p>	<p>UTP-SX248A For 8 Rooms Multi</p> <p>Liquid pipe Gas pipe</p>
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## For SMALL VRF

**Separation Tube**

<p>UTP-AX054A</p> <p>Gas Pipe Liquid Pipe</p>	<p>UTP-AX090A</p> <p>Gas Pipe Liquid Pipe</p>	<p>UTP-AX180A</p> <p>Gas Pipe Liquid Pipe</p>
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<p><b>Header</b></p> <p>UTR-H0906L / UTR-H1806L</p> <p>Gas Pipe Liquid Pipe</p>	<p>UTR-H0908L / UTR-H1808L</p> <p>Gas Pipe Liquid Pipe</p>	<p><b>Outdoor Unit Branch Kit</b></p> <p>UTP-CX567A</p> <p>Gas Pipe Liquid Pipe</p>	<p><b>EV Kit</b></p> <p>Model code <math>\leq</math> 09 : UTR-EV09XB Model code <math>\geq</math> 12 : UTR-EV14XB For Compact Wall Mounted type</p>
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## Specifications

Separation Tube	
Model name	UTP-AX054A
Total cooling capacity of indoor unit (kW)	19.6 or less

Model name	UTP-AX090A
Total cooling capacity of indoor unit (kW)	28.0 or less

## 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

## 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

## EV Kit

Model name	UTR-EV09XB		UTR-EV14XB	
Application model	ASHE004GTAH ASHE007GTAH ASHE009GTAH	AGHE004GCAH AGHE007GCAH AGHE009GCAH	ASHE12GACH ASHE14GACH	AGHE012GCAH AGHE014GCAH



# COMMERCIAL

- 096 SOLUTIONS
- 098 CORE TECHNOLOGY

## LARGE VRF **AIRSTAGE™**

- 104 PRODUCT LINEUP LARGE VRF Outdoor Units
- 106 AIRSTAGE™ VR-II
- 114 AIRSTAGE™ V-III
- 120 AIRSTAGE™ V-III Tropical
- 126 PRODUCT LINEUP LARGE VRF Indoor Units
- 128 Indoor Units for LARGE VRF Specifications

## VENTILATION

- 134 PRODUCT LINEUP
- 136 Energy Recovery Ventilator
- 138 Outdoor Air Unit
- 140 DX-Kit for Air Handling Application

## OPTIONAL PARTS

- 142 Optional Parts List/Function List
- 144 Others



## COMMERCIAL SOLUTIONS



## LARGE BUILDING

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.



# LARGE BUILDING

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

## Individual air conditioning system for large buildings

Capacities can be expanded up to simultaneous cooling and heating with maximum 48HP. Large individual air conditioning is supported.



### AIRSTAGE VR-II

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

**8 HP - 48 HP 34 Models**

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

## Abundant lineup suitable to match the operating environment

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

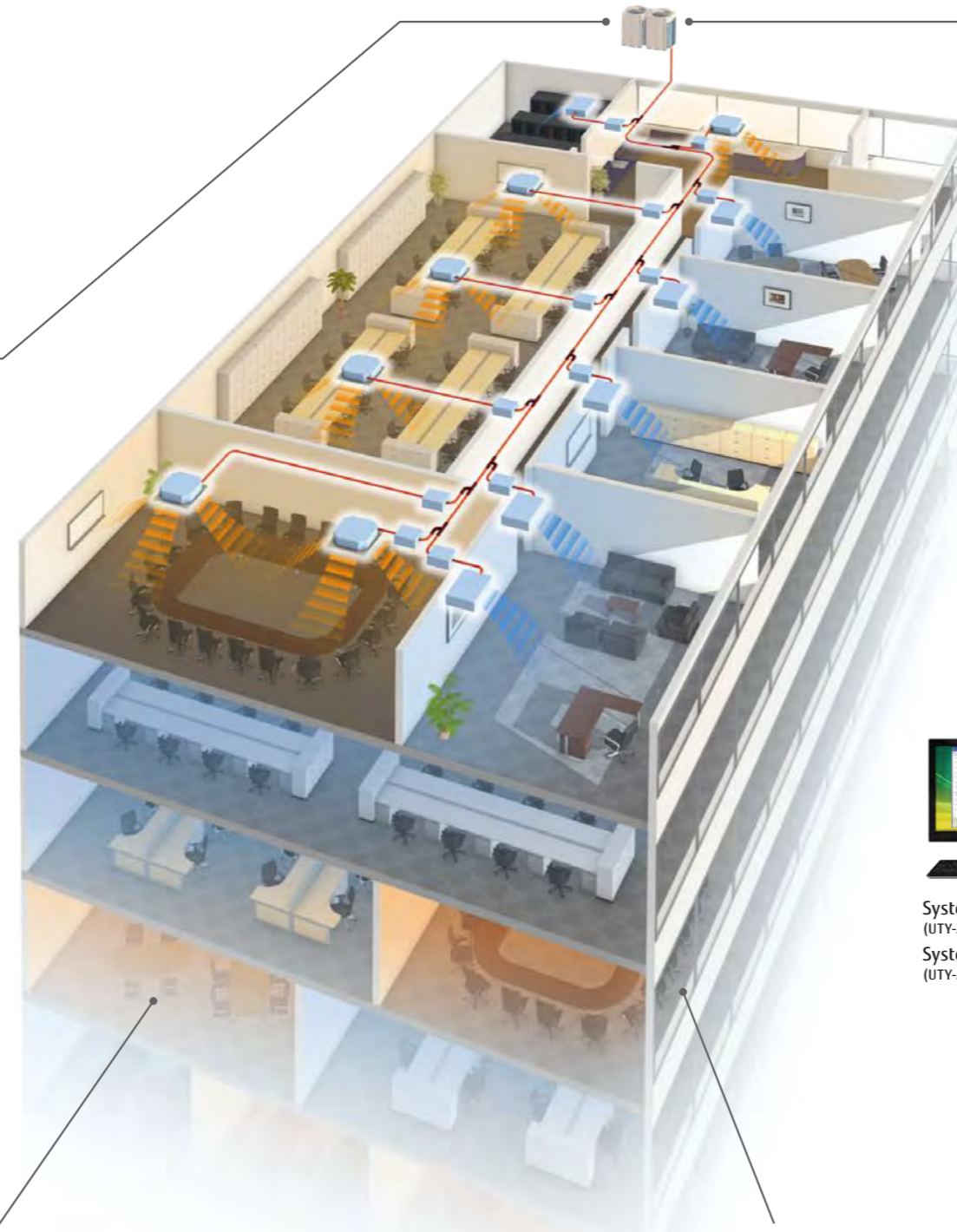


**Heat Pump Modular type for heating or cooling operation**

### AIRSTAGE V-III

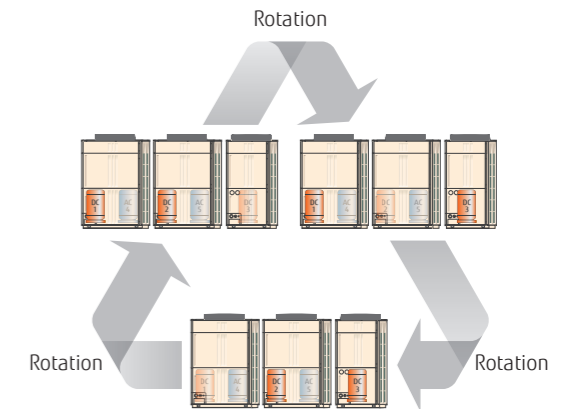
**8 HP - 54 HP 39 Models**

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



## Enhancement of functions and basic performance to increase reliability

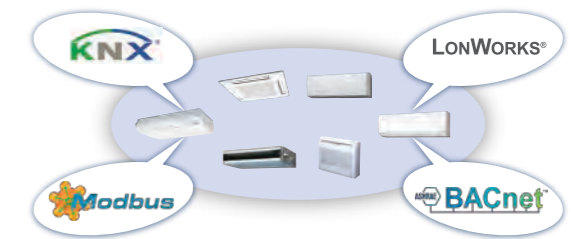
Longer life units are achieved by the control without putting a load on one unit through rotation operation and refrigerant distribution control.



System Controller (UTY-APGXZ1)  
System Controller Lite (UTY-ALGXZ1 & UTY-PLGXX2)

## Link up with a variety of BMS

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

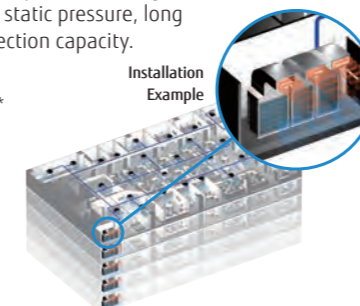


## High system flexibility

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

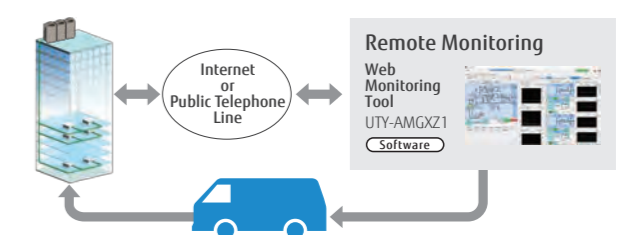


\*: For V-III series. VR-II series is 80 Pa



## Rapid service support

The air conditioning of the entire building can be monitored remotely with Web Monitoring Tool and System Controller. Rapid response for emergency is possible by a self-diagnosis in advance in cooperation with a management company.

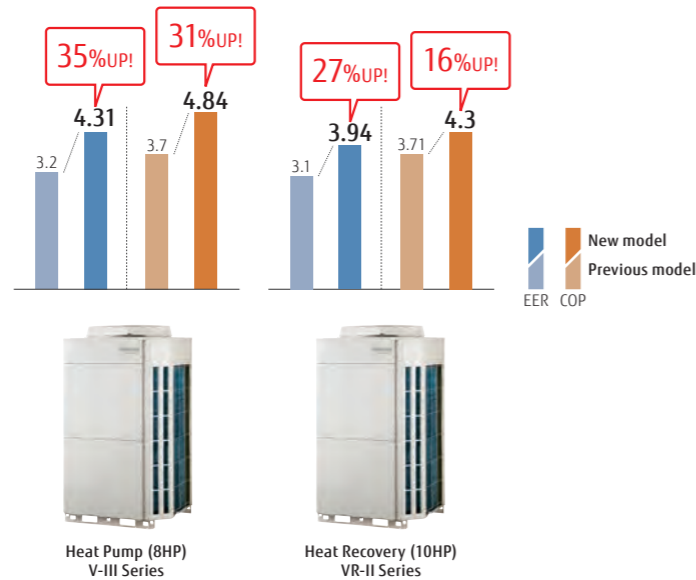




# CORE TECHNOLOGY

## High Energy Efficiency

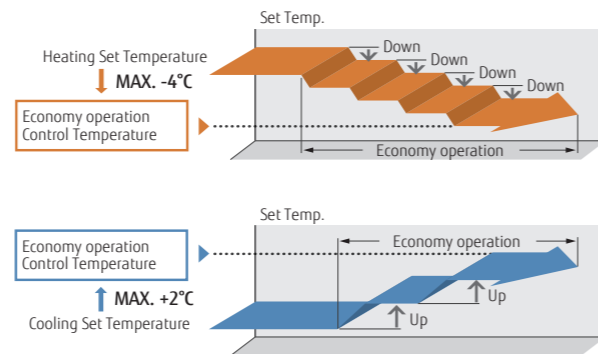
Efficiency is improved significantly by using DC twin rotary compressor, inverter technology, and large heat exchanger



## Energy Saving Function

### Economy operation

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



### Room temperature set point limitation

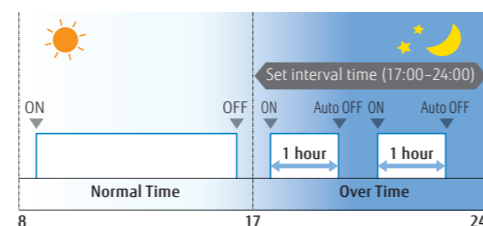
The minimum and maximum temperature ranges can be limited, which provide further energy saving while maintaining the comfort of the occupants.

### Auto-off timer

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

### Capacity save operation

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



## More Comfort

### Precision refrigerant flow control

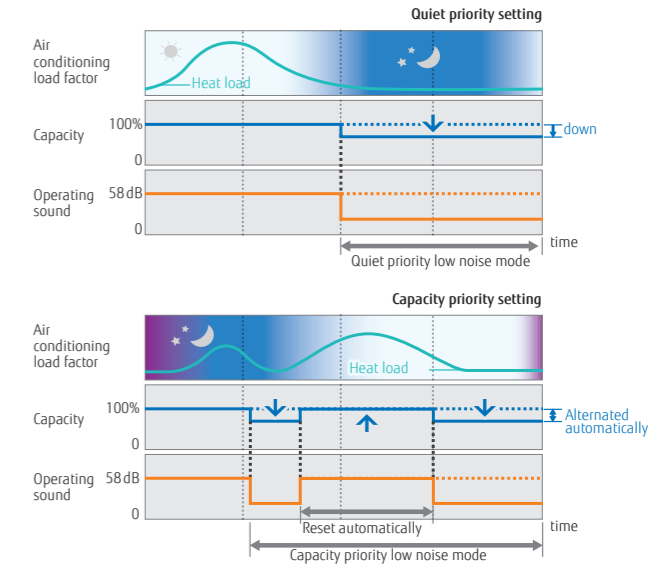
Precise and smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows high precision comfortable temperature control of  $\pm 0.5^{\circ}\text{C}$ .

### Auto changeover function

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

### Quiet operation

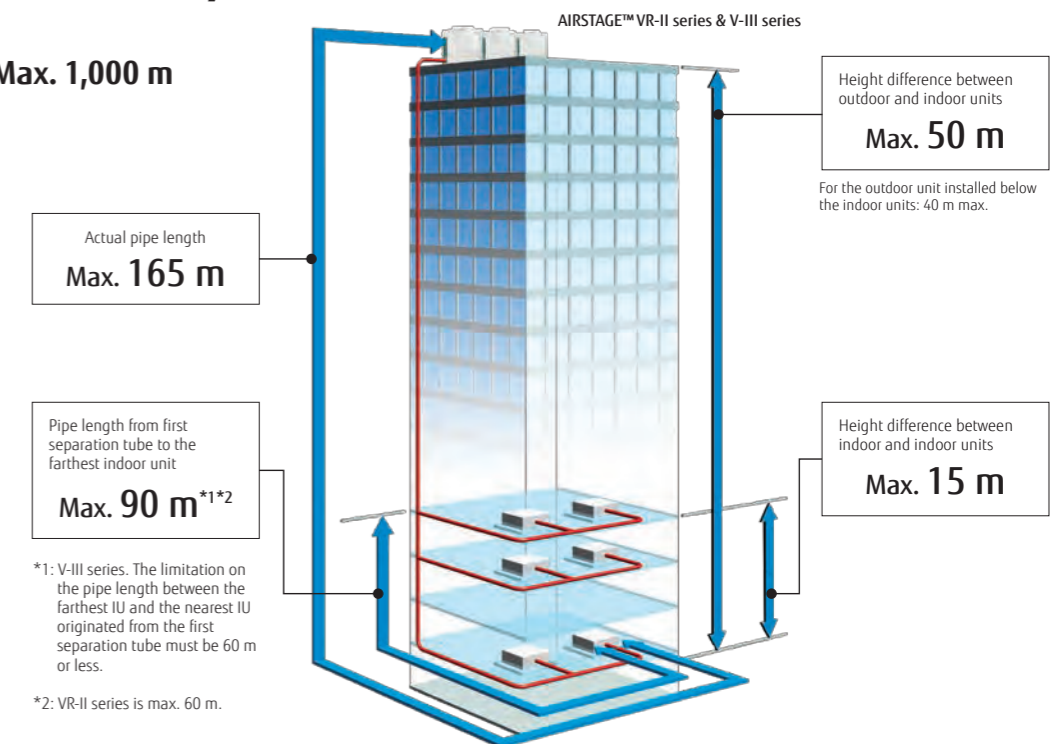
Two low noise modes can be selected automatically by quiet priority setting and capacity priority setting depending on the indoor environment and outside temperature load. This feature can be controlled via outdoor unit external input and/or system controller.



## 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.



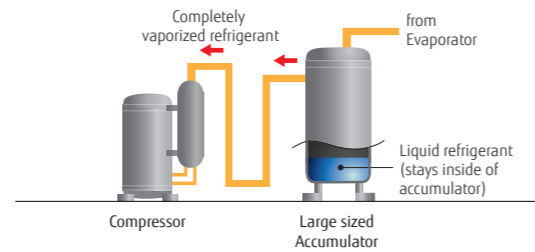
\*1: V-III series. The limitation on the pipe length between the farthest IU and the nearest IU originated from the first separation tube must be 60 m or less.

\*2: VR-II series is max. 60 m.

# High Reliability

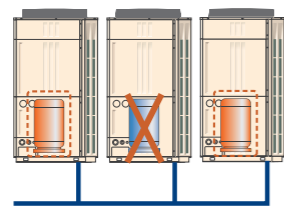
## Liquid flow back protection

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



## Backup operation\*1

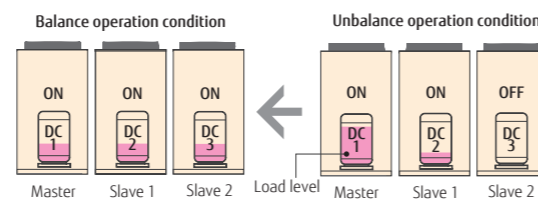
If one compressor fails, backup operation will be performed by the remaining compressors.\*2



\*1: Not available for AIRSTAGE™ J-III and J-IIS series

## Advanced refrigerant control\*1

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



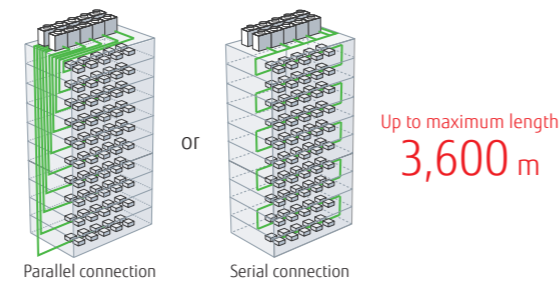
\*2: Note: Backup operation may not be possible depending on the trouble state.

# Easy Installation

## Simple wiring work

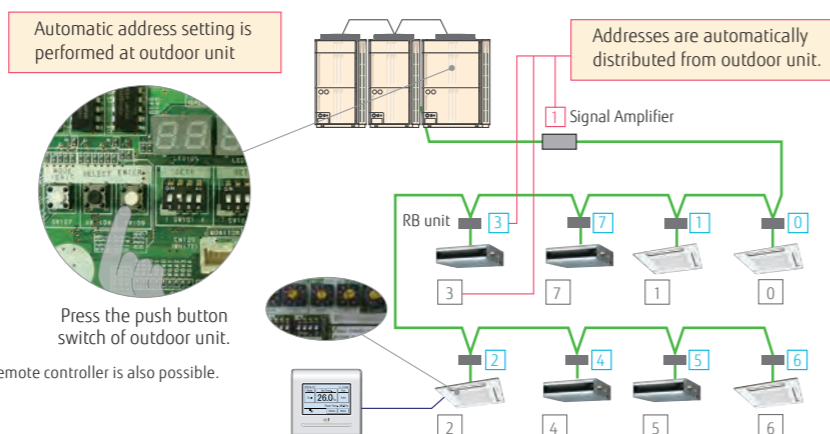
Installation of the wiring systems is made easier as the communication wiring can be installed continuously between the indoor, outdoor and RB units.

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



## Automatic address setting

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



Automatic address setting is performed at outdoor unit

Addresses are automatically distributed from outdoor unit.

Press the push button switch of outdoor unit.

Manual address setting from indoor unit and remote controller is also possible.

# Easy Service & Maintenance

## Design for easy maintenance

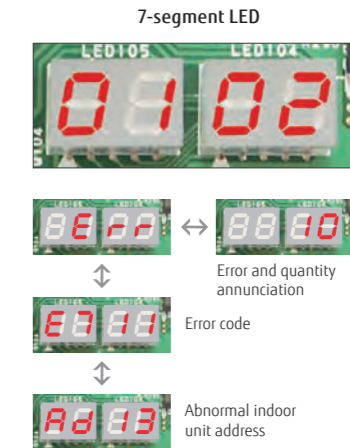
### Easy to read 7-segment LED :

Confirm detailed operational and error status without using any specific equipment.

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

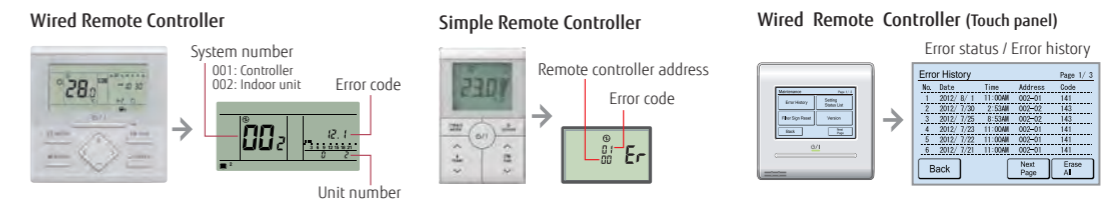
### Movable PCB panel:

Easier for maintenance work behind the PCB



- Error status can be checked easily by outdoor unit display

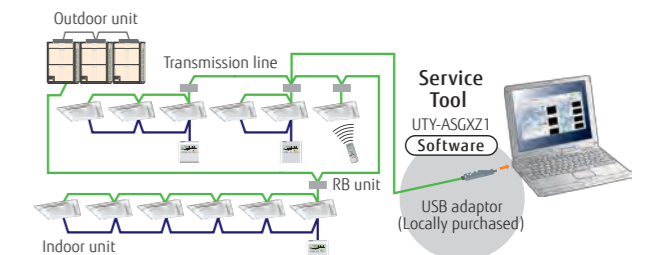
Error status can be checked easily via the indoor unit wired controller. An error code is displayed on a liquid crystal screen.



## Error diagnosis by Service Tool

### Connection to Service Tool

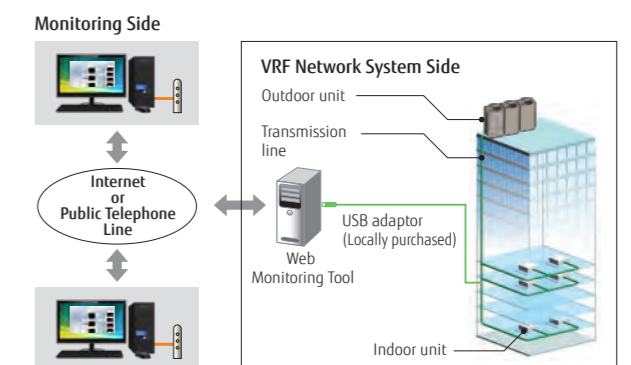
- Detail operation status and recent error history can be checked and analyzed by using the Service Tool.
- Last 5 min. operation memory can be also be recorded.



## Remote monitoring

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

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





# LARGE VRF

For Commercial

# AIRSTAGE™



## LARGE VRF

- 104 PRODUCT LINEUP LARGE VRF Outdoor Units
- 106 AIRSTAGE™ VR-II
- 114 AIRSTAGE™ V-III
- 120 AIRSTAGE™ V-III Tropical
- 126 PRODUCT LINEUP LARGE VRF Indoor Units
- 128 Indoor Units for LARGE VRF Specifications

# LARGE VRF Outdoor Units



Capacity (kW)	22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0	73.5	78.5	85.0	90.0	95.0	100.5	107.0	112.0	118.5	123.5	130.0	135.0	140.0	145.0	150.0	
HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	
VR-II Series Heat Recovery	Space Saving Page 106~																								
	Set Model	AJHA72GALH	AJHA90GALH	AJH108GALH	AJH126GALH	AJH144GALH	AJH162GALH	AJH180GALH	AJH198GALH	AJH216GALH	AJH234GALH	AJH252GALH	AJH270GALH	AJH288GALH	AJH306GALH	AJH324GALH	AJH342GALH	AJH360GALH	AJH378GALH	AJH396GALH	AJH414GALH	AJH432GALH			
VR-II Series Heat Recovery	Energy Efficiency Page 106~																								
	Set Model				AJH144GALHH			AJH198GALHH	AJH216GALHH	AJH234GALHH	AJH252GALHH	AJH270GALHH	AJH288GALHH	AJH306GALHH	AJH324GALHH	AJH342GALHH	AJH360GALHH	AJH378GALHH	AJH396GALHH						
V-III Series Heat Pump	Space Saving Page 114~																								
	Set Model	AJH072LALBH	AJH090LALBH	AJH108LALBH	AJH126LALBH	AJH144LALBH	AJH162LALBH	AJH180LALBH	AJH198LALBH	AJH216LALBH	AJH234LALBH	AJH252LALBH	AJH270LALBH	AJH288LALBH	AJH306LALBH	AJH324LALBH	AJH342LALBH	AJH360LALBH	AJH378LALBH	AJH396LALBH	AJH414LALBH	AJH432LALBH	AJH450LALBH	AJH468LALBH	AJH486LALBH
V-III Series Heat Pump	Energy Efficiency Page 114~																								
	Set Model				AJH144LALBHH	AJH162LALBHH	AJH180LALBHH		AJH216LALBHH	AJH234LALBHH	AJH252LALBHH	AJH270LALBHH	AJH288LALBHH	AJH306LALBHH	AJH324LALBHH	AJH342LALBHH	AJH360LALBHH	AJH378LALBHH	AJH396LALBHH	AJH414LALBHH					
V-III Tropical Series Heat Pump	Space Saving Page 120~																								
	Set Model	AJH072LNLBH	AJH090LNLBH	AJH108LNLBH	AJH126LNLBH	AJH144LNLBH	AJH162LNLBH	AJH180LNLBH	AJH198LNLBH	AJH216LNLBH	AJH234LNLBH	AJH252LNLBH	AJH270LNLBH	AJH288LNLBH	AJH306LNLBH	AJH324LNLBH	AJH342LNLBH	AJH360LNLBH	AJH378LNLBH	AJH396LNLBH	AJH414LNLBH	AJH432LNLBH	AJH450LNLBH	AJH468LNLBH	AJH486LNLBH
V-III Tropical Series Heat Pump	Energy Efficiency Page 120~																								
	Set Model				AJH144LNLBHH	AJH162LNLBHH	AJH180LNLBHH		AJH216LNLBHH	AJH234LNLBHH	AJH252LNLBHH	AJH270LNLBHH	AJH288LNLBHH	AJH306LNLBHH	AJH324LNLBHH	AJH342LNLBHH	AJH360LNLBHH	AJH378LNLBHH	AJH396LNLBHH	AJH414LNLBHH					



# Heat Recovery Modular Type



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

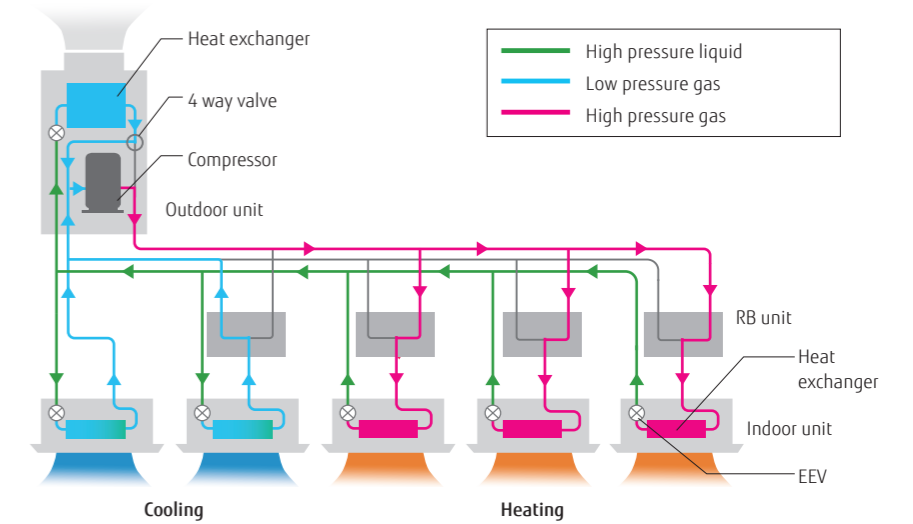
The operation mode can be freely changed when there are large temperature differences during the day, such as between seasons.



## Features

### High Operating Energy Efficiency

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



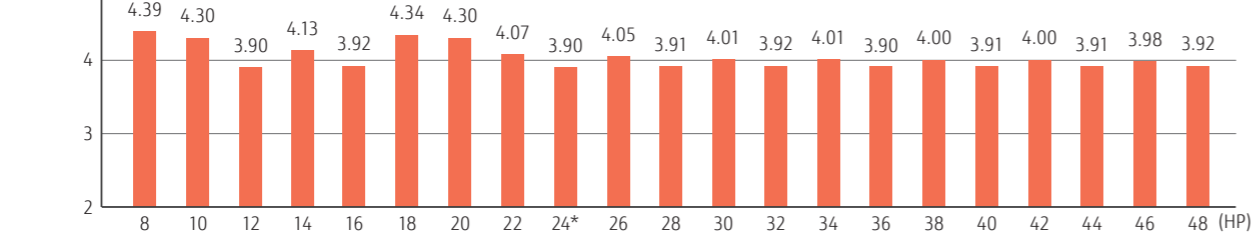
### Energy saving technology that boosted operation efficiency

- 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.
- Sine-wave DC inverter control**  
High efficiency is realized by adoption of reduced switching loss IPM.
- 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.
- Subcool heat exchanger**  
High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.
- High efficient and large capacity DC inverter compressor**  
Large capacity high efficient DC twin rotary compressor with excellent intermediate capability.
- Front intake port (corner cut air inhaling structure)**  
In multiple outdoor unit installations, the unique front intake design improves airflow into the Heat Exchanger.

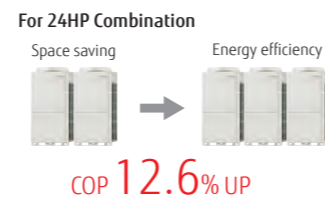
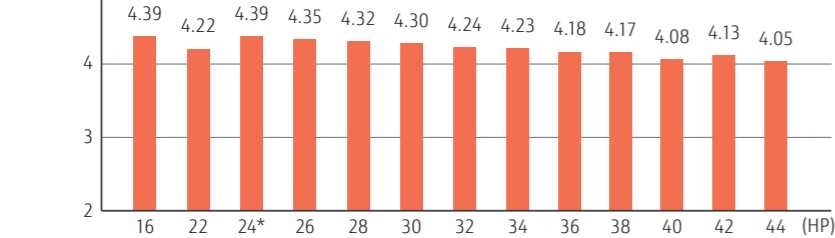


Features

Space saving combination (COP)



Energy efficiency combination (COP)



All inverter compressor

Large capacity DC inverter compressor

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

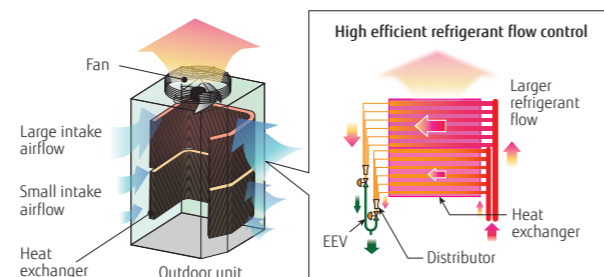
High efficient compressor speed control

Comfortable space with small room temperature changes and little energy loss is created by 0.1Hz steps compressor speed control.



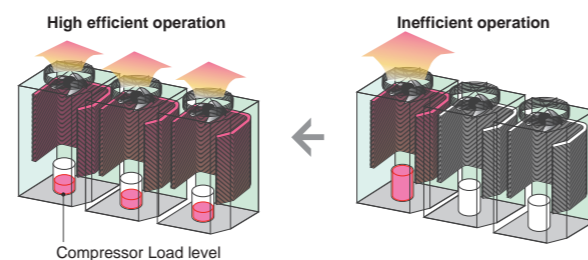
Ideal heat exchanger path control

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



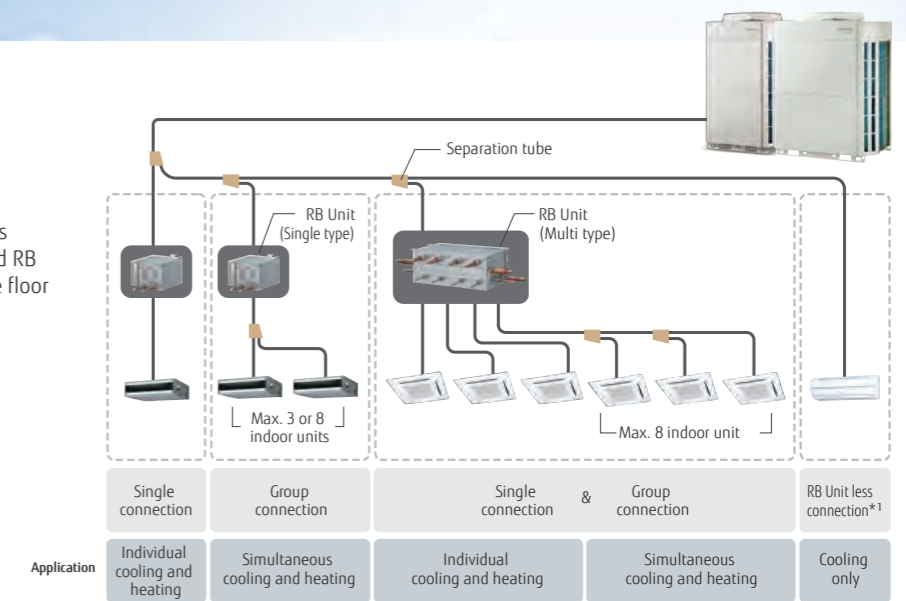
Sophisticated operation control

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



Flexible piping connection

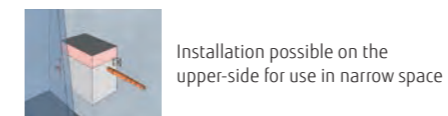
A more flexible refrigerant piping work is possible by the use of various piping and RB Unit connections, for adjustments to the floor layout and building structure.



• The RB unit can be freely positioned between the first branch and the indoor unit.  
• The maximum height difference between RB units is 15 m.  
\* 1: RB Unit is not necessary for cooling only use.

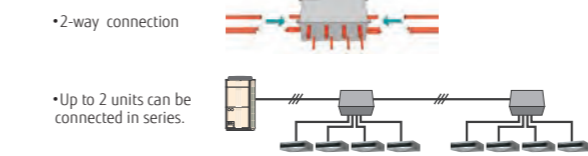
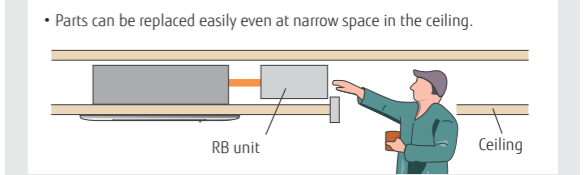
Flexible installation of RB unit

- 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



Easy to maintenance in a narrow space













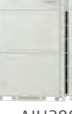






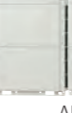

- Maintenance can be performed from the side.
- Electrics box can be temporarily fixed by sliding down.











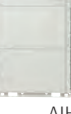






Outdoor units lineup

\* Combinations other than the followings are not recommended.

Space saving combination				
22.4 kW (8HP)  AJHA72GALH UNIT : AJHA72GALH	28.0 kW (10HP)  AJHA90GALH UNIT : AJHA90GALH	33.5 kW (12HP)  AJH108GALH UNIT : AJH108GALH	40.0 kW (14HP)  AJH126GALH UNIT : AJH126GALH	45.0 kW (16HP)  AJH144GALH UNIT : AJH144GALH
50.4 kW (18HP)  AJH162GALH UNIT : AJHA90/A72GALH	56.0 kW (20HP)  AJH180GALH UNIT : AJHA90/A90GALH	61.5 kW (22HP)  AJH198GALH UNIT : AJH108/A90GALH	67.0 kW (24HP)  AJH216GALH UNIT : AJH108/108GALH	73.0 kW (26HP)  AJH234GALH UNIT : AJH144/A90GALH
78.5 kW (28HP)  AJH252GALH UNIT : AJH144/108GALH	85.0 kW (30HP)  AJH270GALH UNIT : AJH144/126GALH	90.0 kW (32HP)  AJH288GALH UNIT : AJH144/144GALH	95.0 kW (34HP)  AJH306GALH UNIT : AJH108/108/A90GALH	100.5 kW (36HP)  AJH324GALH UNIT : AJH108/108/108GALH
106.5 kW (38HP)  AJH342GALH UNIT : AJH144/108/A90GALH	112.0 kW (40HP)  AJH360GALH UNIT : AJH144/108/108GALH	118.0 kW (42HP)  AJH378GALH UNIT : AJH144/144/A90GALH	123.5 kW (44HP)  AJH396GALH UNIT : AJH144/144/108GALH	130.0 kW (46HP)  AJH414GALH UNIT : AJH144/144/126GALH
135.0 kW (48HP)  AJH432GALH UNIT : AJH144/144/144GALH				

Energy efficiency combination				
44.8 kW (16HP)  AJH144GALHH UNIT : AJHA72/A72GALH	62.4 kW (22HP)  AJH198GALHH UNIT : AJH126/A72GALH	67.2 kW (24HP)  AJH216GALHH UNIT : AJHA72/A72/A72GALH	72.8 kW (26HP)  AJH234GALHH UNIT : AJHA90/A72/A72GALH	78.4 kW (28HP)  AJH252GALHH UNIT : AJHA90/A90/A72GALH
84.0 kW (30HP)  AJH270GALHH UNIT : AJHA90/A90/A90GALH	90.4 kW (32HP)  AJH288GALHH UNIT : AJH126/A90/A72GALH	96.0 kW (34HP)  AJH306GALHH UNIT : AJH126/A90/A90GALH	102.4 kW (36HP)  AJH324GALHH UNIT : AJH126/126/A72GALH	108.0 kW (38HP)  AJH342GALHH UNIT : AJH126/126/A90GALH
113.0 kW (40HP)  AJH360GALHH UNIT : AJH144/126/A90GALH	120.0 kW (42HP)  AJH378GALHH UNIT : AJH126/126/126GALH	125.0 kW (44HP)  AJH396GALHH UNIT : AJH144/126/126GALH		

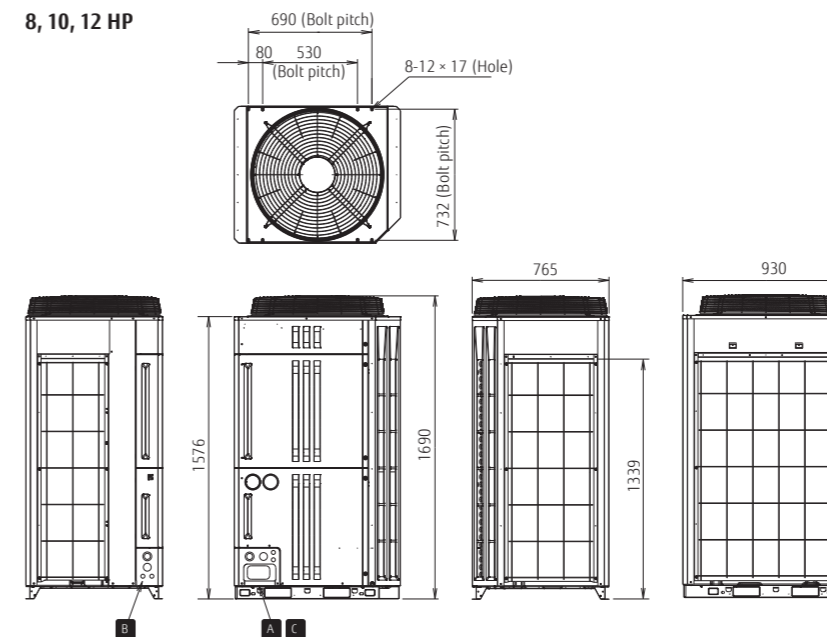
8,10,12HP : AJHA72GALH / AJHA90GALH / AJH108GALH  
14,16HP : AJH126GALH / AJH144GALH



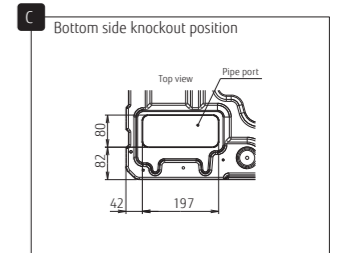
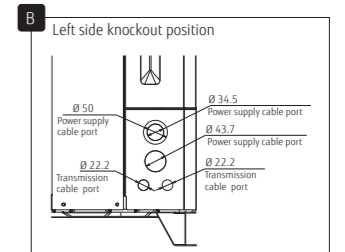
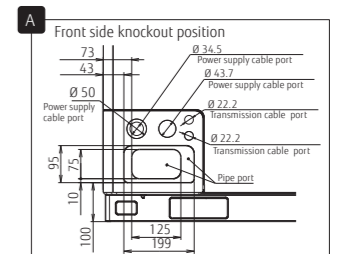
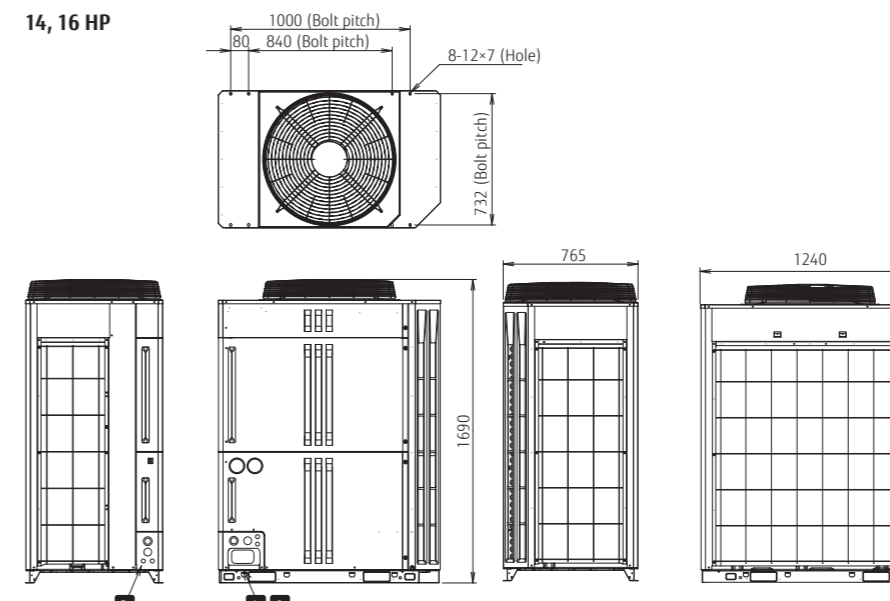
Dimensions

(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	26	28	30	32	34	36	38	40	42	44	46	48	
Set Model name		AJHA72GALH	AJHA90GALH	AJH108GALH	AJH126GALH	AJH144GALH	AJH162GALH	AJH180GALH	AJH198GALH	AJH216GALH	AJH234GALH	AJH252GALH	AJH270GALH	AJH288GALH	AJH306GALH	AJH324GALH	AJH342GALH	AJH360GALH	AJH378GALH	AJH396GALH	AJH414GALH	AJH432GALH	AJH450GALH
Unit 1		AJHA72GALH	AJHA90GALH	AJH108GALH	AJH126GALH	AJH144GALH	AJHA90GALH	AJHA90GALH	AJH108GALH	AJH108GALH	AJH144GALH	AJH144GALH	AJH144GALH	AJH144GALH	AJH108GALH	AJH108GALH	AJH108GALH	AJH108GALH	AJH144GALH	AJH144GALH	AJH144GALH	AJH144GALH	AJH144GALH
Unit 2																							
Unit 3																							
Maximum Connectable Indoor Unit*1		15	16	17	21	24	27	30	32	35	39	42	45	48	50	53	57	60	63	64	64	64	64
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	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	
Power source	3-phase 4 wire, 400 V, 50Hz											3-phase 4 wire, 400 V, 50Hz											
Capacity	Cooling	kW																					
	Heating	kW																					
Input power	Cooling	kW																					
	Heating	kW																					
EER	Cooling	W/W																					
	Heating	W/W																					
COP	Cooling	W/W																					
	Heating	W/W																					
Air flow late		m³/h																					
Sound pressure level**/Power level	Cooling	dB(A)																					
	Heating	dB(A)																					
Maximum external static pressure		Pa																					
Compressor motor output		kW																					
Heat exchanger fin		Blue fin																					
Net Dimensions	Height	mm																					
	Width	mm																					
	Depth	mm																					
Weight		kg																					
Refrigerant	Type (Global Warming Potential)	R410A (2,088)																					
	Charge	kg(CO2eq-T)																					
Connection pipe diameter	Liquid	mm																					
	Discharge Gas	mm																					
	Suction Gas	mm																					
Operation range	Cooling	°CDB																					
	Heating	°CDB																					
	Cooling/Heating	°CDB																					

Energy Efficiency Combination

Rating Capacity range	HP	16	22	24	26	28	30	32	34	36	38	40	42	44	
Set Model name		AJH144GALHH	AJH198GALHH	AJH216GALHH	AJH234GALHH	AJH252GALHH	AJH270GALHH	AJH288GALHH	AJH306GALHH	AJH324GALHH	AJH342GALHH	AJH360GALHH	AJH378GALHH	AJH396GALHH	
Unit 1		AJHA72GALH	AJH126GALH	AJHA72GALH	AJHA90GALH	AJHA90GALH	AJHA90GALH	AJH126GALH	AJH126GALH	AJH126GALH	AJH126GALH	AJH144GALH	AJH126GALH	AJH144GALH	
Unit 2		AJHA72GALH	AJHA72GALH	AJHA72GALH	AJHA72GALH	AJHA72GALH	AJHA72GALH	AJHA72GALH	AJHA72GALH	AJHA72GALH	AJHA72GALH	AJHA72GALH	AJH126GALH	AJH126GALH	
Unit 3															
Maximum Connectable Indoor Unit*1		24	33	36	39	42	45	48	51	54	57	60	64	64	
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	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	
Power source	3-phase 4 wire, 400 V, 50Hz							3-phase 4 wire, 400 V, 50Hz							
Capacity	Cooling	kW													
	Heating	kW													
Input power	Cooling	kW													
	Heating	kW													
EER	Cooling	W/W													
	Heating	W/W													
COP	Cooling	W/W													
	Heating	W/W													
Air flow late		m³/h													
Sound pressure level**/Power level	Cooling	dB(A)													
	Heating	dB(A)													
Maximum external static pressure		Pa													
Compressor motor output		kW													
Heat exchanger fin		Blue fin													
Net Dimensions	Height	mm													
	Width	mm													
	Depth	mm													
Weight		kg													
Refrigerant	Type (Global Warming Potential)	R410A (2,088)													
	Charge	kg(CO2eq-T)													
Connection pipe diameter	Liquid	mm													
	Discharge Gas	mm													
	Suction Gas	mm													
Operation range	Cooling	°CDB													
	Heating	°CDB													
	Cooling/Heating	°CDB													

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.

\*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



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

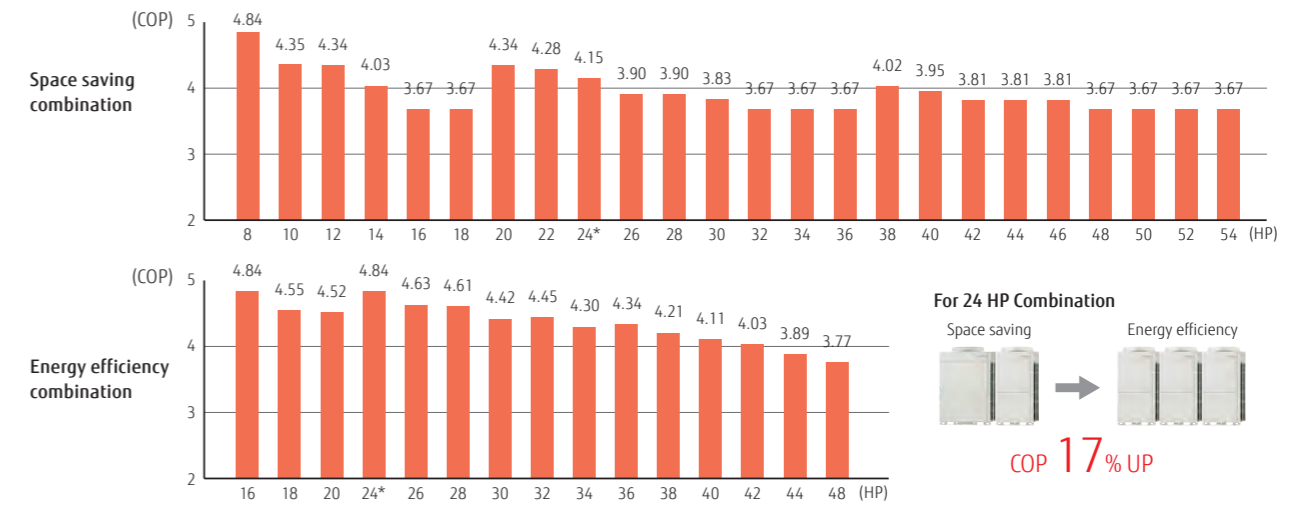
The flexible communication method and piping connections make installation and maintenance easy even for large systems.



## Features

### 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.
- Sine-wave DC inverter control**  
High efficiency is realized by adoption of reduced switching loss IPM.
- Subcool heat exchanger**  
High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.
- High efficient and large capacity DC inverter compressor**  
Large capacity high efficient DC twin rotary compressor with excellent intermediate capability.
- 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)  AJH072LALBH UNIT : AJH072LALBH	28.0 kW (10HP)  AJH090LALBH UNIT : AJH090LALBH	33.5 kW (12HP)  AJH108LALBH UNIT : AJH108LALBH	40.0 kW (14HP)  AJH126LALBH UNIT : AJH126LALBH	45.0 kW (16HP)  AJH144LALBH UNIT : AJH144LALBH
50.0 kW (18HP)  AJH162LALBH UNIT : AJH162LALBH	56.0 kW (20HP)  AJH180LALBH UNIT : AJH090/090LALBH	62.4 kW (22HP)  AJH198LALBH UNIT : AJH126/072LALBH	68.0 kW (24HP)  AJH216LALBH UNIT : AJH126/090LALBH	73.0 kW (26HP)  AJH234LALBH UNIT : AJH144/090LALBH
78.0 kW (28HP)  AJH252LALBH UNIT : AJH162/090LALBH	85.0 kW (30HP)  AJH270LALBH UNIT : AJH144/126LALBH	90.0 kW (32HP)  AJH288LALBH UNIT : AJH144/144LALBH	95.0 kW (34HP)  AJH306LALBH UNIT : AJH162/144LALBH	100.0 kW (36HP)  AJH324LALBH UNIT : AJH162/162LALBH
106.0 kW (38HP)  AJH342LALBH UNIT : AJH162/090/090LALBH	113.0 kW (40HP)  AJH360LALBH UNIT : AJH144/126/090LALBH	118.0 kW (42HP)  AJH378LALBH UNIT : AJH144/144/090LALBH	123.0 kW (44HP)  AJH396LALBH UNIT : AJH162/144/090LALBH	128.0 kW (46HP)  AJH414LALBH UNIT : AJH162/162/090LALBH
135.0 kW (48HP)  AJH432LALBH UNIT : AJH144/144/144LALBH	140.0 kW (50HP)  AJH450LALBH UNIT : AJH162/144/144LALBH	145.0 kW (52HP)  AJH468LALBH UNIT : AJH162/162/144LALBH	150.0 kW (54HP)  AJH486LALBH UNIT : AJH162/162/162LALBH	

Energy efficiency combination				
44.8 kW (16HP)  AJH144LALBHH UNIT : AJH072/072LALBH	50.4 kW (18HP)  AJH162LALBHH UNIT : AJH090/072LALBH	55.9 kW (20HP)  AJH180LALBHH UNIT : AJH108/072LALBH	67.2 kW (24HP)  AJH216LALBHH UNIT : AJH072/072/072LALBH	72.8 kW (26HP)  AJH234LALBHH UNIT : AJH090/072/072LALBH
78.3 kW (28HP)  AJH252LALBHH UNIT : AJH108/072/072LALBH	84.8 kW (30HP)  AJH270LALBHH UNIT : AJH126/072/072LALBH	89.4 kW (32HP)  AJH288LALBHH UNIT : AJH108/108/072LALBH	95.9 kW (34HP)  AJH306LALBHH UNIT : AJH126/108/072LALBH	100.5 kW (36HP)  AJH324LALBHH UNIT : AJH108/108/108LALBH
107.0 kW (38HP)  AJH342LALBHH UNIT : AJH126/108/108LALBH	113.5 kW (40HP)  AJH360LALBHH UNIT : AJH126/126/108LALBH	120.0 kW (42HP)  AJH378LALBHH UNIT : AJH126/126/126LALBH	125.0 kW (44HP)  AJH396LALBHH UNIT : AJH144/126/126LALBH	130.0 kW (46HP)  AJH414LALBHH UNIT : AJH144/144/126LALBH

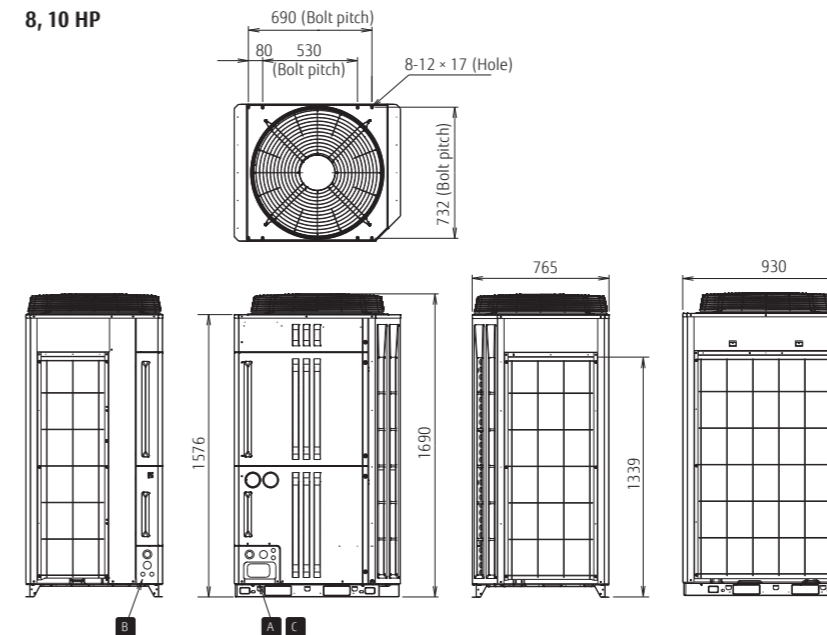
8,10HP : AJH072LALBH / AJH090LALBH  
12,14,16,18HP : AJH108LALBH / AJH126LALBH / AJH144LALBH / AJH162LALBH



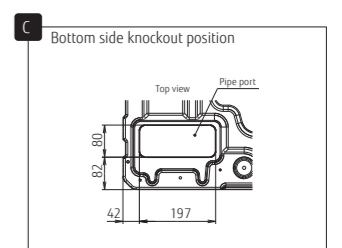
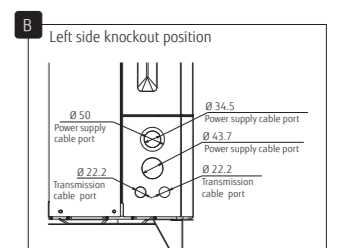
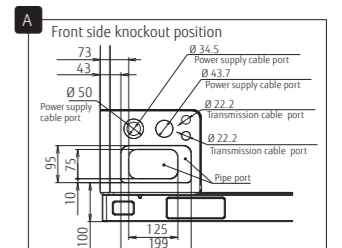
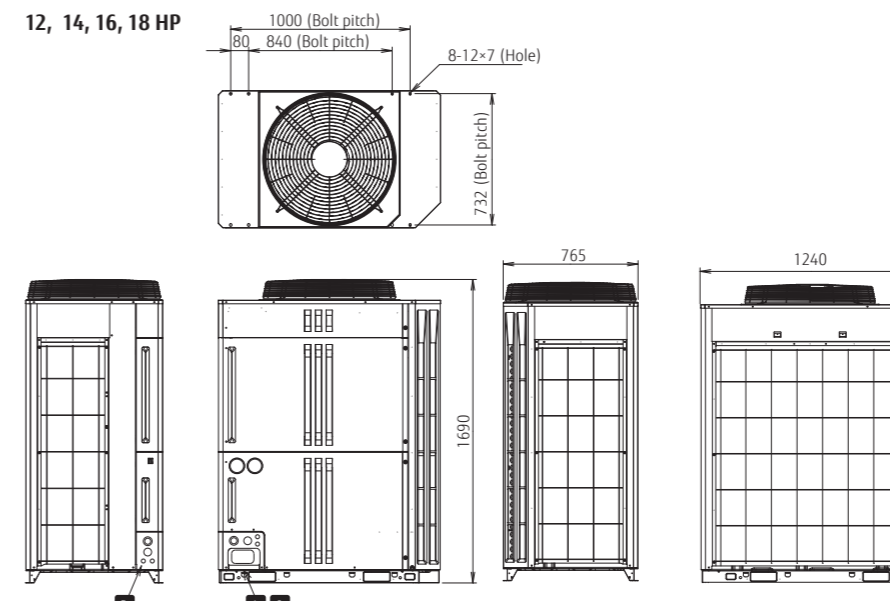
Dimensions

(Unit : mm)

8, 10 HP



12, 14, 16, 18 HP





Outdoor units specifications

Space Saving Combination

Rating Capacity range	HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
Set Model name		AJH072LALBH	AJH090LALBH	AJH108LALBH	AJH126LALBH	AJH144LALBH	AJH162LALBH	AJH180LALBH	AJH198LALBH	AJH216LALBH	AJH234LALBH	AJH252LALBH	AJH270LALBH	AJH288LALBH	AJH306LALBH	AJH324LALBH	AJH342LALBH	AJH360LALBH	AJH378LALBH	AJH396LALBH	AJH414LALBH	AJH432LALBH	AJH450LALBH	AJH468LALBH	AJH486LALBH
Unit 1		AJH072LALBH	AJH090LALBH	AJH108LALBH	AJH126LALBH	AJH144LALBH	AJH162LALBH	AJH180LALBH	AJH198LALBH	AJH216LALBH	AJH234LALBH	AJH252LALBH	AJH270LALBH	AJH288LALBH	AJH306LALBH	AJH324LALBH	AJH342LALBH	AJH360LALBH	AJH378LALBH	AJH396LALBH	AJH414LALBH	AJH432LALBH	AJH450LALBH	AJH468LALBH	AJH486LALBH
Unit 2		AJH072LALBH	AJH090LALBH	AJH108LALBH	AJH126LALBH	AJH144LALBH	AJH162LALBH	AJH180LALBH	AJH198LALBH	AJH216LALBH	AJH234LALBH	AJH252LALBH	AJH270LALBH	AJH288LALBH	AJH306LALBH	AJH324LALBH	AJH342LALBH	AJH360LALBH	AJH378LALBH	AJH396LALBH	AJH414LALBH	AJH432LALBH	AJH450LALBH	AJH468LALBH	AJH486LALBH
Unit 3		AJH072LALBH	AJH090LALBH	AJH108LALBH	AJH126LALBH	AJH144LALBH	AJH162LALBH	AJH180LALBH	AJH198LALBH	AJH216LALBH	AJH234LALBH	AJH252LALBH	AJH270LALBH	AJH288LALBH	AJH306LALBH	AJH324LALBH	AJH342LALBH	AJH360LALBH	AJH378LALBH	AJH396LALBH	AJH414LALBH	AJH432LALBH	AJH450LALBH	AJH468LALBH	AJH486LALBH
Maximum Connectable Indoor Unit*1		17	21	26	30	34	39	43	47	52	56	60	64	64	64	64	64	64	64	64	64	64	64	64	64
Indoor unit connectable capacity	kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.0-67.5	28.0-84.0	31.2-93.6	34.0-102.0	36.5-109.5	39.0-109.5	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
Power source		3-phase 4 wire, 400 V, 50Hz												3-phase 4 wire, 400 V, 50Hz											
Capacity	Cooling	kW																							
	Heating	kW																							
Input power	Cooling	kW																							
	Heating	kW																							
EER	Cooling	W/W																							
	Heating	W/W																							
COP	Cooling	W/W																							
	Heating	W/W																							
Air flow late	High	m³/h																							
Sound pressure level**/ Power level	Cooling	dB(A)																							
	Heating	dB(A)																							
Maximum external static pressure		Pa																							
Compressor motor output		kW																							
Heat exchanger fin		Blue fin																							
Net Dimensions	Height	mm																							
	Width	mm																							
	Depth	mm																							
Weight		kg																							
Refrigerant	Type (Global Warming Potential)	R410A (2,088)																							
	Charge	kg(CO2eq-T)																							
Connection pipe diameter	Liquid	mm																							
	Gas	mm																							
Operation range	Cooling	°CDB																							
	Heating	°CDB																							

Energy Efficiency Combination

Rating Capacity range	HP	16	18	20	24	26	28	30	32	34	36	38	40	42	44	46	
Set Model name		AJH144LALBHH	AJH162LALBHH	AJH180LALBHH	AJH216LALBHH	AJH234LALBHH	AJH252LALBHH	AJH270LALBHH	AJH288LALBHH	AJH306LALBHH	AJH324LALBHH	AJH342LALBHH	AJH360LALBHH	AJH378LALBHH	AJH396LALBHH	AJH414LALBHH	
Unit 1		AJH072LALBH	AJH090LALBH	AJH108LALBH	AJH126LALBH	AJH144LALBH	AJH162LALBH	AJH180LALBH	AJH198LALBH	AJH216LALBH	AJH234LALBH	AJH252LALBH	AJH270LALBH	AJH288LALBH	AJH306LALBH	AJH324LALBH	
Unit 2		AJH072LALBH	AJH090LALBH	AJH108LALBH	AJH126LALBH	AJH144LALBH	AJH162LALBH	AJH180LALBH	AJH198LALBH	AJH216LALBH	AJH234LALBH	AJH252LALBH	AJH270LALBH	AJH288LALBH	AJH306LALBH	AJH324LALBH	
Unit 3		AJH072LALBH	AJH090LALBH	AJH108LALBH	AJH126LALBH	AJH144LALBH	AJH162LALBH	AJH180LALBH	AJH198LALBH	AJH216LALBH	AJH234LALBH	AJH252LALBH	AJH270LALBH	AJH288LALBH	AJH306LALBH	AJH324LALBH	
Maximum Connectable Indoor Unit*1		34	39	43	52	56	60	64	64	64	64	64	64	64	64	64	
Indoor unit connectable capacity	kW	22.4-67.2	25.2-75.6	28.0-83.8	33.6-100.8	36.4-109.2	39.2-117.4	42.4-127.2	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	
Power source		3-phase 4 wire, 400 V, 50Hz								3-phase 4 wire, 400 V, 50Hz							
Capacity	Cooling	kW															
	Heating	kW															
Input power	Cooling	kW															
	Heating	kW															
EER	Cooling	W/W															
	Heating	W/W															
COP	Cooling	W/W															
	Heating	W/W															
Air flow late	High	m³/h															
Sound pressure level**/ Power level	Cooling	dB(A)															
	Heating	dB(A)															
Maximum external static pressure		Pa															
Compressor motor output		kW															
Heat exchanger fin		Blue fin															
Net Dimensions	Height	mm															
	Width	mm															
	Depth	mm															
Weight		kg															
Refrigerant	Type (Global Warming Potential)	R410A (2,088)															
	Charge	kg(CO2eq-T)															
Connection pipe diameter	Liquid	mm															
	Gas	mm															
Operation range	Cooling	°CDB															
	Heating	°CDB															

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.

\*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 Modular Type



Fujitsu General tropical VRF is designed for tropical weather.  
 Extensive lineup from 8HP to 54HP\* in 2HP increment  
 Connectable indoor unit capacity ratio up to 130%



## System Outline

### High ambient operation design

Possible to operate cooling up to 52°C outdoor temperature

### Powerful cooling capacity design

Keeping high cooling power at even high ambient temperature

### Anti-corrosion treatment design

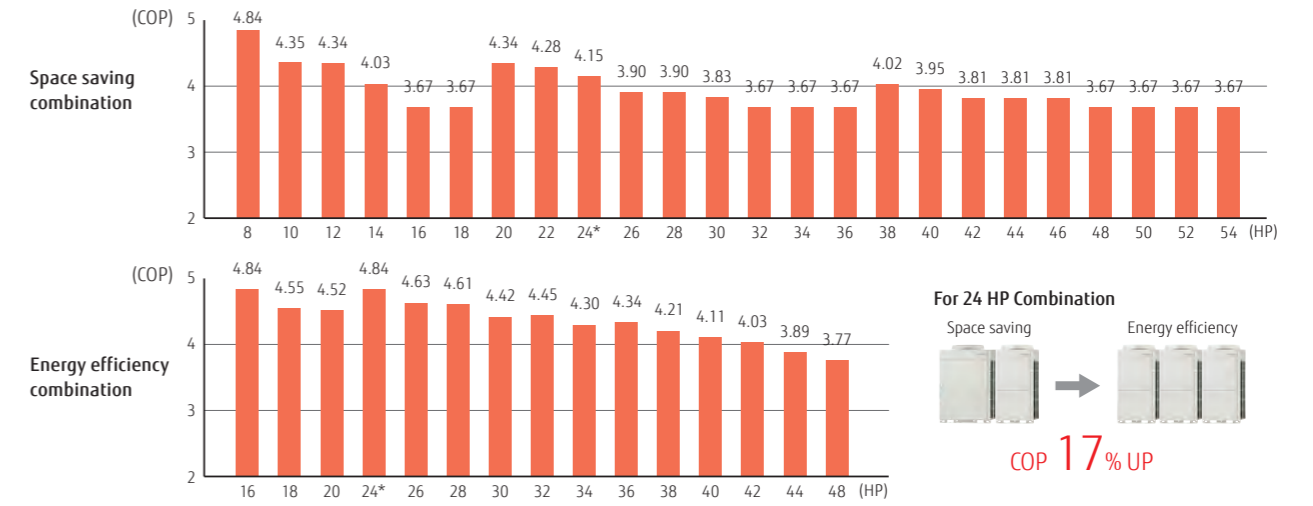
All metallic and PCB components are protected against corrosion



## Features

### 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.
- Sine-wave DC inverter control**  
High efficiency is realized by adoption of reduced switching loss IPM.
- Subcool heat exchanger**  
High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.
- High efficient and large capacity DC inverter compressor**  
Large capacity high efficient DC twin rotary compressor with excellent intermediate capability.
- 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)  AJH072LNLBH UNIT : AJH072LNLBH	28.0 kW (10HP)  AJH090LNLBH UNIT : AJH090LNLBH	33.5 kW (12HP)  AJH108LNLBH UNIT : AJH108LNLBH	40.0 kW (14HP)  AJH126LNLBH UNIT : AJH126LNLBH	45.0 kW (16HP)  AJH144LNLBH UNIT : AJH144LNLBH
50.0 kW (18HP)  AJH162LNLBH UNIT : AJH162LNLBH	56.0 kW (20HP)  AJH180LNLBH UNIT : AJH090/090LNLBH	62.4 kW (22HP)  AJH198LNLBH UNIT : AJH126/072LNLBH	68.0 kW (24HP)  AJH216LNLBH UNIT : AJH126/090LNLBH	73.0 kW (26HP)  AJH234LNLBH UNIT : AJH144/090LNLBH
78.0 kW (28HP)  AJH252LNLBH UNIT : AJH162/090LNLBH	85.0 kW (30HP)  AJH270LNLBH UNIT : AJH144/126LNLBH	90.0 kW (32HP)  AJH288LNLBH UNIT : AJH144/144LNLBH	95.0 kW (34HP)  AJH306LNLBH UNIT : AJH162/144LNLBH	100.0 kW (36HP)  AJH324LNLBH UNIT : AJH162/162LNLBH
106.0 kW (38HP)  AJH342LNLBH UNIT : AJH162/090/090LNLBH	113.0 kW (40HP)  AJH360LNLBH UNIT : AJH144/126/090LNLBH	118.0 kW (42HP)  AJH378LNLBH UNIT : AJH144/144/090LNLBH	123.0 kW (44HP)  AJH396LNLBH UNIT : AJH162/144/090LNLBH	128.0 kW (46HP)  AJH414LNLBH UNIT : AJH162/162/090LNLBH
135.0 kW (48HP)  AJH432LNLBH UNIT : AJH144/144/144LNLBH	140.0 kW (50HP)  AJH450LNLBH UNIT : AJH162/144/144LNLBH	145.0 kW (52HP)  AJH468LNLBH UNIT : AJH162/162/144LNLBH	150.0 kW (54HP)  AJH486LNLBH UNIT : AJH162/162/162LNLBH	

Energy efficiency combination				
44.8 kW (16HP)  AJH144LNLBHH UNIT : AJH072/072LNLBH	50.4 kW (18HP)  AJH162LNLBHH UNIT : AJH090/072LNLBH	55.9 kW (20HP)  AJH180LNLBHH UNIT : AJH108/072LNLBH	67.2 kW (24HP)  AJH216LNLBHH UNIT : AJH072/072/072LNLBH	72.8 kW (26HP)  AJH234LNLBHH UNIT : AJH090/072/072LNLBH
78.3 kW (28HP)  AJH252LNLBHH UNIT : AJH108/072/072LNLBH	84.8 kW (30HP)  AJH270LNLBHH UNIT : AJH126/072/072LNLBH	89.4 kW (32HP)  AJH288LNLBHH UNIT : AJH108/108/072LNLBH	95.9 kW (34HP)  AJH306LNLBHH UNIT : AJH126/108/072LNLBH	100.5 kW (36HP)  AJH324LNLBHH UNIT : AJH108/108/108LNLBH
107.0 kW (38HP)  AJH342LNLBHH UNIT : AJH126/108/108LNLBH	113.5 kW (40HP)  AJH360LNLBHH UNIT : AJH126/126/108LNLBH	120.0 kW (42HP)  AJH378LNLBHH UNIT : AJH126/126/126LNLBH	125.0 kW (44HP)  AJH396LNLBHH UNIT : AJH144/126/126LNLBH	130.0 kW (46HP)  AJH414LNLBHH UNIT : AJH144/144/126LNLBH

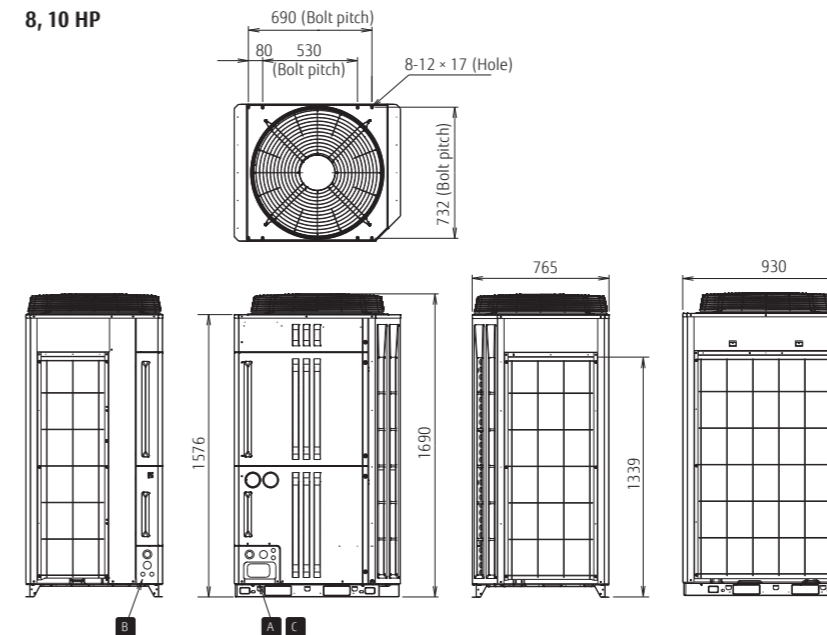
8,10HP : AJH072LNLBH / AJH090LNLBH  
12,14,16,18HP : AJH108LNLBH / AJH126LNLBH / AJH144LNLBH / AJH162LNLBH



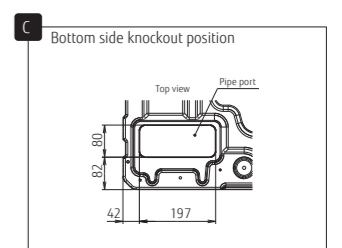
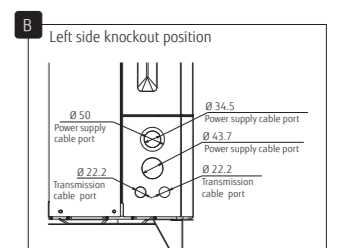
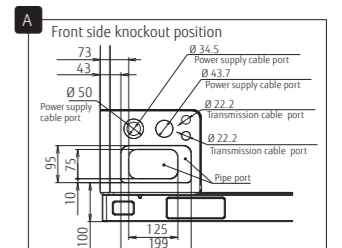
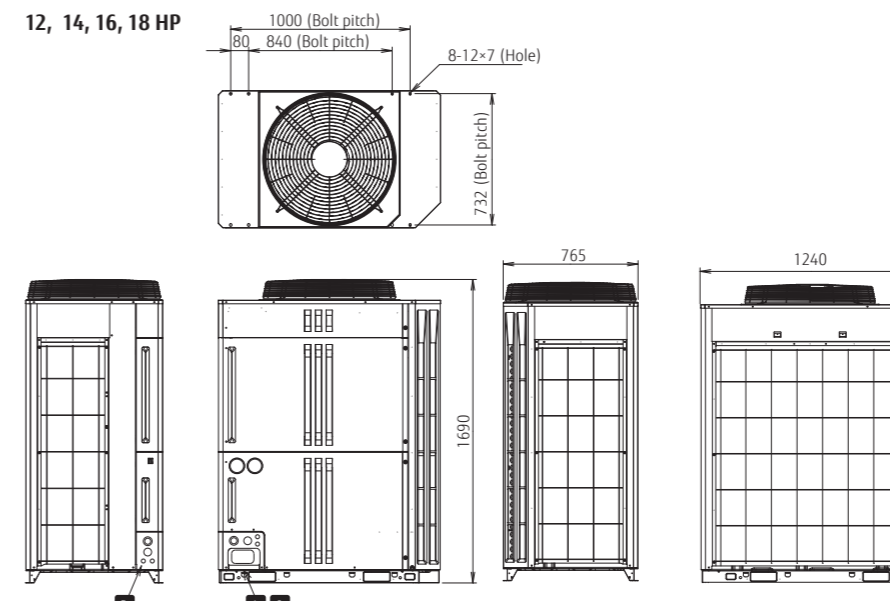
Dimensions

(Unit : mm)

8, 10 HP



12, 14, 16, 18 HP



For more information, please contact Fujitsu General Limited. (www.fujitsu-general.com)

Outdoor units specifications

Space Saving Combination

Table with columns for Rating Capacity range (HP) and 24 different model numbers (8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54). Rows include Set Model name, Maximum Connectable Indoor Unit, Power source, Capacity, Input power, Current, EER, COP, Power factor, Airflow rate, Sound pressure level, External static pressure, Compressor motor output, Heat exchanger fin, Net Dimensions, Weight, Refrigerant, Connection pipe diameter, and Operation range.

Energy Efficiency Combination

Table with columns for Rating Capacity range (HP) and 12 different model numbers (16, 18, 20, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46). Rows include Set Model name, Maximum Connectable Indoor Unit, Power source, Capacity, Input power, Current, EER, COP, Power factor, Airflow rate, Sound pressure level, External static pressure, Compressor motor output, Heat exchanger fin, Net Dimensions, Weight, Refrigerant, Connection pipe diameter, and Operation range.

Note: Specifications are based on the following conditions. Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB. Cooling(T1): Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB. Cooling(T3): Indoor temperature of 29°CDB / 19°CWB, and outdoor temperature of 46°CDB / 24°CWB. Pipe length: 7.5m. Height difference between outdoor and indoor unit: 0m.





# LARGE VRF Indoor Units



Capacity range (kW)		1.1	2.2	2.8	3.6	4.5	5.6	7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0	28.0		
Model code		4	7	9	12	14	18	24	30	34	36	45	54	60	72	90	96		
Cassette	Compact																		
	4-way Flow Slim type																		
	4-way Flow Large type																		
	Circular Flow Slim type																		
	Circular Flow Large type																		
Duct	Mini Duct (With drain pump)																		
	Slim Duct (With drain pump)																		
	Medium Static Pressure Duct																		
	High Static Pressure Duct																		
	Large Airflow Duct																		
Floor	Floor (*Same as Ceiling models)																		
	Slim Concealed Floor (*Same as Slim Duct models)																		
	Compact Floor																		
	Compact Floor (EEV external)																		
		With this model, connection of EV kit is necessary.																	
Ceiling																			
Wall Mounted	Wall Mounted																		
	Wall Mounted (EEV external)																		
		With this model, connection of EV kit is necessary.																	

\*1: Large Airflow Duct can be connected to V-III series only.

# Indoor Units for LARGE VRF Specifications



## 4-way Compact Cassette

NEW



Model name		AUXB04GBLH	AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH	AUXB18GALH	AUXB24GALH
Power source		Single-phase, ~230V, 50Hz						
Capacity	Cooling	1.1	2.2	2.8	3.6	4.5	5.6	7.1
	Heating	1.3	2.8	3.2	4.1	5.0	6.3	8.0
Input power	Cooling	23	25	25	29	35	36	84
	Heating	23	25	25	29	35	36	84
Airflow rate	High	420/450*1	540	550	600	680	710	1,030
	Med	300/350*1	450	450	530	590	580	830
	Low	300/350*1	350	350	390	390	400	450
	Quiet	34	34	35	37	38	41	50
Sound pressure level	High	28/30*1	30	30	34	34	35	44
	Med	21/25*1	25	25	27	27	27	30
	Low	21/25*1	25	25	27	27	27	30
	Quiet	21/25*1	25	25	27	27	27	30
Net Dimensions (H × W × D)		mm 245 × 570 × 570						
Weight		kg(lbs) 15 (33)						
Connection pipe diameter	Liquid (Flare)	6.35						
	Gas (Flare)	12.70						
Drain hose diameter (I.D./O.D.)		25/32						
Cassette Model name		UTG-UFGC-W						
Grille Net Dimensions (H×W×D)		mm 50 × 700 × 700						
Weight		kg(lbs) 2.6 (6)						

Note : Specifications are based on the following conditions.

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

## 4-way Cassette



Model name		AUXD18GALH	AUXD24GALH	AUXA18GALH	AUXA24GALH	AUXA30GALH	AUXA34GALH	AUXA36GALH	AUXA45GALH	AUXA54GALH
Power source		Single-phase, ~230V, 50Hz								
Capacity	Cooling	5.6	7.1	5.6	7.1	9.0	10.0	11.2	12.5	14.0
	Heating	6.3	8.0	6.3	8.0	10.0	11.2	12.5	14.0	16.0
Input power	Cooling	39	46	51	51	59	77	80	99	119
	Heating	39	46	51	51	59	77	80	99	119
Airflow rate	High	1,150	1,280	1,420	1,420	1,600	1,750	1,800	1,900	2,000
	Med	940	1,040	1,230	1,230	1,300	1,300	1,300	1,370	1,370
	Low	870	870	1,100/1,000*1	1,100/1,000*1	1,100	1,100	1,100	1,100	1,100
	Quiet	36	38	40	40	40	43	44	46	47
Sound pressure level	High	30	33	36	36	38	38	38	39	39
	Med	29	29	33/31*1	33/31*1	33	33	33	33	33
	Low	29	29	33/31*1	33/31*1	33	33	33	33	33
	Quiet	29	29	33/31*1	33/31*1	33	33	33	33	33
Net Dimensions (H × W × D)		mm 246 × 840 × 840				mm 288 × 840 × 840				
Weight		kg(lbs) 22 (48)				kg(lbs) 27 (59)				
Connection pipe diameter	Liquid (Flare)	9.52					19.05			
	Gas (Flare)	15.88					19.05			
Drain hose diameter (I.D./O.D.)		25/32								
Cassette Model name		UTG-UGGA-W								
Grille Net Dimensions (H×W×D)		mm 50 × 950 × 950								
Weight		kg(lbs) 5.5 (12)								

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 "cooling operation / heating operation".

## Circular Flow Cassette

NEW



Model name		AUXM018GLAH	AUXM024GLAH	AUXM030GLAH	AUXK018GLAH	AUXK024GLAH	AUXK030GLAH	AUXK034GLAH	AUXK036GLAH	AUXK045GLAH	AUXK054GLAH
Power source		Single-phase, ~230V, 50Hz									
Capacity	Cooling	5.6	7.1	9.0	5.6	7.1	9.0	10.0	11.2	12.5	14.0
	Heating	6.3	8.0	10.0	6.3	8.0	10.0	11.2	12.5	14.0	16.0
Input power	Cooling	20	25	49	40	40	47	47	61	89	116
	Heating	20	25	49	40	40	47	47	61	89	116
Airflow rate	High	1,050	1,120	1,470	1,420	1,420	1,440	1,440	1,620	1,820	2,040
	Med-H	930	1,050	1,160	1,360	1,360	1,440	1,440	1,500	1,590	1,800
	Med	900	930	1,070	1,300	1,300	1,340	1,340	1,400	1,500	1,590
	Med-L	870	900	930	1,270	1,270	1,300	1,300	1,340	1,400	1,440
	Low	810	870	900	1,200	1,200	1,280	1,280	1,280	1,300	1,300
	Quiet	780	780	780	1,150	1,150	1,150	1,150	1,150	1,150	1,150
Sound pressure level	High	33	35	40	38	38	39	39	41	44	47
	Med-H	32	33	36	37	37	38	38	40	42	45
	Med	31	32	34	36	36	37	37	38	40	42
	Med-L	30	31	32	35	35	36	36	37	38	39
	Low	29	30	31	34	34	35	35	36	36	36
	Quiet	28	28	28	33	33	33	33	33	33	33
Net Dimensions (H × W × D)		mm 246 × 840 × 840					mm 288 × 840 × 840				
Weight		kg(lbs) 24.0 (53)					kg(lbs) 29.5 (65)				
Connection pipe diameter	Liquid (Flare)	6.35					9.52				
	Gas (Flare)	12.70					15.88				
Drain hose diameter (I.D./O.D.)		25/32					25/32				
Cassette Model name		UTG-UKGC-W / UTG-UKGA-B					UTG-UKGC-W / UTG-UKGA-B				
Grille Net Dimensions (H×W×D)		mm 53 × 950 × 950		mm 53 × 950 × 950		mm 53 × 950 × 950		mm 53 × 950 × 950		mm 53 × 950 × 950	
Weight		kg(lbs) 6.0 (13)		kg(lbs) 6.0 (13)		kg(lbs) 6.0 (13)		kg(lbs) 6.0 (13)		kg(lbs) 6.0 (13)	

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.  
 Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.  
 Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m. Voltage : 230 [V].  
 When AUX\*018GLAH is connected to the outdoor unit other than J-III, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas).  
 When AUXK036GLAH, AUXK045GLAH, and AUXK054GLAH are connected to the outdoor unit other than J-III, gas pipe diameter should be Ø19.05.



# Indoor Units for LARGE VRF Specifications



## Mini Duct

NEW



Model name	ARXK04GCLH	ARXK07GCLH	ARXK09GCLH	ARXK12GCLH	ARXK14GCLH	ARXK18GCLH	ARXK24GCLH
Power source	Single-phase, ~230V, 50Hz						
Capacity	Cooling 1.1	2.2	2.8	3.6	4.5	5.6	7.1
	Heating 1.3	2.8	3.2	4.0	5.0	6.3	8.0
Input power	W						
	Cooling 26	28	28	35	66	73	80
	Heating 460	460	460	550	760	930	1,160
Airflow rate	m <sup>3</sup> /h						
	High 440	—	—	—	—	—	—
	Med-H 420	420	420	480	560	740	960
	Med 400	—	—	—	—	—	—
	Med-L 370	370	370	410	410	540	750
	Low 340	—	—	—	—	—	—
	Quiet	—	—	—	—	—	—
Static pressure range	Pa						
Standard static pressure	0 to 30			0 to 50			
	High 25	26	26	29	34	33	32
	Med-H 24	25	25	27	31	30	30
	Med 23	24	24	26	28	28	28
	Med-L 22	23	23	25	26	26	27
	Low 21	22	22	24	24	24	25
	Quiet 20	21	21	22	22	22	22
Net Dimensions (H × W × D)	mm						
Weight	198 × 700 × 450			198 × 900 × 450			
	14.5 (32)	15.5 (34)	6.35	16 (35)	19 (42)	9.52	22.5 (50)
Connection pipe diameter	mm						
Liquid (Flare)	6.35			9.52		15.88	
Gas (Flare)	9.52						
Drain hose diameter (I.D./O.D.)	25/32						

Note : Specifications are based on the following conditions.

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

## Slim Duct / Slim Concealed Floor



Model name	ARXD04GALH	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH	ARXD18GALH	ARXD24GALH
Power source	Single-phase, ~230V, 50Hz						
Capacity	Cooling 1.1	2.2	2.8	3.6	4.5	5.6	7.1
	Heating 1.3	2.8	3.2	4.0	5.0	6.3	8.0
Input power	W						
	Cooling 40	44	50	54	92	83	122
	Heating 510	550	600	600	800	940	1,330
Airflow rate	m <sup>3</sup> /h						
	High 400/470*1	490	550	510	710	840	1,240
	Med 320/440*1	440	480	450	610	750	1,100
	Low —	—	—	—	—	—	—
Static pressure range	Pa						
Standard static pressure	0 to 90		0 to 90		0 to 90		
	High 25	25	25	25	25	25	25
	Med 26	28	29	30	34	34	35
	Med-L 21/25*1	25	26	27	32	32	32
	Low 20/22*1	22	24	24	28	28	29
Net Dimensions (H × W × D)	mm						
Weight	198 × 700 × 620			18 (40)		198 × 900 × 620	
	17 (37)		6.35		26 (57)		
Connection pipe diameter	mm						
Liquid (Flare)	12.70			9.52		15.88	
Gas (Flare)	12.70						
Drain hose diameter (I.D./O.D.)	25/32						

Note : Specifications are based on the following conditions.

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

## Medium Static Pressure Duct



Model name	ARXA24GBLH	ARXA30GBLH	ARXA36GBLH	ARXA45GBLH
Power source	Single-phase, ~230V, 50Hz			
Capacity	Cooling 7.1	9.0	11.2	12.5
	Heating 8.0	10.0	12.5	14.0
Input power	W			
	Cooling 94	108	194	240
	Heating 1,280	1,410	1,840	1,970
Airflow rate	m <sup>3</sup> /h			
	High 990	1,280	1,600	1,860
	Med 840	1,150	1,470	1,640
	Low —	—	—	—
Static pressure range	Pa			
Standard static pressure	0 to 150		0 to 150	
	High 40	50	50	60
	Med 31	34	37	41
	Med-L 30	32	35	38
	Low 23	29	33	36
Net Dimensions (H × W × D)	mm			
Weight	270 × 1,135 × 700		40 (88)	
Connection pipe diameter	mm			
Liquid (Flare)	15.88		9.52	
Gas (Flare)	19.05			
Drain hose diameter (I.D./O.D.)	25/32			

Note : Specifications are based on the following conditions.

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

## High Static Pressure Duct



Model name	ARXC36GBTH	ARXC45GATH	ARXC60GATH*	ARXC72GBTH	ARXC90GBTH	ARXC96GATH
Power source	Single-phase, ~230V, 50Hz					
Capacity	Cooling 11.2	12.5	18.0	22.4	25.0	28.0
	Heating 12.5	14.0	20.0	25.0	28.0	31.5
Input power	W					
	Cooling 207	715	730	681	819	838
	Heating 1,990	3,500	3,500	3,900	4,300	4,850
Airflow rate	m <sup>3</sup> /h					
	High 1,680	3,000	3,000	3,300	4,000	4,250
	Med 1,330	2,460	2,460	3,000	3,500	3,600
	Low 100	100	100	150	150	150
Static pressure range	Pa					
Standard static pressure	0 to 200		100 to 250		0 to 300	
	High 42	49	49	47	48	48
	Med 36	45	45	43	46	45
	Low 32	42	42	40	44	42
Net Dimensions (H × W × D)	mm		400 × 1,050 × 500		450 × 1,587 × 700	
Weight	kg(lbs)		46 (101)		84 (185)	
Connection pipe diameter	mm					
Liquid	9.52 (Flare)			12.70 (Brazing)		
Gas	19.05 (Flare)					
Drain hose diameter (I.D./O.D.)	25/32					

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].

## Large Airflow Duct



Model name	ARXN18GATH	ARXN24GATH	ARXN30GATH	ARXN34GATH	ARXN36GATH	ARXN45GATH
Power source	Single-phase, ~230V, 50Hz					
Capacity	Cooling 5.6	7.1	9.0	10.0	11.2	12.5
	Heating 6.3	8.0	10.0	11.2	12.5	14.0
Input power	W					
	Cooling 154	205	306	432	572	572
	Heating 2,280	2,640	3,200	3,720	4,120	4,120
Airflow rate	m <sup>3</sup> /h					
	High —	—	—	—	—	—
	Med —	—	—	—	—	—
	Low —	—	—	—	—	—
Static pressure range	Pa					
Standard static pressure	50 to 100		50 to 150		50 to 250	
	High 50	50	50	50	60	60
	Med 35	37	40	43	45	45
	Low —	—	—	—	—	—
Net Dimensions (H × W × D)	mm					
Weight	kg(lbs)					
	450 × 1,587 × 700			84 (185)		
Connection pipe diameter	mm					
Liquid	15.88 (Flare)			9.52 (Flare)		
Gas	19.05 (Flare)					
Drain hose diameter (I.D./O.D.)	25/32					

Note : Specifications are based on the following conditions.

Large Airflow Duct can be connected to V-III series only.

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].

## Compact Floor

NEW



Model name	AGHA004GCAH	AGHA007GCAH	AGHA009GCAH	AGHA012GCAH	AGHA014GCAH	AGHE004GCAH	AGHE007GCAH	AGHE009GCAH	AGHE012GCAH	AGHE014GCAH	
Power source	Single-phase, ~230V, 50Hz						Single-phase, ~230V, 50Hz				
Capacity	Cooling 1.1	2.2	2.8	3.6	4.0	1.1	2.2	2.8	3.6	4.0	
	Heating 1.3	2.8	3.2	4.0	4.5	1.3	2.8	3.2	4.0	4.5	
Input power	W										
	Cooling 12 / 14	16	17	22	29	12 / 14	16	17	22	29	
	Heating 380 / 430	470	500	590	670	380 / 430	470	500	590	670	
Airflow rate	m <sup>3</sup> /h										
	High 350	420	450	520	590	350	420	450	520	590	
	Med 320	390	400	470	520	320	390	400	470	520	
	Med-L 310	360	360	420	450	310	360	360	420	450	
	Low 280	330	330	390	390	280	330	330	390	390	
	Quiet 210	270	270	340	340	210	270	270	340	340	
Sound pressure level	dB(A)										
	High 35 / 36	37	38	42	46	35 / 36	37	38	42	46	
	Med-H 33	35	36	39	42	33	35	36	39	42	
	Med 31	33	34	37	39	31	33	34	37	39	
	Med-L 30	31	31	35	36	30	31	31	35	36	
	Low 28	29	29	33	33	28	29	29	33	33	
	Quiet 22	22	22	30	30	22	22	22	30	30	
Net Dimensions (H × W × D)	mm						mm				
Weight	kg(lbs)						kg(lbs)				
	15 (33)			15 (33)			15 (33)			15 (33)	
Connection pipe diameter	mm										
Liquid (Flare)	6.35			6.35			14.5 (32)		14.5 (32)		14.5 (32)
Gas (Flare)	9.52						9.52				
Drain hose diameter (I.D./O.D.)	13.8/15.8to16.7						13.8/15.8to16.7				
EV Kit (option)	-						UTR-EV09XB			UTR-EV14XB	

Note : Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.  
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.  
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.  
Voltage : 230 [V].  
When AGH\*004GCAH, AGH\*007GCAH, and AGH\*009GCAH are connected to the outdoor unit other than J-III, gas pipe diameter should be Ø12.70.

# Indoor Units for LARGE VRF Specifications



Floor/Ceiling



Model name		ABHA12GATH	ABHA14GATH	ABHA18GATH	ABHA24GATH
Power source		Single-phase, ~230V, 50Hz			
Capacity	Cooling	3.6	4.5	5.6	7.1
	Heating	4.0	5.0	6.3	8.0
Input power		W			
Airflow rate	High	660	780	1,000	1,000
	Med	570	640	720	820
	Low	490	550	580	680
	Quiet	36	40	46	47
Sound pressure level	High	32	36	39	42
	Med	28	34	35	37
	Low				
	Quiet				
Net Dimensions (H × W × D)		mm 199 × 990 × 655			
Weight		kg(lbs)			
Connection pipe diameter		mm			
Liquid (Flare)		6.35			
Gas (Flare)		12.70			
Drain hose diameter (I.D./O.D.)		25/32			

Note : Specifications are based on the following conditions.

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

Ceiling



Model name		ABHA30GATH	ABHA36GATH	ABHA45GATH	ABHA54GATH
Power source		Single-phase, ~230V, 50Hz			
Capacity	Cooling	9.0	11.2	12.5	14.0
	Heating	10.0	12.5	14.0	16.0
Input power		W			
Airflow rate	High	1,630	1,690	2,010	2,270
	Med	1,370	1,400	1,600	1,780
	Low	1,140	1,170	1,230	1,280
	Quiet	42	45	48	51
Sound pressure level	High	38	38	42	45
	Med	33	34	35	36
	Low				
	Quiet				
Net Dimensions (H × W × D)		mm 240 × 1,660 × 700			
Weight		kg(lbs)			
Connection pipe diameter		mm			
Liquid (Flare)		9.52			
Gas (Flare)		15.88			
Drain hose diameter (I.D./O.D.)		25/32			

Note : Specifications are based on the following conditions.

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

Wall Mounted

NEW ASY\*004/007/009GTAH



Model name		ASHA004GTAH	ASHA007GTAH	ASHA009GTAH	ASHA12GATH	ASHA14GATH	ASHE004GTAH	ASHE007GTAH	ASHE009GTAH	ASHE12GATH	ASHE14GATH
Power source		Single-phase, ~230V, 50Hz									
Capacity	Cooling	1.1	2.2	2.8	3.6	4.5	1.1	2.2	2.8	3.6	4.5
	Heating	1.3	2.8	3.2	4.1	5.0	1.3	2.8	3.2	4.1	5.0
Input power		W									
Airflow rate	High	430	550	720	560	670	430	550	720	560	680
	Med-H	420	460	570	—	—	420	460	570	—	—
	Med	390	420	500	480	490	390	420	500	480	490
	Med-L	380	390	410	—	—	380	390	410	—	—
	Low	360	360	360	420	420	360	360	360	420	420
	Quiet	330	330	330	—	—	330	330	330	—	—
Sound pressure level	High	31	35	43	39	44	31	35	43	38	43
	Med-H	30	32	38	—	—	30	32	38	—	—
	Med	28	30	34	35	37	28	30	34	34	35
	Med-L	26	27	29	—	—	26	27	29	—	—
	Low	24	24	24	31	32	24	24	24	30	30
	Quiet	22	22	22	—	—	22	22	22	—	—
Net Dimensions (H × W × D)		mm 262 × 820 × 206		275 × 790 × 215			262 × 820 × 206			275 × 790 × 215	
Weight		kg(lbs) 7.5 (17)		7.5 (17)			7 (15)			7 (15)	
Connection pipe diameter		mm		mm			mm			mm	
Liquid (Flare)		6.35		6.35			6.35			6.35	
Gas (Flare)		9.52		12.70			9.52			12.70	
Drain hose diameter (I.D./O.D.)		13.8/15.8 to 16.7		13.8/15.8 to 16.7			13.8/15.8 to 16.7			13.8/15.8 to 16.7	
EV Kit (option)		—		—			UTR-EV09XB			UTR-EV14XB	

Note : Specifications are based on the following conditions.

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

When ASH\*004GTAH, ASH\*007GTAH, ASH\*009GTAH are connected to the outdoor unit other than J-III, gas pipe diameter should be Ø12.70.

Wall Mounted

NEW



Model name		ASHA18GBCH	ASHA24GBCH	ASHA30GTAH	ASHA34GTAH
Power source		Single-phase, ~230V, 50Hz			
Capacity	Cooling	5.6	7.1	9.0	10.0
	Heating	6.3	8.0	10.0	11.2
Input power		W			
Airflow rate	High	840	1,100	1,440	1,620 / 1,520
	Med-H	—	—	1,200	1,300
	Med	770	910	1,050	1,120
	Med-L	—	—	940	980
	Low	690	730	890	890
	Quiet	—	—	700	700
Sound pressure level	High	41	48	53	55 / 54
	Med-H	—	—	49	51
	Med	39	43	45	47
	Med-L	—	—	42	43
	Low	35	35	39	39
	Quiet	—	—	33	33
Net Dimensions (H × W × D)		mm 320 × 998 × 238		340 × 1,150 × 280	
Weight		kg(lbs) 15 (33)		18 (40)	
Connection pipe diameter		mm		mm	
Liquid (Flare)		6.35		9.52	
Gas (Flare)		12.70		15.88	
Drain hose diameter (I.D./O.D.)		12/16		13.8/15.8 to 16.7	

Note : Specifications are based on the following conditions.

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

When ASHA18GBCH is connected to the outdoor unit other than J-III, pipe diameter should be Ø9.52/Ø15.88 (Liq/Gas).





# 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.

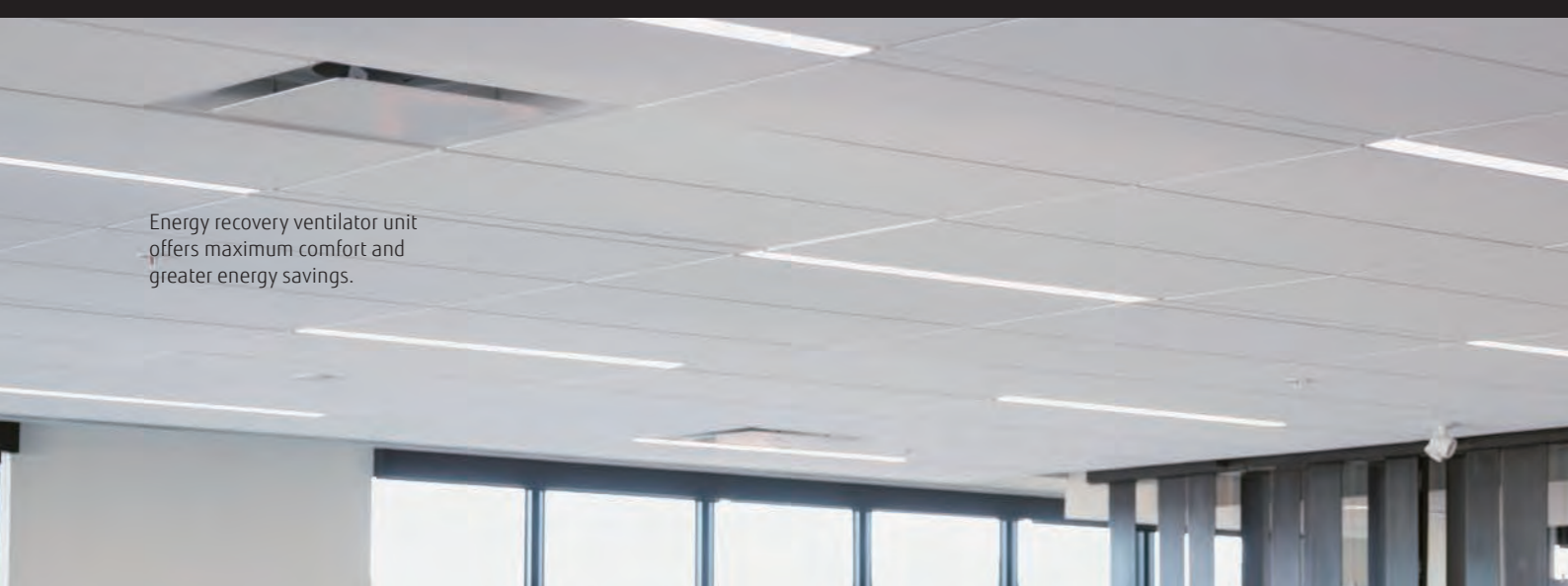
- 136 Energy Recovery Ventilator
- 138 Outdoor Air Unit
- 140 DX-Kit for Air Handling Application



### PRODUCT LINEUP

Airflow rate (m³/h)	250	350	500	800	1000	1500	2000			
Energy Recovery Ventilator Page 136	 UTZ-BD025B	 UTZ-BD035B	 UTZ-BD050B	 UTZ-BD080B	 UTZ-BD100B					
Outdoor Air Unit Page 138					 ARXH054GTAH	 ARXH072GTAH	 ARXH096GTAH			
Connectable Capacity class (kW)	5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0
DX-Kit for air handling applications Page 140	 EEV unit UTP-VX30A	 Control unit UTY-VDGX	 EEV unit UTP-VX60A	 Control unit UTY-VDGX	 EEV unit UTP-VX90A	 Control unit UTY-VDGX	 EEV unit UTP-VX90A x 2	 Control unit UTY-VDGX		

# 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.

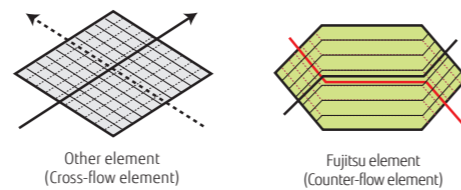
**Normal ventilation**  
The operation is used during periods when the room space requires no cooling or heating effect, i.e. when there is minimal temperature difference between the indoor and outdoor environments.

## 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 building.

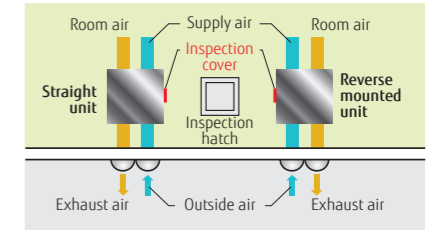
## Slim shape and easier installation

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**



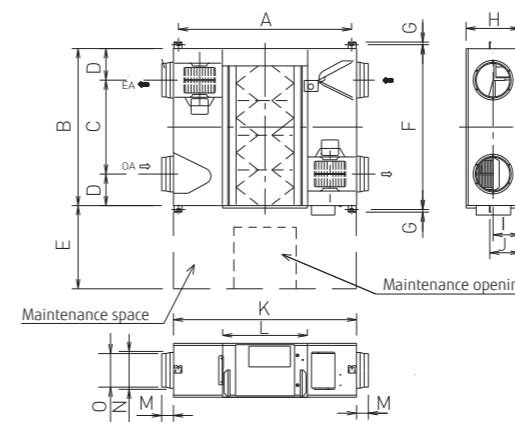
## Specifications

Rated flow rate		250 m <sup>3</sup> /h		350 m <sup>3</sup> /h		500 m <sup>3</sup> /h		800 m <sup>3</sup> /h		1000 m <sup>3</sup> /h	
Model No.		UTZ-BD025B		UTZ-BD035B		UTZ-BD050B		UTZ-BD080B		UTZ-BD100B	
Power source		220 - 240V, 50Hz									
Heat Exchange Ventilation	Input power	(Extra high)/High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311			
	Air flow rate	(Extra high)/High/Low	m <sup>3</sup> /h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1000 / 1000 / 700			
	External static pressure	(Extra high)/High/Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75			
	Temperature Exchange Efficiency	(Extra high)/High/Low	%	75 / 75 / 77	75 / 75 / 78	75 / 75 / 76	75 / 75 / 76	75 / 75 / 79			
	Energy Exchange Efficiency Cooling	(Extra high)/High/Low	%	63 / 63 / 65	66 / 66 / 71	62 / 62 / 64	65 / 65 / 68	65 / 65 / 70			
Normal Ventilation	Energy Exchange Efficiency Heat pump	(Extra high)/High/Low	%	70 / 70 / 72	69 / 69 / 73	67 / 67 / 69	71 / 71 / 74	71 / 71 / 76			
	Sound pressure level	(Extra high)/High/Low	dB*	31.5 / 30.5 / 26.5	33 / 31 / 25.5	37.5 / 35.5 / 32.5	37.5 / 37 / 34.5	38.5 / 37.5 / 34.5			
	Input power	(Extra high)/High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311			
	Air flow rate	(Extra high)/High/Low	m <sup>3</sup> /h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1000 / 1000 / 700			
	External static pressure	(Extra high)/High/Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75			
Sound pressure level	(Extra high)/High/Low	dB*	31.5 / 30.5 / 26.5	33 / 31 / 25.5	38.5 / 38 / 32.5	37.5 / 37 / 34.5	40.5 / 39.5 / 36.5				
Dimensions	W×D×H	mm	882 x 599 x 270	1050 x 804 x 317	1090 x 804 x 317	1322 x 884 x 388	1322 x 1134 x 388				
Weight		kg	29	49	57	71	83				
Outlet duct diameter		mm	150	150	200	250	250				
Operation range		°C	-10 to 40	-10 to 40	-10 to 40	-10 to 40	-10 to 40				
Maximum humidity		%	85	85	85	85	85				

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

## Dimensions

(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

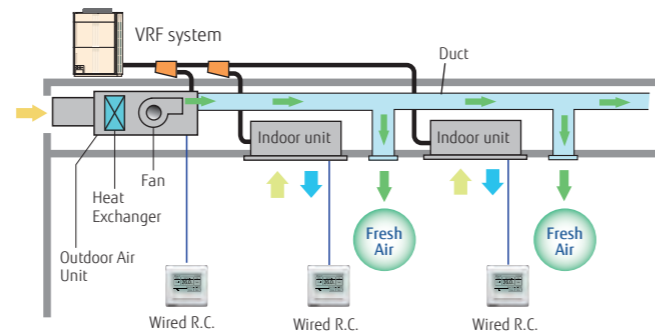
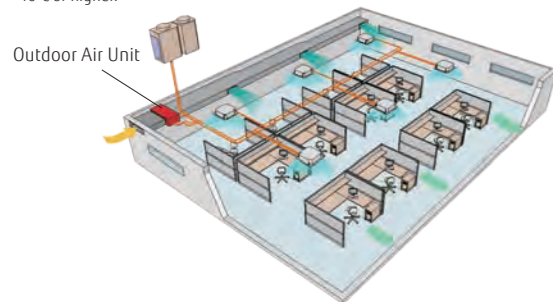
The heat pump method efficiently processes the outdoor air for cooling and heating and supplies 100% fresh air into a room.

## 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.

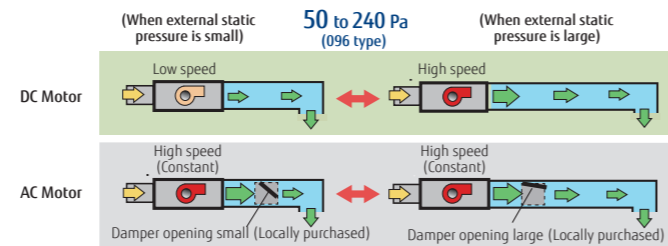
\*1. Connectable VRF series: J-IIS, J-II, VR-II  
In J-II series alone, OAU is prohibit to connect under the ambient temperature of 40°C or higher.



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

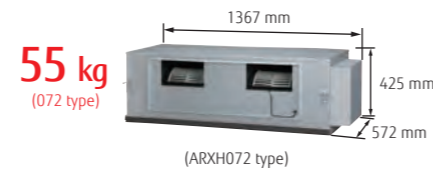
High energy savings and flexible duct design by using DC motor

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



Top class compact design

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



## 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	14.0	22.4	28.0
Input Power	Heating	kW	8.9	13.9	17.4
	Cooling/Heating	W	179	292	370
Airflow Rate		m <sup>3</sup> /h	1,080	1,680	2,100
Static Pressure	Standard (range)	Pa	185 (50-185)	200 (50-200)	200 (50-240)
	Sound Pressure Level	dB (A)	42	44	47
Dimensions (H x W x D)		mm	425×1,367×572	425×1,367×572	450×1,583×700
Weight		kg	48	55	71
	Connection Pipe Diameter (Small / Large)	mm	Ø9.52/Ø19.05	Ø12.70/Ø22.22	Ø12.70/Ø22.22
Operation Range	Cooling	°CDB	5 to 43	5 to 43	5 to 43
	Heating	°CDB	-7 to 21	-7 to 21	-7 to 21
Refrigerant			R410A	R410A	R410A

Note : Specifications are based on the following conditions.

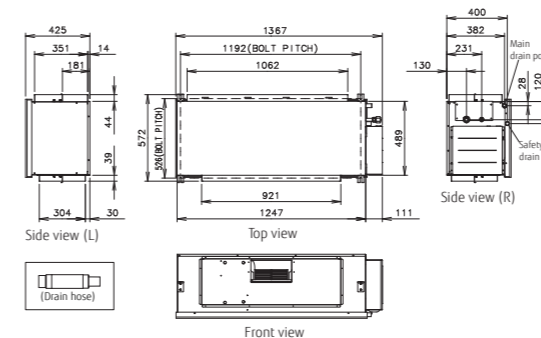
Cooling : Outdoor temperature of 33°CDB / 28°CWB.  
Heating : Outdoor temperature of 0°CDB / -2.9°CWB.

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

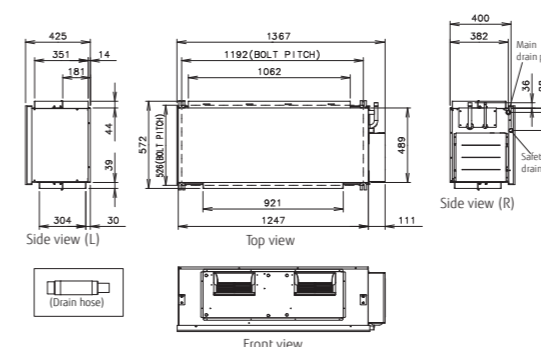
## Dimensions

(Unit : mm)

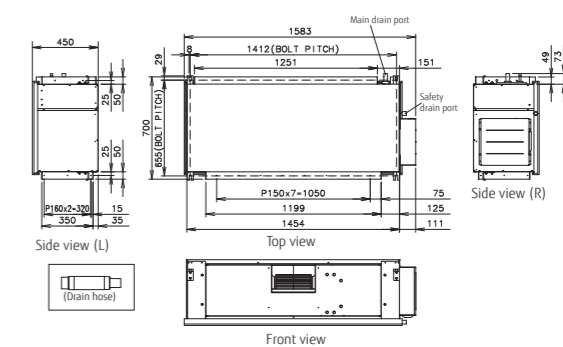
### ARXH054GTAH



### ARXH072GTAH



### ARXH096GTAH

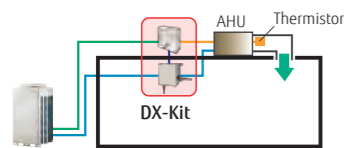


# DX-Kit for Air Handling Applications

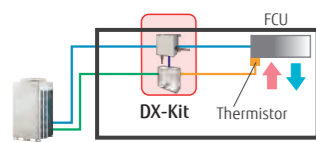
These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or, be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).

## Features

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

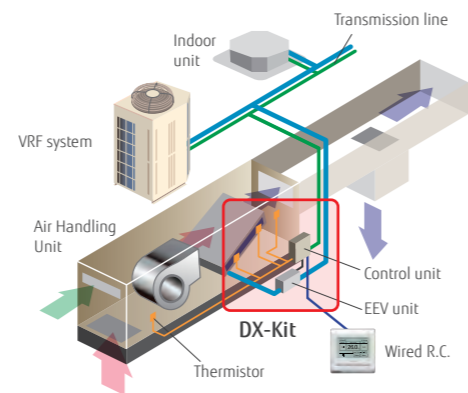


When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.



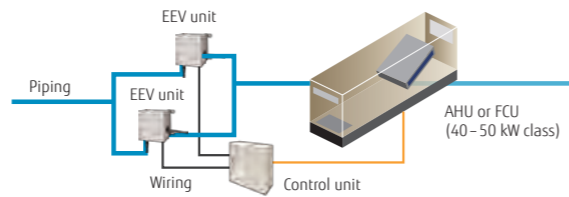
When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

### Arrangement as part of a VRF system



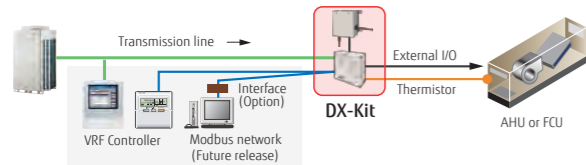
## Supports a wide range of capacity classes

- 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

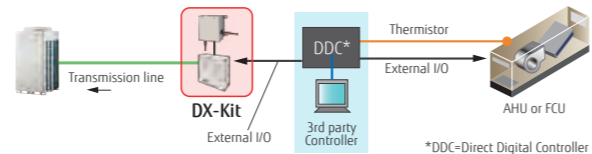


## A variety of controls to match the application

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

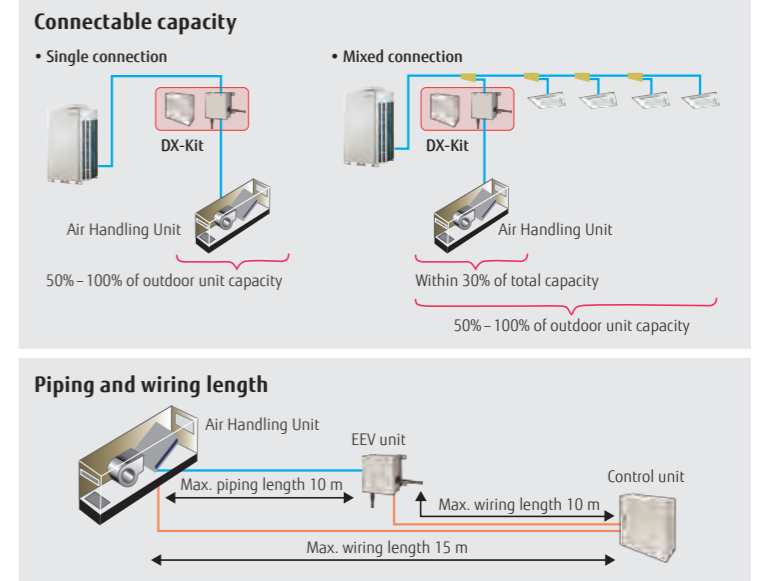
Possible to control via a MODBUS enabled BMS by using optional interface.

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

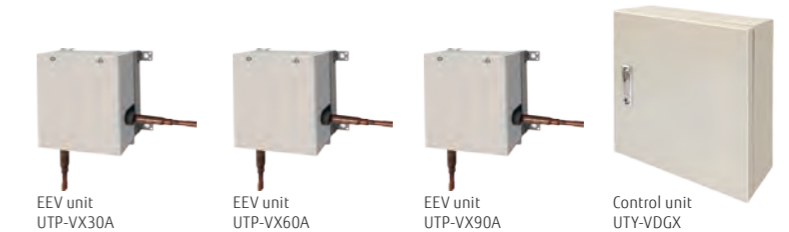


## Installation Limitation

- Connectable VRF series: All VRF series
- 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.



### 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	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									
EEV unit		UTP-VX30A		UTP-VX60A		UTP-VX90A		UTP-VX90A×2			
Connection pipe diameter (Liquid)	mm	Ø9.53		Ø12.7		Ø12.7		Ø12.7			
Dimensions (H × W × D)	mm	160 × 220 × 90									

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].



# LARGE VRF Optional Parts List/Function List



## Controllers/Others

Type	Indoor unit																		
	Cassette						Duct				Floor		Wall Mounted						
	4-way Compact	4-way		Circular Flow		Mini (With drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure	—	EEV external	Ceiling/Floor	Ceiling	—	EEV external	—			
	AUXB 04GBLH, AUXB 0709/12/14/18/24 GALH	AUXD 18/24 GALH	AUXA 18/24/30/34/36/45/54GALH	AUXM 018/024/030/034/036/045/054GLAH	AUXK 018/024/030/034/036/045/054GLAH	ARXK 04/07/09/12/14/18/24GCLH	ARXD 04/07/09/12/14/18/24GALH	ARXA 24/30/36/45GCLH	ARXC36 GBTH, ARXC45/60 GATH	ARXC72/90GBTH, ARXC96 GATH	AGHA 004/007/009/012/014GCAH	AGHE 004/007/009/012/014GCAH	ABHA 12/14/18/24GATH	ABHA 30/36/45/54GATH	ASHA 004/007/009 GTAH	ASHE 004/007/009 GTAH	ASHA 012/014 GACH	ASHA 012/014 GACH	ASHA 18/24 GBCH
Wired Remote Controller	● UTY-RNRGZ2																		
Simple Remote Controller	● UTY-RLRG																		
Wireless Remote Controller	● UTY-RSRG, UTY-RHRG, UTY-RSKG, UTY-RHKG																		
Group Remote Controller	● UTY-LNHG																		
Central Remote Controller	● UTY-CGGG + UTY-VGGXZ1																		
Touch Panel Controller	● UTY-DCGG																		
System Controller, System Controller Lite	● UTY-DTGGZ1																		
System Controller, System Controller Lite	● UTY-APGXZ1, UTY-ALGXZ1																		
IR Receiver Unit	● UTY-LRHGB1	● UTY-LBHGD	● UTB-YWC																
Human Sensor Kit	● UTY-SHZXC																		
Remote Sensor Unit	● UTY-XSZX																		
Cassette Grille	● UTG-UKGC-W ● UTG-UKGA-B																		
Auto Louver Grille Kit	● UTD-GXTA-W, UTD-GXTB-W (18), UTD-GXTC-W (24)																		
Long Life Filter	● UTD-LF25NA ● UTD-LF60KA																		
Flange	● UTD-SF045T UTD-RF204 ● UTR-RF204																		
Drain Pump Unit	● UTZ-PXTNBA ● UTR-DPB24T																		
Wide Panel	● UTG-AKXA-W ● UTG-AGYA-W ● UTG-AKXA-W																		
Panel Spacer	● UTG-BKXA-W ● UTG-BGYA-W ● UTG-BKXA-W																		
Fresh Air Intake Kit*1	● UTZ-VXAA ● UTZ-VXRA ● UTZ-VXRA																		
Air Outlet Shutter Plate	● UTR-YDZB ● UTR-YDZK ● UTR-YDZK																		
Insulation for High Humidity	● UTZ-KXGC ● UTZ-KXRA ● UTZ-KXRA ● UTZ-KXRA																		
Half Concealed Kit	● UTR-STA																		

\*1: Not applicable for VRF V-III tropical series

## Interface

Type	Indoor unit																		
	Cassette						Duct				Floor		Wall Mounted						
	4-way Compact	4-way		Circular Flow		Mini (With drain pump)	Slim (With drain pump)	Medium Static Pressure	High Static Pressure	—	EEV external	Ceiling/Floor	Ceiling	—	EEV external	—			
	AUXB 04GBLH, AUXB 0709/12/14/18/24 GALH	AUXD 18/24 GALH	AUXA 18/24/30/34/36/45/54GALH	AUXM 018/024/030/034/036/045/054GLAH	AUXK 018/024/030/034/036/045/054GLAH	ARXK 04/07/09/12/14/18/24GCLH	ARXD 04/07/09/12/14/18/24GALH	ARXA 24/30/36/45GCLH	ARXC36 GBTH, ARXC45/60 GATH	ARXC72/90GBTH, ARXC96 GATH	AGHA 004/007/009/012/014GCAH	AGHE 004/007/009/012/014GCAH	ABHA 12/14/18/24GATH	ABHA 30/36/45/54GATH	ASHA 004/007/009 GTAH	ASHE 004/007/009 GTAH	ASHA 12/14 GACH	ASHA 12/14 GACH	ASHA 18/24 GBCH
Wireless LAN Interface	● UTY-TFSXZ1																		
KNX Converter	● UTY-VKXSX UTY-VKGSX ● UTY-VKXSX UTY-VKGSX ● UTY-VKXSX UTY-VKGSX ● UTY-VKXSX UTY-VKGSX ● UTY-VKXSX UTY-VKGSX ● UTY-VKXSX UTY-VKGSX ● UTY-VKXSX UTY-VKGSX																		
KNX Interface	● FJ-RC-KNX-1i ● FJ-RC-KNX-1i ● FJ-RC-KNX-1i ● FJ-RC-KNX-1i ● FJ-RC-KNX-1i ● FJ-RC-KNX-1i																		
MODBUS Converter	● UTY-VMSX UTY-VMSGX ● UTY-VMSX UTY-VMSGX ● UTY-VMSX UTY-VMSGX ● UTY-VMSX UTY-VMSGX ● UTY-VMSX UTY-VMSGX ● UTY-VMSX UTY-VMSGX ● UTY-VMSX UTY-VMSGX																		
MODBUS Interface	● FJ-RC-MBS-1 ● FJ-RC-MBS-1 ● FJ-RC-MBS-1 ● FJ-RC-MBS-1 ● FJ-RC-MBS-1 ● FJ-RC-MBS-1																		
External Switch Controller	● UTY-TERX																		

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

Type	Indoor unit						Outdoor unit				Controller		Other
	4-way Compact, 4-way, Circular Flow	Mini (With drain pump), Slim (With drain pump), Medium Static Pressure, High Static Pressure	Floor, Floor EEV external	Ceiling/Floor	Ceiling	Wall Mounted, Wall Mounted EEV external	VR-II	V-III	V-III Tropical	V-II	Central Remote Controller	Touch Panel Controller	RB Unit
Operation / Stop	● UTY-XWZXZD ○ UTY-XWZXZB												
All On / All Off													● UTY-XWZXZ7 ○ UTY-XWZXZ8 ●*2 ○*2
Batch Stop	● UTY-XWZXZ6												
Forced Stop	● UTY-XWZXZD ○ UTY-XWZXZB												
Emergency Stop	● UTY-XWZXZD ○ UTY-XWZXZB												● UTY-XWZXZ7 ○ UTY-XWZXZ8 ●*2 ○*2
Forced Thermostat off	● UTY-XWZXZE ○ UTY-XWZXZ7												
Low Noise Mode Operation	● UTY-XWZXZ6												
Cooling/ Heating Priority	● UTY-XWZXZ6												● UTY-XWZXZ6 ○ UTY-XWZXZB
Outdoor Unit Operation Peak Control	● UTY-XWZXZ6												
Power Usage Information from Electricity Meter	● UTY-XWZXZF												●*2 ○*2
Operation Status	● UTY-XWZXZC												○ UTY-XWZXZ6 ○ UTY-XWZXZA
Error Status	● UTY-XWZXZC												○ UTY-XWZXZ6 ○ UTY-XWZXZA
Indoor Unit Fun Operation Status	● UTY-XWZXZC												
Auxiliary Heater Output	● UTY-XWZXZC												
Base Heater	● UTY-XWZXZ9												

\*2: 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

# Others



## Communication system

**External Connect Kit**

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

## For LARGE VRF

**Separation Tube**

<p>UTP-AX054A</p> <p>Gas Pipe </p> <p>Liquid Pipe </p>	<p>UTP-AX090A</p> <p>Gas Pipe </p> <p>Liquid Pipe </p>	<p>UTP-AX180A</p> <p>Gas Pipe </p> <p>Liquid Pipe </p>	<p>UTP-AX567A</p> <p>Gas Pipe </p> <p>Liquid Pipe </p>
<p>UTP-BX090A</p> <p>Suction Gas Pipe </p> <p>Discharge Gas Pipe </p> <p>Liquid Pipe </p>	<p>UTP-BX180A</p> <p>Suction Gas Pipe </p> <p>Discharge Gas Pipe </p> <p>Liquid Pipe </p>	<p>UTP-BX567A</p> <p>Suction Gas Pipe </p> <p>Discharge Gas Pipe </p> <p>Liquid Pipe </p>	<p>UTP-LX180A</p> <p><b>For DX-Kit</b></p>

**Header**

<p>UTR-H0906L / UTR-H1806L</p> <p>Gas Pipe </p> <p>Liquid Pipe </p>	<p>UTR-H0908L / UTR-H1808L</p> <p>Gas Pipe </p> <p>Liquid Pipe </p>	<p>UTR-J0906A / UTR-J1806A</p> <p>Suction Gas Pipe </p> <p>Discharge Gas Pipe </p> <p>Liquid Pipe </p>	<p>UTP-J0908A / UTP-J1808A</p> <p>Suction Gas Pipe </p> <p>Discharge Gas Pipe </p> <p>Liquid Pipe </p>
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## For LARGE VRF

**Outdoor Unit Branch Kit**

<p>UTP-CX567A</p> <p>Gas Pipe </p> <p>Liquid Pipe </p>	<p>UTP-DX567A</p> <p>Suction Gas Pipe </p> <p>Discharge Gas Pipe </p> <p>Liquid Pipe </p>	
<p><b>EV Kit</b></p> <p>Model code <math>\leq 09</math> : UTR-EV09XB Model code <math>\geq 12</math> : UTR-EV14XB <b>For Compact Wall Mounted type</b></p>	<p><b>RB Unit</b></p> <p>UTP-RX01AH / UTP-RX01BH / UTP-RX01CH Single type</p>	<p>UTP-RX04BH Multi type</p>

## 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
Model name	UTP-BX090A	UTP-BX180A	UTP-BX567A	
Total cooling capacity of indoor unit (kW)	28.0 or less	28.1 to 56.0	56.1 or more	

### Header

Model name	3-6 Branches	UTR-H0906L	UTR-H1806L
	3-8 Branches	UTR-H0908L	UTR-H1808L
Total cooling capacity of indoor unit (kW)	28.0 or less		28.1 to 56.0
Model name	3-6 Branches	UTP-J0906A	UTP-J1806A
	3-8 Branches	UTP-J0908A	UTP-J1808A
Total cooling capacity of indoor unit (kW)	28.0 or less		28.1 to 56.0

### Outdoor unit Branch kit

Model name	UTP-CX567A (for V-II/V-III/V-III Tropical)		UTP-DX567A (for VR-II)	
Number of outdoor unit	2 outdoor units			1
	3 outdoor units			2

### EV Kit

Model name	UTR-EV09XB		UTR-EV14XB	
Application model	ASHE004GTAH ASHE007GTAH ASHE009GTAH	AGHE004GCAH AGHE007GCAH AGHE009GCAH	ASHE12GACH ASHE14GACH	AGHE012GCAH AGHE014GCAH

### RB Unit

Type	Single type			Multi type
Model name	UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH
Power source	V/Ø/Hz 230/ 1 / 50			
Input power	W 17 24 31 96			
Number of branches	1 1 1 4			
Maximum capacity of connectable indoor units (Q)	kW Q ≤ 8.0 Q ≤ 18.0 Q ≤ 28.0 Q ≤ 56.1*1			
Maximum capacity of connectable indoor units per branch (Q)	kW Q ≤ 8.0 Q ≤ 18.0 Q ≤ 28.0 Q ≤ 18.0			
Maximum number of connectable indoor units per branch	3 8 8 8			
Dimensions (H×W×D)	mm 198×298×268			260×658×428

\*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.





# RESIDENTIAL

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- 192 Multi Combination Table



## OPTIONAL PARTS

- 212 Optional Parts List/Function List



## RESIDENTIAL SOLUTIONS



## HOUSING

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.



# HOUSING

Fujitsu General provides the products that match spaces and the rhythm of life from living rooms where the whole family relaxes to small rooms such as bedrooms and children's rooms.

## Various indoor units suitable for the characteristics of each room



**1 For Large Living Rooms**  
Comfortable in every corner even in large living rooms and unusually shaped rooms



**2 Good Design Model**  
High performance and low noise model with an emphasis on its design



**3 Easy Installation**  
Installation with an emphasis on the interior is possible without overly lowering the ceiling.



**4 For Small Space**  
Flexible installation is possible in bedrooms and rooms where you don't want to hang on the wall.



**5 For Bed Room or Home Office**  
High performance and compact design model for compact spaces such as bed room or home office.



## For LARGE APARTMENT

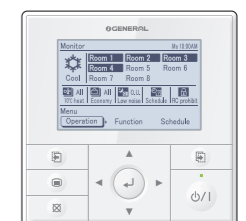
## For HOUSE



## Outdoor units suitable for residential environments



**6 5-6 Rooms Multi**  
Lineup of multi type for air conditioning from 2 rooms to 6 rooms with one outdoor unit in apartments where it is difficult to secure space for the installation of outdoor units



**7 Central Remote Controller**  
For 5-6 & 8 Rooms Multi  
Up to 8 units can be controlled with a residential home controller. Of course, individual control is also possible.



# CORE TECHNOLOGY

## High Efficiency

### Optimized Inverter Control

**i-PAM (IPM\*+PAM) inverter control**  
 i-PAM inverter control is a technology which reduces loss by adjusting the current waveform to a better sine waveform. This promotes the effective use of the input power supply to attain high performance.  
IPM\*: Intelligent Power Module

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



### All DC Inverter Technology

**ALL DC DC twin rotary compressor**  
 The high efficiency DC inverter type "2-cylinder rotary compressor" is used for our product ranges. It has achieved higher energy efficiency compared with similar compressors by optimizing the structure inside the compressor.

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

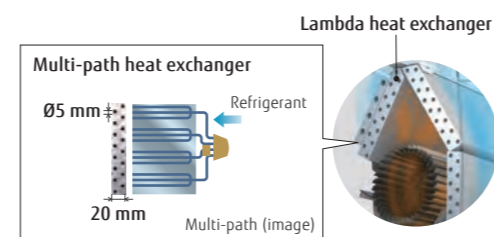
**Sine-wave DC inverter control**  
 High efficiency operation is realized by using a sine wave DC inverter control.



### High Efficiency Heat Exchanger

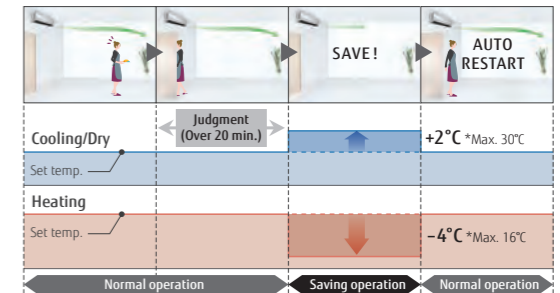
**High density multi-path heat exchanger**  
 Heat exchange performance is substantially improved by thin and high-density heat exchanger and multi-path efficiency technology.

**High performance sub-cool heat exchanger**  
 Higher performance achieved by mounting of counter type bypass circuit. (Large multi type, VRF)

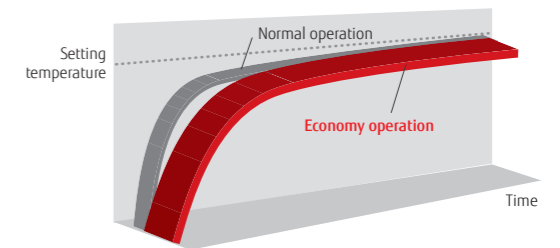


## High Energy Saving

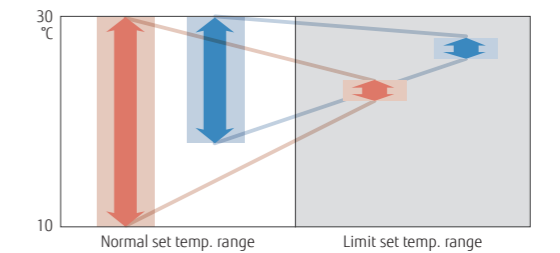
**Human sensor control**  
 Human sensor catches movements of people in a room, and operates with lower capacity when people leave the room.  
 When people come back to the room, it automatically returns to the previous operating mode.



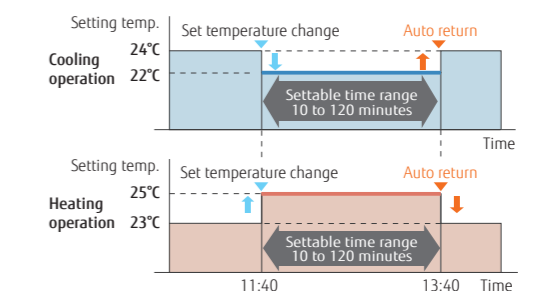
**Economy operation**  
 Limits the maximum operation current, and the power consumption is cut down and the maximum load is suppressed.



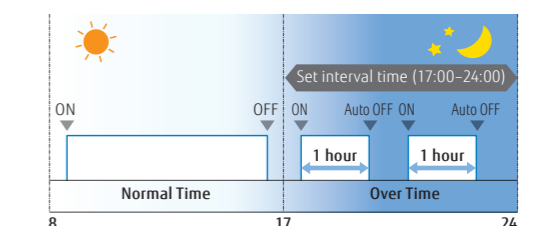
**Room temperature set point limitation**  
 The minimum and maximum temperature range can be set giving further energy saving while considering the comfort of the occupants.

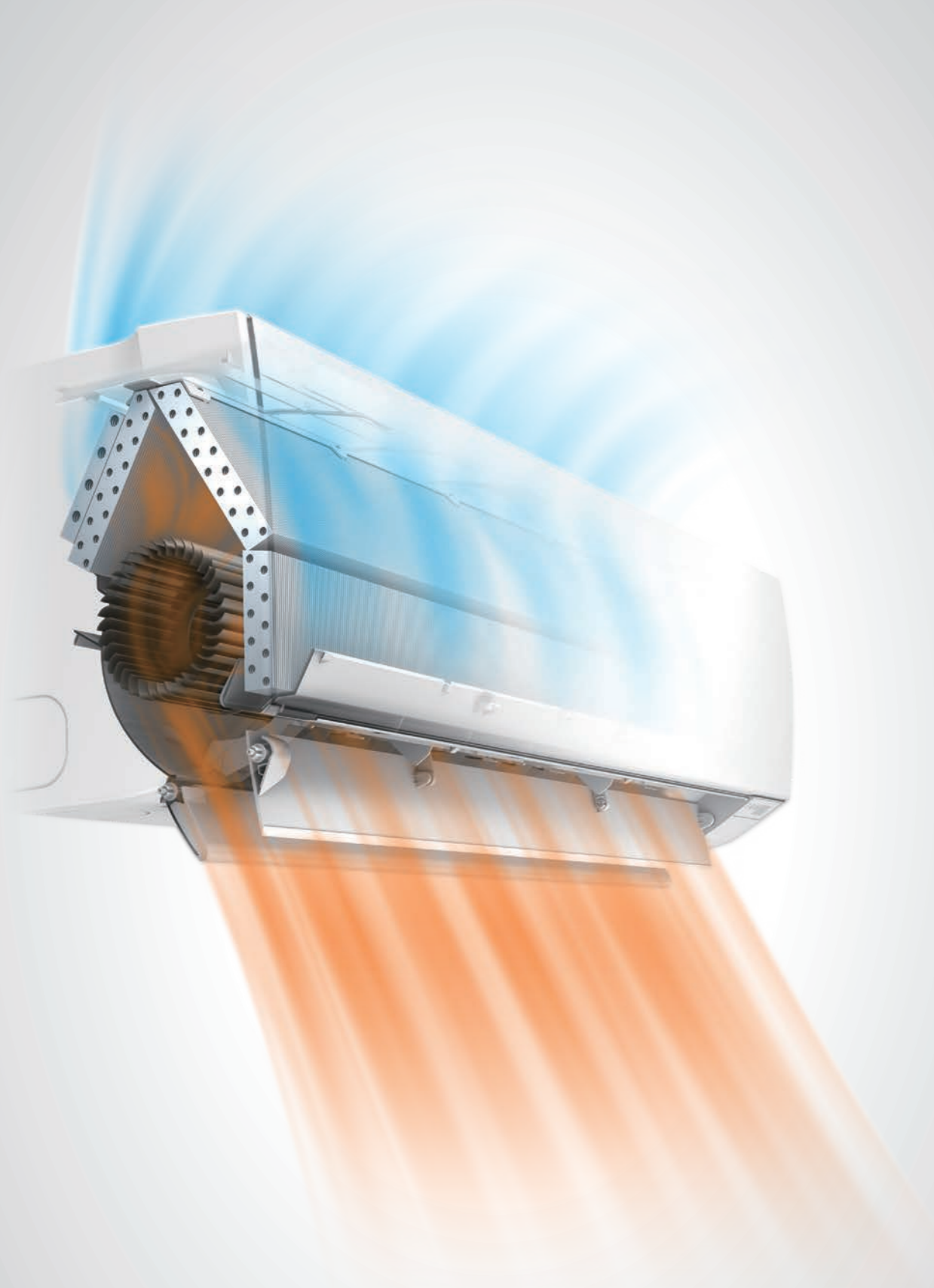


**Set temperature auto return**  
 • The setting temperature automatically returns to the previous setting temperature.  
 • The time range in which the set temperature can be changed is 10 to 120 minutes.



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





## Powerful Heating



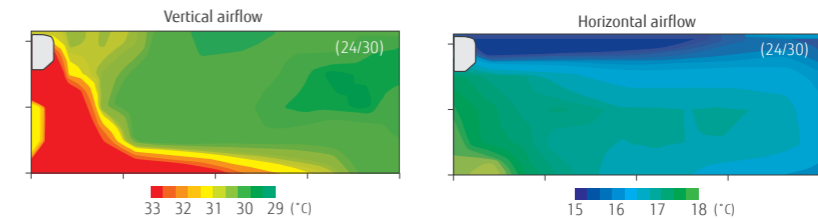
High heating capacity is realized even at low outdoor temperature by mounting a large heat exchanger or large DC rotary compressor and developing high performance inverter PCB

## Quick Comfort



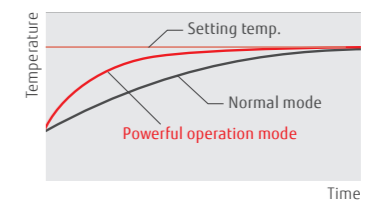
### Power diffuser

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



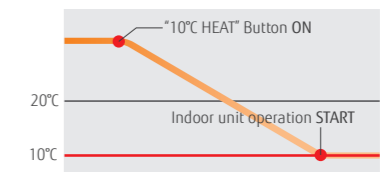
### Powerful operation

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



### 10°C Heat operation

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

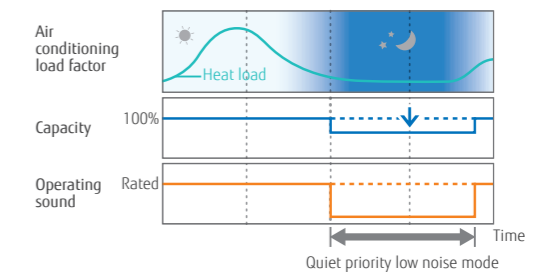


## Quiet and Comfort Control



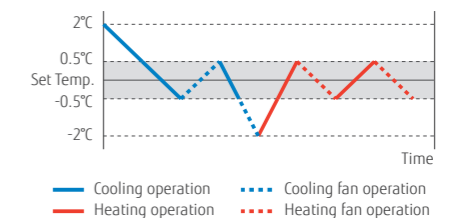
### Outdoor unit low noise operation

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



### Auto-changeover function

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





# SPLIT

For Residential



## SPLIT

- 156 PRODUCT LINEUP
- 158 Feature Explanation & Summary
- 160 Wall Mounted Flagship Range Series
- nocria X**
- 162 Wall Mounted Designer Range Series
  - High Spec & Design
  - High COP
- 168 Wall Mounted Standard Range Series
  - High Efficiency & Comfort
  - Comfort for Large Room
- 172 Wall Mounted ECO Range Series
- 174 Floor
- 176 Mini Duct
- 178 Slim Duct

# SPLIT Indoor Units



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

Type	Series	BTU						
		7	9	12	14	18	24	30
Wall Mounted	<b>NEW</b> Flagship Range Series <b>nocria X</b> Page 160		 ASHG09KXCA	 ASHG12KXCA				
	<b>NEW</b> Designer Range Series High Spec & Design Page 162	 ASHG07KGTA*	 ASHG09KGTA*	 ASHG12KGTA*	 ASHG14KGTA*			
	Designer Range Series High Spec & Design Page 164		 ASHG09LTCA	 ASHG12LTCA				
	Designer Range Series High COP Page 166	 ASHG07LUCA	 ASHG09LUCA	 ASHG12LUCA	 ASHG14LUCA			
	Standard Range Series High Efficiency & Comfort Page 168	 ASHG07LMCA	 ASHG09LMCA	 ASHG12LMCA	 ASHG14LMCA			
	Standard Range Series Comfort for Large Room Page 170					 ASHG18LFCA	 ASHG24LFCC	 ASHG30LFCA
	<b>NEW</b> ECO Range Series Compact & Comfort Page 172	 ASHG07LLCC	 ASHG09LLCC	 ASHG12LLCC				
Floor Compact & Comfort Page 174		 AGHG09LVCA	 AGHG12LVCA	 AGHG14LVCA				
Duct	<b>NEW</b> Mini Duct Page 176			 ARHG12LSLAP*	 ARHG14LSLAP*	 ARHG18LSLAP*		
	Slim Duct Page 178			 ARHG12LLTB	 ARHG14LLTB	 ARHG18LLTB		



# SPLIT and MULTI SPLIT Feature Explanation

## Energy Saving Function

- Dual side fans**  
The comfortable space can be created with Hybrid Airflow, which combines different temperatures of air current and velocities.
- Save human sensor**  
Human sensor detects the movement of people in the room and judges whether the energy saving 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.
- 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.
- Fresh air intake**  
Fresh air can be taken in by a fan which can be connected using external control unit.

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

## Clean Function

- Plasma air clean**  
The electrostatic precipitator removes dust particles such as pollens and house dust. It is washable and can be always maintained clean.
- Filter auto clean**  
The dust collected by the air filter is automatically removed. A routine disposal of the dust stored in the dust box is necessary.
- 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

- Drain pump as standard**
- Blue fin**

- ALL DC** All DC models
- i-PAM** 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** V-PAM control models  
V-PAM inverter control reduces the effects of magnetic flux and increases the maximum speed and efficiency of the compressor by vector control technology.

# SPLIT and MULTI SPLIT Feature Summary



Type	Wall Mounted							Floor	Duct	
	Flagship Range	Designer Range			Standard Range		ECO Range		Mini (With drain pump)	Slim (With drain pump)
Model No.	ASHG09/12 KXCA	ASHG07/09/12/14KGTA	ASHG09/12 LTCA	ASHG07/09/12/14LUCA	ASHG07/09/12/14LMCA	ASHG18/30 LFCA, ASHG24LFCC	ASHG07/09/12LLCC	AGHG09/12/14LVCA	ARRHG12/14/18LSLAP	ARRHG12/14/18LLTB
Energy Saving Function	Dual side fans	●								
	Save human sensor	●	●	●						
	Economy mode	●	●	●	●	●	●	●	●	●
	Room temperature set point limitation		○	○	○	○	○		○	○
	Set temperature auto return		○	○	○	○	○		○	○
Comfortable Function	Powerful heating			●						
	Power diffuser	●				●	●			
	Powerful mode	●	●	●	●	●	●			
	10°C HEAT operation	●	●	●	●	●	●	●	○	○
	Low noise mode	●	●	●	●	●	●			
	Auto-changeover	●	●	●	●	●	●	●	●	●
	Up/down swing flaps		●	●	●	●		●	○	○
	Double swing automatic	●					●			
	Automatic fan speed	●	●	●	●	●	●	●	●	●
	Auto restart	●	●	●	●	●	●	●	●	●
Convenient Function	Fresh air intake									○
	Auto off timer		○	○	○	○	○	○	●	○
	Sleep timer	●	●	●	●	●	●	●	○	○
	Program timer	●	●	●	●	●	●	●	○	○
	Weekly timer		●	●	●				●	
	Weekly + setback timer		○	○	○	○	○			●
	Filter sign		○	●	●	●	●	●	●	●
	External error output		○	○	○	○	○		○	
	External ON/OFF input		●	○	○	○	○		○	○
	Wireless LAN control	●	○	○	○	○	○		○	○
Clean Function	Plasma air clean	●								
	Filter auto clean	●								
	Ion deodorization filter		○	●	●	●	●	●		
	Apple-catechin filter		○	●	●	●	●	●		
	Washable panel					●	●	●		
Installation	Drain pump as standard								●	●
	Blue fin						(30)			

○: Optional function

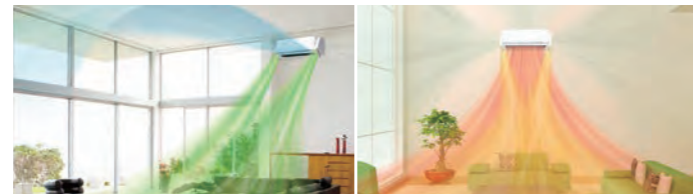


Features

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



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



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

Filter Auto Clean



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



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

Plasma Air Clean

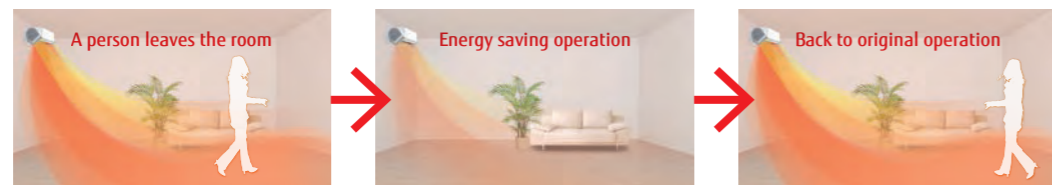
Air is cleaned with an electric dust collecting technology. Pollen, house dust and other tiny pollutants are collected and removed with static electricity.



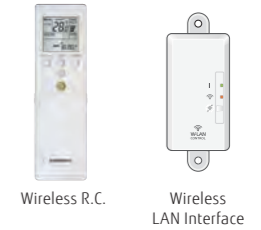
Human Sensor

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

Rank A+++ SEER 8.5<sup>\*3</sup> SCOP 5.1<sup>\*3</sup>  
 \*3: All classes



Model: ASHG09KXCA / ASHG12KXCA

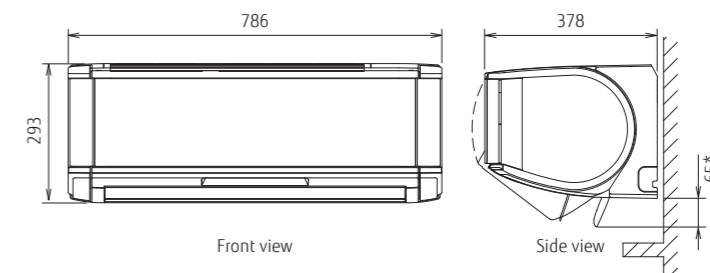


Specifications

Model No.	Indoor unit		Outdoor unit		ASHG09KXCA	ASHG12KXCA
	AOHG09KXCA		AOHG12KXCA		ASHG09KXCA	ASHG12KXCA
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW			2.5 (0.6-3.5)	3.4 (0.6-5.3)
	Heating	kW			3.6 (0.6-7.1)	5.0 (0.6-9.0)
Input Power	Cooling/Heating		kW	0.460/0.630		
EER	Cooling		W/W	5.45		
	Heating		W/W	5.72		
Pdesign	Cooling/Heating(-10°C)		kW	2.5/3.4		
	Cooling		W/W	8.50		
SEER	Cooling		W/W	8.50		
	Heating (Average)		W/W	5.10		
SCOP	Cooling		W/W	A+++		
	Heating (Average)		W/W	A+++		
Max. Operating Current	Cooling/Heating		A	8.5/14.0		
	Cooling		kWh/a	103		
Annual Energy Consumption	Cooling		kWh/a	934		
	Heating		kWh/a	961		
Moisture Removal	Cooling		l/h	1.1		
	Heating		l/h	1.2		
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	46/42/38/28			
	Indoor (Heating)	H/M/L/Q	48/43/39/30			
	Outdoor(Cooling/Heating)	High	dB(A)	40/41		
Sound Power Level	Indoor(Cooling/Heating)	High	58/62			
	Outdoor(Cooling/Heating)	High	53/57			
	Indoor / Outdoor (Cooling)	High	670/1,975			
Airflow Rate	Indoor / Outdoor (Cooling)	High	810/1,820			
	Indoor / Outdoor (Heating)	High	810/1,975			
Net Dimensions	Indoor	mm	293×786×378			
		kg(lbs)	20 (44)			
		mm	704×820×315			
H x W x D	Outdoor	mm	704×820×315			
		kg(lbs)	41 (90)			
Weight			6.35/9.52			
Connection Pipe Diameter (Liquid / Gas)			6.35/9.52			
Drain hose Diameter (I.D./O.D.)			13.8 / 15.8 to 16.7			
Max Pipe Length (Pre-Charge)			15 (15)			
Max Height Difference			10			
Operation Range	Cooling			-10 to 43		
	Heating			-15 to 24		
Refrigerant	Type (Global Warming Potential)		R32 (675)			
	Charge		kg(CO2eq-T)	1.30 (0.9)		

Dimensions

(Unit : mm)



\*Dimensions in case of air flowing downward





Features

Slim & stylish square design

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



High seasonal efficiency

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

Silent model

19dB(A)

Smartphone Control (Option)

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



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

Model: ASHG07KGTA / ASHG09KGTA / ASHG12KGTA / ASHG14KGTA



Wireless R.C.



Specifications

Model No.	Indoor unit		ASHG07KGTA	ASHG09KGTA	ASHG12KGTA	ASHG14KGTA
	Outdoor unit		AOHG07KGCA	AOHG09KGCA	AOHG12KGCA	AOHG14KGCA
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW	2.0	2.5	3.4	4.2
	Heating	kW	2.5	2.8	4.0	5.4
Input Power	Cooling/Heating		0.440/0.500	0.555/0.560	0.805/0.990	1.179/1.350
	Cooling	W/W	4.55	4.50	4.22	3.57
COP	Heating		5.00	5.00	4.04	4.00
	Cooling/Heating(-10°C)		2.00/2.30	2.50/2.40	3.40/2.50	4.20/4.00
SEER	Cooling	W/W	8.50	8.50	8.50	7.10
SCOP	Heating (Average)		5.10	5.10	5.10	4.30
Energy Efficiency Class	Cooling		A+++	A+++	A+++	A++
	Heating (Average)		A+++	A+++	A+++	A+
Max. Operating Current	Cooling/Heating		A			
Annual Energy Consumption	Cooling		kWh/a			
	Heating		kWh/a			
Moisture Removal			l/h			
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	43/ / /	43/ / /	43/ / /	43/ / /
	Indoor (Heating)	H/M/L/Q	43/ / /	43/ / /	43/ / /	43/ / /
	Outdoor(Cooling/Heating)	High	dB(A)			
Sound Power Level	Indoor(Cooling/Heating)	High	dB(A)			
	Indoor(Cooling/Heating)	High	dB(A)			
	Outdoor(Cooling/Heating)	High	dB(A)			
Airflow Rate	Indoor / Outdoor	High	m³/h			
Net Dimensions	Indoor	mm	270×834×215			
	H x W x D	kg(lbs)				
Weight	Outdoor	mm	540×799×290			
		kg(lbs)				
Connection Pipe Diameter (Liquid / Gas)			mm			
Drain hose Diameter (I.D./O.D.)			mm			
Max Pipe Length (Pre-Charge)			m			
Max Height Difference			m			
Operation Range	Cooling	°CDB	-10 to 46			
	Heating	°CDB	-15 to 24			
Refrigerant	Type (Global Warming Potential)		R32 ( )	R32 ( )	R32 ( )	R32 ( )
	Charge	kg(CO2eq-T)	0.77 (0.5)	0.77 (0.5)	0.89 (0.6)	0.94 (0.6)

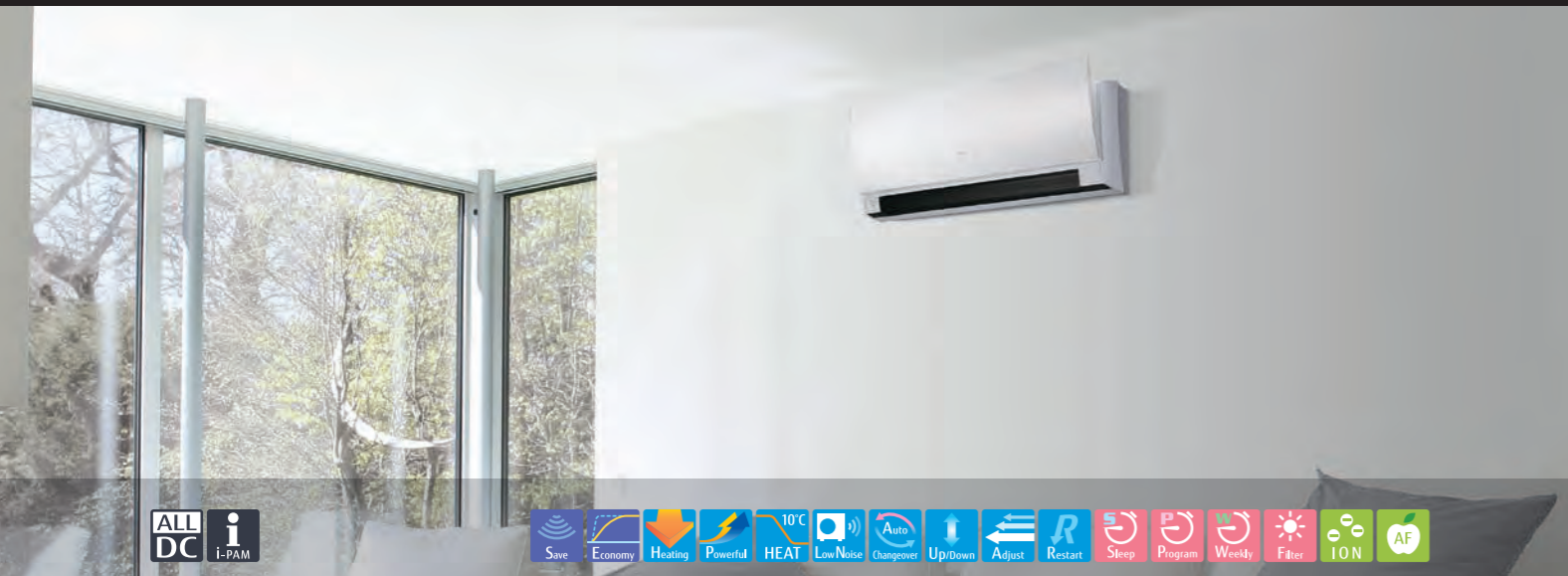
Optional parts

- Wired Remote Controller: UTY-RNRGZ2, UTY-RLRG
- Simple Remote Controller: UTY-RSNGM
- Communication kit: UTY-XCBXZ2

Dimensions

(Unit : mm)

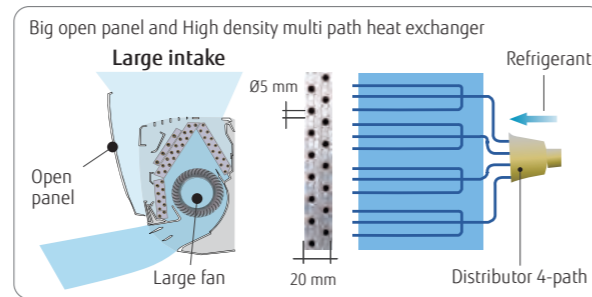
# Wall Mounted Designer Range High Spec & Design



## Features

### Thin & Slim design

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



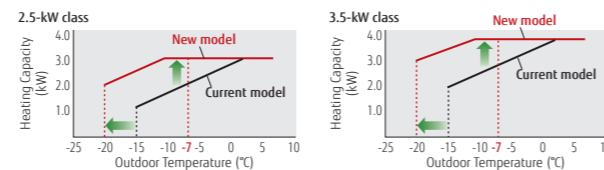
### Human sensor

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.

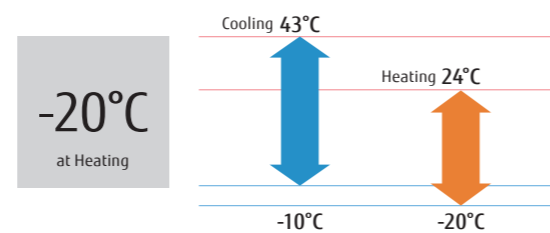


### 3 Mode timer (Weekly/Program/Sleep)

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: ASHG09LTCA / ASHG12LTCA



## Specifications

Model No.	Indoor unit		Outdoor unit		ASHG09LTCA	ASHG12LTCA
	ASHG09LTCA		ASHG12LTCA		AOHG09LTC	AOHG12LTC
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW			2.5 (0.9-3.5)	3.5 (1.1-4.0)
	Heating	kW			3.2 (0.9-5.4)	4.0 (0.9-6.5)
Input Power	Cooling/Heating		kW		0.505/0.660	0.850/0.910
EER	Cooling	W/W		4.95		4.12
	Heating	W/W		4.85		4.40
Pdesign	Cooling/Heating(-10°C)		kW		2.5/3.0	3.5/4.0
SEER	Cooling	W/W		8.50		8.50
	Heating (Average)	W/W		4.60		4.60
Energy Efficiency Class	Cooling			A+++		A+++
	Heating (Average)			A++		A++
Max. Operating Current	Cooling/Heating	A		6.5/9.0		9.0/10.5
	Cooling	kWh/a		103		144
Annual Energy Consumption	Heating	kWh/a		912		1217
	Moisture Removal	l/h		1.3		1.8
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q			42/36/32/21	43/37/32/21
	Indoor (Heating)	H/M/L/Q			42/37/32/21	43/38/32/21
Sound Power Level	Outdoor(Cooling/Heating)	High	dB(A)		48/50	48/49
	Indoor(Cooling/Heating)	High	dB(A)		59/61	60/62
Airflow Rate	Indoor / Outdoor	High	m³/h		800/1,700	850/2,050
	Net Dimensions	Indoor	mm		282×870×185	282×870×185
Weight	H x W x D	kg(lbs)			9.5 (21)	9.5 (21)
	Outdoor	kg(lbs)			33 (73)	40 (88)
Connection Pipe Diameter (Liquid / Gas)	mm				6.35/9.52	6.35/9.52
Drain hose Diameter (I.D./O.D.)	mm				13.8/15.8 to 16.7	13.8/15.8 to 16.7
Max Pipe Length (Pre-Charge)	m				20 (15)	20 (15)
Max Height Difference	m				15	15
Operation Range	Cooling	°CDB		-10 to 43		-10 to 43
	Heating	°CDB		-20 to 24		-20 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)		R410A (2,088)
	Charge	kg(CO2eq-T)		1.05 (2.2)		1.20 (2.5)

## Optional parts

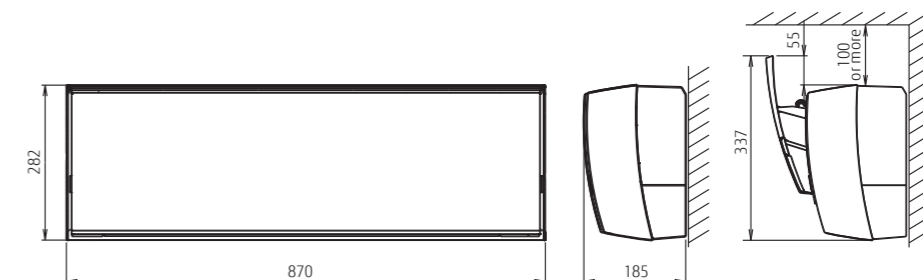
Wired Remote Controller: UTY-RNNGM / UTY-RVNGM

Simple Remote Controller: UTY-RSNGM

Communication kit: UTY-TWBXF

## Dimensions

(Unit : mm)





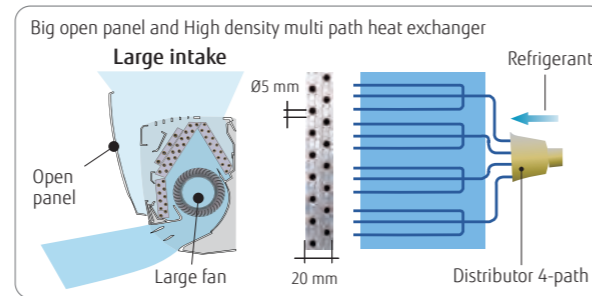
# Wall Mounted Designer Range High COP



## Features

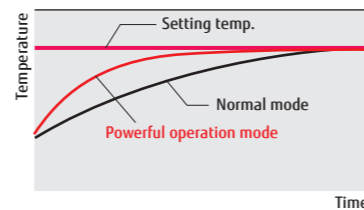
### Thin & Slim design

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



### Powerful operation

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



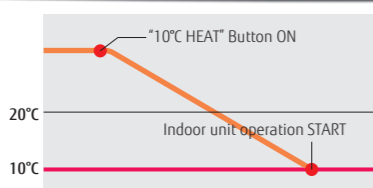
### 3 Mode timer (Weekly/Program/Sleep)

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

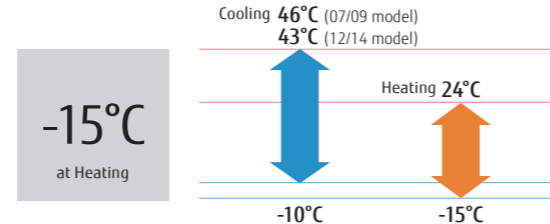


### 10°C HEAT Operation

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



### Low ambient operation



Model: ASHG07LUCA / ASHG09LUCA / ASHG12LUCA / ASHG14LUCA



## Specifications

Model No.	Indoor unit		ASHG07LUCA	ASHG09LUCA	ASHG12LUCA	ASHG14LUCA
	Outdoor unit		AOHG07LUCB	AOHG09LUCB	AOHG12LUC	AOHG14LUC
Power Source			Single-phase, ~230V, 50Hz			
Capacity	Cooling	kW	2.0 (0.5-3.0)	2.5 (0.5-3.2)	3.5 (0.9-4.0)	4.2 (0.9-5.0)
	Heating	kW	3.0 (0.5-4.0)	3.2 (0.5-4.2)	4.0 (0.9-5.6)	5.4 (0.9-6.0)
Input Power	Cooling/Heating	kW	0.460/0.740	0.555/0.680	0.905/0.930	1.235/1.380
EER	Cooling		4.35	4.50	3.87	3.40
COP	Cooling	W/W	4.05	4.71	4.30	3.91
	Heating	W/W	4.02	4.10	4.00	4.00
Pdesign	Cooling/Heating(-10°C)	kW	2.0/2.6	2.5/2.8	3.5/3.9	4.2/4.8
SEER	Cooling		7.20	7.10	7.05	6.78
SCOP	Heating (Average)		4.02	4.10	4.00	4.00
Energy Efficiency Class	Cooling		A++	A++	A++	A++
	Heating (Average)		A+	A+	A+	A+
Max. Operating Current	Cooling/Heating	A	6.0/7.5	6.0/7.5	6.5/9.0	9.0/10.5
Annual Energy Consumption	Cooling	kWh/a	97	123	174	217
	Heating	kWh/a	887	956	1363	1677
Moisture Removal		l/h	1.0	1.3	1.8	2.1
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	38/35/31/21	42/36/32/21	43/37/32/21	45/40/33/25
	Indoor (Heating)	H/M/L/Q	38/35/31/21	42/37/32/21	43/38/32/21	45/40/34/27
Sound Power Level	Outdoor(Cooling/Heating)	High	46/46	48/48	50/50	50/50
	Indoor(Cooling/Heating)	High	57/59	59/61	60/62	60/64
Airflow Rate	Indoor / Outdoor	High	680/1,720	800/1,720	850/1,940	900/1,940
	Net Dimensions	Indoor	mm	282×870×185	282×870×185	282×870×185
Weight	H x W x D	kg(lbs)	9.5 (21)	9.5 (21)	9.5 (21)	9.5 (21)
	Outdoor	kg(lbs)	540×660×290	540×660×290	540×790×290	540×790×290
Connection Pipe Diameter (Liquid / Gas)		mm	6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7
Drain hose Diameter (I.D./O.D.)		mm	13.8/15.8 to 16.7	13.8/15.8 to 16.7	13.8/15.8 to 16.7	13.8/15.8 to 16.7
Max Pipe Length (Pre-Charge)		m	20 (15)	20 (15)	20 (15)	20 (15)
Max Height Difference			15	15	15	15
Operation Range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 43	-10 to 43
	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	0.70 (1.5)	0.85 (1.8)	1.05 (2.2)	1.05 (2.2)

## Optional parts

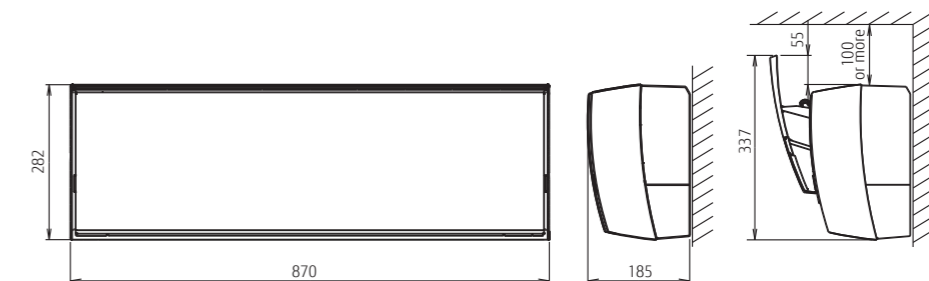
Wired Remote Controller: UTY-RNNGM, UTY-RVNGM

Simple Remote Controller: UTY-RSNGM

Communication kit: UTY-TWBXF

## Dimensions

(Unit : mm)

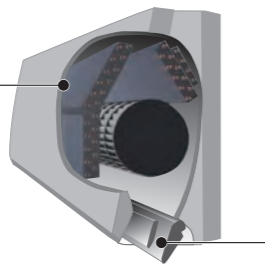
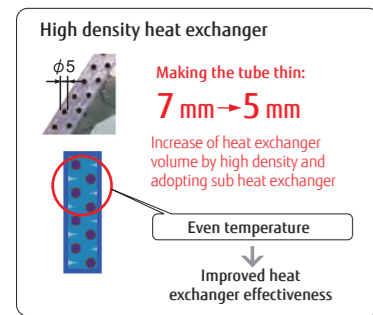


# Wall Mounted Standard Range High Efficiency & Comfort

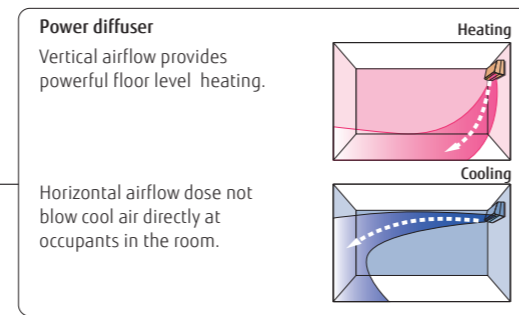


## Features

### High efficient compact design

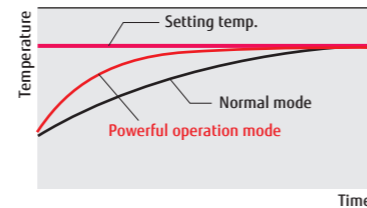


### More comfort airflow



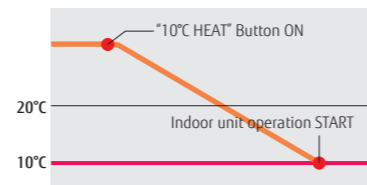
### Powerful operation

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



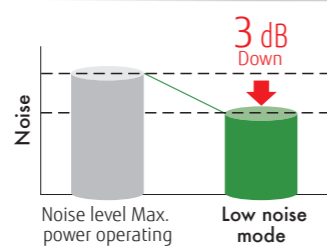
### 10°C HEAT Operation

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

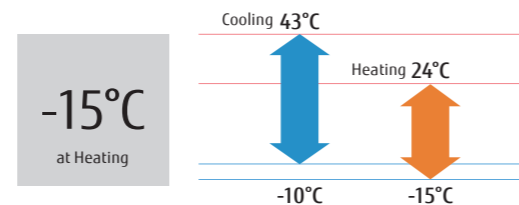


### Low noise mode for outdoor unit

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



### Low ambient operation



Model: ASHG07LMCA / ASHG09LMCA / ASHG12LMCA / ASHG14LMCA



Wireless R.C.



For ASHG07/09/12LMCA For ASHG14LMCA

## Specifications

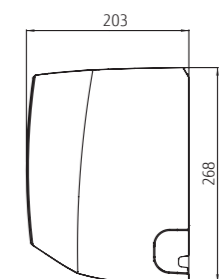
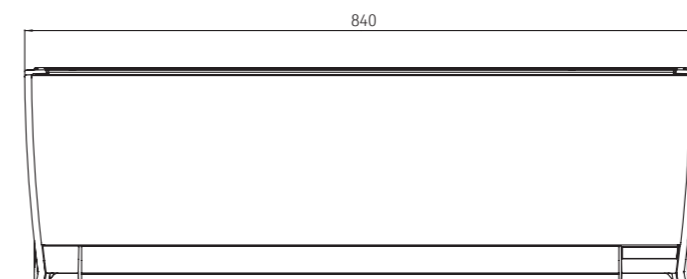
Model No.	Indoor unit		ASHG07LMCA	ASHG09LMCA	ASHG12LMCA	ASHG14LMCA
	Outdoor unit		AOHG07LMCA	AOHG09LMCA	AOHG12LMCA	AOHG14LMCA
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW	2.0 (0.5-3.0)	2.5 (0.5-3.2)	3.4 (0.9-3.9)	4.0 (0.9-4.4)
	Heating	kW	3.0 (0.5-3.4)	3.2 (0.5-4.0)	4.0 (0.9-5.3)	5.0 (0.9-6.0)
Input Power	Cooling/Heating		0.465/0.770	0.65/0.73	0.97/1.02	1.135/1.365
EER	Cooling		4.30	3.85	3.50	3.52
COP	Heating		3.90	4.38	3.92	3.66
	Cooling/Heating(-10°C)		2.0/2.3	2.5/2.4	3.4/3.5	4.0/3.9
SEER	Cooling		6.80	7.00	7.00	6.90
SCOP	Heating (Average)		4.10	4.10	4.00	4.00
	Cooling		A++	A++	A++	A++
Energy Efficiency Class	Heating (Average)		A+	A+	A+	A+
	Cooling/Heating		6.0/7.5	6.0/7.5	6.5/9.0	9.0/10.5
Max. Operating Current	Cooling		103	125	170	203
	Heating		786	820	1225	1365
Annual Energy Consumption	Cooling		1.0	1.3	1.8	2.1
	Heating		43/40/32/21	43/40/32/21	43/40/32/21	44/40/33/25
Moisture Removal	Indoor (Cooling)		H/M/L/Q	H/M/L/Q	H/M/L/Q	H/M/L/Q
	Indoor (Heating)		H/M/L/Q	H/M/L/Q	H/M/L/Q	H/M/L/Q
Sound Pressure Level	Outdoor(Cooling/Heating)		High	High	High	High
	Indoor(Cooling/Heating)		High	High	High	High
Sound Power Level	Outdoor(Cooling/Heating)		High	High	High	High
	Indoor(Cooling/Heating)		High	High	High	High
Airflow Rate	Indoor / Outdoor		High	High	High	High
	Indoor		mm	mm	mm	mm
Net Dimensions H x W x D	Indoor		kg(lbs)	kg(lbs)	kg(lbs)	kg(lbs)
	Outdoor		mm	mm	mm	mm
Weight	Indoor		kg(lbs)	kg(lbs)	kg(lbs)	kg(lbs)
	Outdoor		kg(lbs)	kg(lbs)	kg(lbs)	kg(lbs)
Connection Pipe Diameter (Liquid / Gas)			mm	mm	mm	mm
Drain hose Diameter (I.D./O.D.)			mm	mm	mm	mm
Max Pipe Length (Pre-Charge)			m	m	m	m
Max Height Difference			m	m	m	m
Operation Range	Cooling		°CDB	°CDB	°CDB	°CDB
	Heating		°CDB	°CDB	°CDB	°CDB
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	kg(CO2eq-T)	kg(CO2eq-T)	kg(CO2eq-T)

## Optional parts

- Wired Remote Controller: UTY-RNNGM, UTY-RVNGM
- Simple Remote Controller: UTY-RSNGM
- Communication kit: UTY-XCBX22

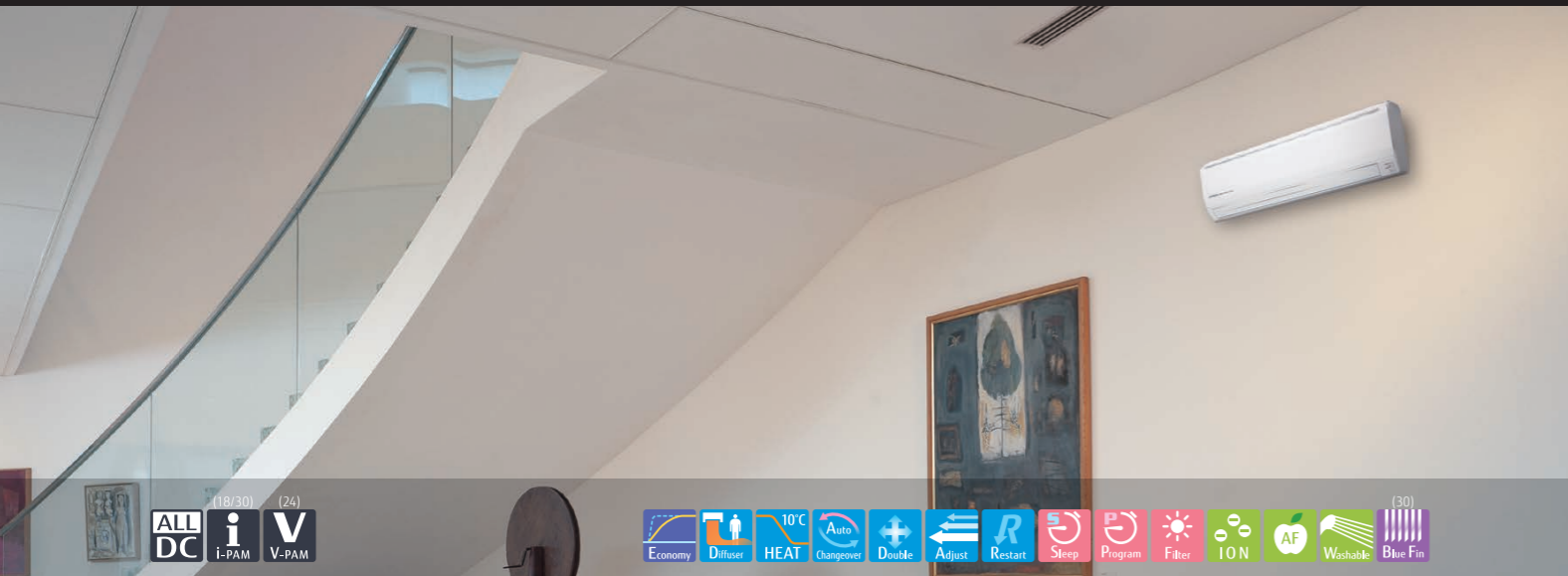
## Dimensions

(Unit : mm)



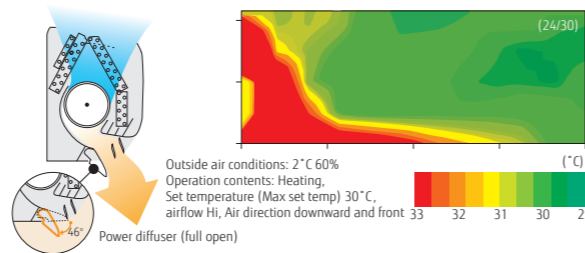


# Wall Mounted Standard Range Comfort for Large Room

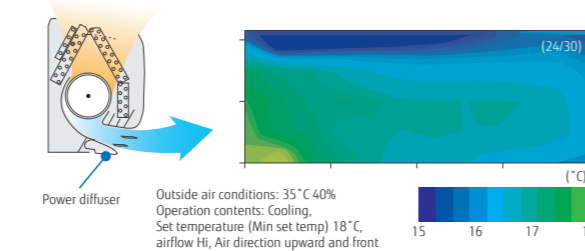


## Features

"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** 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.

**AF** Apple-catechin Filter

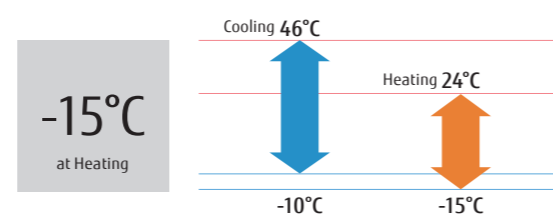
The Apple-catechin filter uses static electricity to clean fine particles and dust in the air.

Using different filters at both sides

## Flexible Installation

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

## Low ambient operation



Model: ASHG18LFCA / ASHG24LFCC / ASHG30LFCA



## Specifications

Model No.	Indoor unit		ASHG18LFCA	ASHG24LFCC	ASHG30LFCA	
	Outdoor unit		AOHG18LFC	AOHG24LFC	AOHG30LFT	
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW	5.2 (0.9-6.0)	7.1 (0.9-8.0)	8.0 (2.9-9.0)	
	Heating	kW	6.3 (0.9-9.1)	8.0 (0.9-10.6)	8.8 (2.2-11.0)	
Input Power	Cooling/Heating		1.52/1.71	2.20/2.21	2.49/2.44	
EER	Cooling	W/W	3.42	3.23	3.21	
	Heating	W/W	3.68	3.61	3.61	
Pdesign	Cooling/Heating(-10°C)		5.2/5.9	7.1/7.1	8.0/8.0	
SEER	Cooling	W/W	6.94	6.11	5.69	
	Heating (Average)	W/W	3.87	3.80	3.80	
Energy Efficiency Class	Cooling		A++	A++	A+	
	Heating (Average)		A	A	A	
Max. Operating Current	Cooling/Heating		9.0/12.5	13.5/18.5	17.0/19.0	
Annual Energy Consumption	Cooling	kWh/a	262	406	492	
	Heating	kWh/a	2130	2610	2941	
Moisture Removal			2.6	2.7	3.2	
	Indoor (Cooling)	H/M/L/Q	43/37/33/26	49/42/37/32	48/42/37/33	
Sound Pressure Level	Indoor (Heating)	H/M/L/Q	42/37/33/25	48/42/37/32	49/42/37/33	
	Outdoor(Cooling/Heating)	High	50/51	55/56	53/56	
Sound Power Level	Indoor(Cooling/Heating)	High	58/58	64/64	64/64	
	Outdoor(Cooling/Heating)	High	65/-	68/-	68/-	
Airflow Rate	Indoor / Outdoor	High	900/2150	1120/2460	1100/3600	
	H x W x D		mm	320×998×238	320×998×238	320×998×238
Net Dimensions	Indoor		kg(lbs)	14 (31)	14 (31)	
	Outdoor		mm	620×790×290	620×790×290	830×900×330
Weight	Outdoor		kg(lbs)	41 (90)	41 (90)	61 (135)
			mm	6.35/12.7	6.35/15.88	9.52/15.88
Connection Pipe Diameter (Liquid / Gas)			mm	12/16	12/16	
Drain hose Diameter (I.D./O.D.)			m	25 (15)	30 (15)	50 (20)
Max Pipe Length (Pre-Charge)			m	20	20	30
Max Height Difference			°CDB	-10 to 46	-10 to 46	-10 to 46
Operation Range	Cooling		-15 to 24	-15 to 24	-15 to 24	
	Heating		-10 to 46	-10 to 46	-10 to 46	
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	
	Charge	kg(CO2eq-T)	1.20 (2.5)	1.80 (3.8)	2.1 (4.4)	

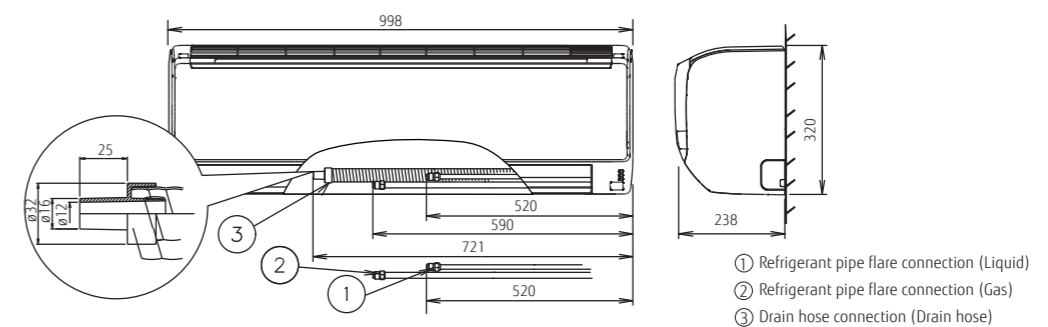
## Optional parts

Wired Remote Controller: UTY-RNNGM, UTY-RVNGM

Simple Remote Controller: UTY-RSNGM

## Dimensions

(Unit : mm)

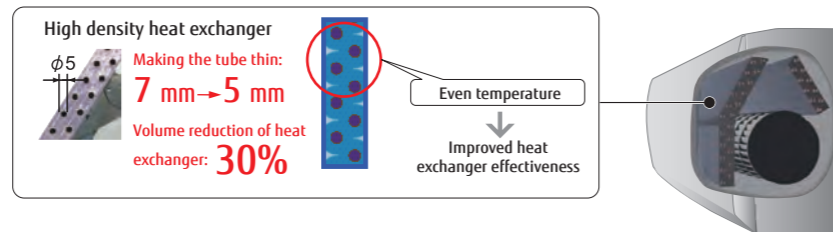


# Wall Mounted ECO Range Compact & Comfort



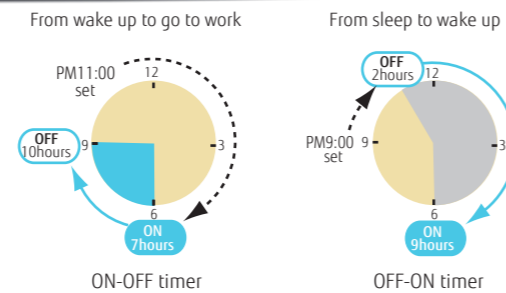
## Features

### High efficient compact design



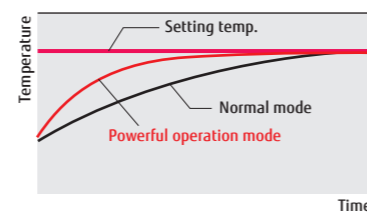
### ON-OFF Programmable timer

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



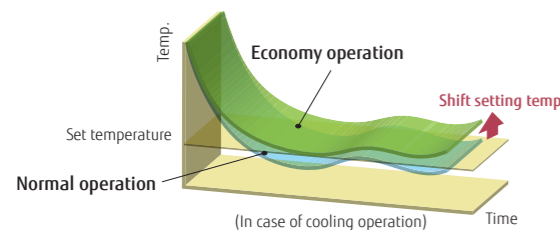
### Powerful operation

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

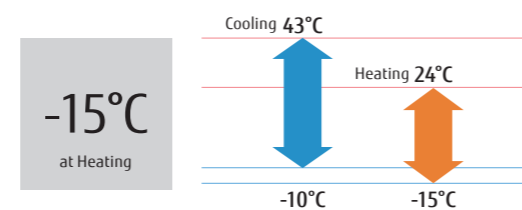


### Economy operation

Setting temp. is shifted by 1°C automatically.



### Low ambient operation



Model: ASHG07LLCC / ASHG09LLCC / ASHG12LLCC



Wireless R.C.



## Specifications

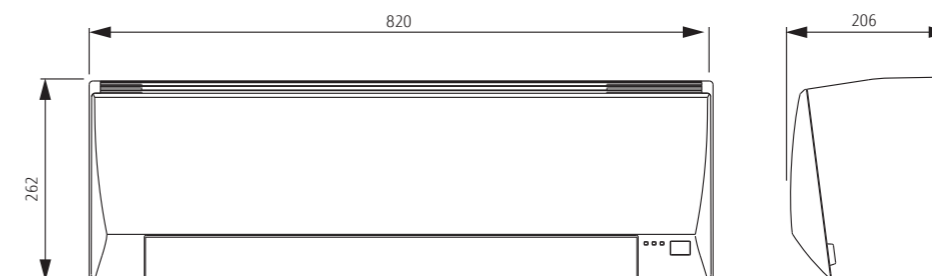
Model No.	Indoor unit		ASHG07LLCC	ASHG09LLCC	ASHG12LLCC	
	Outdoor unit		AOHG07LLCC	AOHG09LLCC	AOHG12LLCC	
Power Source	Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW	2.0 (0.9-2.8)	2.5 (0.9-3.0)	3.4 (0.9-3.8)	
	Heating	kW	2.7 (0.9-3.6)	3.0 (0.9-3.8)	4.0 (0.9-5.0)	
Input Power	Cooling/Heating		0.470/0.700	0.730/0.740	1.080/1.130	
	Cooling	W/W	4.26	3.42	3.15	
COP	Heating		3.86	4.05	3.54	
	Cooling/Heating(-10°C)	kW	2.0/2.2	2.5/2.3	3.4/3.2	
SEER	Cooling		6.70	6.90	6.60	
	Heating (Average)		4.00	4.00	3.80	
Energy Efficiency Class	Cooling		A++	A++	A++	
	Heating (Average)		A+	A+	A	
Max. Operating Current	Cooling/Heating		6.0/7.5	6.0/7.5	6.5/9.0	
	Cooling	kWh/a	104	127	180	
Annual Energy Consumption	Heating		770	805	1,179	
	Moisture Removal		l/h	1.0	1.3	1.8
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	43/38/33/22	43/38/33/22	43/38/33/22	
	Indoor (Heating)	H/M/L/Q	43/38/33/22	43/38/33/22	43/38/33/22	
Sound Power Level	Outdoor (Cooling/Heating)	High	47/48	47/48	50/51	
	Indoor (Cooling/Heating)	High	59/60	59/60	59/60	
Airflow Rate	Outdoor (Cooling/Heating)	High	61/61	61/61	65/65	
	Indoor / Outdoor	High	m³/h	720/1,670	720/1,670	720/1,830
Net Dimensions H x W x D	Indoor		mm	262×820×206	262×820×206	262×820×206
	Outdoor		kg(lbs)	7.0 (15)	7.0 (15)	7.0 (15)
Weight	Indoor		mm	535×663×293	535×663×293	535×663×293
	Outdoor		kg(lbs)	24 (53)	24 (53)	26 (57)
Connection Pipe Diameter (Liquid / Gas)			mm	6.35/9.52	6.35/9.52	6.35/9.52
Drain hose Diameter (I.D./O.D.)			mm	13.8/15.8 to 16.7	13.8/15.8 to 16.7	13.8/15.8 to 16.7
Max Pipe Length (Pre-Charge)			m	20 (15)	20 (15)	20 (15)
Max Height Difference				15	15	15
Operation Range	Cooling		°CDB	-10 to 43	-10 to 43	-10 to 43
	Heating		°CDB	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)			R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	0.65(1.4)	0.65(1.4)	0.85(1.8)

## Optional parts

Remote Controller Holder: UTZ-RXLA

## Dimensions

(Unit : mm)





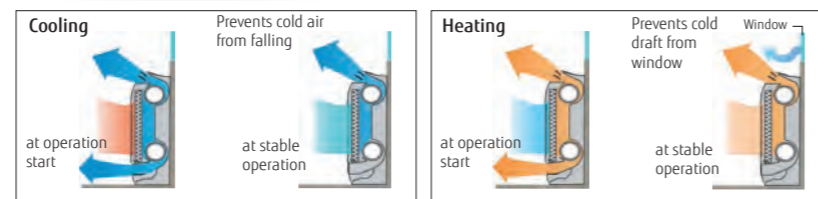
# Floor Compact & Comfort



## Features

### 2-Fan & Wide airflow

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



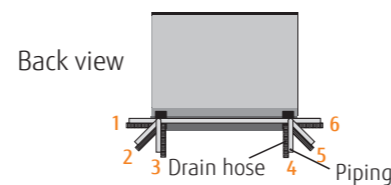
### Flexible & easy installation

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.



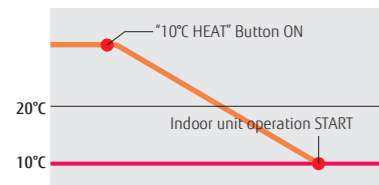
### Flexible piping connection 6 direction of drain & piping

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

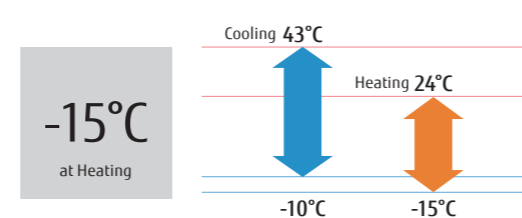


### 10°C HEAT Operation

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: AGHG09LVCA / AGHG12LVCA / AGHG14LVCA



## Specifications

Model No.	Indoor unit		AGHG09LVCA	AGHG12LVCA	AGHG14LVCA
	Outdoor unit		AOHG09LVCA	AOHG12LVCA	AOHG14LVCA
Power Source	Single-phase, ~230V, 50Hz				
Capacity	Cooling	kW	2.6 (0.9-3.5)	3.5 (0.9-4.0)	4.2 (0.9-5.0)
	Heating	kW	3.5 (0.9-5.5)	4.5 (0.9-6.6)	5.2 (0.9-8.0)
Input Power	Cooling/Heating		0.53/0.79	0.94/1.19	1.14/1.44
EER	Cooling	W/W	4.91	3.72	3.68
	Heating	W/W	4.43	3.78	3.61
Pdesign	Cooling/Heating(-10°C)		2.6/2.9	3.5/3.8	4.2/4.7
SEER	Cooling	W/W	7.00	6.50	6.40
	Heating (Average)	W/W	4.20	4.00	4.00
Energy Efficiency Class	Cooling		A++	A++	A++
	Heating (Average)		A+	A+	A+
Max. Operating Current	Cooling/Heating	A	7.0/10.0	7.0/10.0	9.0/13.5
	Cooling	kWh/a	130	188	230
Annual Energy Consumption	Heating	kWh/a	967	1330	1645
	Moisture Removal	l/h	1.3	1.8	2.1
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	40/35/29/22	40/35/29/22	44/38/31/22
	Indoor (Heating)	H/M/L/Q	40/35/29/22	40/35/29/22	43/37/29/22
	Outdoor (Cooling/Heating)	High	47/48	48/49	50/50
Sound Power Level	Indoor (Cooling/Heating)	High	55/56	55/56	58/58
	Outdoor (Cooling/Heating)	High	64/65	64/65	65/66
	Airflow Rate	Indoor / Outdoor	High	570/1680	570/1680
Net Dimensions H x W x D	Indoor	mm	600×740×200	600×740×200	600×740×200
		kg(lbs)	14 (31)	14 (31)	14 (31)
		mm	540×790×290	540×790×290	578×790×300
Weight	Outdoor	mm	36 (79)	36 (79)	40 (88)
		kg(lbs)	6.35/9.52	6.35/9.52	6.35/12.7
		mm	13.8/15.8 to 16.7	13.8/15.8 to 16.7	13.8/15.8 to 16.7
Drain hose Diameter (I.D./O.D.)			20 (15)	20 (15)	20 (15)
Max Pipe Length (Pre-Charge)			15	15	15
Max Height Difference			-10 to 43	-10 to 43	-10 to 43
Operation Range	Cooling	°CDB	-15 to 24	-15 to 24	-15 to 24
	Heating	°CDB	-10 to 43	-10 to 43	-10 to 43
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	1.05 (2.2)	1.05 (2.2)	1.15 (2.4)

## Optional parts

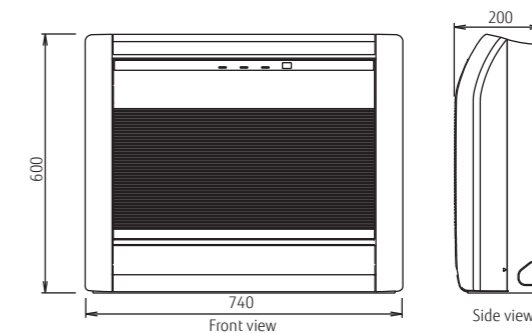
Wired Remote Controller: UTY-RNNGM, UTY-RVNGM

Simple Remote Controller: UTY-RSNGM

Half Concealed Kit: UTR-STA

## Dimensions

(Unit : mm)

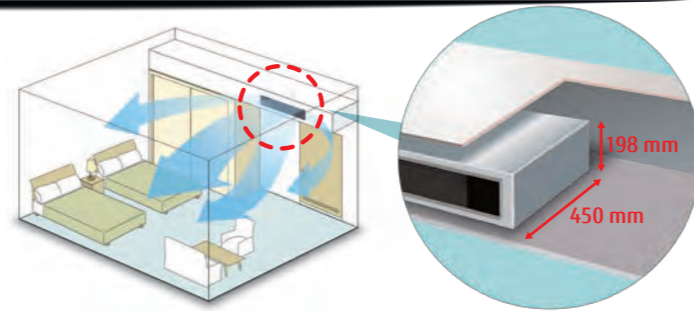




Features

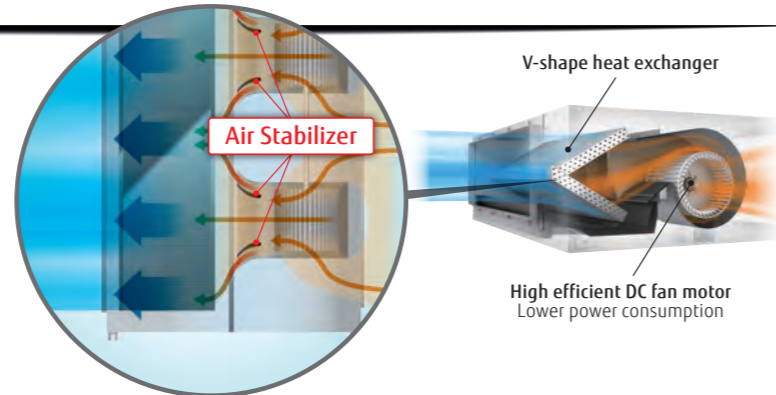
Large living space available

- Installation space can be reduced down to minimum depth 450 mm height 198 mm and compact design
- Minimum size: Depth 450 mm, Height 198 mm Volume 27% down compared with current model
- Lightweight: 15.5 kg 18% down (12/14 class)



Optimum airflow path and low noise operation

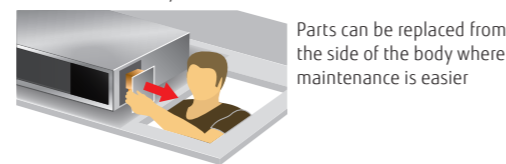
Low noise is realized drastically by stabilized airflow design



Easy design and maintenance for drain

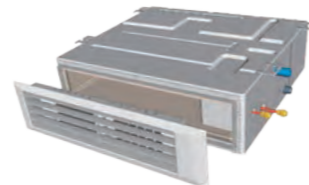
By using the DC fan motor, it is possible to change the static pressure range from 0 to 50 Pa\*. The change of static pressure range is possible by remote controller.  
\*: 0 to 30 Pa. (12)

Built-in drain pump as standard: Maintenance is easy



Auto Louver Grille Kit (Option)

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



Model : ARHG12LSLAP / ARHG14LSLAP / ARHG18LSLAP

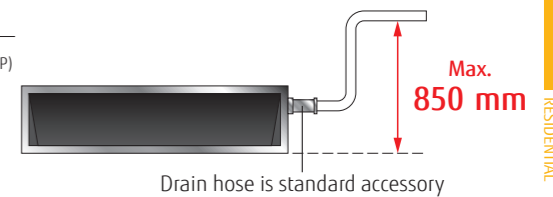


Specifications

Model No.	Indoor unit		ARHG12LSLAP	ARHG14LSLAP	ARHG18LSLAP
	Outdoor unit		AOHG12LALL	AOHG14LALL	AOHG18LALL
Power Source	Single-phase, ~230V, 50Hz				
Capacity	Cooling	kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)
	Heating	kW	4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)
Input Power	Cooling/Heating		1.03/1.15	1.34/1.49	1.62/1.77
EER	Cooling	W/W	3.40	3.21	3.21
	Heating	W/W	3.56	3.35	3.38
Pdesign	Cooling/Heating(-10°C)		3.5/4.2	4.3/4.5	5.2/5.2
SEER	Cooling	W/W	5.70	5.60	5.80
	Heating	W/W	3.90	3.80	3.80
Energy Efficiency Class	Cooling		A+	A+	A+
	Heating		A	A	A
Max. Operating Current	Cooling/Heating		7.5/10.0	9.0/12.5	9.0/12.5
Annual Energy Consumption	Cooling	kWh/a	215	269	314
	Heating	kWh/a	1505	1656	1914
Moisture Removal		l/h	1.2	1.4	1.8
	Indoor (Cooling)	H/M/L/Q	31/27/25/23	35/30/27/23	33/29/26/23
Sound Pressure Level	Indoor (Heating)	H/M/L/Q	31/27/25/23	35/30/27/23	33/29/26/23
	Outdoor(Cooling/Heating)	High	47/48	49/49	50/50
	Indoor(Cooling/Heating)	High	55/57	60/62	58/59
Sound Power Level	Outdoor(Cooling/Heating)	High	61/63	62/64	62/65
	Indoor / Outdoor	High	650/1780	800/1910	940/2000
Static pressure range (Standard)		Pa	0 - 30 (10)	0 - 50 (15)	0 - 50 (15)
		mm	198×700×450	198×700×450	198×900×450
Net Dimensions H x W x D	Indoor	kg(lbs)	15.5 (34)	15.5 (34)	18.5 (41)
	Outdoor	mm	578×790×300	578×790×300	578×790×300
Weight	Indoor	kg(lbs)	40 (88)	40 (88)	40 (88)
	Outdoor	kg(lbs)	6.35/9.52	6.35/12.70	6.35/12.70
Connection Pipe Diameter (Liquid / Gas)		mm	25/32	25/32	25/32
Drain hose Diameter (I.D./O.D.)		m	25 (15)	25 (15)	25 (15)
Max Pipe Length (Pre-Charge)		mm	15	15	15
Max Height Difference	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46
	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	1.15 (2.4)	1.25 (2.6)	1.25 (2.6)

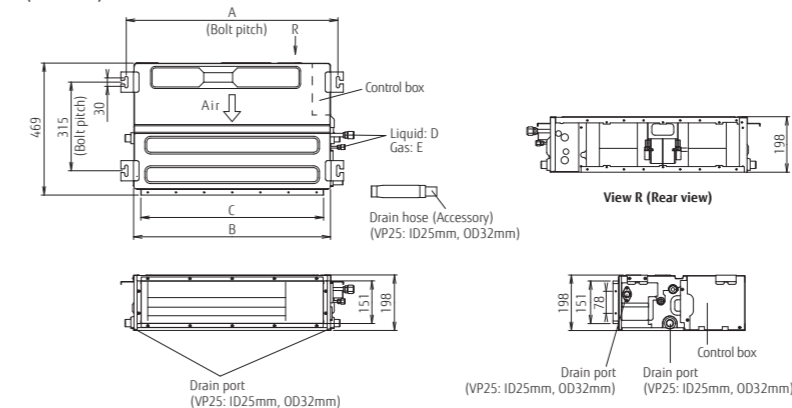
Optional parts

- Wired Remote Controller: UTY-RLRG, UTY-RNRGZ2, UTY-RVNGM Auto Louver Grille Kit: UTD-GXTA-W (ARHG12/14LSLAP)
- Simple Remote Controller: UTY-RSNGM, UTY-RSRG UTD-GXTB-W (ARHG18LSLAP)
- IR Receiver Kit: UTY-LBTGM External connect kit: UTY-XWZXZG
- Remote Sensor Unit: UTY-XSZX



Dimensions

(Unit : mm)



	ARHG12/14LSLAP	ARHG18LSLAP
A	752	952
B	700	900
C	650	850
D	6.35	9.52
E	12.7	15.88



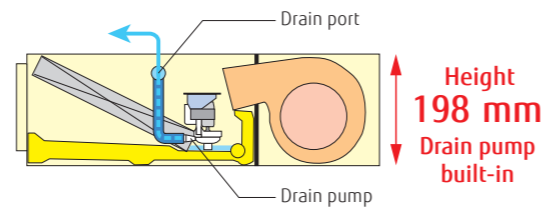
# Slim Duct Slim & Comfort



## 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.



### Selectable with a wide range of static pressure

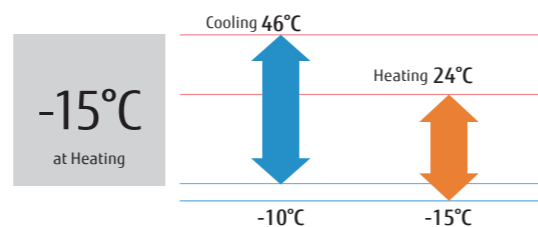
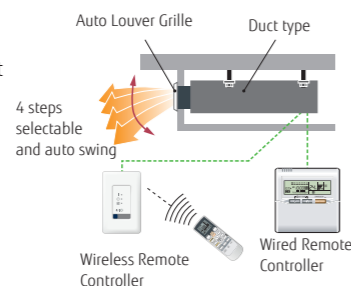
By using the DC fan motor, it is possible to change the static pressure range from 0 to 90 Pa. The change of static pressure range is possible by remote controller.



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 : ARHG12LLTB / ARHG14LLTB / ARHG18LLTB

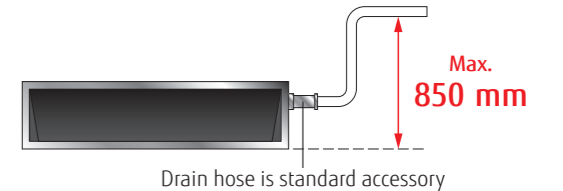


## Specifications

Model No.	Indoor unit		ARHG12LLTB	ARHG14LLTB	ARHG18LLTB
	Outdoor unit		AOHG12LALL	AOHG14LALL	AOHG18LALL
Power Source	Single-phase, ~230V, 50Hz				
Capacity	Cooling	kW	3.5 (0.9-4.4)	4.3 (0.9-5.4)	5.2 (0.9-5.9)
	Heating	kW	4.1 (0.9-5.7)	5.0 (0.9-6.5)	6.0 (0.9-7.5)
Input Power	Cooling/Heating	kW	1.05/1.11	1.33/1.34	1.62/1.66
EER	Cooling		3.33	3.21	3.21
	Heating	W/W	3.69	3.71	3.61
Pdesign	Cooling/Heating(-10°C)	kW	3.5/4.2	4.3/4.5	5.2/5.2
SEER	Cooling		5.90	5.80	6.20
	Heating	W/W	4.00	3.90	4.10
SCOP	Heating		4.00	3.90	4.10
Energy Efficiency Class	Cooling		A+	A+	A++
	Heating		A+	A	A+
Max. Operating Current	Cooling/Heating	A	7.5/10.0	9.0/12.5	9.0/12.5
Annual Energy Consumption	Cooling	kWh/a	207	259	293
	Heating	kWh/a	1467	1614	1774
Moisture Removal		l/h	1.3	1.5	2.0
Sound Pressure Level	Indoor (Cooling)	H/M/L/Q	29/28/26/25	32/30/28/26	32/30/29/27
	Indoor (Heating)	H/M/L/Q	29/28/26/24	32/30/28/25	32/30/29/27
	Outdoor(Cooling/Heating)	High	47/48	49/49	50/50
Sound Power Level	Indoor(Cooling/Heating)	High	58/58	60/60	58/58
	Outdoor(Cooling/Heating)	High	61/63	62/64	62/65
	Indoor / Outdoor	High	650/1780	800/1910	940/2000
Static pressure range (Standard)		Pa	0 to 90 (25)	0 to 90 (25)	0 to 90 (25)
		mm	198×700×620	198×700×620	198×900×620
Net Dimensions	Indoor	kg(lbs)	19 (42)	19 (42)	23 (51)
	Outdoor	mm	578×790×300	578×790×300	578×790×300
H x W x D		kg(lbs)	40 (88)	40 (88)	40 (88)
		mm	578×790×300	578×790×300	578×790×300
Weight		kg(lbs)	40 (88)	40 (88)	40 (88)
		mm	578×790×300	578×790×300	578×790×300
Connection Pipe Diameter (Liquid / Gas)		mm	6.35/9.52	6.35/12.70	6.35/12.70
Drain hose Diameter (I.D./O.D.)		mm	25/32	25/32	25/32
Max Pipe Length (Pre-Charge)		m	25 (15)	25 (15)	25 (15)
Max Height Difference			15	15	15
Operation Range	Cooling	°CDB	-10 to 46	-10 to 46	-10 to 46
	Heating	°CDB	-15 to 24	-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	1.15 (2.4)	1.25 (2.6)	1.25 (2.6)

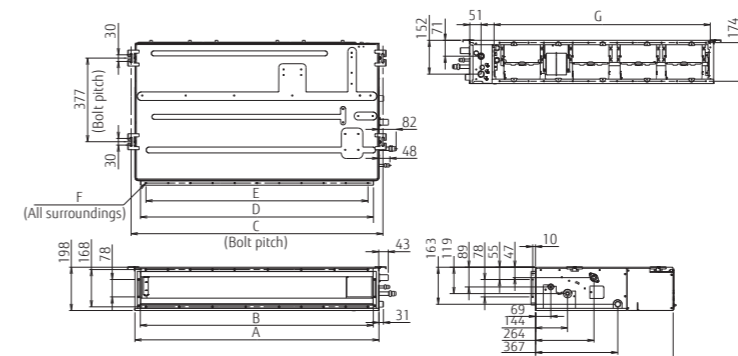
## Optional parts

Wired Remote Controller: UTY-RNNGM, UTY-RVNGM    Auto Louver Grille Kit: UTD-GXTA-W (For ARHG12 / 14LLTB)  
 Simple Remote Controller: UTY-RSNGM    UTD-GXTB-W (For ARHG18LLTB)  
 IR Receiver Kit: UTY-LRHGM    External connect kit: UTD-ECSSA  
 Remote Sensor Unit: UTY-XSZX



## Dimensions

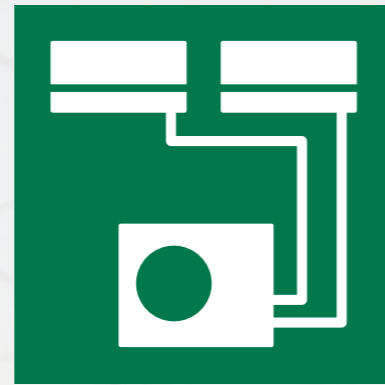
(Unit : mm)



	ARHG12 / 14LLTB	ARHG18LLTB
A	700	900
B	650	850
C	734	934
D	650	850
E	P100x6=600	P100x8=800
F	18xØ5	22xØ5
G	574	774

# MULTI SPLIT

For Residential



## MULTI SPLIT

- 182 PRODUCT LINEUP
- 184 2 & 3-4 Rooms Multi
- 186 5-6 Rooms Multi
- 188 8 Rooms Multi
- 190 Indoor Units for MULTI SPLIT Specifications
- 192 Multi Combination Table





# MULTI SPLIT Outdoor Units



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

Model code	Indoor unit							
	14	18	24	30	36	45	45	
Cooling rated capacity(kW)	4	5	5.4	6.8	8	10	12.5	14
2 Rooms Multi Up to 2 units	● AOHG 14LAC2 ● AOHG 18LAC2							
3 Rooms Multi Up to 3 units		● AOHG 18LAT3* ● AOHG 24LAT3*						
4 Rooms Multi Up to 4 units				● AOHG 30LAT4*				
<b>NEW</b> 5 Rooms Multi Up to 5 units						● AOHG 36LBA5*		
<b>NEW</b> 6 Rooms Multi Up to 6 units							● AOHG 45LBA6*	
8 Rooms Multi Up to 8 units								● AOHG 45LBT8*

**Note: 1. 2 Rooms Multi:** Connectable indoor units are 2 units. AOHG14LAC2: Total capacity of indoor units connected must be between 4.0 kW and 6.0kW. AOHG18LAC2: Total capacity of indoor units connected must be between 4.0 kW and 7.0 kW.

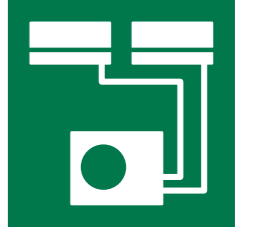
**2. 3 Rooms Multi:** Connectable indoor units are 2 to 3 units. AOHG18LAT3: Total capacity of indoor units connected must be between 4.0 kW and 8.5 kW. AOHG24LAT3: Total capacity of indoor units connected must be between 4.0 kW and 10.5 kW.

**3. 4 Rooms Multi:** Connectable indoor units are 3 to 4 units. AOHG30LAT4: Total capacity of indoor units connected must be between 7.5 kW and 14.0 kW.

**4. 5 Rooms Multi:** Connectable indoor units are 2 to 5 units. AOHG36LBA5: Total capacity of indoor units connected must be between 7.5 kW and 15.5 kW.

**5. 6 Rooms Multi:** Connectable indoor units are 2 to 6 units. AOHG45LBA6: Total capacity of indoor units connected must be between 9.5 kW and 18.0 kW.

**6. 8 Rooms Multi:** Connectable indoor units are 2 to 8 units. AOHG45LBT8: Total capacity of indoor units connected must be between 11.0 kW and 18.0 kW.



# MULTI SPLIT Connectable Indoor Units

Outdoor Unit	Type	2 Rooms		3 Rooms		4 Rooms	5 Rooms	6 Rooms	8 Rooms
	Model name	AOHG14LAC2	AOHG18LAC2	AOHG18LAT3	AOHG24LAT3	AOHG30LAT4	AOHG36LBA5	AOHG45LBA6	AOHG45LBT8 (Branch Box)
Capacity (kW)	Cooling	4.0	5.0	5.4	6.8	8.0	10.0	12.5	14.0
	Heating	4.4	5.6	6.8	8.0	9.6	12.0	13.5	16.0

Indoor Unit	BTU	kW Class	2 Rooms	3 Rooms	4 Rooms	5 Rooms	6 Rooms	8 Rooms
ASHG07/09/12/14LMCA	7000	2.0	●	●	●	●	●	●
	9000	2.5	●	●	●	●	●	●
ASHG07/09/12/14LUCA	12000	3.5	●	●	●	●	●	●
	14000	4.0	-	●	●	●	●	●
ASHG18/24LF	18000	5.0	-	-	●	●	●	●
	24000	7.0	-	-	-	●	●	●
AGHG09/12/14LV	9000	2.5	-	●	●	●	●	●
	12000	3.5	-	●	●	●	●	●
	14000	4.0	-	-	●	●	●	●
AUHG07/09/12/14/18LV	7000	2.0	-	●	●	●	●	●
	9000	2.5	-	●	●	●	●	●
	12000	3.5	-	●	●	●	●	●
	14000	4.0	-	-	●	●	●	●
ABHG14/18LV	18000	5.0	-	-	●	●	●	●
	7000	2.0	-	●	●	●	●	-
	9000	2.5	-	●	●	●	●	-
ARHG07/09/12/14/18LAP	12000	3.5	-	●	●	●	●	-
	14000	4.0	-	-	●	●	●	-
	18000	5.0	-	-	●	●	●	-
ARHG07/09/12/14/18LL	7000	2.0	-	●	●	●	●	●
	9000	2.5	-	●	●	●	●	●
	12000	3.5	-	●	●	●	●	●
ARHG07/09/12/14/18LL	14000	4.0	-	-	●	●	●	●
	18000	5.0	-	-	-	●	●	●

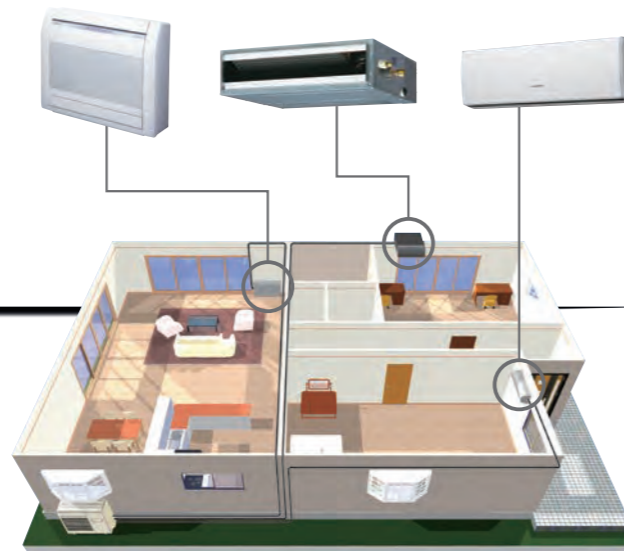
# 2 & 3-4 Rooms Multi



## 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.

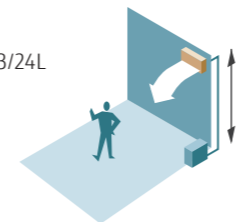
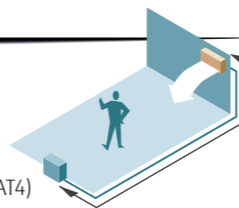
### Flexible installation

Up to max. piping length of 70 m (AOHG30LAT4), max. height difference of 15 m can be supported. Multi type can be installed in large-size residence or buildings with multiple floors.

**Max. Piping Length (Each Unit):**  
 20 m (AOHG14LAC2 / 18LAC2),  
 25 m (AOHG18LAT3 / 24LAT3 / 30LAT4)

**Max. Height:**  
 15 m (AOHG14LAC2/18LAC2/18LAT3/24LAT3/30LAT4)

**Total Piping Length:**  
 30 m (AOHG14LAC2 / 18LAC2),  
 50 m (AOHG18LAT3 / 24LAT3),  
 70 m (AOHG30LAT4)



2 Rooms: AOHG14LAC2 / AOHG18LAC2  
 3 Rooms: AOHG18LAT3 / AOHG24LAT3  
 4 Rooms: AOHG30LAT4



## Specifications (2 ROOMS, 3 ROOMS, 4 ROOMS)

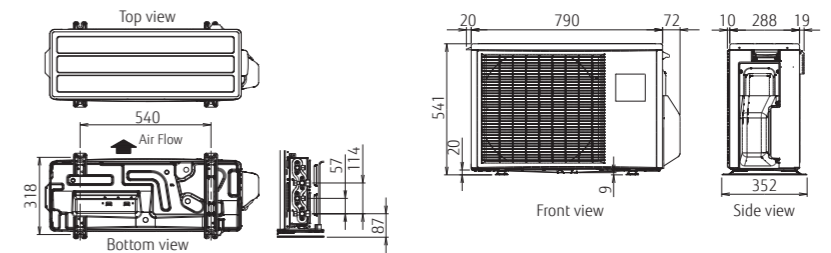
Model No.	Outdoor unit		AOHG14LAC2	AOHG18LAC2	AOHG18LAT3	AOHG24LAT3	AOHG30LAT4	
Power Source			Single-phase, ~230V, 50Hz					
Rated Capacity (min-max)	Cooling	kW	4.0 (1.4-4.4)	5.0 (1.7-5.6)	5.4 (1.8-6.8)	6.8 (1.8-8.5)	8.0 (3.5-10.1)	
	Heating		4.4 (1.1-5.4)	5.6 (1.8-6.1)	6.8 (2.0-8.0)	8.0 (2.0-8.8)	9.6 (3.7-12.0)	
EER	Cooling	W/W	3.67	3.21	4.00	3.51	3.60	
	Heating		4.27	3.97	4.20	4.00	4.00	
COP	Cooling	dB(A)	47	50	46	48	50	
	Heating		49	51	47	49	51	
Sound Pressure Level (High)	Cooling	dB(A)	61	63	65	68	68	
	Heating		63	64	67	70	70	
Net Dimensions H × W × D			mm	540×790×290	540×790×290	700×900×330	700×900×330	830×900×330
			kg(lbs)	37 (82)	38 (84)	55 (121)	55 (121)	68 (150)
Connection Pipe Diameter	Liquid	mm	6.35×2	6.35×2	6.35×3	6.35×3	6.35×4 (*6.35×3, 9.52)	
	Gas		9.52 × 2	9.52 × 2 (*9.52, 12.7)	9.52 × 2, 12.7 (*9.52 × 3)	9.52 × 2, 12.7 (*9.52 × 3)	9.52 × 2, 12.7 × 2 (*9.52 × 3, 12.7) (*9.52 × 2, 12.7, 15.88)	
Max. Pipe Length	Total / Each		30 / 20	30 / 20	50 / 25	50 / 25	70 / 25	
	Max. Height Difference	Between Outdoor Unit and Each Indoor Units.	15	15	15	15	15	
Between Indoor Units.		10	10	10	10	10		
Operation Range	Cooling	°CDB	10 to 46	10 to 46	-10 to 46	-10 to 46	0 to 46	
	Heating		-15 to 24	-15 to 24	-15 to 24	-15 to 24	-10 to 24	
Refrigerant	Type (Global Warming Potential)	R410A (2,088)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	
	Charge	kg(CO2eq-T)	1.25 (2.6)	1.30 (2.7)	2.20 (4.6)	2.20 (4.6)	3.30 (6.9)	

\* Connect to connection valve by the adapter.

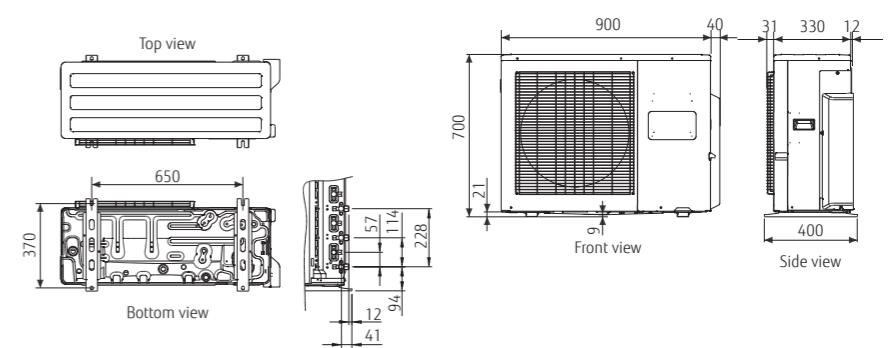
## Dimensions

(Unit : mm)

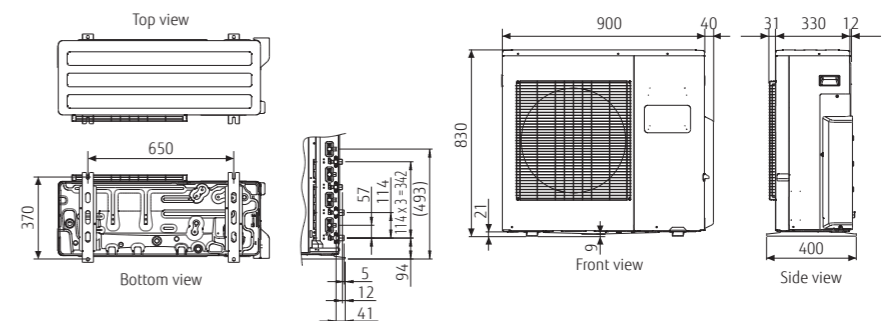
2 Rooms:  
AOHG14LAC2/AOHG18LAC2



3 Rooms:  
AOHG18LAT3/AOHG24LAT3



4 Rooms:  
AOHG30LAT4





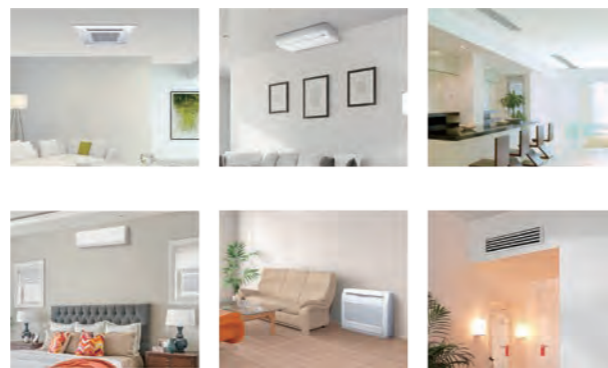
NEW 5-6 Rooms Multi



Features

Wide range of indoor units with various models

6 types 26 models are lined up in the capacity range from 2 kW to 7 kW class. Wide range of needs can be met from rooms of private homes to large shops and hotels.



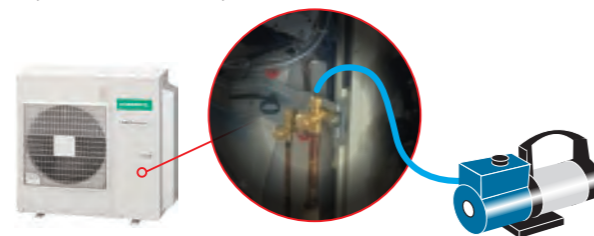
Compact design

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



Easy installation

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



Central & Individual Control

- Batched control of up to 8 indoor units. The temperature, airflow volume, and remote control prohibition settings of all indoor units can be batched.
- Corresponds to 9 different languages (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)
- Large backlight LED screen
- Large easy-to-see operation panel

Max. Controllable  
**1** multi system  
Max. Controllable  
**6** indoor units



5 Rooms: AOHG36LBLA5  
6 Rooms: AOHG45LBLA6

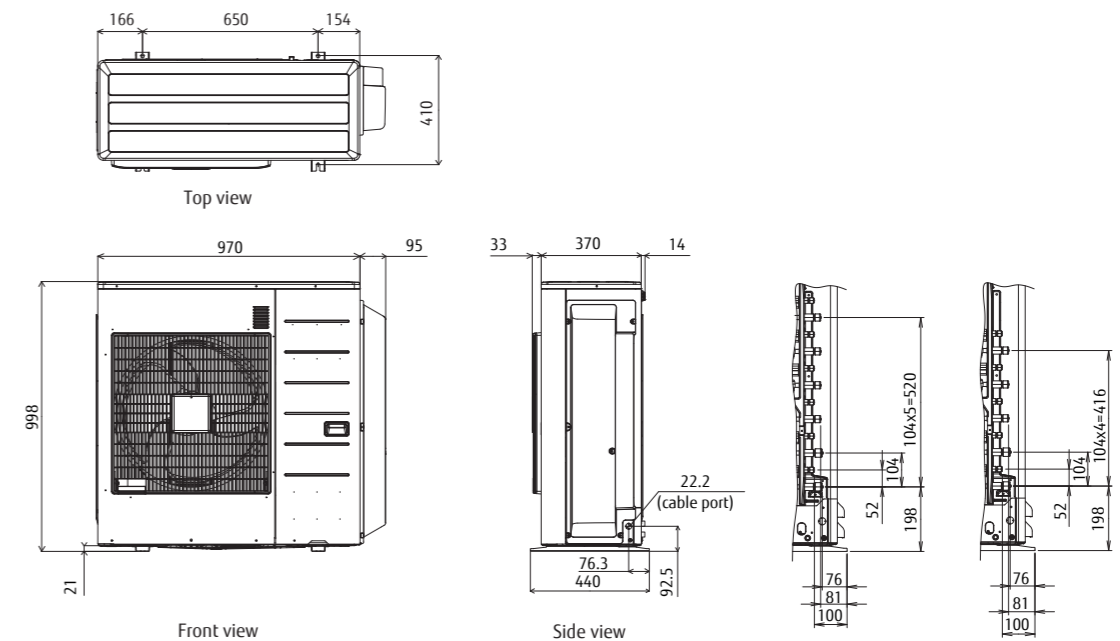


Specifications (5 ROOMS, 6 ROOMS)

Model No.	Outdoor unit		AOHG36LBLA5	AOHG45LBLA6
Power Source	Single-phase, ~230V, 50Hz			
Rated Capacity (min-max)	Cooling	kW	10.0 (3.5-12.5)	12.5 (3.5-14.0)
	Heating		12.0 (3.5-14.0)	13.5 (3.5-16.0)
EER	Cooling	W/W	4.10	3.50
	Heating		4.30	4.00
Sound Pressure Level (High)	Cooling	dB(A)	53	53
	Heating		55	55
Sound Power Level (High)	Cooling		67	67
	Heating		68	68
Net Dimensions H × W × D			998×970×370	998×970×370
Weight			94 (207)	94 (207)
			6.35×5	6.35×6
Connection Pipe Diameter	Liquid	mm	9.52 × 3, 12.7 × 2	9.52 × 4, 12.7 × 2
	Gas		80 / 25	80 / 25
Max. Height Difference	Between Outdoor Unit and Each Indoor Units.		15	15
	Between Indoor Units.		10	10
Operation Range	Cooling	°CDB	-10 to 46	-10 to 46
	Heating		-15 to 24	-15 to 24
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)
	Charge		kg(CO2eq-T)	4.00 (8.4)

Dimensions

(Unit : mm)



# 8 Rooms Multi



## Features

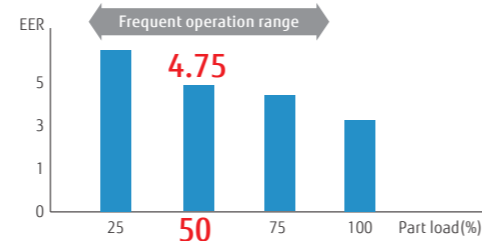
### Compact outdoor unit

The compact design outdoor unit allows to be installed below a window and in a narrow space.



### High seasonal efficiency

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



### Innovated technology

**High efficiency large fan:**  
New high efficiency fan is mounted.

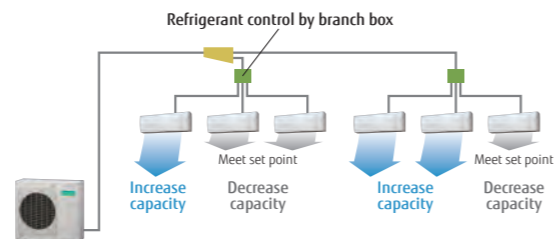
**DC fan motor:**  
High performance and high efficiency has been realized by using a small DC fan motor.

**Heat exchanger:**  
Reduced compact size and energy saving has been realized by utilizing high density piping design and 3-Row heat exchanger.

**High efficiency DC twin rotary compressor:**  
A high performance, low noise, large capacity DC twin rotary compressor is used.

### Quick comfort by optimized refrigerant control

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



## 8 Rooms: AOHG45LBT8



### Specifications

Model Name		AOHG45LBT8	
Maximum Connectable Indoor Unit		8	
Indoor Unit Connectable Capacity		Cooling	kW
		11.0 - 17.5	
Power source		Single-phase, ~230V, 50Hz	
Rated Capacity	Cooling	kW	14.0
	Heating	kW	16.0
Input Power	Cooling	kW	5.20
	Heating	kW	5.07
Airflow rate	Cooling	m <sup>3</sup> /h	4,650
	Heating	m <sup>3</sup> /h	4,800
Sound Pressure Level	Cooling	dB(A)	56
	Heating	dB(A)	58
Heat Exchanger Fin		Plate fin coil	
Net Dimensions H × W × D		mm	914×970×370
Weight		kg(lbs)	98 (217)
Connection Pipe Diameter (Liquid / Gas)		mm	9.52/15.88
Max Pipe Length		m	115 (Total)
Max Height Difference (O.U ~ I.U)		m	30
Operating Range	Cooling	°CDB	-5 to 46
	Heating	°CDB	-15 to 24
Refrigerant	Type (Global Warming Potential)	R410A (2,088)	
	Charge	kg(CO2eq-T)	3.45 (7.2)

Model Name		UTP-PY03A		UTP-PY02A	
Connectable Indoor Unit		1 to 3 Units		1 to 2 Units	
Power source		Single-phase, ~230V, 50Hz		Single-phase, ~230V, 50Hz	
Available Voltage Range		198-264V		198-264V	
Power Consumption		W	10	10	
Running Current		A	0.05	0.05	
Net Dimensions H × W × D		mm	195×433×370	195×433×370	
Weight		kg(lbs)	9 (20)	9 (20)	
Connection pipe diameter	Liquid	°CDB	Main: 9.52×1, Branch:6.35×3	Main: 9.52×1, Branch:6.35×2	
	Gas	°CDB	Main: 15.88×1, Branch:12.7×3	Main: 15.88×1, Branch:12.7×2	
	Method		Flare	Flare	

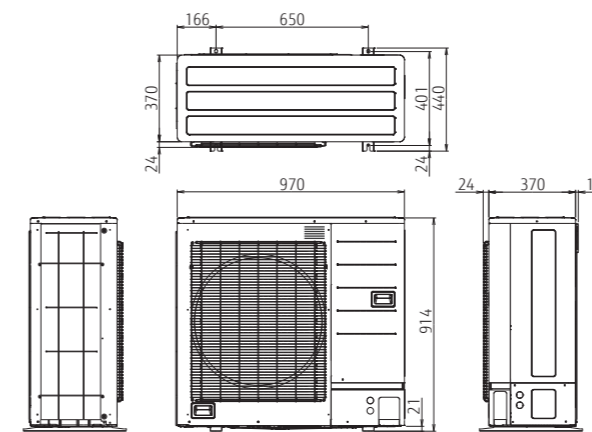
Note: Specifications are based on the following conditions.

- In case of connecting two indoor units(7 kW class).
- These are the measured values in the manufacturer's anechoic chamber.
- Cooling: Indoor temp. of 27°CDB/19°CWB, outdoor temp. of 35°CDB/24°CWB Heating: Indoor temp. of 20°CDB/15°CWB, outdoor temp. of 7°CDB/6°CWB  
Pipe length: 5m (Outdoor unit - Branch box), 3m (Branch box - Indoor unit) Height difference : 0m

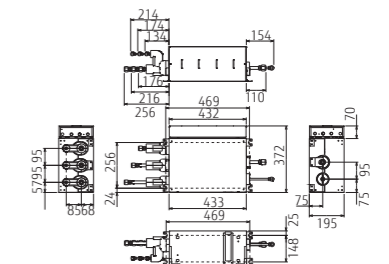
### Dimensions

(Unit : mm)

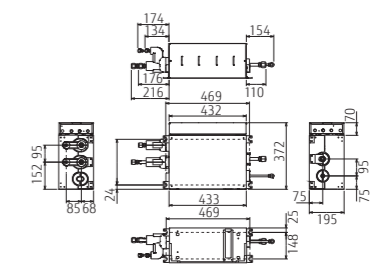
#### Outdoor Unit: AOHG45LBT8



#### Branch Box : UTP-PY03A (3 branches type)

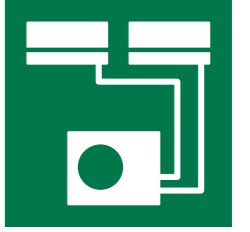


#### Branch Box : UTP-PY02A (2 branches type)





# Indoor Units for MULTI SPLIT Specifications



## Compact wall mounted



Model No.	Indoor unit			ASHG07LUCA	ASHG09LUCA	ASHG12LUCA	ASHG14LUCA
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	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7

## Wall mounted



Model No.	Indoor unit			ASHG18LFCA	ASHG24LFCC
kW Class	kW			5.0	7.0
Power Source	Single-phase, ~230V, 50Hz				
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	43/37/33/26	49/42/37/33
	Heating			42/37/33/25	48/42/37/33
Sound Power Level	Cooling	H	dB(A)	58	64
	Heating			58	64
Airflow Rate	Cooling	H/M/L/Q	m³/h	900/740/620/550	1120/900/740/620
	Heating			900/740/620/550	1100/900/740/620
Net Dimensions	mm			320×998×238	320×998×238
Weight	kg(lbs)			14 (30.8)	14 (30.8)
Connection Pipe Diameter	Liquid/Gas	mm		6.35/12.7	Ø6.35/Ø15.88

## Compact wall mounted



Model No.	Indoor unit			ASHG07LMCA	ASHG09LMCA	ASHG12LMCA	ASHG14LMCA
kW Class	kW			2.0	2.5	3.5	4.0
Power Source	Single-phase, ~230V, 50Hz						
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	36/32/29/21	37/33/29/21	40/36/30/21	42/38/33/25
	Heating			36/32/29/22	37/33/29/22	40/36/31/22	42/38/35/27
Sound Power Level	Cooling	H	dB(A)	51	52	54	56
	Heating			51	52	55	57
Airflow Rate	Cooling	H/M/L/Q	m³/h	560/500/430/310	600/520/430/310	660/560/450/310	730/600/530/360
	Heating			560/500/430/330	600/520/430/330	660/560/470/330	730/615/560/375
Net Dimensions	mm			268×840×203	268×840×203	268×840×203	268×840×203
Weight	kg(lbs)			8.5 (19)	8.5 (19)	8.5 (19)	8.5 (19)
Connection Pipe Diameter	Liquid/Gas	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7

## Floor



Model No.	Indoor unit			AGHG09LVCA	AGHG12LVCA	AGHG14LVCA
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	mm		6.35/9.52	6.35/9.52	6.35/12.7

## Floor ceiling



Model No.	Indoor unit			ABHG14LVTA	ABHG18LVTB
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	mm		6.35/12.7	6.35/12.7

## Compact cassette



Model No.	Indoor unit			AUHG07LVLA	AUHG09LVLA	AUHG12LVLB	AUHG14LVLB	AUHG18LVLB
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-UFGD-W				
Connection Pipe Diameter	Liquid/Gas	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7	6.35/12.7

## Mini duct

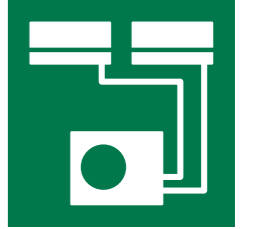


Model No.	Indoor unit			ARHG07LSLAP	ARHG09LSLAP	ARHG12LSLAP	ARHG14LSLAP	ARHG18LSLAP
kW Class	kW			2.0	2.5	3.5	4.0	5.0
Power Source	Single-phase, ~230V, 50Hz							
Sound Pressure Level	Cooling	H/M/L/Q	dB(A)	29/26/24/23	29/26/24/23	31/27/25/23	35/30/27/23	33/29/26/23
	Heating			29/26/24/23	29/26/24/23	31/27/25/23	35/30/27/23	33/29/26/23
Sound Power Level	Cooling	H	dB(A)	52	54	55	60	58
	Heating			53	56	57	62	59
Airflow Rate	Cooling	H/M/L/Q	m³/h	550/440/390/360	600/450/400/360	650/490/430/360	800/640/530/360	940/750/540/480
	Heating			550/440/390/360	600/450/400/360	650/490/430/360	800/640/530/360	940/750/540/480
Net Dimensions	mm			198×700×450	198×700×450	198×700×450	198×700×450	198×900×450
Weight	kg(lbs)			15.5 (34.1)				18.5 (40.7)
Connection Pipe Diameter	Liquid/Gas	mm		6.35/9.52			6.35/12.70	
External static pressure	Pa			0 to 30			0 to 50	
Drain pump	Standard							

## Slim duct



Model No.	Indoor unit			ARHG07LLTA	ARHG09LLTA	ARHG12LLTB	ARHG14LLTB	ARHG18LLTB
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	mm		6.35/9.52	6.35/9.52	6.35/9.52	6.35/12.7	6.35/12.7
External static pressure	Pa			0 to 90				
Drain pump	Standard							



Multi Combination Table for 2 & 3 Rooms-Cooling/Heating

2 Rooms Multi cooling

Table with columns: AOHG14LAC2, Combination of Indoor Unit, Cooling Capacity (Room 1, Room 2, Total Capacity), Input Power, EER, Seasonal Data (Pdesign, SEER, Energy efficiency class).

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).

Table with columns: AOHG18LAC2, Combination of Indoor Unit, Cooling Capacity (Room 1, Room 2, Total Capacity), Input Power, EER, Seasonal Data (Pdesign, SEER, Energy efficiency class).

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).

3 Rooms Multi cooling

Table with columns: AOHG18LAT3, Combination of Indoor Unit, Cooling Capacity (Room 1, Room 2, Room 3, Total Capacity), Input Power, EER, Seasonal Data (Pdesign, SEER, Energy efficiency class).

Table with columns: AOHG24LAT3, Combination of Indoor Unit, Cooling Capacity (Room 1, Room 2, Room 3, Total Capacity), Input Power, EER, Seasonal Data (Pdesign, SEER, Energy efficiency class).

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).

2 Rooms Multi heating

Table with columns: AOHG14LAC2, Combination of Indoor Unit, Heating Capacity (Room 1, Room 2, Total Capacity), Input Power, EER, Seasonal Data (Pdesign, SEER, Energy efficiency class).

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).

Table with columns: AOHG18LAC2, Combination of Indoor Unit, Heating Capacity (Room 1, Room 2, Total Capacity), Input Power, EER, Seasonal Data (Pdesign, SEER, Energy efficiency class).

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).

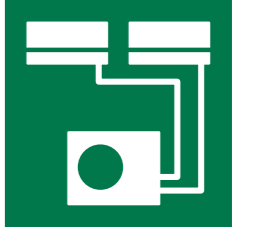
3 Rooms Multi heating

Table with columns: AOHG18LAT3, Combination of Indoor Unit, Heating Capacity (Room 1, Room 2, Room 3, Total Capacity), Input Power, EER, Seasonal Data (Pdesign, SEER, Energy efficiency class).

Table with columns: AOHG24LAT3, Combination of Indoor Unit, Heating Capacity (Room 1, Room 2, Room 3, Total Capacity), Input Power, EER, Seasonal Data (Pdesign, SEER, Energy efficiency class).

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).





# Multi Combination Table for 4 Rooms–Cooling/Heating

## 4 Rooms Multi cooling

AOHG30LAT4	Combination of Indoor Unit		COOLING OPERATION						Seasonal Data				
			Cooling Capacity				Input Power (min-max)	EER	Pdesign	SEER	Energy efficiency class		
			Room 1	Room 2	Room 3	Room 4						Total Capacity (min-max)	
			kW	kW	kW	kW	kW	kW	kW	kW	kW		
7	7	14	-	1.96	1.96	3.27	-	7.20 (1.6-8.9)	2.22 (0.68-3.43)	3.24	7.2	5.9	A+
7	7	18	-	1.81	1.81	4.08	-	7.70 (2.8-10.0)	2.22 (0.98-3.55)	3.47	7.7	5.8	A+
7	7	24	-	1.61	1.61	4.57	-	7.80 (2.8-10.1)	2.19 (0.98-3.53)	3.56	7.8	5.8	A+
7	9	12	-	2.08	2.34	2.78	-	7.20 (1.6-8.9)	2.22 (0.68-3.41)	3.24	7.2	5.9	A+
7	9	14	-	1.90	2.14	3.16	-	7.20 (2.8-9.1)	2.22 (0.98-3.56)	3.24	7.2	5.9	A+
7	9	18	-	1.76	1.98	3.96	-	7.70 (2.8-9.9)	2.22 (0.98-3.56)	3.47	7.7	5.8	A+
7	9	24	-	1.57	1.77	4.46	-	7.80 (2.8-10.1)	2.19 (0.98-3.53)	3.56	7.8	5.8	A+
7	12	12	-	1.96	2.62	2.62	-	7.20 (1.6-9.1)	2.22 (0.68-3.54)	3.24	7.2	5.9	A+
7	12	14	-	1.83	2.43	3.04	-	7.30 (2.8-9.2)	2.22 (0.98-3.56)	3.29	7.3	5.9	A+
7	12	18	-	1.68	2.24	3.78	-	7.70 (2.8-9.9)	2.22 (0.98-3.56)	3.47	7.7	5.8	A+
7	12	24	-	1.51	2.01	4.28	-	7.80 (2.8-10.1)	2.19 (0.98-3.56)	3.56	7.8	5.8	A+
7	14	14	-	1.68	2.81	2.81	-	7.30 (2.8-9.3)	2.22 (0.98-3.58)	3.29	7.3	5.9	A+
7	14	18	-	1.57	2.61	3.52	-	7.70 (3.5-10.0)	2.22 (1.17-3.58)	3.47	7.7	5.8	A+
9	12	14	-	1.44	2.39	4.07	-	7.90 (3.5-10.1)	2.20 (1.17-3.58)	3.59	7.9	5.8	A+
7	18	18	-	1.42	3.19	3.19	-	7.80 (3.5-10.1)	2.22 (1.17-3.58)	3.51	7.8	5.7	A+
7	18	24	-	1.30	2.92	3.68	-	7.90 (4.7-10.1)	2.22 (1.27-3.58)	3.56	7.9	5.7	A+
9	9	9	-	2.40	2.40	2.40	-	7.20 (2.8-9.2)	2.22 (0.98-3.42)	3.24	7.2	5.9	A+
9	9	12	-	2.26	2.26	2.68	-	7.20 (2.8-9.1)	2.22 (0.98-3.54)	3.24	7.2	5.9	A+
9	9	14	-	2.10	2.10	3.11	-	7.30 (2.8-9.2)	2.22 (0.98-3.57)	3.29	7.3	5.9	A+
9	9	18	-	1.93	1.93	3.85	-	7.70 (2.8-9.9)	2.22 (0.98-3.56)	3.47	7.7	5.8	A+
9	9	24	-	1.73	1.73	4.35	-	7.80 (2.8-10.1)	2.20 (1.17-3.54)	3.55	7.8	5.8	A+
9	12	12	-	2.14	2.53	2.53	-	7.20 (2.8-9.1)	2.22 (0.98-3.54)	3.24	7.2	5.9	A+
9	12	14	-	1.99	2.36	2.95	-	7.30 (2.8-9.2)	2.22 (0.98-3.57)	3.29	7.3	5.9	A+
9	12	18	-	1.84	2.18	3.68	-	7.70 (2.8-9.9)	2.22 (0.98-3.56)	3.47	7.7	5.8	A+
9	12	24	-	1.66	1.97	4.18	-	7.80 (2.8-10.1)	2.19 (0.98-3.56)	3.56	7.8	5.8	A+
9	14	14	-	1.84	2.73	2.73	-	7.30 (3.5-9.3)	2.22 (1.17-3.58)	3.29	7.3	5.9	A+
9	14	18	-	1.74	2.58	3.48	-	7.80 (3.5-10.0)	2.22 (1.17-3.58)	3.51	7.8	5.8	A+
9	14	24	-	1.58	2.34	3.98	-	7.90 (3.5-10.1)	2.22 (1.27-3.56)	3.56	7.9	5.8	A+
9	18	18	-	1.56	3.12	3.12	-	7.80 (4.7-10.1)	2.22 (1.27-3.58)	3.51	7.8	5.7	A+
12	12	12	-	2.43	2.43	2.43	-	7.30 (2.8-9.2)	2.22 (0.98-3.55)	3.29	7.3	5.9	A+
12	12	14	-	2.28	2.28	2.85	-	7.40 (2.8-9.3)	2.22 (0.98-3.58)	3.33	7.4	5.9	A+
12	12	18	-	2.12	2.12	3.57	-	7.80 (3.5-10.0)	2.22 (1.17-3.57)	3.51	7.8	5.8	A+
12	12	24	-	1.92	1.92	4.07	-	7.90 (3.5-10.1)	2.20 (1.17-3.54)	3.59	7.9	5.8	A+
12	14	14	-	2.11	2.64	2.64	-	7.40 (3.5-9.4)	2.22 (1.17-3.58)	3.33	7.4	5.9	A+
12	14	18	-	1.98	2.48	3.34	-	7.80 (3.5-10.1)	2.22 (1.17-3.58)	3.51	7.8	5.8	A+
12	18	18	-	1.81	3.05	3.05	-	7.90 (4.7-10.1)	2.22 (1.27-3.58)	3.56	7.9	5.7	A+
7	7	7	7	1.93	1.93	1.93	1.93	7.70 (1.6-9.6)	2.20 (0.68-3.41)	3.50	7.7	6.2	A++
7	7	7	9	1.89	1.89	1.89	2.13	7.80 (1.6-9.8)	2.22 (0.68-3.54)	3.51	7.8	6.2	A++
7	7	7	12	1.83	1.83	1.83	2.41	7.90 (1.6-9.9)	2.22 (0.68-3.54)	3.56	7.9	6.1	A++
7	7	7	14	1.70	1.70	1.70	2.80	7.90 (2.8-9.9)	2.22 (0.98-3.56)	3.56	7.9	6.1	A++
7	7	7	18	1.52	1.52	1.52	3.43	8.00 (2.8-10.1)	2.20 (0.98-3.55)	3.64	8.0	6.0	A++
7	7	9	9	1.86	1.86	2.09	2.09	7.90 (2.8-9.7)	2.22 (0.98-3.42)	3.56	7.9	6.2	A++
7	7	9	12	1.78	1.78	1.99	2.35	7.90 (2.8-9.9)	2.22 (0.98-3.55)	3.56	7.9	6.1	A++
7	7	9	14	1.68	1.68	1.88	2.76	8.00 (2.8-10.0)	2.22 (0.98-3.57)	3.60	8.0	6.0	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	6.0	A++
7	7	12	12	1.72	1.72	2.28	2.28	8.00 (2.8-10.0)	2.22 (0.98-3.55)	3.60	8.0	6.0	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	6.0	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	6.0	A++
7	7	14	14	1.50	1.50	2.50	2.50	8.00 (3.5-10.1)	2.22 (1.17-3.58)	3.60	8.0	6.0	A++
7	7	14	18	1.35	1.35	2.25	3.04	8.00 (3.5-10.1)	2.22 (1.17-3.58)	3.60	8.0	6.0	A++
7	9	9	9	1.81	2.03	2.03	2.03	7.90 (2.8-9.9)	2.22 (0.98-3.56)	3.56	7.9	6.2	A++
7	9	9	12	1.76	1.96	1.96	2.32	8.00 (2.8-10.0)	2.22 (0.98-3.56)	3.60	8.0	6.1	A++
7	9	9	14	1.64	1.83	1.83	2.70	8.00 (3.5-10.1)	2.22 (1.17-3.58)	3.60	8.0	6.0	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	6.0	A++
7	9	12	12	1.68	1.88	2.22	2.22	8.00 (2.8-10.0)	2.22 (0.98-3.56)	3.60	8.0	6.0	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	6.0	A++
7	9	12	18	1.40	1.58	1.87	3.15	8.00 (3.5-10.1)	2.22 (1.17-3.56)	3.60	8.0	6.0	A++
7	9	14	14	1.48	1.66	2.43	2.43	8.00 (3.5-10.1)	2.22 (1.17-3.58)	3.60	8.0	6.0	A++
7	9	14	18	1.32	1.49	2.21	2.98	8.00 (4.7-10.1)	2.22 (1.27-3.57)	3.60	8.0	6.0	A++
7	12	12	12	1.61	2.13	2.13	2.13	8.00 (2.8-10.1)	2.22 (0.98-3.56)	3.60	8.0	6.0	A++
7	12	12	14	1.51	2.00	2.00	2.49	8.00 (3.5-10.1)	2.22 (1.17-3.58)	3.60	8.0	6.0	A++
7	12	12	18	1.35	1.80	1.80	3.04	8.00 (3.5-10.1)	2.22 (1.17-3.56)	3.60	8.0	6.0	A++
7	12	14	14	1.41	1.89	2.35	2.35	8.00 (3.5-10.0)	2.22 (1.17-3.58)	3.60	8.0	6.0	A++
9	9	9	9	2.00	2.00	2.00	2.00	8.00 (3.5-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.2	A++
9	9	9	12	1.91	1.91	1.91	2.27	8.00 (3.5-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.1	A++
9	9	9	14	1.79	1.79	1.79	2.63	8.00 (3.5-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A++
9	9	9	18**	1.60	1.60	1.60	3.20	8.00 (4.7-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A++
9	9	12	12	1.83	1.83	2.17	2.17	8.00 (3.5-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A++
9	9	12	14	1.72	1.72	2.03	2.53	8.00 (3.5-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A++
9	9	12	18**	1.54	1.54	1.83	3.09	8.00 (4.7-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A++
9	9	14	14	1.62	1.62	2.38	2.38	8.00 (4.7-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A++
9	12	12	12	1.76	2.08	2.08	2.08	8.00 (3.5-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A++
9	12	12	14	1.66	1.95	1.95	2.44	8.00 (3.5-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A++
9	12	14	14	1.55	1.85	2.30	2.30	8.00 (4.7-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A++
12	12	12	12	2.00	2.00	2.00	2.00	8.00 (3.5-10.0)	2.22 (1.17-3.56)	3.60	8.0	6.0	A++

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

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

•3 or more indoor units should be connected.

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

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

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

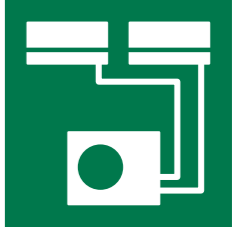
\*1: Connection of ASHG18L + ARHG09L + ARHG09L is not available. All types other than this combination can be connected.

\*2: Connection of ASHG18L + ARHG12L + ARHG09L + ARHG09L is not available. All types other than this combination can be connected.

## 4 Rooms Multi heating

AOHG30LAT4	Combination of Indoor Unit		HEATING OPERATION						Seasonal Data				
			Heating Capacity				Input Power (min-max)	EER	Pdesign	SEER	Energy efficiency class		
			Room 1	Room 2	Room 3	Room 4						Total Capacity (min-max)	
			kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
7	7	14	-	2.42	2.42	4.15	-	9.00 (1.8-10.1)	2.66 (0.58-3.53)	3.38	5.8	3.8	A
7	7	18	-	2.27	2.27	4.86	-	9.40 (3.3-11.2)	2.46 (0.87-3.52)	3.82	5.8	3.8	A
7	7	24	-	2.03	2.03	5.44	-	9.50 (3.3-11.5)	2.47 (0.87-3.52)	3.85	5.8	3.8	A
7	9	12	-	2.49	2.94	3.56	-	9.00 (1.8-10.0)	2.69 (0.58-3.51)	3.35	5.8	3.8	A
7	9	14	-	2.33	2.75	4.00	-	9.10 (3.3-10.2)	2.64 (0.87-3.50)	3.45	5.8	3.8	A
7	9	18	-	2.17	2.56	4.66	-	9.40 (3.3-11.3)	2.45 (0.87-3.50)	3.84	5.8	3.8	A
7	9	24	-	1.98	2.33	5.29	-	9.60 (3.3-11.5)	2.46 (0.87-3.51)	3.90	5.8	3.8	A
7	12	12	-	2.33	3.33	3.33	-	9.00 (1.8-10.1)	2.66 (0.58-3.48)	3.38	5.8	3.8	A
7	12	14	-	2.22	3.17	3.80	-	9.20 (3.3-10.3)	2.62 (0.87-3.48)	3.51	5		

# Multi Combination Table for 5 Rooms-Cooling



### 5 Rooms Multi cooling

A0HG36L0LA5	Combination of Indoor Unit					COOLING OPERATION										
						Cooling Capacity					Input Power (min-max)	EER	Seasonal Data			
						Room 1	Room 2	Room 3	Room 4	Room 5			Total Capacity (min-max)	Pdesign	SEER	Energy efficiency class
2 Room	7	24	-	-	-	2.00	7.00	-	-	-	9.0 (3.5-11.1)	2.31 (0.8-3.29)	3.89	9.0	6.5	A++
	12	14	14	14	14	3.33	6.67	-	-	-	10.0 (3.5-12.5)	2.81 (0.8-3.88)	3.56	10.0	6.5	A++

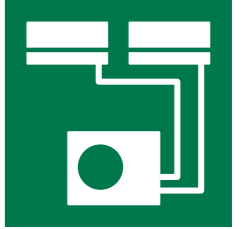
Note: •7:7000Btu/h / 9:9000Btu/h / 12:12000Btu/h / 14:14000Btu/h / 18:18000Btu/h / 24:24000Btu/h models  
 •The above is the value for connecting with Wall Mounted type.  
 •2 or more indoor units should be connected.  
 •Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor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

### 5 Rooms Multi cooling

A0HG36L0LA5	Combination of Indoor Unit					COOLING OPERATION										
						Cooling Capacity					Input Power (min-max)	EER	Seasonal Data			
						Room 1	Room 2	Room 3	Room 4	Room 5			Total Capacity (min-max)	Pdesign	SEER	Energy efficiency class
5 Room	7	7	7	7	7	2.00	2.00	2.00	2.00	2.00	10.0 (3.5-12.5)	2.44 (0.8-3.88)	4.10	10.0	7.0	A++
	7	7	7	7	12	1.89	1.89	1.89	1.89	2.44	10.0 (3.5-12.5)	2.44 (0.8-3.88)	4.10	10.0	7.0	A++

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





Multi Combination Table for 5 Rooms-Heating

5 Rooms Multi heating

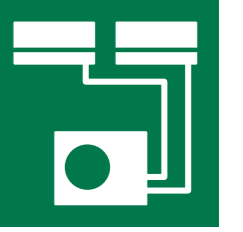
Table with columns: AOHG36L8L5, Combination of Indoor Unit, Heating Capacity (Room 1-5, Total Capacity), Input Power, COP, Seasonal Data (Pdesign, SCOP, Energy efficiency class).

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

5 Rooms Multi heating

Table with columns: AOHG36L8L5, Combination of Indoor Unit, Heating Capacity (Room 1-5, Total Capacity), Input Power, COP, Seasonal Data (Pdesign, SCOP, Energy efficiency class).

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



Multi Combination Table for 6 Rooms-Cooling

6 Rooms Multi cooling

Table with columns: AOHG45LBLE6, Combination of Indoor Unit, Cooling Capacity (Room 1-6, Total Capacity), Input Power, and EER. It lists various room configurations and their corresponding performance metrics.

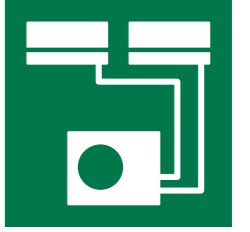
6 Rooms Multi cooling

Table with columns: AOHG45LBLE6, Combination of Indoor Unit, Cooling Capacity (Room 1-6, Total Capacity), Input Power, and EER. This table is a duplicate of the one on the left, listing configurations for 6 rooms.

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



Multi Combination Table for 6 Rooms-Cooling/Heating



6 Rooms Multi cooling

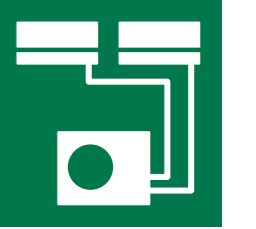
Table for 6 Rooms Multi cooling showing Cooling Capacity, Input Power, and EER for combinations of indoor units (AOHG4SLBLA6).

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

6 Rooms Multi heating

Table for 6 Rooms Multi heating showing Heating Capacity, Input Power, and COP for combinations of indoor units (AOHG4SLBLA6).

# Multi Combination Table for 6 Rooms-Heating

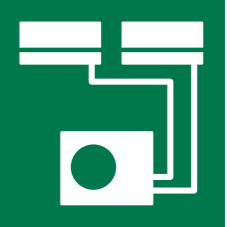


**6 Rooms Multi heating**

A0HG45L6LA6	Combination of Indoor Unit	HEATING OPERATION										Input Power (min-max)	COP
		Heating Capacity											
		Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Total Capacity (min-max)					
kW										kW	kW		
4 Room	12 12 12 12 - - -	3.38	3.38	3.38	3.38	-	13.5 (3.5-16.0)	3.60 (0.7-4.4)	3.75				
	12 12 12 14 - - -	3.24	3.24	3.24	3.78	-	13.5 (3.5-16.0)	3.60 (0.7-4.4)	3.75				
	12 12 12 18 - - -	3.00	3.00	3.00	4.50	-	13.5 (3.5-16.0)	3.58 (0.7-4.4)	3.77				
	12 12 12 24 - - -	2.70	2.70	2.70	5.40	-	13.5 (3.5-16.0)	3.57 (0.7-4.4)	3.78				
	12 12 14 14 - - -	3.12	3.12	3.63	3.63	-	13.5 (3.5-16.0)	3.59 (0.7-4.4)	3.76				
	12 12 14 18 - - -	2.89	2.89	3.38	4.34	-	13.5 (3.5-16.0)	3.58 (0.7-4.4)	3.77				
	12 12 14 24 - - -	2.61	2.61	3.05	5.23	-	13.5 (3.5-16.0)	3.56 (0.7-4.4)	3.79				
	12 12 18 18 - - -	2.70	2.70	4.05	4.05	-	13.5 (3.5-16.0)	3.57 (0.7-4.4)	3.78				
	12 14 14 14 - - -	3.00	3.50	3.50	4.50	-	13.5 (3.5-16.0)	3.58 (0.7-4.4)	3.77				
	12 14 14 18 - - -	2.79	3.26	3.26	3.19	-	13.5 (3.5-16.0)	3.57 (0.7-4.4)	3.78				
	12 14 18 18 - - -	2.61	3.05	3.92	3.92	-	13.5 (3.5-16.0)	3.56 (0.7-4.4)	3.79				
	7 7 7 7 7 - - - -	2.40	2.40	2.40	2.40	2.40	12.0 (3.5-12.7)	2.82 (0.7-3.44)	4.26				
	7 7 7 7 9 - - - -	2.33	2.33	2.33	2.33	2.98	12.3 (3.5-13.5)	3.03 (0.7-3.65)	4.06				
	7 7 7 7 12 - - - -	2.24	2.24	2.24	2.24	3.84	12.8 (3.5-14.5)	3.29 (0.7-3.98)	3.89				
	7 7 7 7 14 - - - -	2.20	2.20	2.20	2.20	4.40	13.2 (3.5-15.3)	3.40 (0.7-4.20)	3.88				
	7 7 7 7 18 - - - -	2.05	2.05	2.05	2.05	5.30	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.87				
	7 7 7 7 24 - - - -	1.82	1.82	1.82	1.82	6.22	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89				
	7 7 7 9 9 - - - -	2.28	2.28	2.28	2.93	2.93	12.7 (3.5-14.2)	3.23 (0.7-3.87)	3.93				
7 7 7 9 12 - - - -	2.20	2.20	2.20	2.83	3.77	13.2 (3.5-15.3)	3.40 (0.7-4.20)	3.88					
7 7 7 9 14 - - - -	2.15	2.15	2.15	2.76	4.29	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.87					
7 7 7 9 18 - - - -	1.97	1.97	1.97	2.53	5.06	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88					
7 7 7 9 24 - - - -	1.75	1.75	1.75	2.25	6.00	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90					
7 7 7 12 12 - - - -	2.10	2.10	2.10	3.60	3.60	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.87					
7 7 7 12 14 - - - -	2.01	2.01	2.01	3.45	4.02	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88					
7 7 7 12 18 - - - -	1.85	1.85	1.85	3.18	4.77	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89					
7 7 7 12 24 - - - -	1.66	1.66	1.66	2.84	5.68	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
7 7 7 14 14 - - - -	1.93	1.93	1.93	3.86	3.86	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88					
7 7 7 14 18 - - - -	1.78	1.78	1.78	3.57	4.59	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89					
7 7 7 14 24 - - - -	1.60	1.60	1.60	3.20	5.50	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
7 7 7 18 18 - - - -	1.66	1.66	1.66	4.26	4.26	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
7 7 9 9 9 - - - -	2.22	2.22	2.85	2.85	2.85	13.0 (3.5-14.9)	3.34 (0.7-4.09)	3.89					
7 7 9 9 12 - - - -	2.15	2.15	2.76	2.76	3.68	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.87					
7 7 9 9 14 - - - -	2.05	2.05	2.64	2.64	4.12	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.87					
7 7 9 9 18 - - - -	1.89	1.89	2.43	2.43	4.86	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88					
7 7 9 9 24 - - - -	1.69	1.69	2.17	2.17	5.78	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90					
7 7 9 12 12 - - - -	2.01	2.01	2.58	3.45	3.45	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88					
7 7 9 12 14 - - - -	1.93	1.93	2.48	3.31	3.85	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88					
7 7 9 12 18 - - - -	1.78	1.78	2.29	3.06	4.59	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89					
7 7 9 12 24 - - - -	1.60	1.60	2.06	2.75	5.49	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
7 7 9 14 14 - - - -	1.85	1.85	2.38	3.71	3.71	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89					
7 7 9 14 18 - - - -	1.72	1.72	2.21	3.44	4.41	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90					
7 7 9 14 24 - - - -	1.55	1.55	1.99	3.10	5.31	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92					
7 7 9 18 18 - - - -	1.60	1.60	2.06	4.12	4.12	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
7 7 12 12 12 - - - -	1.89	1.89	3.24	3.24	3.24	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88					
7 7 12 12 14 - - - -	1.82	1.82	3.12	3.12	3.62	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89					
7 7 12 12 18 - - - -	1.69	1.69	2.89	2.89	4.34	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90					
7 7 12 12 24 - - - -	1.52	1.52	2.61	2.61	5.24	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92					
7 7 12 14 14 - - - -	1.75	1.75	3.00	3.50	3.50	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90					
7 7 12 14 18 - - - -	1.63	1.63	2.79	3.26	4.19	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
7 7 12 18 18 - - - -	1.52	1.52	2.62	3.82	3.82	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92					
7 9 9 9 9 - - - -	1.68	1.68	3.38	3.38	3.38	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90					
7 9 9 9 12 - - - -	1.58	1.58	3.15	3.15	4.04	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
7 9 9 9 14 - - - -	1.58	1.58	3.15	3.15	4.04	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
7 9 9 9 18 - - - -	1.28	1.28	2.78	2.78	2.78	13.3 (3.5-15.6)	3.44 (0.7-4.30)	3.87					
7 9 9 9 24 - - - -	1.05	1.05	2.64	2.64	3.53	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.87					
7 9 9 9 9 9 - - - -	1.97	2.53	2.53	3.94	3.94	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88					
7 9 9 9 9 12 - - - -	1.82	2.34	2.34	3.44	4.66	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89					
7 9 9 9 9 14 - - - -	1.63	2.09	2.09	2.09	5.60	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
7 9 9 9 9 18 - - - -	1.92	2.48	2.48	3.31	3.31	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88					
7 9 9 9 12 12 - - - -	1.85	2.38	2.38	3.71	3.71	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89					
7 9 9 9 12 14 - - - -	1.72	2.21	2.21	2.95	4.41	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90					
7 9 9 9 12 18 - - - -	1.55	1.99	1.99	2.66	5.31	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92					
7 9 9 9 14 14 - - - -	1.78	2.29	2.29	3.57	3.57	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89					
7 9 9 9 14 18 - - - -	1.66	2.13	2.13	3.32	4.26	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
7 9 9 9 18 18 - - - -	1.56	1.99	1.99	3.98	3.98	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92					
7 9 12 12 12 - - - -	1.82	2.32	3.12	3.12	3.12	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89					
7 9 12 12 14 - - - -	1.75	2.25	3.00	3.00	3.50	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90					
7 9 12 12 18 - - - -	1.63	2.09	2.79	2.79	4.20	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
7 9 12 14 14 - - - -	1.65	2.17	2.88	3.38	3.38	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90					
7 9 12 14 18 - - - -	1.58	2.03	2.70	3.15	4.04	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
7 9 14 14 14 - - - -	1.63	2.09	3.26	3.26	3.26	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
7 9 14 14 18 - - - -	1.52	1.96	3.05	3.05	3.92	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92					
7 12 12 12 12 - - - -	1.70	2.95	2.95	2.95	2.95	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90					
7 12 12 12 14 - - - -	1.66	2.84	2.84	2.84	3.32	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
7 12 12 12 18 - - - -	1.55	2.66	2.66	2.66	3.97	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92					
7 12 12 14 14 - - - -	1.60	2.75	2.75	3.20	3.20	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
7 12 14 14 14 - - - -	1.55	2.65	3.10	3.10	3.10	13.5 (3.5-16.0)	3.44 (0.7-4.4)	3.92					
9 9 9 9 9 - - - -	2.70	2.70	2.70	2.70	2.70	13.5 (3.5-16.0)	3.49 (0.7-4.4)	3.87					
9 9 9 9 12 - - - -	2.53	2.53	2.53	3.38	3.38	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88					
9 9 9 9 14 - - - -	2.43	2.43	2.43	2.43	3.78	13.5 (3.5-16.0)	3.48 (0.7-4.4)	3.88					
9 9 9 9 18 - - - -	2.25	2.25	2.25	2.25	4.50	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90					
9 9 9 9 24 - - - -	2.03	2.03	2.03	2.03	5.38	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
9 9 9 12 12 - - - -	2.38	2.38	2.38	3.18	3.18	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89					
9 9 9 12 14 - - - -	2.29	2.29	2.29	3.06	3.57	13.5 (3.5-16.0)	3.47 (0.7-4.4)	3.89					
9 9 9 12 18 - - - -	2.13	2.13	2.13	2.84	4.27	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
9 9 9 14 14 - - - -	2.21	2.21	2.21	3.44	3.44	13.5 (3.5-16.0)	3.46 (0.7-4.4)	3.90					
9 9 9 14 18 - - - -	2.06	2.06	2.06	3.20	4.12	13.5 (3.5-16.0)	3.45 (0.7-4.4)	3.91					
9 9 12 12 12 - - - -	2.25	3.00	3										



Multi Combination Table for 8 Rooms-Cooling/Heating



8 Rooms Multi cooling

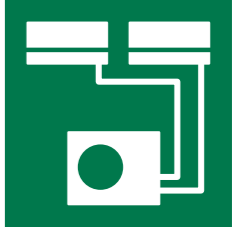
Table with columns: AOHG45LB8, Combination of Indoor Unit, Room 1-8, Total, Input power. Rows show combinations of room sizes (e.g., 24x24, 18x18) and their corresponding cooling capacities and input powers.

Note: \*Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature)
•Pipe Length: 5 m (Outdoor unit to Branch box), 3 m (Branch box to Indoor unit)
•Height difference: 0 m (Outdoor unit to Indoor unit)
•The values in this table should be used only as a guide. These values are calculated at standard conditions.
To fix your selection of models, select them according to "Model Selection" in the D&T manual.
\*1: LMC type is not available for this combination.

8 Rooms Multi cooling

Table with columns: AOHG45LB8, Combination of Indoor Unit, Room 1-8, Total, Input power. Rows show combinations of room sizes (e.g., 7x7, 12x12) and their corresponding cooling capacities and input powers.

Note: \*Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature)
•Pipe Length: 5 m (Outdoor unit to Branch box), 3 m (Branch box to Indoor unit)
•Height difference: 0 m (Outdoor unit to Indoor unit)
•The values in this table should be used only as a guide. These values are calculated at standard conditions.
To fix your selection of models, select them according to "Model Selection" in the D&T manual.



# Multi Combination Table for 8 Rooms–Cooling/Heating

### 8 Rooms Multi cooling

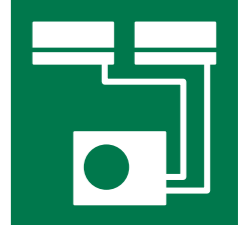
A0HG4SLB8	Combination of Indoor Unit		COOLING OPERATION									
			Cooling Capacity								Total	Input power
			Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8		
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW	
6	Room	7 9 9 9 9 18 - -	1.79	2.30	2.30	2.30	2.30	4.59	-	-	15.57	5.88
		7 9 9 9 9 12 - -	1.93	2.49	2.49	2.49	2.49	3.32	-	-	15.22	5.90
		7 9 9 9 9 - -	2.05	2.64	2.64	2.64	2.64	2.64	-	-	15.25	5.79
		7 7 12 12 12 12 - -	1.77	1.77	3.04	3.04	3.04	3.04	-	-	15.69	5.87
		7 7 9 12 12 14 - -	1.79	1.79	2.30	3.07	3.07	3.57	-	-	15.57	5.88
		7 7 9 12 12 12 - -	1.82	1.82	2.34	3.12	3.12	3.12	-	-	15.34	5.89
		7 7 9 14 14 - -	1.80	1.80	2.32	2.32	3.60	3.60	-	-	15.45	5.89
		7 7 9 12 18 - -	1.77	1.77	2.28	2.28	3.04	4.55	-	-	15.69	5.87
		7 7 9 9 12 14 - -	1.83	1.83	2.36	2.36	3.15	3.67	-	-	15.21	5.90
		7 7 9 9 12 12 - -	1.92	1.92	2.47	2.47	3.30	3.30	-	-	15.38	5.90
		7 7 9 9 9 18 - -	1.82	1.82	2.34	2.34	2.34	4.67	-	-	15.33	5.89
		7 7 9 9 9 14 - -	1.93	1.93	2.49	2.49	3.87	-	-	-	15.21	5.90
		7 7 9 9 9 12 - -	1.96	1.96	2.53	2.53	2.53	3.37	-	-	14.88	5.90
		7 7 9 9 9 - -	2.05	2.05	2.64	2.64	2.64	2.64	-	-	14.66	5.50
		7 7 7 12 14 14 - -	1.79	1.79	1.79	3.07	3.57	-	-	-	15.57	5.88
		7 7 7 12 12 14 - -	1.82	1.82	1.82	3.12	3.12	3.64	-	-	15.33	5.89
		7 7 7 9 14 18 - -	1.91	1.91	1.91	3.28	3.28	3.28	-	-	15.55	5.90
		7 7 7 9 14 18 - -	1.77	1.77	1.77	2.28	3.54	4.55	-	-	15.68	5.87
		7 7 7 9 14 14 - -	1.84	1.84	1.84	2.36	3.67	3.67	-	-	15.21	5.90
		7 7 7 9 12 18 - -	1.80	1.80	1.80	2.32	3.09	4.63	-	-	15.45	5.89
		7 7 7 9 12 14 - -	1.92	1.92	1.92	2.47	3.30	3.84	-	-	15.38	5.90
		7 7 7 9 12 12 - -	1.95	1.95	1.95	2.51	3.35	3.35	-	-	15.05	5.90
		7 7 7 9 9 18 - -	1.91	1.91	1.91	2.46	4.90	-	-	-	15.54	5.90
		7 7 7 9 9 14 - -	1.96	1.96	1.96	2.53	2.53	3.93	-	-	14.87	5.90
		7 7 7 9 9 12 - -	2.05	2.05	2.05	2.64	2.64	3.52	-	-	14.95	5.65
		7 7 7 9 9 - -	2.05	2.05	2.05	2.64	2.64	2.64	-	-	14.07	5.20
		7 7 7 7 14 18 - -	1.80	1.80	1.80	1.80	3.60	4.63	-	-	15.45	5.89
		7 7 7 7 14 14 - -	1.92	1.92	1.92	1.92	3.84	3.84	-	-	15.37	5.90
		7 7 7 7 12 18 - -	1.84	1.84	1.84	1.84	3.15	4.72	-	-	15.21	5.90
		7 7 7 7 12 14 - -	1.95	1.95	1.95	1.95	3.35	3.90	-	-	15.04	5.90
		7 7 7 7 12 12 - -	2.05	2.05	2.05	2.05	3.52	3.52	-	-	15.24	5.79
		7 7 7 7 9 24 - -	1.79	1.79	1.79	1.79	2.30	6.12	-	-	15.57	5.88
		7 7 7 7 9 18 - -	1.93	1.93	1.93	1.93	2.49	4.97	-	-	15.21	5.90
		7 7 7 7 9 14 - -	2.05	2.05	2.05	2.05	2.64	4.10	-	-	14.94	5.65
		7 7 7 7 9 12 - -	2.05	2.05	2.05	2.05	2.64	3.52	-	-	14.36	5.35
7 7 7 7 9 - -	2.05	2.05	2.05	2.05	2.64	2.64	-	-	13.68	4.89		
7 7 7 7 7 24 - -	1.82	1.82	1.82	1.82	1.82	6.24	-	-	15.33	5.89		
7 7 7 7 7 18 - -	1.96	1.96	1.96	1.96	1.96	5.05	-	-	14.87	5.90		
7 7 7 7 7 14 - -	2.05	2.05	2.05	2.05	2.05	4.10	-	-	14.35	5.35		
7 7 7 7 7 12 - -	2.05	2.05	2.05	2.05	2.05	3.52	-	-	13.77	5.05		
7 7 7 7 7 9 - -	2.05	2.05	2.05	2.05	2.05	2.64	-	-	12.89	4.57		
7 7 7 7 7 7 - -	2.05	2.05	2.05	2.05	2.05	2.05	-	-	12.30	4.24		
7 9 9 9 9 9 - -	1.78	2.30	2.30	2.30	2.30	2.30	2.30	-	15.57	5.88		
7 7 9 9 9 12 - -	1.77	1.77	2.28	2.28	2.28	2.28	3.04	-	15.69	5.87		
7 7 9 9 9 9 - -	1.82	1.82	2.34	2.34	2.34	2.34	-	-	15.34	5.89		
7 7 9 9 9 9 14 - -	1.77	1.77	2.28	2.28	2.28	3.54	-	-	15.69	5.87		
7 7 7 9 9 9 12 - -	1.80	1.80	1.80	2.32	2.32	2.32	3.09	-	15.45	5.89		
7 7 7 9 9 9 9 - -	1.91	1.91	1.91	2.46	2.46	2.46	2.46	-	15.55	5.90		
7 7 7 7 9 12 12 - -	1.79	1.79	1.79	1.79	2.30	3.07	3.07	-	15.57	5.88		
7 7 7 7 9 9 14 - -	1.80	1.80	1.80	2.32	2.32	3.60	-	-	15.45	5.89		
7 7 7 7 9 9 12 - -	1.83	1.83	1.83	2.36	2.36	3.15	-	-	15.21	5.90		
7 7 7 7 9 9 9 - -	1.93	1.93	1.93	2.49	2.49	2.49	-	-	15.21	5.90		
7 7 7 7 7 12 14 - -	1.79	1.79	1.79	1.79	3.07	3.57	-	-	15.57	5.88		
7 7 7 7 7 12 12 - -	1.82	1.82	1.82	1.82	3.12	3.12	-	-	15.33	5.89		
7 7 7 7 7 9 18 - -	1.77	1.77	1.77	1.77	2.28	4.55	-	-	15.68	5.87		
7 7 7 7 7 9 14 - -	1.84	1.84	1.84	1.84	2.36	3.67	-	-	15.21	5.90		
7 7 7 7 7 9 12 - -	1.92	1.92	1.92	1.92	2.47	3.30	-	-	15.38	5.90		
7 7 7 7 7 9 9 - -	1.96	1.96	1.96	1.96	2.53	2.53	-	-	14.87	5.90		
7 7 7 7 7 7 18 - -	1.80	1.80	1.80	1.80	1.80	4.63	-	-	15.45	5.89		
7 7 7 7 7 7 14 - -	1.92	1.92	1.92	1.92	1.92	3.84	-	-	15.37	5.90		
7 7 7 7 7 7 12 - -	1.95	1.95	1.95	1.95	1.95	3.35	-	-	15.04	5.90		
7 7 7 7 7 7 9 - -	2.05	2.05	2.05	2.05	2.05	2.64	-	-	14.94	5.65		
7 7 7 7 7 7 7 - -	2.05	2.05	2.05	2.05	2.05	2.05	-	-	14.35	5.35		
7 7 7 7 7 7 9 9 - -	1.77	1.77	1.77	1.77	2.28	2.28	2.28	-	15.69	5.87		
7 7 7 7 7 7 9 9 9 - -	1.80	1.80	1.80	1.80	1.80	1.80	2.32	2.32	15.45	5.89		
7 7 7 7 7 7 7 12 - -	1.79	1.79	1.79	1.79	1.79	3.07	3.07	-	15.57	5.88		
7 7 7 7 7 7 7 9 - -	1.84	1.84	1.84	1.84	1.84	1.84	2.36	-	15.21	5.90		
7 7 7 7 7 7 7 7 7 - -	1.92	1.92	1.92	1.92	1.92	1.92	1.92	-	15.37	5.90		

Note: \*Cooling capacity is based on 27°CDB/19°CWB (indoor temperature), 35°CDB (outdoor temperature)  
 •Pipe Length: 5 m (Outdoor unit to Branch box), 3 m (Branch box to Indoor unit)  
 •Height difference: 0 m (Outdoor unit to Indoor unit)  
 •The values in this table should be used only as a guide. These values are calculated at standard conditions.  
 To fix your selection of models, select them according to "Model Selection" in the D&T manual.

### 8 Rooms Multi heating

A0HG4SLB8	Combination of Indoor Unit		HEATING OPERATION										
			Heating Capacity								Total	Input power	
			Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8			
		kW	kW	kW	kW	kW	kW	kW	kW	kW	kW		
2	Room	24 24 - - - - -	7.91	7.91	-	-	-	-	-	-	-	15.82	5.07
		18 24 - - - - -	5.86	7.91	-	-	-	-	-	-	-	13.77	4.21
		18 18 24 - - - - -	5.32	5.32	7.18	-	-	-	-	-	-	17.82	5.98
		18 18 18 - - - - -	5.79	5.79	5.79	-	-	-	-	-	-	17.38	5.43
		14 24 24 - - - - -	4.26	7.02	7.02	-	-	-	-	-	-	18.31	5.98
		14 18 24 - - - - -	4.59	5.61	7.57	-	-	-	-	-	-	17.77	5.70
		14 18 18 - - - - -	4.78	5.84	5.84	-	-	-	-	-	-	16.46	5.11
		14 14 24 - - - - -	4.75	4.75	7.82	-	-	-	-	-	-	17.52	5.23
		14 14 18 - - - - -	4.80	4.80	5.86	-	-	-	-	-	-	15.46	4.75
		14* 14* 14* - - - - -	4.80	4.80	4.80	-	-	-	-	-	-	14.40	4.21
		12 24 24 - - - - -	3.58	7.15	7.15	-	-	-	-	-	-	17.89	5.98
		12 18 24 - - - - -	3.84	5.68	7.67	-	-	-	-	-	-	17.19	5.43
		12 18 18 - - - - -	3.96	5.86	5.86	-	-	-	-	-	-	15.68	5.07
		12 14 24 - - - - -	3.94	4.78	7.87	-	-	-	-	-	-	16.59	5.11
		12 14 18 - - - - -	3.96	4.80	5.86	-	-	-	-	-	-	14.62	4.46
12* 14* 14* - - - - -	3.96	4.80	4.80	-	-	-	-	-	-	13.56	4.00		
12 12 24 - - - - -	3.96	3.96	7.91	-	-	-	-	-	-	15.83	5.07		
12 12 18 - - - - -	3.96	3.96	5.86	-	-	-	-	-	-	13.78	4.21		
9 24 24 - - - - -	2.85	7.54	7.54	-	-	-	-	-	-	17.93	5.87		
9 18 24 - - - - -	2.97	5.83	7.87	-	-	-	-	-	-	16.67	5.16		
9 18 18 - - - - -	2.99	5.86	5.86	-	-	-	-	-	-	14.71	4.60		
9 14 24 - - - - -	2.99	4.80	7.91	-	-	-	-	-	-	15.70	4.91		
9 14 18 - - - - -	2.99	4.80	5.86	-	-	-	-	-	-	13.65	4.10		
9 12 24 - - - - -	2.99	3.96	7.91	-	-	-	-	-	-	14.86	4.60		
9 12 18 - - - - -	2.99	3.96	5.86	-	-	-	-	-	-	12.81	3.90		
9 9 24 - - - - -	2.99	2.99	7.91	-	-	-	-	-	-	13.89	4.21		
7 24 24 - - - - -	2.28	7.61	7.61	-	-	-	-	-	-	17.51	5.56		
7 18 24 - - - - -	2.37	5.85	7.90	-	-	-	-	-	-	16.12	5.08		
7 18 18 - - - - -	2.37	5.86	5.86	-	-	-	-	-	-	14.09	4.33		
7 14 24 - - - - -	2.37	4.80	7.91	-	-	-	-	-	-	15.08	4.60		
7 14 18 - - - - -	2.37	4.80	5.86	-	-	-	-	-	-	13.03	3.90		
7 12 24 - - - - -	2.37	3.96	7.91	-	-	-	-	-	-	14.24	4.33		
7 9 24 - - - - -	2.37	2.99	7.91	-	-	-	-	-	-	13.27	4.00		
14 14 14 18 - - - -	4.30	4.30	4.30	5.24	-	-	-	-	-	18.13	5.98		
14 14 14 14 - - - -	4.55	4.55	4.55	4.55	-	-	-	-	-	18.20	5.98		
12 14 18 18 - - - -	3.53	4.28	5.22	5.22	-	-	-	-	-	18.24	5.98		
12 14 14 18 - - - -	3.61	4.38	4.38	5.34	-	-	-	-	-	17.71	5.98		
12 14 14 14 - - - -	3.80	4.61	4.61	4.61	-	-	-	-	-	17.62	5.43		
12 12 18 18 - - - -	3.59	3.59	5.32	5.32	-	-	-	-	-	17.82	5.98		
12 12 14 24 - - - -	3.52	3.52	4.26	7.02	-	-	-	-	-				



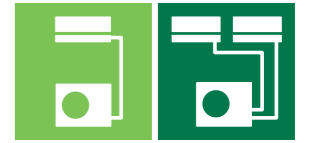


# Multi Combination Table for 8 Rooms-Heating

## 8 Rooms Multi heating

AOHG45LBT8	Combination of Indoor Unit								HEATING OPERATION											
									Heating Capacity								Total	Input power		
	Room 1	Room 2	Room 3	Room 4	Room 5	Room 6	Room 7	Room 8	kW	kW										
4 Room	7	7	14	18	-	-	-	-	2.37	2.37	4.80	5.86	-	-	-	-	-	-	15.40	4.75
	7	7	14	14	-	-	-	-	2.37	2.37	4.80	4.80	-	-	-	-	-	-	14.34	4.21
	7	7	12	24	-	-	-	-	2.36	2.36	3.94	7.87	-	-	-	-	-	-	16.53	5.11
	7	7	12	18	-	-	-	-	2.37	2.37	3.96	5.86	-	-	-	-	-	-	14.56	4.46
	7	7	12	14	-	-	-	-	2.37	2.37	3.96	4.80	-	-	-	-	-	-	13.50	4.00
	7	7	9	24	-	-	-	-	2.37	2.37	2.99	7.91	-	-	-	-	-	-	15.64	4.91
	7	7	9	18	-	-	-	-	2.37	2.37	2.99	5.86	-	-	-	-	-	-	13.59	4.10
	7	7	9	14	-	-	-	-	2.37	2.37	2.99	7.91	-	-	-	-	-	-	15.02	4.60
	7	7	9	12	-	-	-	-	2.37	2.37	2.37	5.86	-	-	-	-	-	-	12.97	3.90
	12	12	12	14	-	-	-	-	3.51	3.51	3.51	4.26	-	-	-	-	-	-	18.32	5.98
	12	12	12	12	-	-	-	-	3.58	3.58	3.58	3.58	-	-	-	-	-	-	17.90	5.98
	9	12	12	14	-	-	-	-	2.66	3.52	3.52	4.27	-	-	-	-	-	-	18.26	5.98
	9	12	12	14	-	-	-	-	2.71	3.59	3.59	4.35	-	-	-	-	-	-	17.84	5.98
	9	12	12	12	-	-	-	-	2.85	3.77	3.77	3.77	-	-	-	-	-	-	17.95	5.87
	9	9	14	14	-	-	-	-	2.67	2.67	4.28	4.28	-	-	-	-	-	-	18.19	5.98
	9	9	14	18	-	-	-	-	2.66	2.66	3.52	4.26	-	-	-	-	-	-	18.30	5.98
	9	9	12	14	-	-	-	-	2.72	2.72	3.60	4.37	-	-	-	-	-	-	17.77	5.98
	9	9	12	18	-	-	-	-	2.71	2.71	3.58	3.58	-	-	-	-	-	-	17.88	5.98
	9	9	12	14	-	-	-	-	2.86	2.86	3.78	4.58	-	-	-	-	-	-	17.86	5.70
	9	9	12	12	-	-	-	-	2.89	2.89	3.83	3.83	-	-	-	-	-	-	17.28	5.43
9	9	9	14	-	-	-	-	2.71	2.71	2.71	4.36	-	-	-	-	-	-	17.82	5.98	
9	9	9	14	-	-	-	-	2.86	2.86	2.86	4.59	-	-	-	-	-	-	17.77	5.56	
9	9	9	12	-	-	-	-	2.85	2.85	2.85	3.78	-	-	-	-	-	-	17.92	5.87	
9	9	9	12	-	-	-	-	2.90	2.90	2.90	3.84	-	-	-	-	-	-	17.19	5.32	
9	9	9	12	-	-	-	-	2.97	2.97	2.97	3.93	-	-	-	-	-	-	16.78	5.16	
9	9	9	24	-	-	-	-	2.70	2.70	2.70	2.70	-	-	-	-	-	-	17.94	5.98	
9	9	9	18	-	-	-	-	2.89	2.89	2.89	2.89	-	-	-	-	-	-	17.25	5.43	
9	9	9	14	-	-	-	-	2.97	2.97	2.97	2.97	-	-	-	-	-	-	16.67	5.11	
9	9	9	9	-	-	-	-	2.99	2.99	2.99	3.96	-	-	-	-	-	-	15.92	5.07	
9	9	9	9	-	-	-	-	2.99	2.99	2.99	2.99	-	-	-	-	-	-	14.95	4.60	
7	12	14	14	-	-	-	-	2.10	3.51	4.25	4.25	-	-	-	-	-	-	18.37	5.98	
7	12	12	14	-	-	-	-	2.14	3.57	3.57	4.33	-	-	-	-	-	-	17.95	5.98	
7	12	12	18	-	-	-	-	2.13	3.56	3.56	3.56	-	-	-	-	-	-	18.06	5.98	
7	12	12	12	-	-	-	-	2.25	3.76	3.76	3.76	-	-	-	-	-	-	18.10	5.87	
7	12	12	12	-	-	-	-	2.28	3.81	3.81	3.81	-	-	-	-	-	-	17.52	5.56	
7	9	14	14	-	-	-	-	2.09	2.84	4.24	4.24	-	-	-	-	-	-	18.40	5.98	
7	9	14	14	-	-	-	-	2.14	2.71	4.34	4.34	-	-	-	-	-	-	17.88	5.98	
7	9	12	14	-	-	-	-	2.13	2.69	3.57	4.32	-	-	-	-	-	-	17.99	5.98	
7	9	12	14	-	-	-	-	2.26	2.85	3.77	4.57	-	-	-	-	-	-	18.01	5.70	
7	9	12	18	-	-	-	-	2.25	2.84	3.76	3.76	-	-	-	-	-	-	18.16	5.98	
7	9	12	14	-	-	-	-	2.28	2.88	3.82	3.82	-	-	-	-	-	-	17.43	5.43	
7	9	12	12	-	-	-	-	2.35	2.96	3.92	3.92	-	-	-	-	-	-	17.09	5.23	
7	9	9	18	-	-	-	-	2.13	2.69	3.69	5.27	-	-	-	-	-	-	18.04	5.98	
7	9	9	14	-	-	-	-	2.25	2.84	3.84	5.57	-	-	-	-	-	-	18.07	5.87	
7	9	9	14	-	-	-	-	2.29	2.89	2.89	4.64	-	-	-	-	-	-	17.34	5.23	
7	9	9	12	-	-	-	-	2.12	2.68	2.68	3.55	-	-	-	-	-	-	18.11	5.98	
7	9	9	12	-	-	-	-	2.28	2.88	2.88	3.81	-	-	-	-	-	-	17.49	5.56	
7	9	9	12	-	-	-	-	2.35	2.97	2.97	3.93	-	-	-	-	-	-	16.97	5.16	
7	9	9	12	-	-	-	-	2.37	2.98	2.98	3.95	-	-	-	-	-	-	16.24	5.08	
7	9	9	9	-	-	-	-	2.17	2.74	2.74	2.74	-	-	-	-	-	-	17.63	5.98	
7	9	9	9	-	-	-	-	2.35	2.96	2.96	2.96	-	-	-	-	-	-	17.05	5.23	
7	9	9	9	-	-	-	-	2.37	2.99	2.99	4.79	-	-	-	-	-	-	16.12	5.07	
7	9	9	9	-	-	-	-	2.37	2.99	2.99	3.96	-	-	-	-	-	-	15.30	4.75	
7	9	9	9	-	-	-	-	2.37	2.99	2.99	2.99	-	-	-	-	-	-	14.33	4.33	
7	7	14	14	-	-	-	-	2.12	2.12	4.30	5.25	-	-	-	-	-	-	18.10	5.98	
7	7	14	14	-	-	-	-	2.25	2.25	4.55	4.55	-	-	-	-	-	-	18.16	5.70	
7	7	12	18	-	-	-	-	2.11	3.53	5.23	5.23	-	-	-	-	-	-	18.21	5.98	
7	7	12	14	-	-	-	-	2.16	2.16	3.62	4.38	-	-	-	-	-	-	17.68	5.98	
7	7	12	14	-	-	-	-	2.28	2.28	3.80	4.61	-	-	-	-	-	-	17.58	5.43	
7	7	12	24	-	-	-	-	2.11	2.11	3.52	3.52	-	-	-	-	-	-	18.29	5.98	
7	7	12	14	-	-	-	-	2.35	2.35	3.92	4.75	-	-	-	-	-	-	17.28	5.23	
7	7	12	12	-	-	-	-	2.36	3.94	3.94	3.94	-	-	-	-	-	-	16.54	5.11	
7	7	9	18	-	-	-	-	2.16	2.16	2.72	5.34	-	-	-	-	-	-	17.73	5.98	
7	7	9	14	-	-	-	-	2.11	2.11	2.67	4.28	-	-	-	-	-	-	18.22	5.98	
7	7	9	14	-	-	-	-	2.27	2.27	2.87	4.61	-	-	-	-	-	-	17.64	5.56	
7	7	9	14	-	-	-	-	2.35	2.35	2.96	4.75	-	-	-	-	-	-	17.16	5.16	
7	7	9	12	-	-	-	-	2.15	2.15	2.72	3.60	-	-	-	-	-	-	17.80	5.98	
7	7	9	12	-	-	-	-	2.34	2.34	2.96	3.92	-	-	-	-	-	-	17.36	5.32	
7	7	9	12	-	-	-	-	2.36	2.36	2.98	3.95	-	-	-	-	-	-	16.43	5.08	
7	7	9	12	-	-	-	-	2.37	2.37	2.99	3.96	-	-	-	-	-	-	15.65	4.91	
7	7	9	12	-	-	-	-	2.27	2.27	2.86	3.96	-	-	-	-	-	-	17.81	5.70	
7	7	9	9	-	-	-	-	2.36	2.36	2.98	2.98	-	-	-	-	-	-	16.51	5.11	
7	7	9	9	-	-	-	-	2.37	2.37	2.99	2.99	-	-	-	-	-	-	15.52	4.75	
7	7	9	9	-	-	-	-	2.37	2.37	2.99	3.96	-	-	-	-	-	-	14.68	4.46	
7	7	9	9	-	-	-	-	2.37	2.37	2.99	2.99	-	-	-	-	-	-	13.71	4.10	
7	7	7	18	-	-	-	-	2.26	2.26	2.26	5.58	-	-	-	-	-	-	17.95	5.87	
7	7	7	14	-	-	-	-	2.14	2.14	2.14	4.34	-	-	-	-	-	-	17.91	5.98	
7	7	7	14	-	-	-	-	2.30	2.30	2.30	4.65	-	-	-	-	-	-	17.22	5.32	
7	7	7	14	-	-	-	-	2.36	2.36	2.36	4.77	-	-	-	-	-	-	16.62	5.08	
7	7	7	12	-	-	-	-	2.25	2.25	2.25	3.77	-	-	-	-	-	-	18.05	5.87	
7	7	7	12	-	-	-	-	2.35	2.35	2.35	3.93	-	-	-	-	-	-	16.81	5.16	
7	7	7	12	-	-	-	-	2.37	2.37	2.37	3.96	-	-	-	-	-	-	15.87	4.91	
7	7	7	12	-	-	-	-	2.37	2.37	2.37	3.96	-	-	-	-	-	-	15.03	4.60	
7	7	7	9	-	-	-	-	2.29	2.29	2.29	2.89	-	-	-	-	-	-	17.38	5.43	
7	7	7	9	-	-	-	-	2.37	2.37	2.37	2.99	-	-	-	-	-	-	15.96	5.07	
7	7	7	9	-	-	-	-	2.37	2.37	2.37	2.99	-	-	-	-	-	-	14.90	4.46	
7	7	7	9	-	-	-	-	2.37	2.37	2.37	2.99	-	-	-	-	-	-	14.06	4.21	
7	7	7	9	-	-	-	-	2.37	2.37	2.37	2.99	-	-	-	-	-	-	13.09	3.90	
7	7	7	24	-	-	-	-													

# SPLIT/MULTI SPLIT Optional Parts List/Function List



## Controllers/Others

Type	Indoor unit										Outdoor unit	Other
	Wall Mounted							Floor	Duct		Single Phase	Branch Box (8 Rooms Multi)
	Flagship Range	Designer Range			Standard Range	ECO Range	Mini (With drain pump)		Slim (With drain pump)	5-6 Rooms Multi		
ASHG09/12 KXCA	ASHG07/09/12/14KGTA	ASHG09/12 LTCA	ASHG07/09/12/14LUCA	ASHG07/09/12/14LMCA	ASHG18/30LFCA, ASHG24LFCC	ASHG07/09/12 LLCC	AGHG09/12/14 LVCA	ARHG12/14/18 LSLAP	ARHG12/14/18 14LLTB	AOHG36LBLA5, AOHG45LBLA6	UTP-PY03A, UTP-PY02A	
Wired Remote Controller		● UTY-RNRG22 <sup>*1</sup>						● UTY-RNRG22				
		● UTY-RLRG <sup>*1</sup>						● UTY-RLRG				
					● UTY-RVNGM			● UTY-RVNGM				
					● UTY-RNNGM			● UTY-RNNGM				
Simple Remote Controller	2-wire type	● UTY-RSRG <sup>*1</sup>			● UTY-RSNGM		● UTY-RSNGM	● UTY-RSNGM, UTY-RSRG	● UTY-RSNGM			
	3-wire type											
Central Remote Controller											● UTY-DMMGM	
Others	IR Receiver Unit							● UTY-LBTGM				
	Remote Sensor Unit							● UTY-XSZX				
	Auto Louver Grille Kit							● UTD-GXTA-W, UTD-GXTB-W (18)				
	Half Concealed Kit							● UTR-STA				

\*1: New communication kit is required for connection. (Tentative)

## Interface

Type	Indoor unit										Outdoor unit
	Wall Mounted							Floor	Duct		Single Phase
	Flagship Range	Designer Range			Standard Range	ECO Range	Mini (With drain pump)		Slim (With drain pump)		
ASHG09/12 KXCA	ASHG07/09/12/14KGTA	ASHG09/12 LTCA	ASHG07/09/12/14LUCA	ASHG07/09/12/14LMCA	ASHG18/30LFCA, ASHG24LFCC	ASHG07/09/12 LLCC	AGHG09/12/14 LVCA	ARHG12/14/18 LSLAP	ARHG12/14/18 14LLTB	AOHG36LBLA5, AOHG45LBLA6	
Wireless LAN Interface		● <sup>*2</sup>			● UTY-TFNXZ1		● UTY-TFNXZ1	● UTY-TFSXZ1	● UTY-TFNXZ1		
					● 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								● UTY-VMX			
MODBUS Interface					● FJ-RC-MBS-1		● FJ-RC-MBS-1		● FJ-RC-MBS-1		
External Switch Controller								● UTY-TERX			

\*2: New Wireless LAN Interface can be connected. (Tentative)

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

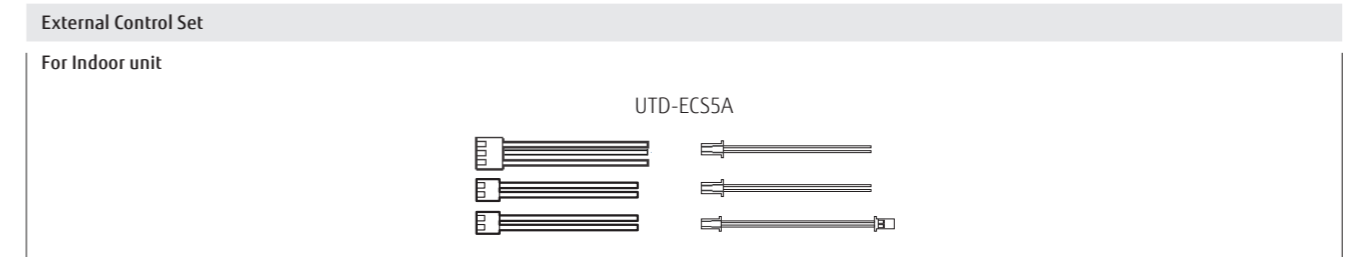
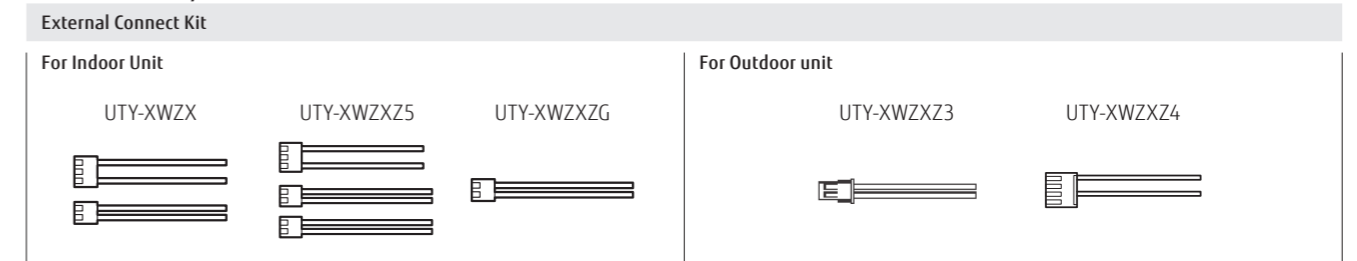
Type	Indoor unit										Outdoor unit
	Wall Mounted							Floor	Duct		Single Phase
	Flagship Range	Designer Range			Standard Range	ECO Range	Mini (With drain pump)		Slim (With drain pump)		
ASHG09/12 KXCA	ASHG07/09/12/14KGTA	ASHG09/12 LTCA	ASHG07/09/12/14LUCA	ASHG07/09/12/14LMCA	ASHG18/30LFCA, ASHG24LFCC	ASHG07/09/12 LLCC	AGHG09/12/14 LVCA	ARHG12/14/18 LSLAP	ARHG12/14/18 14LLTB	AOHG45LBLA6	
Input	Operation / Stop	● UTY-XCSXZ1 <sup>*3</sup>	● UTY-XWZXZ5 + UTY-TWBXF	● UTY-XWZXZ5 + UTY-XCBXZ2	● UTY-XWZX		● UTY-XWZX	● PCB Terminal	● UTD-ECSSA		
	Batch Stop									● UTY-XWZXZ3	
	Forced Stop	● UTY-XCSXZ1 <sup>*3</sup>	● UTY-XWZXZ5 + UTY-TWBXF	● UTY-XWZXZ5 + UTY-XCBXZ2	● UTY-XWZX			● UTY-XWZX	● PCB Terminal	● UTD-ECSSA	
	Emergency Stop										● UTY-XWZXZ3
	Low Noise Mode Operation										● UTY-XWZXZ3
	Cooling / Heating Priority										● UTY-XWZXZ3
Output	Outdoor Unit Operation Peak Control										● UTY-XWZXZ3
	Operation Status	● UTY-XCSXZ1 <sup>*3</sup>	○ UTY-XWZXZ5 + UTY-TWBXF	○ UTY-XWZXZ5 + UTY-XCBXZ2	○ UTY-XWZX		○ UTY-XWZX	● UTY-XWZXZG	○ UTD-ECSSA		
	Error Status	● UTY-XCSXZ1 <sup>*3</sup>	○ UTY-XWZXZ5 + UTY-TWBXF	○ UTY-XWZXZ5 + UTY-XCBXZ2				● UTY-XWZXZG		○ UTY-XWZXZ3	
	Compressor status	● UTY-XCSXZ1 <sup>*3</sup>								○ UTY-XWZXZ3	
	Indoor Unit Fun Operation Status							● UTY-XWZXZG	● UTD-ECSSA		
	Auxiliary Heater Output							● UTY-XWZXZG	● UTD-ECSSA		
Base Heater										● UTY-XWZXZ4	

\*3: (Tentative) ●: Dry Contact ○: Apply Voltage

## Communication Kit



## Communication system





# CONTROL SYSTEM

216 Best Control Solution for Each Property

218 OVERVIEW

For LIGHT COMMERCIAL/COMMERCIAL

For RESIDENTIAL

222 Comparison Table of Controllers

## INDIVIDUAL CONTROL

224 Wired Remote Controller (Touch Panel)

225 Wired Remote Controller

227 Simple Remote Controller

228 Wireless Remote Controller

IR Receiver Unit

## CENTRALIZED CONTROL

229 Group Remote Controller/Network Convertor

230 Central Remote Controller

231 Central Remote Controller for 5-6 Rooms Multi, 8 Rooms Multi

232 Touch Panel Controller

236 System Controller

System Controller Lite

## CONVERTOR/ADAPTOR

240 BACnet® Gateway

241 BACnet® Gateway **Hardware**

Network Convertor for LONWORKS®

242 MODBUS® Convertor

243 MODBUS® Interface

244 KNX® Convertor

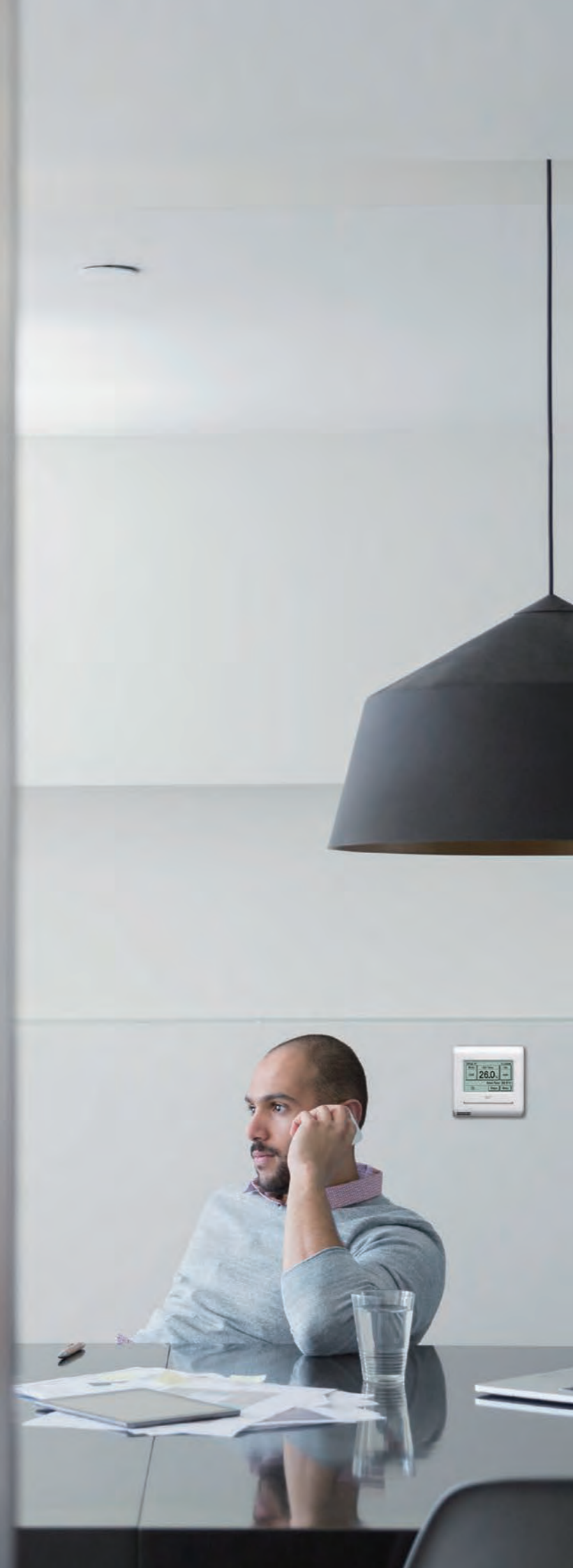
245 KNX® Interface

246 Wireless LAN Interface

248 External Switch Controller

Signal Amplifier

249 Network Convertor for Single Split



**SPLIT**  
For Light Commercial



**SPLIT**  
For Residential



**SIMULTANEOUS MULTI**  
For Light Commercial



**MULTI SPLIT**  
For Residential



**SMALL VRF**  
For Light Commercial



**LARGE VRF**  
For Commercial

# Best Control Solution for Each Property

Fujitsu General provides the best control solutions suitable for the various properties.

## SHOP

Type	Individual Control	Centralized Control				Integrating Control (Interface)			
	Wired Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	Network Converter for LONWORKS®	MODBUS® Converter	KNX® Converter	
	UTY-RNRGZ2, UTY-RLRG, UTY-RVNGM	UTY-CGGG	UTY-DCGG	UTY-DTGGZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-VLGX	UTY-VMSX, UTY-VMGX	UTY-VKGX, UTY-VKSX	
Automatic control of A/C (Schedule timer, Weekly timer etc.)	●	●	●	●	●				
Limited control for staff (RC Prohibition, Room temp set point limitation etc.)			●	●	●	●	●	●	
Group Control		●	●	●	●				
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)					●				
Remote Management				●	●				
Manage multiple sites				●	●				
Monitor energy consumption					●				
Control third party products					●				
Integrate FGL A/C into BMS						●	●	●	

## HOTEL

Type	Individual Control			Centralized Control				Integrating Control (Interface)				
	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	Network Converter for LONWORKS®	MODBUS® Converter	KNX® Converter	External Switch Controller
	UTY-RNRGZ2, UTY-RLRG, UTY-RVNGM	UTY-RSRG, UTY-RHRG, UTY-RSNGM	UTY-LNHG	UTY-CGGG	UTY-DCGG	UTY-DTGGZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMSX, UTY-VMGX	UTY-VKGX, UTY-VKSX	UTY-TERX
Local control for hotel guest	●	●	●									
Centralized A/C control for common space				●	●	●	●	●	●	●		
Limited control for hotel guests					●	●	●	●	●	●		
Remote Management						●	●					
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)							●	●				
Monitor energy consumption							●					
Control third party products							●					
Integrate FGL A/C into BMS								●	●	●	●	
Interlock with window contact												●
Interlock with key-card												●

## OFFICE

Type	Individual Control			Centralized Control				Integrating Control (Interface)				
	Wired Remote Controller	Simple Remote Controller	Wireless Remote Controller	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller	BACnet® Gateway	Network Converter for LONWORKS®	MODBUS® Converter	KNX® Converter	External Switch Controller
	UTY-RNRGZ2, UTY-RLRG	UTY-RSRG, UTY-RHRG, UTY-RSNGM	UTY-LNHG	UTY-CGGG	UTY-DCGG	UTY-DTGGZ1	UTY-APGXZ1, UTY-ALGXZ1	UTY-ABGXZ1, UTY-VBGX	UTY-VLGX	UTY-VMSX, UTY-VMGX	UTY-VKGX, UTY-VKSX	UTY-TERX
Local control for office staff	●	●	●	●	●							
Automatic control of A/C (Schedule timer, Weekly timer etc.)	●		●	●	●	●	●	●				
Centralized A/C control for management					●	●	●	●	●	●	●	
Limited control for office staff (RC Prohibition, Room temp set point limitation etc.)					●	●	●	●	●	●	●	
Advanced Energy Saving (Peak cut, Indoor unit rotation operation etc.)							●	●				
Remote Management						●	●					
Energy Charge Apportionment						●	●	●				
Monitor energy consumption							●					
Control third party products							●					
Integrate FGL A/C into BMS								●	●	●	●	
Interlock with door contact												●
Interlock with human sensor for meeting room												●





# LIGHT COMMERCIAL/COMMERCIAL

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

For Light Commercial  
• Small VRF  
• Simultaneous Multi



For Commercial  
• Large VRF



## Air Conditioning Individual Control

- NEW** **Wired Remote Controller (Touch panel)**  
UTY-RNRGZ2
- Wired Remote Controller**  
UTY-RLRG
- NEW** **Simple Remote Controller**  
UTY-RSRG  
UTY-RHRG  
Without operation mode
- Wireless Remote Controller**  
UTY-LNHG
- IR Receiver Unit**  
UTB-YWC For Duct type  
UTY-LRHGB1 For Cassette type

## Air Conditioning Centralized Control

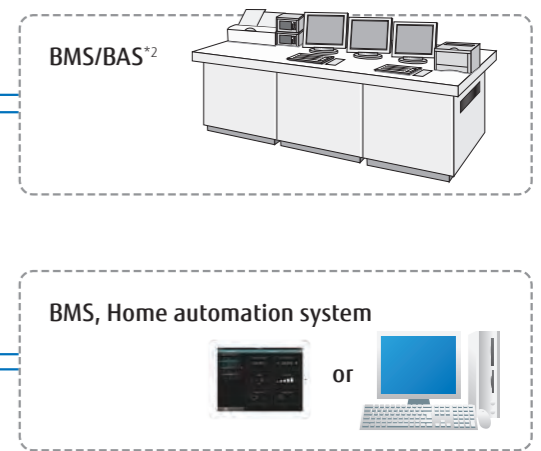
- NEW** **System Controller (Software)**  
UTY-APGXZ1/UTY-ALGXZ1 (Lite edition)  
Max. Controllable **1600** indoor units  
\*(Lite edition is max. controllable 400 indoor units)
- NEW** **Touch Panel Controller**  
UTY-DTGGZ1  
Max. Controllable **400** indoor units
- Central Remote Controller**  
UTY-DCGG  
Max. Controllable **100** indoor units
- Group Remote Controller**  
UTY-CGGG  
Max. Controllable **8** Remote Controller Groups
- Network Converter**  
UTY-VGGXZ1

## Convertor/Adaptor For external device

- NEW** **BACnet® Gateway (Software)**  
UTY-ABGXZ1
- NEW** **BACnet® Gateway (Hardware)**  
UTY-VBGX
- Network Converter (BMS/LONWORKS®)**  
UTY-VLGX
- MODBUS® Convertor**  
UTY-VMGX
- MODBUS® Convertor For indoor unit**  
UTY-VMSX
- MODBUS® Interface**  
FJ-RC-MBS-1
- NEW** **KNX® Convertor For VRF**  
UTY-VKGX
- NEW** **KNX® Convertor For indoor unit**  
UTY-VKSX
- KNX® Interface**  
FJ-RC-KNX-1i
- Wireless LAN Interface**  
FJ-RC-WIFI-1
- NEW** **External Switch Controller**  
UTY-TERX

## Convertor/Adaptor For system expansion

- Network Converter (DC power supply)**  
UTY-VTGX
- Network Converter (AC power supply)**  
UTY-VTGXV
- Network Converter**  
UTY-VGGXZ1
- Signal Amplifier**  
UTY-VSGXZ1



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



# RESIDENTIAL

All indoor units are provided with wireless or wired remote controllers as standard equipment. Other options, such as individual and central remote controllers, are also available. The easy-to-operate central remote controller makes it simple to control the operation mode, temperature, airflow volume, timer, and other functions of each indoor unit from a single location.

For Single Split



For 2-8 Rooms Multi Split



## Air Conditioning Individual Control



**Wired Remote Controller**  
The room temperature can be controlled by detecting the temperature accurately from the built-in sensor

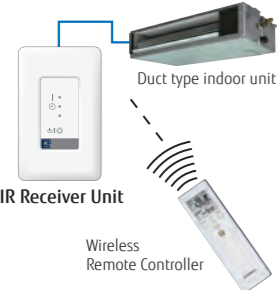


**Wireless Remote Controller**  
Simple and sophisticated operations with a choice of 4 daily timers



**Simple Remote Controller**  
Compact remote controller provides access to basic functions

For Duct type



For Cassette type



**IR Receiver Unit**  
Necessary to control for all duct type by Wireless Remote Controller



## Convertor/Adaptor For external device

**MODBUS® Convertor**  
For indoor unit  
UTY-VMSX



**MODBUS® Interface**  
FJ-RC-MBS-1



**NEW KNX® Convertor**  
For indoor unit  
UTY-VKSX



**KNX® Interface**  
FJ-RC-KNX-ti



## Air Conditioning Centralized Control



**Central Remote Controller For 5-6 & 8 Rooms Multi**  
Central Remote Controller allows individual and central control

## Online Control (Adopting Wireless LAN Interface)

By using our Wireless LAN Interface and FGLair app, you can control your home's cooling and heating anytime and anywhere.

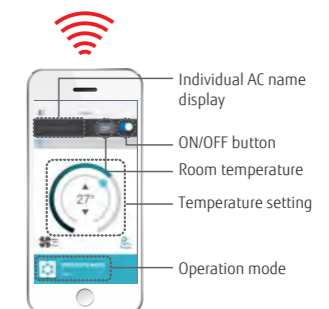


**Wireless LAN Interface**  
The exclusive Wi-Fi adaptor enables to operate the air conditioner by smartphone or tablet PC from outside.



### User friendly app

User friendly screen display facilitates easy operation.





# Comparison Table of Controllers



Item														
	Wired Remote Controller (Touch panel)	Wired Remote Controller	Wired Remote Controller	Simple Remote Controller	Simple Remote Controller	Simple Remote Controller*1	Wireless Remote Controller	Central Remote Controller (For 8 rooms Multi)	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller Lite (Software)	System Controller (Software)	
Model name	UTY-RNRGZ2	UTY-RLRG	UTY-RVNGM	UTY-RSNGM	UTY-RSRG	UTY-RHRG	UTY-LNHG	UTY-DMMGM	UTY-CGGG	UTY-DCGG	UTY-DTGGZ1	UTY-ALGXZ1	UTY-APGXZ1	
Max. controllable remote controller groups	1	1	1	1	1	1	1	1	8	100	400	400	1600	
Max. controllable indoor units	16	16	16	16	16	16	16	8	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	●	●	●	-	-	-	●	-	-	●	●	●	
	Individual louver control	●	-	-	-	-	-	-	-	-	-	●	-	
	Group setting	-	-	-	-	-	-	-	-	-	●	●	●	
	RC prohibition	-	-	-	-	-	-	-	●	-	●	●	●	
	Anti freeze setting	●	-	-	-	-	-	-	-	-	●	●	●	
	Set temp. auto return	●	●	●	-	-	-	-	-	-	●	●	-	
	Economy mode setting	●	●	●	-	-	-	●	●	-	●	●	●	
	Human sensor control	●	-	-	-	-	-	-	●	-	-	●	●	
Display	Error	●	●	●	●	●	-	●	●	●	●	●	●	
	Defrosting	●	●	●	●	●	-	-	-	●	●	●	●	
	Current time	●	●	●	-	-	-	●	●	●	●	●	●	
	Day of week	●	●	●	-	-	-	-	●	-	●	●	●	
	R.C. prohibition	●	●	●	●	●	●	-	●	●	●	●	●	
	Cooling/heating priority	●	●	-	●	●	●	-	●	●	●	●	●	
	Address display	●	●	●	●	●	●	-	●	●	●	●	●	
	Room temp	●	-	●	-	●	●	-	-	-	●	-		
	Multi language	●	-	●	-	-	-	-	●	-	●	●	●	
	Summer time	●	-	●	-	-	-	-	●	-	●	●	●	
	Name registration	●	-	-	-	-	-	-	-	-	●	●	●	
	Backlight	●	-	●	●	●	●	-	●	-	●	-		
	2D floor layout / 3D building display	-	-	-	-	-	-	-	-	-	-	-	●	
	Timer	Schedule timer	Week	Week	Week	-	-	-	Week	Week	Week	Year	Year	Year
		On/off timer	8	4	8	-	-	-	4	4	20	20	144	144
Sleep timer		-	-	-	-	-	-	-	-	-	-	-	-	
Program timer		-	-	-	-	-	-	-	-	-	-	-	-	
Auto off timer		●	●	●	-	-	-	-	-	-	●	-		
Day off		●	●	●	-	-	-	-	●	-	●	●	●	
Min. unit of timer setting (Minutes)		10 • 30	30	30	-	-	-	5	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	-	-	-	-	● Child lock	● Child lock	● Password setting	● Password setting	● Password setting	● Password setting	
Low noise mode	-	-	-	-	-	-	-	●	-	-	-	-		

\*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



NEW

# Wired Remote Controller (Touch Panel)



UTY-RNRGZ2



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

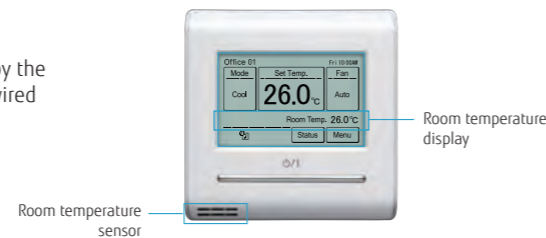
## High performance and compact size

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.



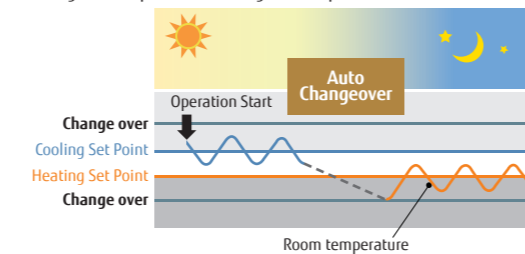
## Various energy saving control

### Custom Auto

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

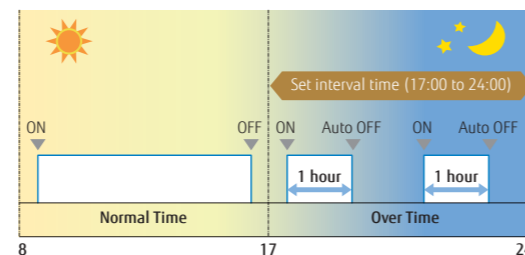
\* This function is not available for some models.

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



### Auto OFF timer

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



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-RNRGZ2
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 20.4
Weight (g)	220

DC12 V is supplied by the indoor unit.

# Wired Remote Controller



UTY-RVNGM



Max. Controllable  
**16** indoor units

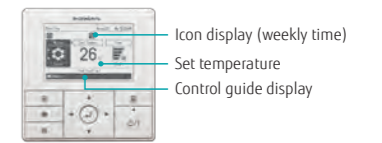
## Features

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

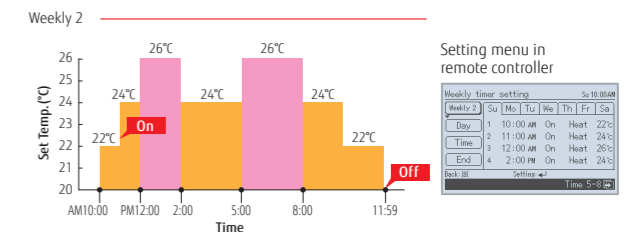
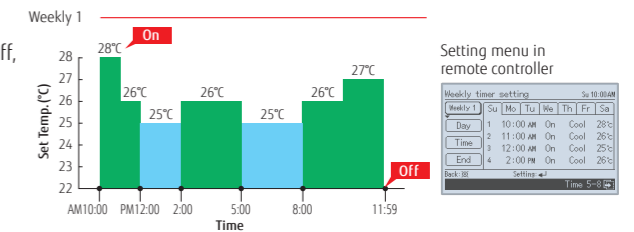
In addition to the individual control, various energy saving controls can be realized using only one remote controller.



## 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-RVNGM
Power Source	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 21.3
Weight (g)	220

DC12 V is supplied by the indoor unit.



# Wired Remote Controller



UTY-RLRG



### 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

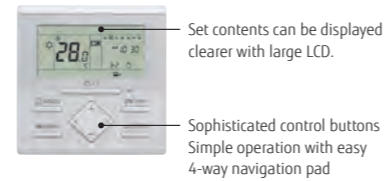
### High performance and compact size

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

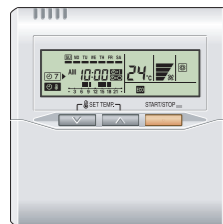
- "Mode", "Set Temp", and "Fan" are displayed at large size on the top screen.
- Each function to be set is indicated by an icon.
- Control guide is displayed and operation is simple and straightforward.



# Wired Remote Controller



UTY-RNKG



### Features

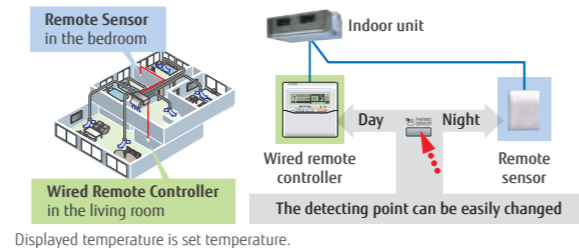
- Simple operation with Built-in Weekly / Daily Timer.
- Control up to 16 indoor units.
- Up to 2 wired remote controllers can be connected to a single indoor unit.

Max. Controllable  
**16** indoor units

### Accurate and comfortable

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

### Example of changing sensor



### Built-in timers

**Weekly timer:** Possible to set ON/OFF time to operate twice each day of the week.  
**Setback timer:** Possible to set temperature for two times spans and for each day of the week. At "Weekly timer" + "Set back timer" setup

### Specifications

Model name	UTY-RLRG	UTY-RNKG
Power Source	DC 12 V	DC 12V
Dimensions (H × W × D) (mm)	120 × 120 × 17	120 × 120 × 18
Weight (g)	170	160

DC12 V is supplied by the indoor unit.

# Simple Remote Controller for VRF



UTY-RSRG / UTY-RHRG (Without operation mode)



Without operation mode

### Features

### Compact remote controller provides access to basic functions

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

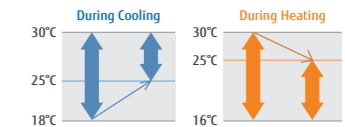
Max. Controllable  
**16** indoor units

### Corresponding to various applications

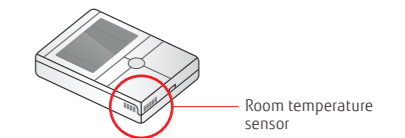
- **Vertical louver control:** Vertical air flow direction can be adjusted for Duct types with auto louver and Cassette types, which are installed in hotels and conference rooms, can be adjusted.



- **Room temperature set point limitation:** The Simple Remote Controller can manage to energy saving operation in small buildings without the central control unit.



- **Built in room temperature sensor:** The Simple Remote Controller detects actual room temperature and controls room climate accuracy.



# Simple Remote Controller for SPLIT & MULTI SPLIT



UTY-RSNGM, UTY-RSKG/UTY-RHKG(Without operation mode)



Without operation mode

### Features

### Compact remote controller provides access to basic functions

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

Max. Controllable  
**16** indoor units

### Easy-to-use operation

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

### Specifications

Model name	UTY-RSRG	UTY-RHRG	UTY-RSNGM, UTY-RSKG	UTY-RHKG
Power Source	DC 12 V	DC 12 V	DC 12 V	DC 12 V
Dimensions (H × W × D) (mm)	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 19.4	120 × 75 × 14
Weight (g)	120	120	120	90

DC12 V is supplied by the indoor unit.

# Wireless Remote Controller



UTY-LNHG



**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

Max. Controllable  
**16** indoor units

Selectable  
**4** daily timers

# IR Receiver Unit



UTB-YWC for VRF



UTY-LRHGM for Split



IR Receiver Unit



Wireless Remote Controller

UTY-LBTGM for Split



IR Receiver Unit



Wireless Remote Controller

**Features**

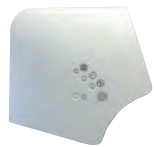
Necessary to control for all Duct types\* by Wireless Remote Controller

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

# IR Receiver Unit



UTY-LRHGB1 for VRF



UTY-LRHGA2 for Split



IR Receiver Unit



Wireless Remote Controller

UTY-LBTGC for Split



IR Receiver Unit



Wireless Remote Controller

**Features**

Cassette type indoor unit can be controlled with Wireless Remote Controller

**Specifications**

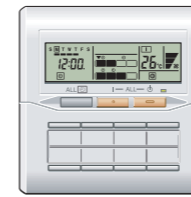
Model name	UTY-LNHG	UTB-YWC/UTY-LRHGM/UTY-LBTGM	UTY-LRHGB1/UTY-LRHGA2/UTY-LBTGC
Battery	1.5 V (R03 / LR03 / AAA) × 2	DC 5 V	DC 5 V
Dimensions (H × W × D) (mm)	170 × 56 × 19	145 × 90 × 30	193.9 × 193.9 × 31.2
Weight (g)	85	150	140

DC12 V is supplied by the indoor unit.

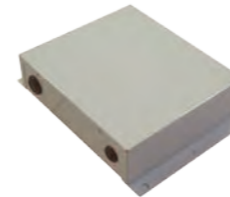
# Group Remote Controller/Network Converter



UTY-CGGG / UTY-VGGXZ1



Group Remote Controllers  
UTY-CGGY



Network Converter  
UTY-VGGXZ1  
For Group Remote Controller

Max. Controllable  
**8** remote controller groups

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

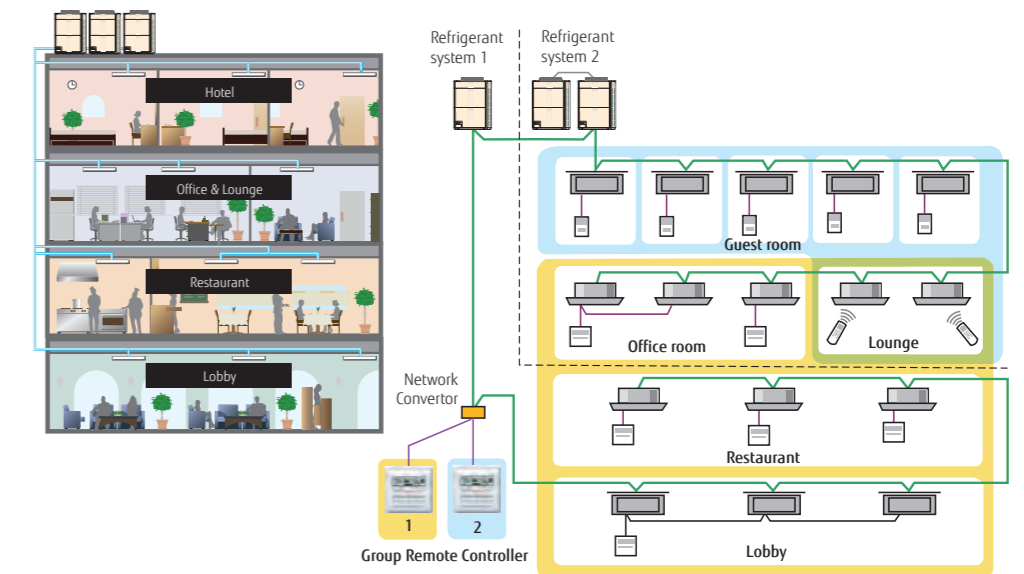
**Features**

Group control of indoor units with simple operation

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

**Control up to 8 remote controller groups**

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



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-CGGG
Power Supply	DC 12 V
Dimensions (H × W × D) (mm)	120 × 120 × 18
Weight (g)	200

DC12 V is supplied by the indoor unit.

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



# Central Remote Controller



UTY-DCCG



## Features

For small- and medium-sized buildings and tenants

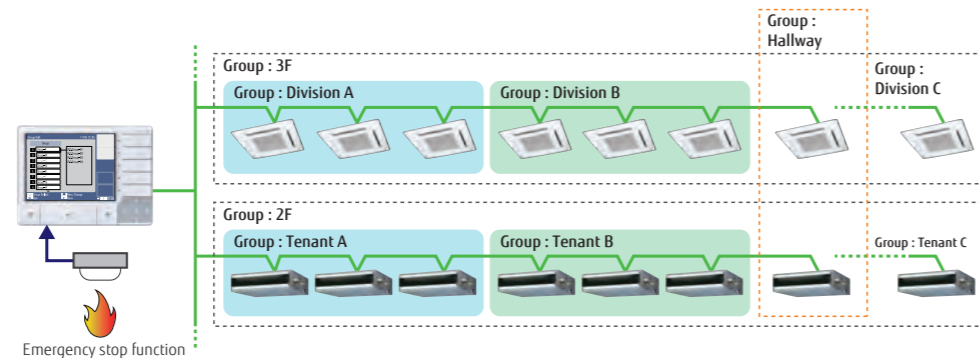
- Individual control and monitor of 100 indoor units
- 5 inch TFT color screen
- High visibility and easy operation
- External input / output contact
- Detachable power supply unit
- Corresponds to 7 different languages like English, Chinese, French, German, Spanish, Russian, Polish.

Max. Controllable  
**100** indoor units

Max. Controllable  
**16** groups

## System overview

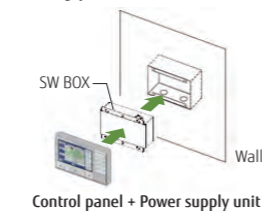
- It allows multiple indoor units grouping (Max.16 groups controlled)
- Interlock with external device



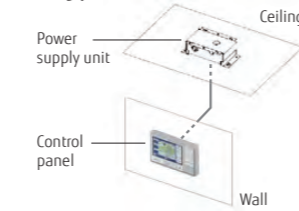
## Easy Installation

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

Setting pattern 1



Setting pattern 2



## Functions

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

## Specifications

Model name	UTY-DCCG	
	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
<b>&lt;PACKING LIST&gt;</b>		
Packing List	Control Panel / Power Supply Unit / Connecting cable, etc.	

# Central Remote Controller for 5-6 Rooms Multi, 8 Rooms Multi



UTY-DMMGM



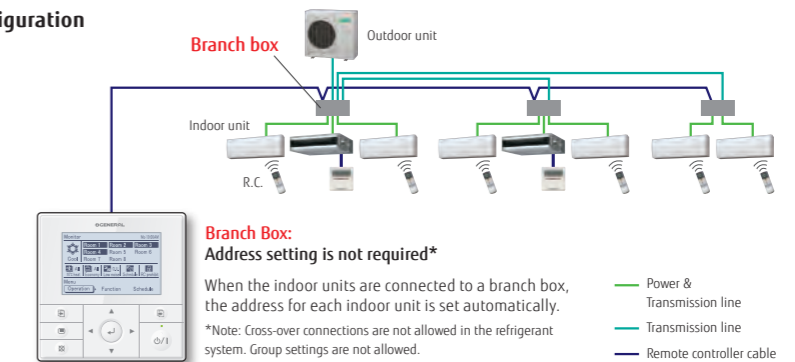
## Features

- Batched control of up to 8 indoor units. The temperature, airflow volume, and remote control prohibition settings of all indoor units can be batched.
- Corresponds to 9 different languages (English, German, French, Spanish, Russian, Portuguese, Italian, Greek, and Turkish)
- Large backlight LED screen
- Large easy-to-see operation panel

Max. Controllable  
**1** multi system

Max. Controllable  
**8** indoor units

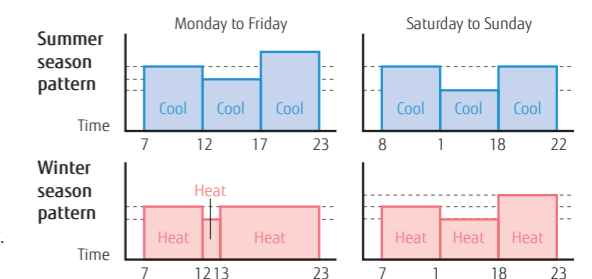
## System configuration



## Central Remote Controller Functions

### Weekly schedule timer

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



### Low noise operation

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

### 10°C heat operation

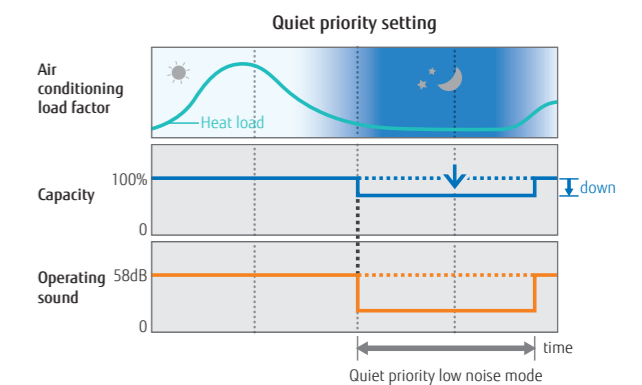
When you leave, minimum heating operation is performed to maintain the room temperature (maintain at 10°C).

### Economy operation

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

### Prohibited Settings

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



## Specifications

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

DC12 V is supplied by the indoor unit.

NEW

# Touch Panel Controller



UTY-DTGGZ1



### Features

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

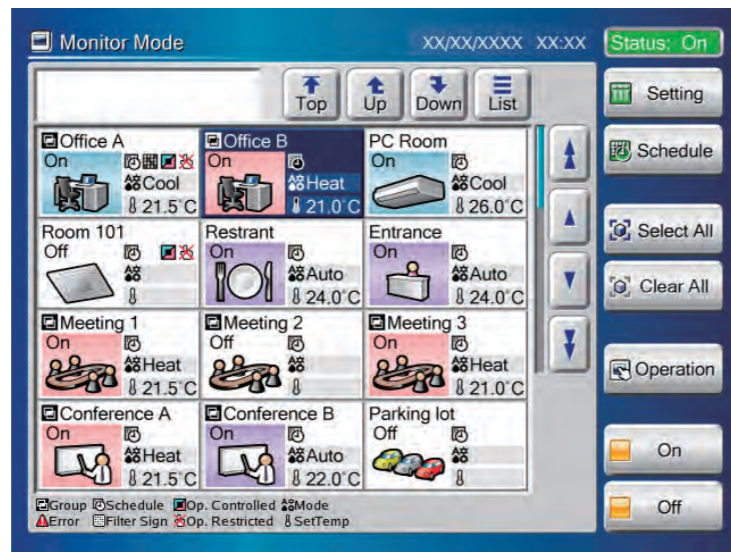
Max. Controllable  
**400** indoor units

Max. Controllable  
**100** outdoor units

Max. Controllable  
**400** groups

### Control & monitoring from anywhere

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



### Easy maintenance

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

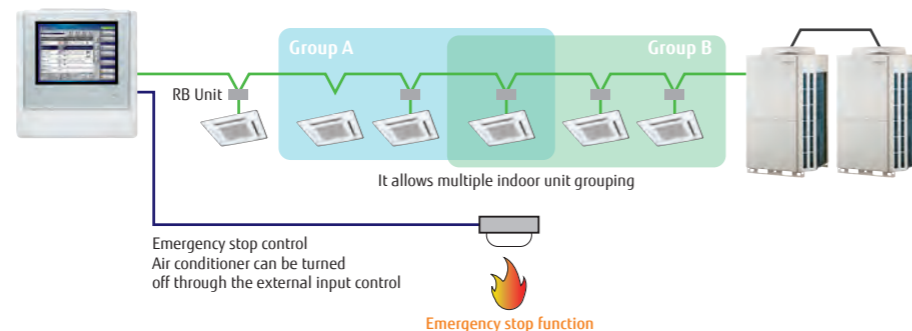


### Easy installation

- 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



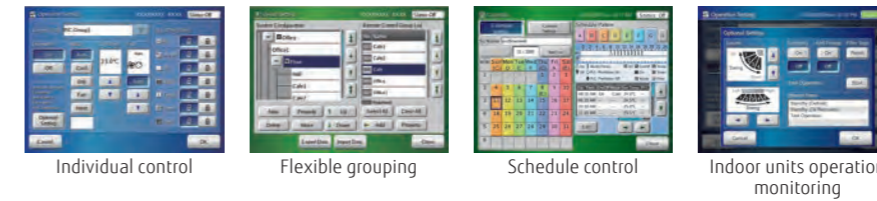
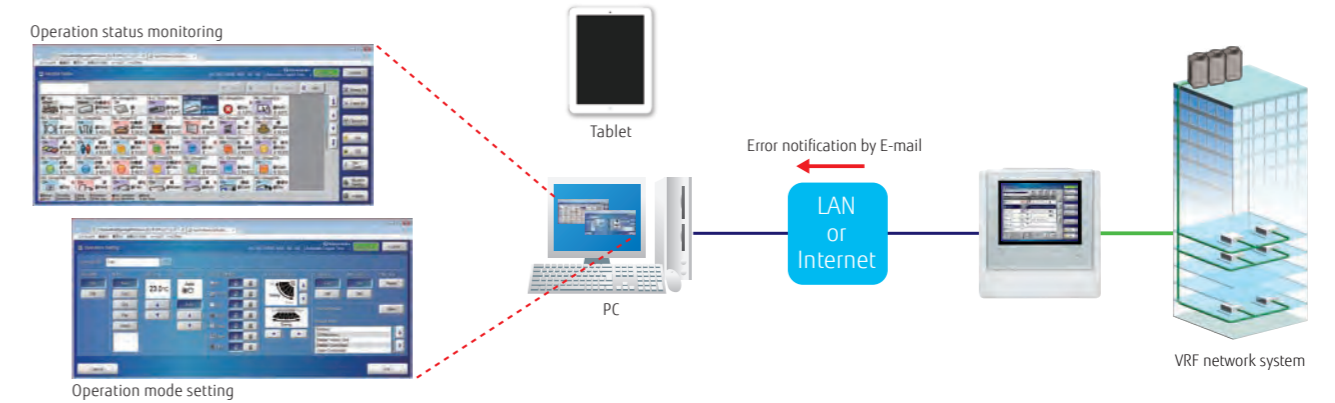
### Up to 400 indoor units can be controlled



### Features: Touch Panel Controller

### Control & monitoring from anywhere

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



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

### Smart Phone

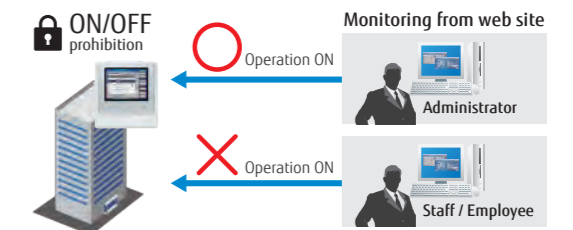
Model name	Browser
Nexus 6P (Android 7.1.1)	Google Chrome 5.5
iphone7 (iOS 10.1)	Safari 10

### Tablet

Model name	Browser
iPad Pro 9.7inch (iOS 10.2.1)	Safari 10

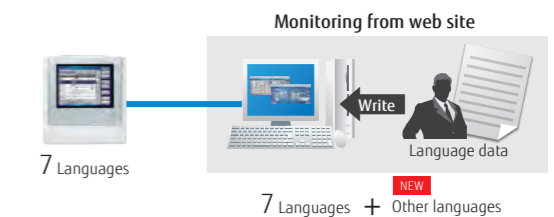
### Flexible access permission for Point each level user.

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



### Additional languages function

Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish as standard. Additional language can be integrated on remote device by creating language database. Additional language is displayed on only the remote device, and Touch Panel Controller cannot be added other languages.



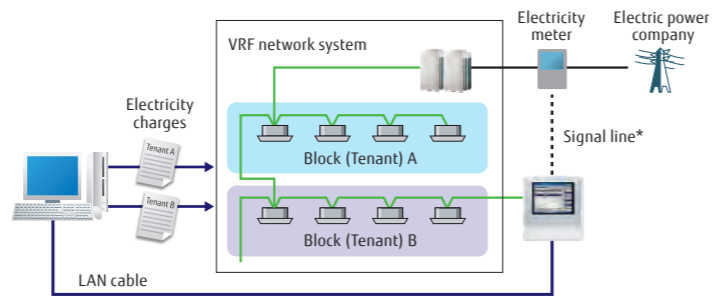


Features: Touch Panel Controller

Electricity charge apportionment  
(Option: UTY-PTGXA)

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

- Apportionment charge/bill calculation
- Tenant (block) setting
- Common facilities apportionment setting
- Rated power consumption allotment setting
- Individual calculation at cooling and heating
- Electricity meter supported



\*: 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.

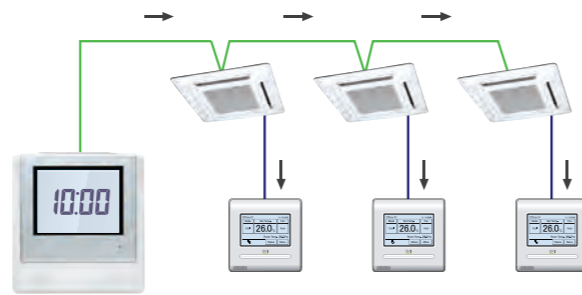
Automatic summer time setting

Providing function

- 1) Schedule setting of summer time setting
  - It prevents the user from forgetting to set summer time. In addition, it reduces the time and labor of user.

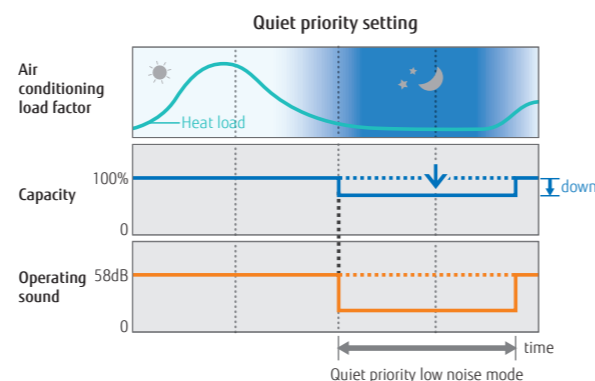
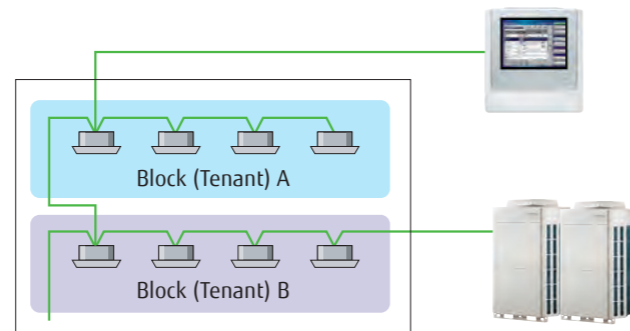
Automatic clock adjustment

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



Outdoor low noise operation

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



FUNCTIONS SUMMARY

	UTY-DTGGZ1	Monitoring side
<b>Air conditioning control function</b>		
On / Off	●	●
Operation mode setting	●	●
Fan speed setting	●	●
Room temp. setting	●	●
Room temp. set point limitation	●	●
Test operation	●	●
Up/down air direction flap setting	●	●
Right/left air direction flap setting	●	●
Individual louver control	●*1	●
Group setting	●	●
RC prohibition	●	●
Anti freeze setting	●	●
Set temp. auto return	—	●
Various energy saving control	—	●
Economy mode setting	●	●
Human sensor control	—	●
<b>Display</b>		
Error	●	●
Defrosting	●	●
Current time	●	●
Day of week	●	●
R.C. prohibition	●	●
Cooling/heating priority	●	●
Address display	●	●
Room temp	●	●
Multi language	●	●
Summer time	●	●
Time zone setting	●	●
Name registration	●	●
Backlight	●	●
Language setting	●	●
Filter sign reset	●	●
Memory operation	●	●
Pattern operation	7	7+other

●: Supported ○: Optional function —: Not supported yet  
\*1 Only setting cancellation can be operated.  
\*2 This function is available only through external input control.

	UTY-DTGGZ1	Monitoring side
<b>Timer</b>		
Schedule timer	Period	Year
	On/off, Temp, Mode, Times per day	20
On/off timer	—	—
Sleep timer	—	—
Program timer	—	—
Auto off timer	—	●
Day off	●	●
Min. unit of timer setting (Minutes)	10	10
<b>Control</b>		
Status monitoring system	●	●
Electricity charge apportionment	○	○
Error history	●	●
Emergency stop	●*2	●*2
Remote management	—	●
Energy saving management	—	—
E-mail notification for malfunction	—	●
Key lock	● Password setting	—
Low noise mode	●	●

Specifications

Model name	UTY-DTGGZ1
Power Supply	100-240 V 50/60 Hz, Single phase
Dimensions (H × W × D) (mm)	260 × 246 × 54
Weight (g)	2,150
Interface	Transmission/LAN/USB/EXT IN/EXT OUT/Reset SW

**NEW** System Controller

UTY-APGXZ1 **Software**

**Features**

- Max. Controllable **4** VRF network systems
- Max. Controllable **400** outdoor units
- Max. Controllable **1,600** indoor units

System Controller 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)



**NEW** System Controller Lite

UTY-ALGXZ1 **Software**

**Features**

- Max. Controllable **1** VRF network systems
- Max. Controllable **100** outdoor units
- Max. Controllable **400** indoor units

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

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



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.

Properties can be shown using one of the four displays of site, building, floor, or list.

The display is easily changed by pressing the button.

The floor layout drawing can be imported to easily make the settings for the actual building.

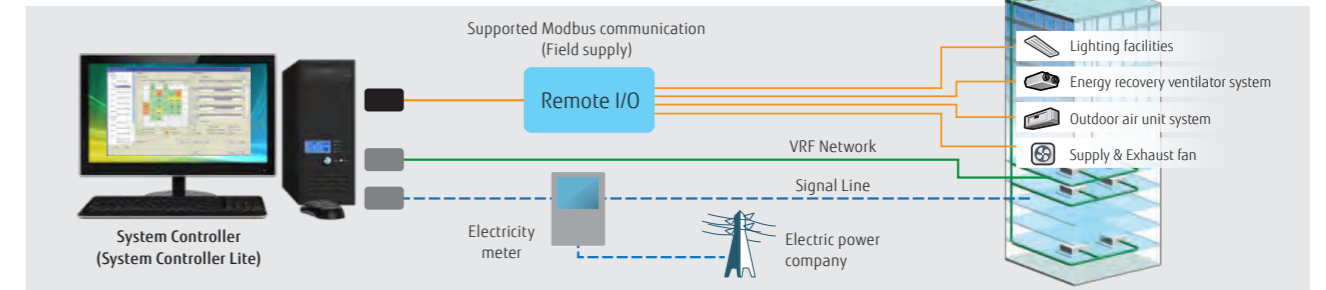
Note: 2D floor layout/3D building display are not available for System Controller Lite.

**Features: System Controller/System Controller Lite**

3rd party devices connected by Modbus can be controlled.

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

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

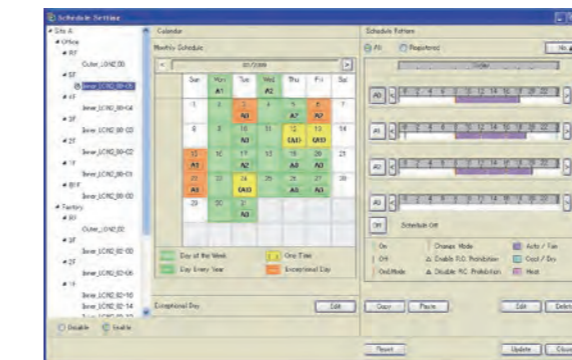


Diverse operation management & Data management

**Standard** for System Controller and System Controller Lite

**Schedule management**

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



**Diverse control of indoor unit and outdoor unit**

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

**Remote controller prohibition**

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

**Error display & E-mail notification**

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

**Operating & control record**

Displays the history of operation status and control.

**Data base import/export**

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

**Automatic clock adjustment**

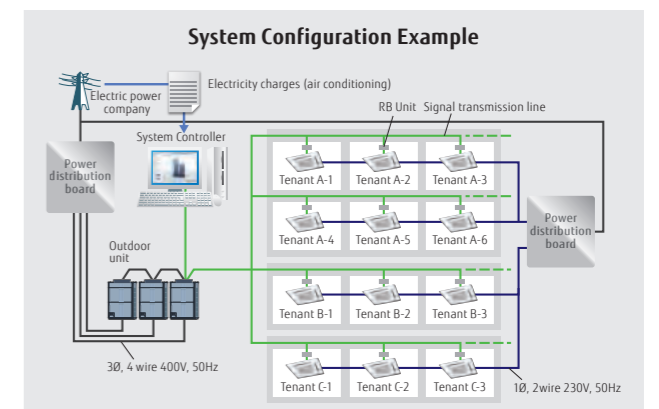
The time setting of each controller can be set in batch automatically.

Electricity charge apportionment

**Standard** for System Controller **Option** for System Controller Lite UTY-PLGXA2

**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.





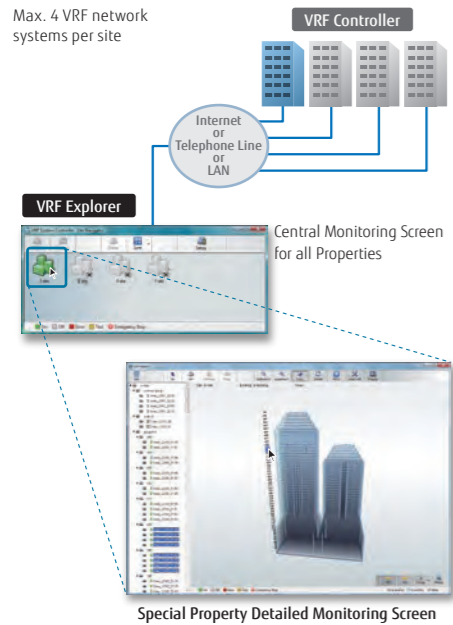
Features: System Controller/System Controller Light

Remote management

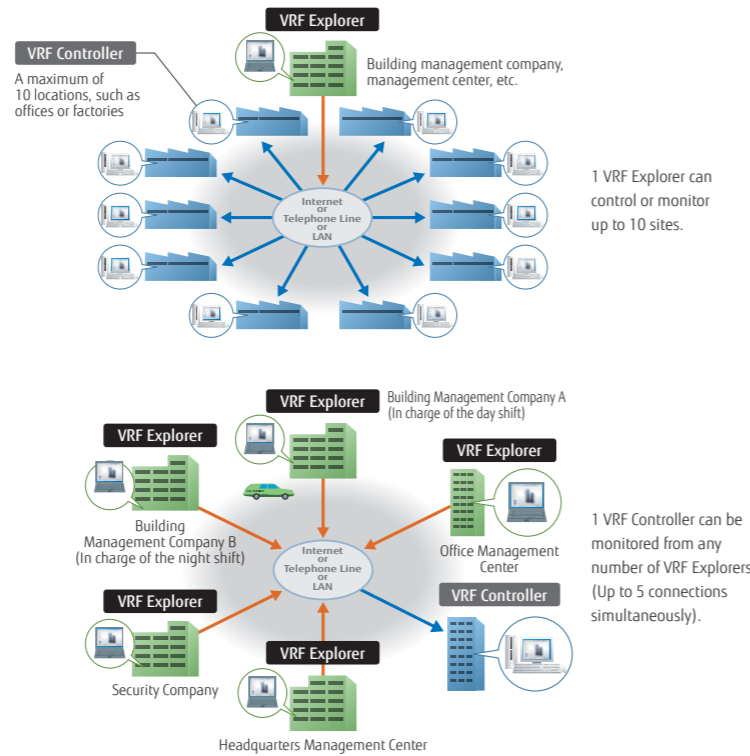
- Standard for System Controller
- Option for System Controller Lite UTY-PLGXR2

System Controller may be used on site or remotely over various networks for remote central control. System Controller requires 2 software 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



Remote central control



Energy saving management

- Option for System Controller UTY-PEGX
- Option for System Controller Lite UTY-PLGX2

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		System controller lite					
		UTY-APGXZ1	Option UTY-PEGXZ1	UTY-ALGXZ1	Option UTY-PLGXR2	Option UTY-PLGXA2	Option UTY-PLGX2	Option UTY-PLGXX2	
System specification	Max. VRF networks supported	4	—	1	—	—	—	—	
	Max. indoor unit / remote controller groups per VRF network	400	—	400	—	—	—	—	
	Max. outdoor units per System controller	100	—	100	—	—	—	—	
	Max. indoor units / remote controller groups per System controller	1600	—	400	—	—	—	—	
Site supervision	Max. outdoor units per System controller	400	—	100	—	—	—	—	
	Multi site display	10	—	10	—	—	—	—	
	Number of building / 1 site	20	—	—	—	—	—	—	
	Number of floor per 1 site	200	—	—	—	—	—	—	
	Number of floor per 1 building	50	—	—	—	—	—	—	
	3D graphical layout view	●	—	●	—	—	—	—	
	2D graphical layout view	●	—	●	—	—	—	—	
Error management	List display	●	—	●	—	—	—	—	
	Tree display	●	—	●	—	—	—	—	
	Group display	●	—	●	—	—	—	—	
	Error notification	●	—	●	—	—	—	—	
History	Audible alarm	●	—	●	—	—	—	—	
	Error e-mail notification	●	—	●	—	—	—	—	
Operation control	Error history	●	—	●	—	—	—	—	
	Operation history	●	—	●	—	—	—	—	
	Control history	●	—	●	—	—	—	—	
	Individual control	On/Off	●	—	●	—	—	—	—
		Operation mode	●	—	●	—	—	—	—
		Room temperature	●	—	●	—	—	—	—
		Fan speed	●	—	●	—	—	—	—
		Air flow direction	●	—	●	—	—	—	—
		Economy mode	●	—	●	—	—	—	—
		Room temperature set point limitation	●	—	●	—	—	—	—
		Test operation	●	—	●	—	—	—	—
		Antifreeze	●	—	●	—	—	—	—
		Outdoor unit low noise setting	●	—	●	—	—	—	—
	Individual management	Remote control prohibition setting	●	—	●	—	—	—	—
		Temperature upper and lower limit setting	●	—	●	—	—	—	—
		Filter sign reset	●	—	●	—	—	—	—
	Other	Memory operation	●	—	●	—	—	—	—
Pattern operation		●	—	●	—	—	—	—	
Schedule	Annual Schedule	●	—	●	—	—	—	—	
	Special day setting	●	—	●	—	—	—	—	
	On / off per day	72	—	72	—	—	—	—	
	On / off per week	504	—	504	—	—	—	—	
	Day off	●	—	●	—	—	—	—	
Remote management	Min. unit of timer setting (Minutes)	10	—	10	—	—	—	—	
	Low noise mode Weekly schedule	●	—	●	—	—	—	—	
	Remote monitoring	●	—	●	—	—	—	—	
	Remote operation control	●	—	●	—	—	—	—	
Electricity charge apportionment	Remote function setting	●	—	●	—	—	—	—	
	Web Remote Controller	●	—	●	—	—	—	—	
	Apportionment charge/bill calculation	●	—	●	—	—	—	—	
	Tenant (block) setting	●	—	●	—	—	—	—	
	Common facilities apportionment setting	●	—	●	—	—	—	—	
Energy saving management	Rated power consumption allotment setting	●	—	●	—	—	—	—	
	Individual calculation at cooling and heating	●	—	●	—	—	—	—	
	Electricity meter supported	—	●*	—	—	—	—	—	
	Indoor unit rotation	—	●	—	—	—	—	—	
	Peak cut control	—	●	—	—	—	—	—	
	Outdoor unit capacity save	—	●	—	—	—	—	—	
	Record of energy saving operation	—	●	—	—	—	—	—	
External Device Control	Energy saving information	—	●	—	—	—	—	—	
	Power consumption monitor	—	●	—	—	—	—	—	
	Electricity meter supported	—	●	—	—	—	—	—	
Others	Monitor	●	—	●	—	—	—	—	
	Database import/export	●	—	●	—	—	—	—	
Multi language	Automatic clock adjustment	●	—	●	—	—	—	—	
	Multi language	7 languages	—	7 languages	—	—	—	—	

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

Personal computer system requirements

The required PC specifications are shown in the following table.

	System Controller	System Controller Lite
Operating system	<ul style="list-style-type: none"> <li>Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1</li> <li>Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit)</li> <li>Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)</li> </ul> [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish	<ul style="list-style-type: none"> <li>Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1</li> <li>Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit)</li> <li>Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)</li> </ul> [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher	Intel® Core™ i3 2 GHz or higher
Memory	<ul style="list-style-type: none"> <li>2 GB or more (for Windows® 7 [32-bit])</li> <li>4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)</li> </ul>	<ul style="list-style-type: none"> <li>2 GB or more (for Windows® 7 [32-bit])</li> <li>4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)</li> </ul>
HDD	40 GB or more of free space	40 GB or more of free space
Display	1024 x 768 or higher resolution	1024 x 768 or higher resolution
Interface	<ul style="list-style-type: none"> <li>Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line)</li> <li>USB ports (Maximum of 6 ports)</li> <li>(Required only for the Server PC that works as VRF Controller)</li> <li>- Maximum of 2 USB ports are required for WHITE-USB-KEY/WibuKey connection</li> <li>- Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface</li> <li>* Maximum number of required USB port depends on the applicable system configuration.</li> </ul>	<ul style="list-style-type: none"> <li>Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line)</li> <li>USB ports (Maximum of 6 ports)</li> <li>(Required only for the Server PC that works as VRF Controller)</li> <li>- Maximum of 4 USB ports are required for WHITE-USB-KEY/WibuKey connection</li> <li>- 1 USB port is required for Echelon® U10 USB Network Interface</li> <li>* The maximum number of required USB port depends on the applicable system configuration.</li> </ul>
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	Microsoft® DirectX® 9.0c compatible
Software	Adobe® Reader® 9.0 or later	Adobe® Reader® 9.0 or later

\* 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	Option Central Control
Model name	UTY-APGXZ1	UTY-PEGXZ1	UTY-ALGXZ1	UTY-PLGXR2	UTY-PLGXA2	UTY-PLGX2	UTY-PLGXX2
WHITE-USB-KEY	1	1	1	1	1	1	1

\*1: Software protection key to be inserted in a USB slot running System Controller or System Controller Lite. System Controller or System Controller Lite may only run on a PC with WHITE-USB-KEY. However, WHITE-USB-KEY is not required for remote VRF Explorer software.

**NEW** BACnet® Gateway



UTY-ABGXZ1

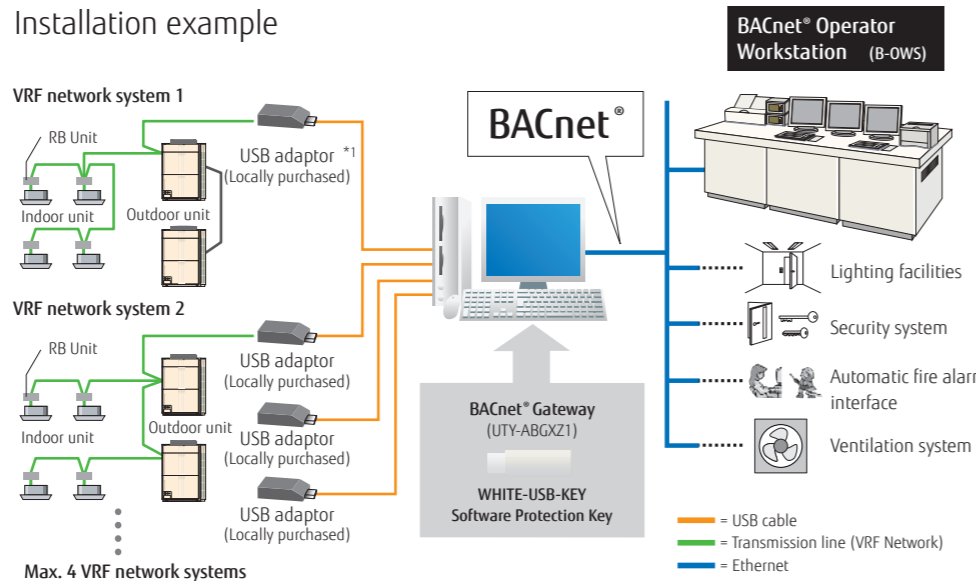


**Features**

- It is possible to connect medium to large sized BMS to VRF network system via BACnet®, a global standard for open networks.
- A maximum of 1600 indoor units with 4 VRF network systems (a maximum of 400 indoor units & 100 outdoor units for one network system) can be connected to one BACnet® Gateway.
- It is possible to control or monitor VRF network system from BMS via BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2012) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.
- Scheduling function, Alarm & Event functions as well as Electricity Change Apportionment function are provided in BACnet® Gateway.
- Connection between VRF network system to personal computer is possible via small U10 USB interface. However, both U10 USB interface & personal computer are field supplied items.
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.

Max. Controllable  
**4**  
VRF network systems  
Max. Controllable  
**400** outdoor units  
Max. Controllable  
**1,600** indoor units

**Installation example**



**Personal computer system requirements**

	UTY-ABGXZ1
Operating system	<ul style="list-style-type: none"> <li>• Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1</li> <li>• Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit)</li> <li>• Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit)</li> </ul> [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher
Memory	<ul style="list-style-type: none"> <li>• 2 GB or more (for Windows® 7 [32-bit])</li> <li>• 4 GB or more (for Windows® 7 [64-bit], Windows® 8.1, and Windows® 10)</li> </ul>
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	<ul style="list-style-type: none"> <li>• Ethernet port (for getting access to the Internet using LAN)</li> <li>• USB ports (Maximum of 5 ports)</li> <li>- 1 USB port is required for WHITE-USB-KEY/WibuKey connection</li> <li>- Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface</li> <li>* Maximum number of required USB ports depends on the applicable system configurations.</li> </ul>
Software	Adobe® Reader® 9.0 or later

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

**<Packing list>**

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

**NEW** BACnet® Gateway **Hardware**



UTY-VBGX

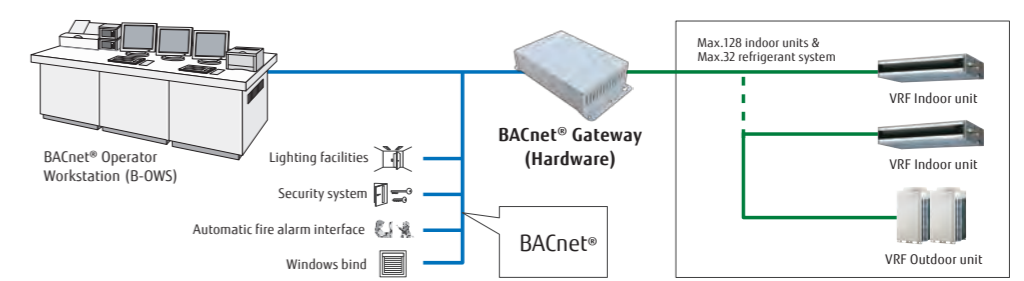


**Features**

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

Max. Controllable  
**1** VRF network system  
Max. Controllable  
**32** refrigerant system  
Max. Controllable  
**128** indoor units

**Installation example**



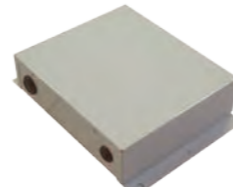
**Specifications**

Model name	UTY-VBGX	Model name	UTY-VBGX
Number of controllable indoor units	128	Power Supply	208-240 V 50/60 Hz, single phase
Number of controllable refrigerant system	32	Power Consumption (W)	4.6 (max.)
Number of controllable VRF network	1	Dimensions (H × W × D) (mm)	59.6 × 270.4 × 176
Number of connectable units / one VRF network	4	Weight (g)	1,200

Network Converter for **LONWORKS®**



UTY-VLGX

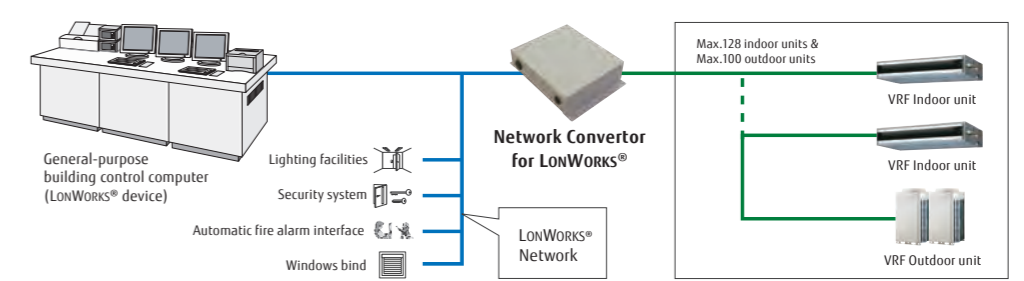


**Features**

- 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	208-240 V 50/60 Hz, Single phase
Power Consumption (W)	4.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500

**Transmission specifications (BMS side)**

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



# MODBUS® Convertor for Indoor Unit



## UTY-VMSX

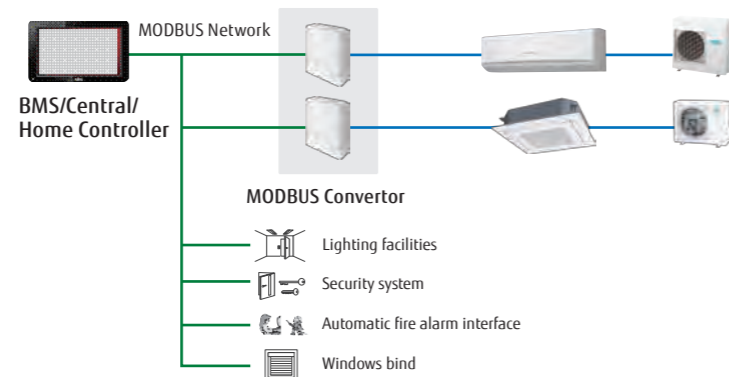


Max. Connectable  
**1** Single indoor unit

### 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.

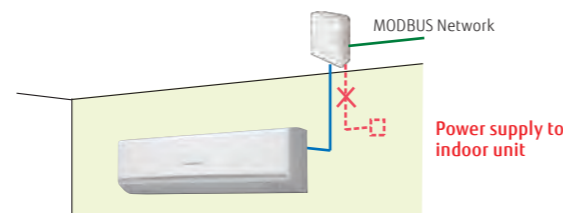


### Basic control

- 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.



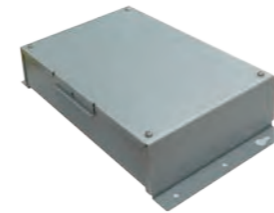
### Specifications

Model name	UTY-VMSX	
Power supply	DC 12 V	
Input Power (W)	Max. 1.2	
Temperature	Operating / Packaged	°C
		0-46/-10-60
Humidity	Operating / Packaged	%
		0-95 / 0-95
Dimensions (H×W×D)(mm)	140 × 117 × 43	
Weight (g)	200	
Maximum Connectable indoor unit number per 1 MODBUS Convertor	1	

# MODBUS® Convertor



## UTY-VMGX



Max. Controllable  
**9** units to one VRF

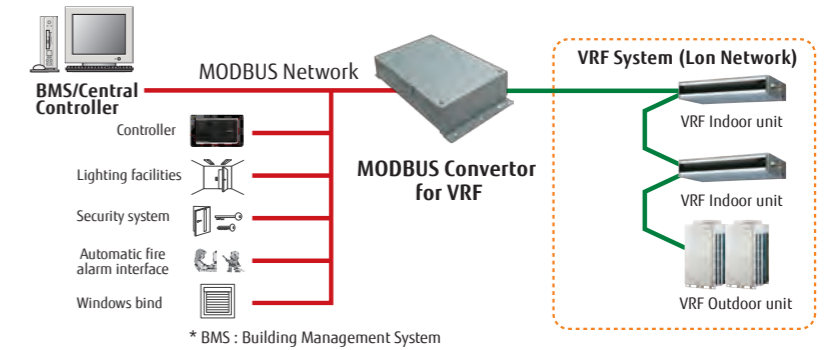
Max. Controllable  
**100** outdoor units

Selectable  
**128** indoor units

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



# MODBUS® Interface



## FJ-RC-MBS-1

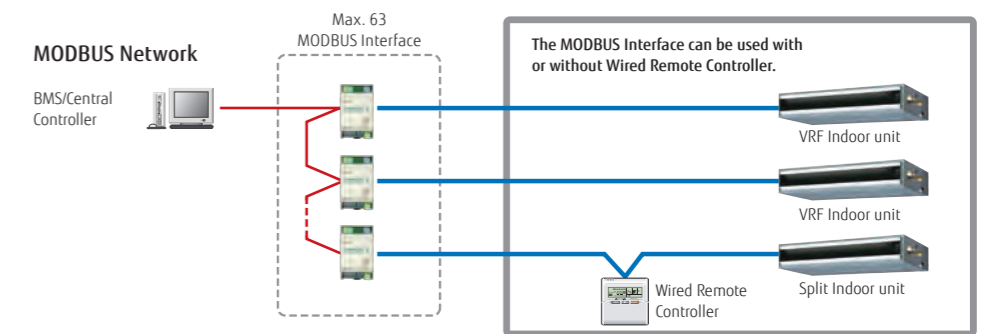


Max. Connectable  
**1** Single indoor unit

### Features

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

- Simple installation due to small and compact size.
- No separate external power supply required.
- The MODBUS Interface permits central monitoring and control of air conditioners from BMS.



### Specifications

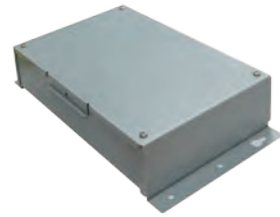
Model name	UTY-VMGX
Power Supply	AC 220-240 V
Input power (W)	Max. 2
Dimensions (H × W × D) (mm)	54 × 260 × 150
Weight (g)	1,100

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

**NEW** KNX® Convertor for VRF



UTY-VKGX



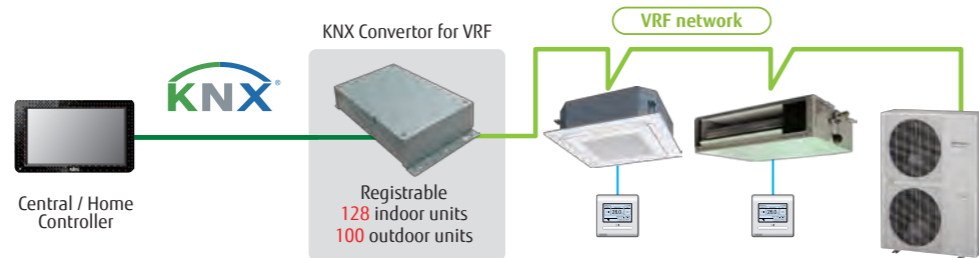
**Features**

KNX Convertor is useful for centralized control in a system.

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

Max. Controllable  
**100** outdoor units

Selectable  
**128** indoor units



**NEW** KNX® Convertor for Indoor Unit



UTY-VKSX

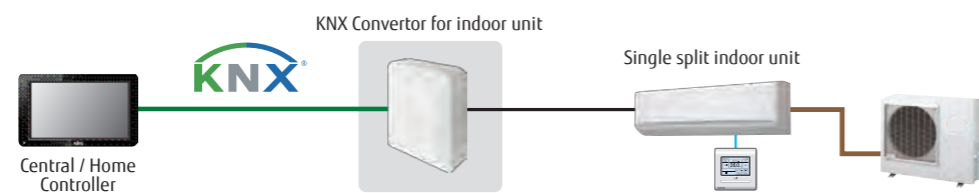


**Features**

KNX Convertor is useful for individual control of indoor.

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

Max. Connectable  
**1** Single indoor unit



**Specifications**

Model name	UTY-VKGX	UTY-VKSX
Power supply	220-240 V 50/60 Hz	(DC 12 V)
Power consumption (W)	1.5	0.6
Dimensions (H × W × D) (mm)	54 × 260 × 150	140 × 117 × 43
Weight (g)	1,200	215

KNX® Interface



FJ-RC-KNX-1i

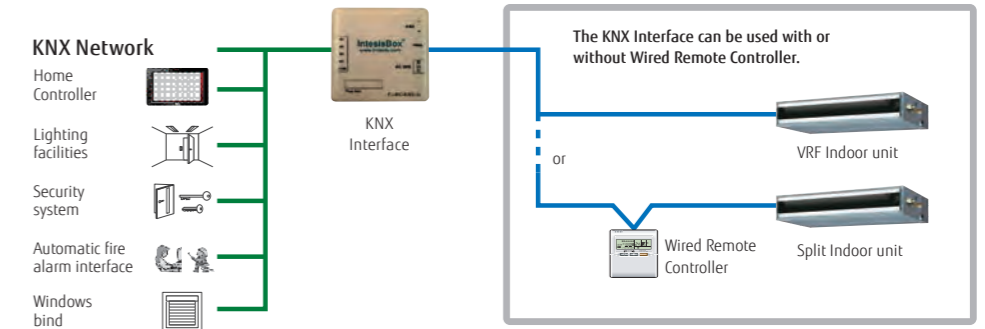


**Features**

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.

Max. Controllable  
**1** group



**Specifications**

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





# Wireless LAN Interface



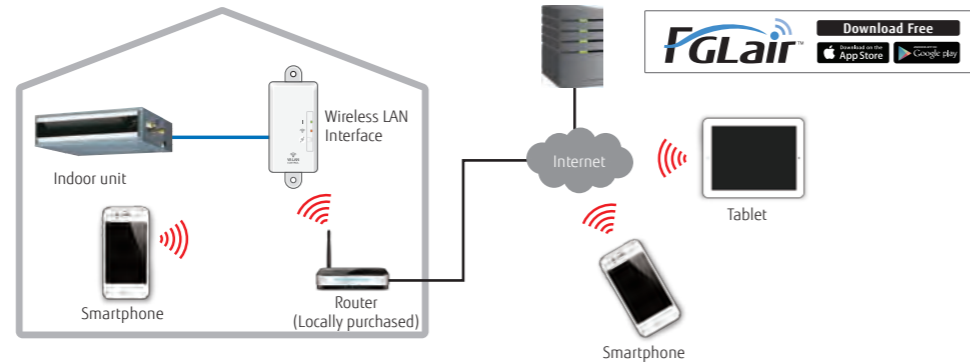
UTY-TFNXZ1 / UTY-TFSXZ1



Max. Connectable  
1 Single indoor unit

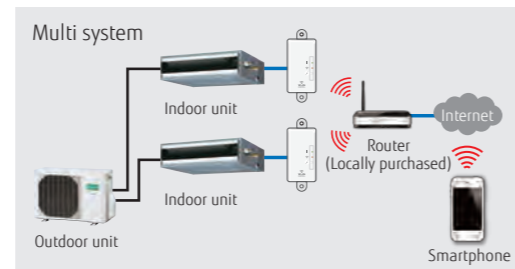
## Features

- 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



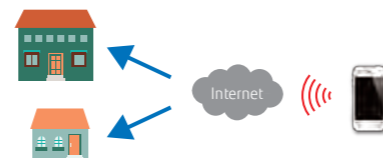
## Basic control

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



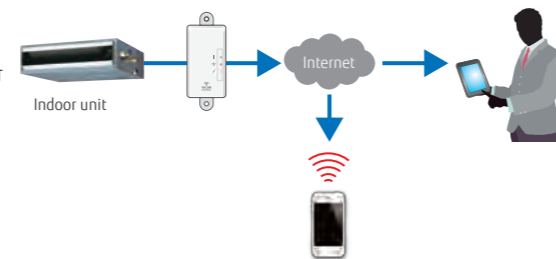
## Multiple air conditioning management

- 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-TFNXZ1 / UTY-TFSXZ1
Dimensions (H × W × D) (mm)	71×38×15
Weight (g)	85

# Wireless LAN Interface



FJ-RC-WIFI-1

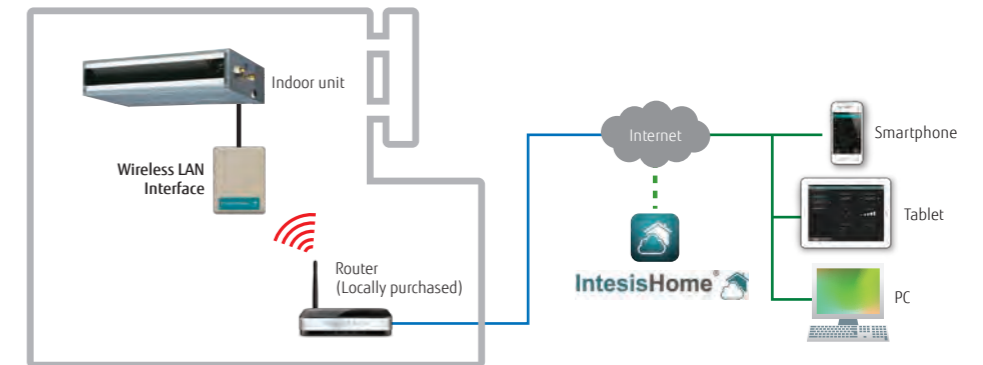


Max. Connectable  
1 Single indoor unit

## 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



## Advanced control (Optional functions)

- Climate working modes (ECO, Comfort, Powerful) (future release)
- Schedule functions (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)	108 × 70 × 28
Weight (g)	80

NEW

# External Switch Controller



UTY-TERX



Max. Controllable  
**1** group

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

## Installation example

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

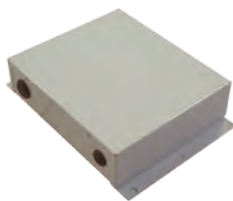


Human sensor equipment needs to be purchased locally. Human sensor is not mounted on the External Switch Controller.

# Signal Amplifier



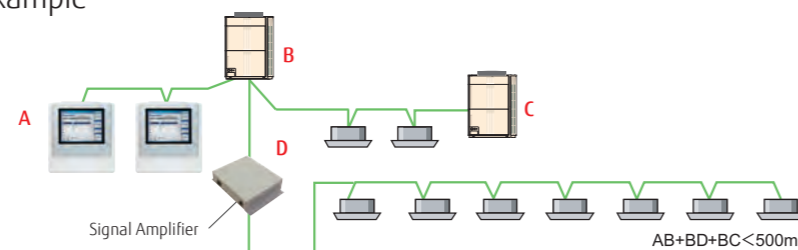
UTY-VSGXZ1



## Features

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

## Installation example



## Specifications

Model name	UTY-TERX
Power Supply	DC 6.5-16 V
Dimensions (H × W × D) (mm)	140 × 117 × 43
Weight (g)	250

DC 12 V is supplied by the indoor unit.

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

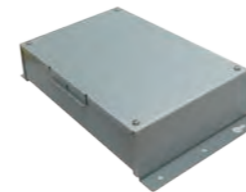
# Network Convertor for Single Split



UTY-VTGX / UTY-VTGXV



UTY-VTGX  
DC power supply type



UTY-VTGXV  
AC power supply type

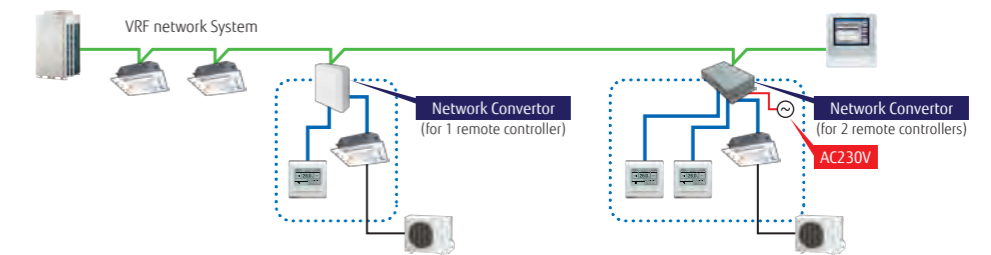
Max. Controllable  
**16**  
single indoor units  
Max. Controllable  
**100**  
Network Convertors

## Features

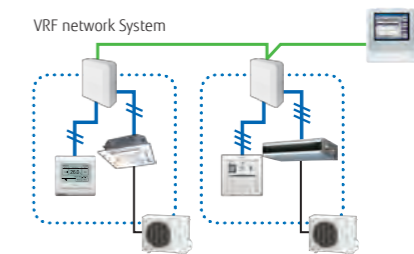
- The network convertors are required when connecting single split system to VRF network system.
- Compact and light weight design
- Connectable to both types of 2-wire and 3-wire remote controllers

## Installation example.

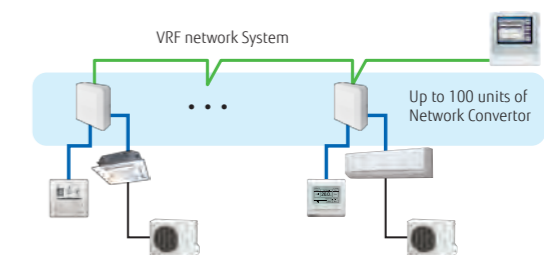
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60Hz) is required for 2 remote controllers type.



- 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 Convertor is connectable in one VRF network system)



## Specifications

Model name	UTY-VTGX		UTY-VTGXV
	polar 3-wire DC 12 V	non-polar 2-wire DC 12 V	50/60 Hz AC 220/240 V
Power Supply			
Input power (W)	Max. 1.2		Max. 3
Dimensions (H × W × D) (mm)	140 × 117 × 43		54 × 260 × 150
Weight (g)	250		1,100