
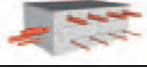


# Refrigerant piping parts

## RB unit

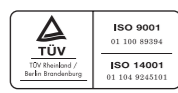
Type	Single type			Multi type
				
Model name	UTP-RX01AH	UTP-RX01BH	UTP-RX01CH	UTP-RX04BH
Number of connection port	1	1	1	4
Total connection capacity of indoor unit per 1 connection port(Q)	Q ≤ 8.0	Q ≤ 18.0	Q ≤ 28.0	Q ≤ 18.0
Number of connectable indoor unit per 1 connection port	3	8	8	8
Dimensions (HxWxD)	198 X 298 X 268			260 X 654 X 428



Simultaneous cooling & heating operation with  
**Heat Recovery System**



- High Energy Saving operation
- Simple to operate controller
- Easy Design & Easy Installation
- Speedy Maintenance



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

ISO 14001 Certified number : 01 104 9245101  
Fujitsu General (Thailand) Co., Ltd.



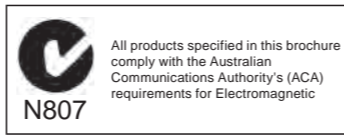
ISO 9001 Certified number : 01 100 79269  
Fujitsu General (Shanghai) Co., Ltd.

ISO 14001 Certified number : 272043  
Fujitsu General (Shanghai) Co., Ltd.



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

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



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6NNR20-1201E

FUJITSU GENERAL LIMITED



# Meets the needs for simultaneous cooling and heating operation

Heat recovery system provides optimum individual comfort for the users by changing over from cooling to heating

FUJITSU GENERAL'S  
**Heat Recovery System**

## AIRSTAGE VR-II



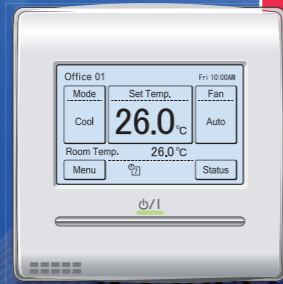
High energy efficiency operation using high efficient compressor!

0.1 Hz steps high precision all inverter compressor control



Simple to operate large LCD touch panel controller!

Wired remote controller with the largest LCD touch panel in the industry



New



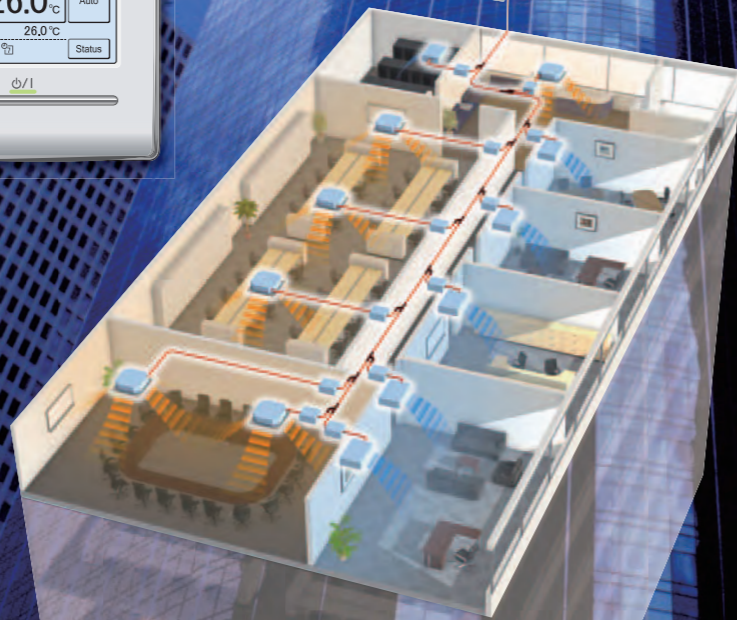
Easy design and easy installation with few restrictions!

Easy design and easy installation using flexible piping connections and RB units with few installation restrictions.



Supports speedy maintenance!

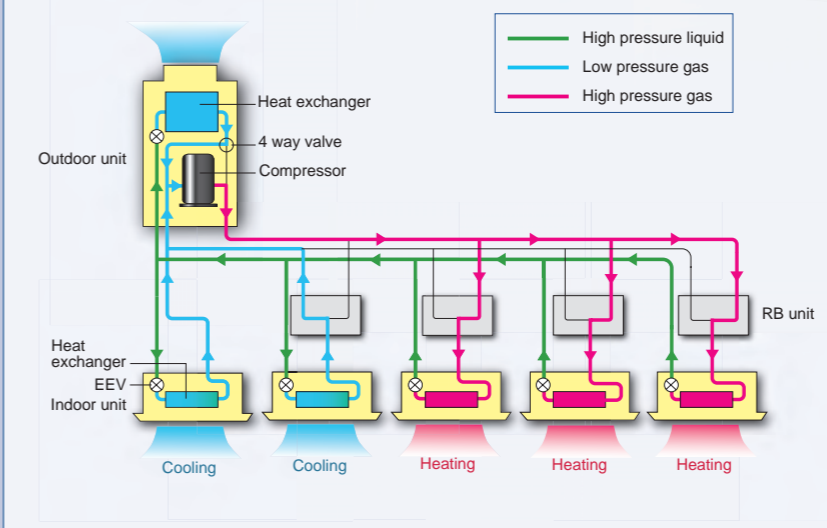
The indoor unit information can be checked using the remote controller to support speedy maintenance.



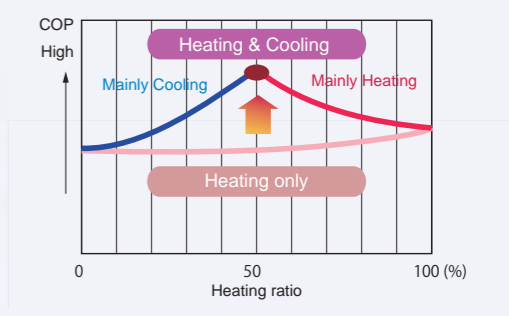
8 to 48HP



### System outline



**RB unit**  
Simultaneous cooling & heating operation is possible by RB unit. Operation that increases the energy saving effect is also possible by using the cooling exhaust heat as heating energy.



### INDOOR UNITS



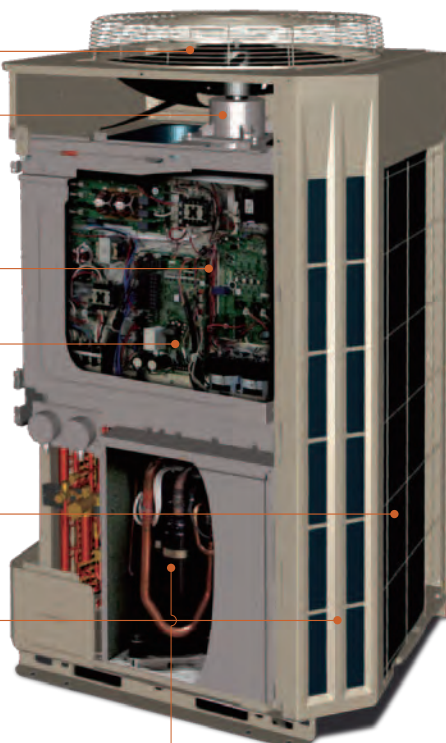
### CONTROLLERS





# High Energy Efficiency

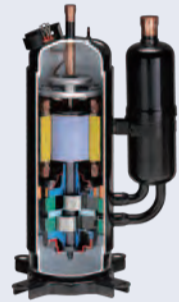
Energy efficiency technology that boosted operation efficiency



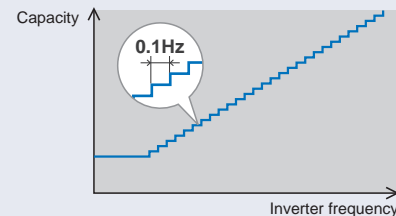
- Powerful large propeller fan**  
By using CFD\*1 technology, A newly designed fan achieves high performance and low noise operation.  
\*1. CFD = Computational Fluid Dynamics
- 3 phase DC fan motor**  
Efficiency is substantially improved by high voltage low current motor. Low noise is realized by DC fan motor.
- Subcool heat exchanger**  
High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.
- Sine-wave DC inverter control**  
High efficiency is realized by adoption of reduced switching loss IPM.
- 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.

**Remarkable Point!** High efficient compressor

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

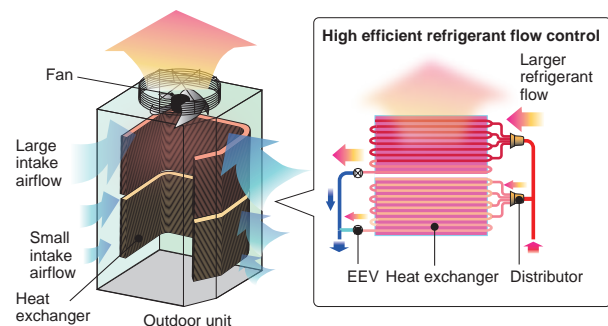


**High efficient compressor speed control**  
Comfortable space with small room temperature changes and little energy loss is created by 0.1Hz steps compressor speed control.



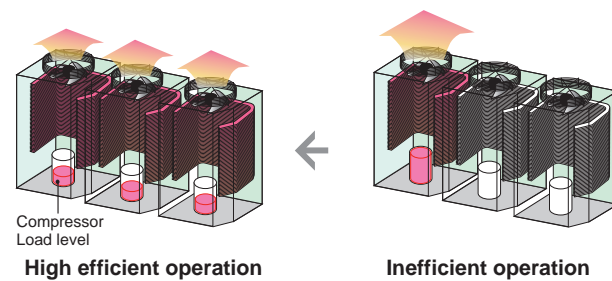
## Ideal heat exchanger path control

Heat exchanger is split into top and bottom. Heat exchange efficiency is improved by optimally adjusting the refrigerant flow of each exchanger by means of an expansion valve. A lot of refrigerant is supplied by the top side heat exchanger with a large intake air flow.



## Distributed operation control

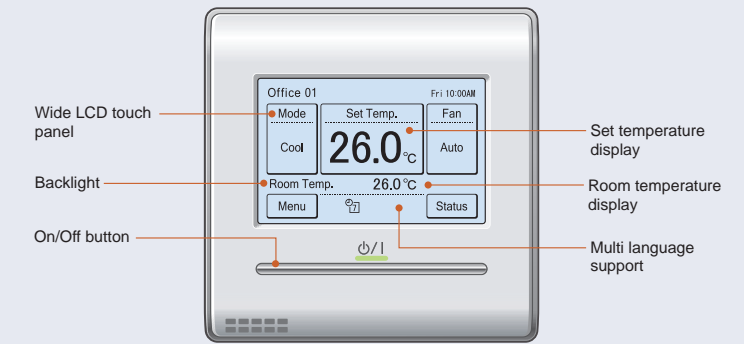
When units are connected, distributed operation is performed by each compressor. Efficiency is improved by operating the rotary compressor in the good efficiency low speed range by using the heat exchangers to the full.



# Comfort & Convenience

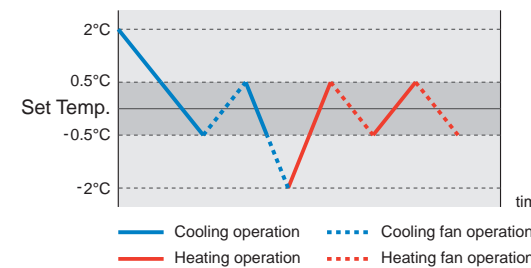
**Remarkable Point!** Simple operation wired remote controller (touch panel)

Large simple-to-operate LCD touch panel is easy to read. It displays various functions for saving energy, convenience, and management.

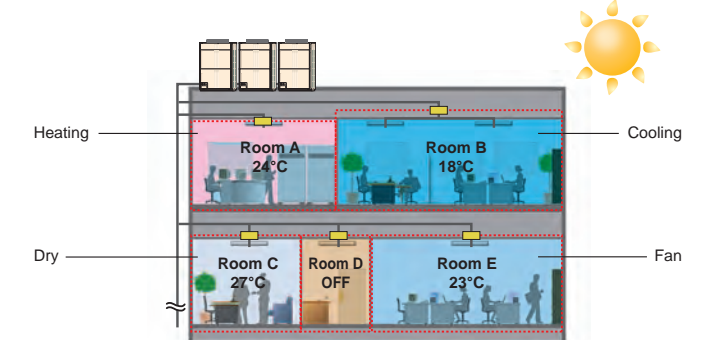


## Easy auto changeover function

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

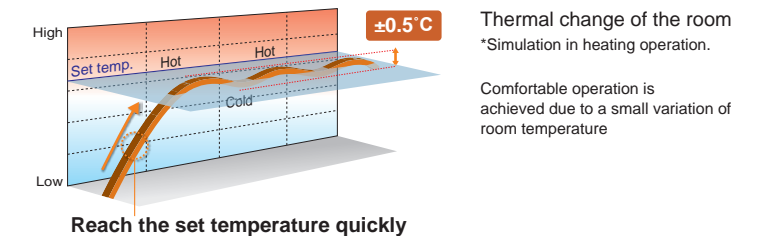


Automatic cooling/heating operation for each room is possible



## Precision refrigerant flow control

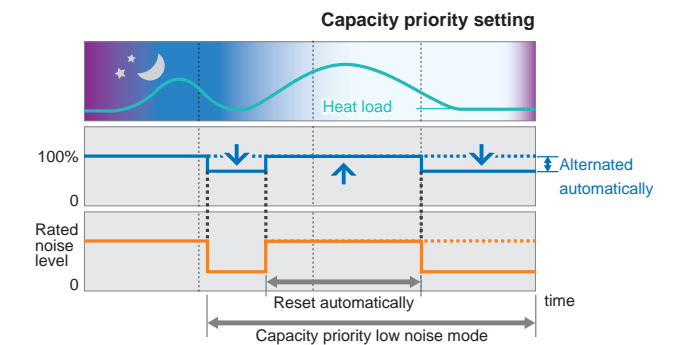
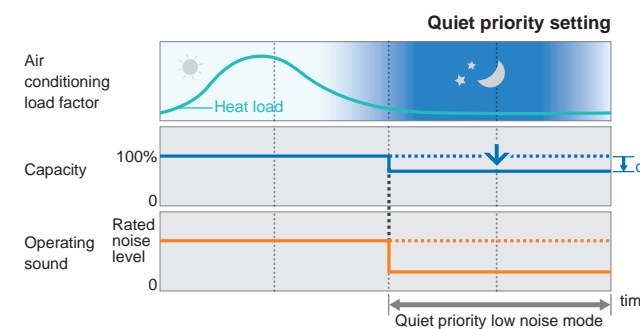
Precision and Smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows for a high precision comfortable temperature control of  $\pm 0.5^{\circ}\text{C}$ .



## Quiet operation

### Low noise mode

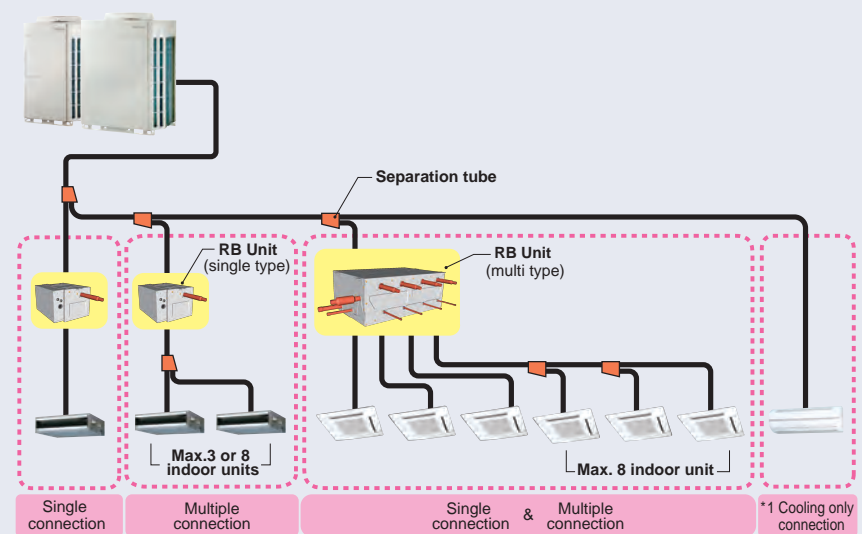
Two low noise modes can be selected automatically by quiet priority setting and capacity priority setting depending on the usage environment and outside temperature load. Outdoor unit external input and setting from system controller are possible.



# Design Flexibility

## Remarkable Point! Flexible piping connection

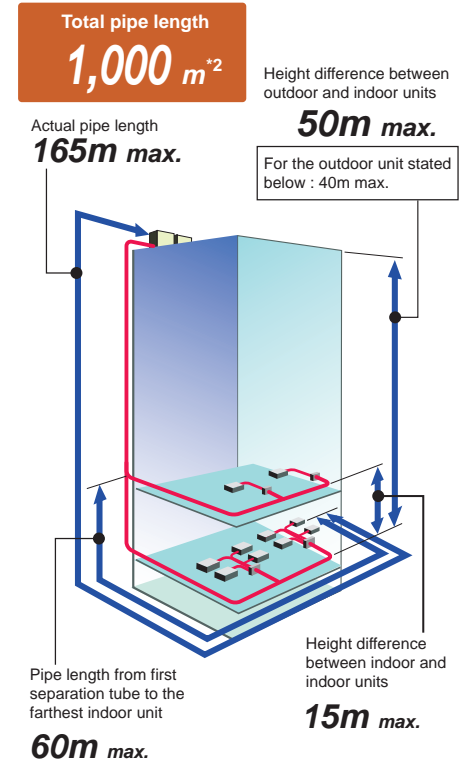
Installation is easier by the various methods of RB unit connection.



• The RB unit can be freely connected 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.

## Overall piping length 1,000m



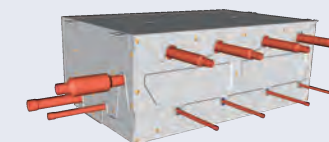
\*2. Note : When there is 1 outdoor unit, the maximum is 700m.

# Easy Installation

## Remarkable Point! Flexible installation of RB unit



RBunit (single type)

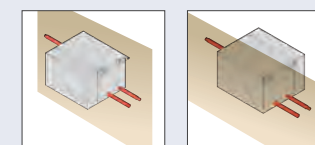


RBunit (multi type)

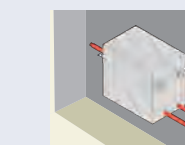
- Small & slim design saves space
- A drain pipe is not required
- The control box position can be changed to meet the installation conditions (Single type)
- Simple installation series connection design (Multi type)

### Single type

Position of the control box can be changed to match the installation site.



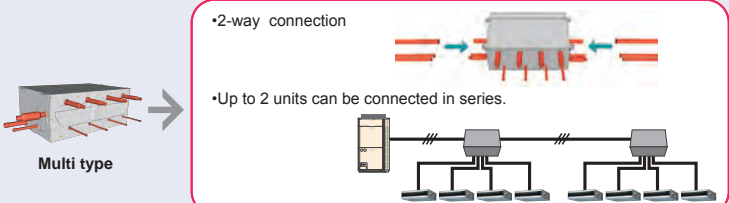
Both-sides installation freedom of the control box



Upper-sides installation of the control box in a narrow space

### Multi type

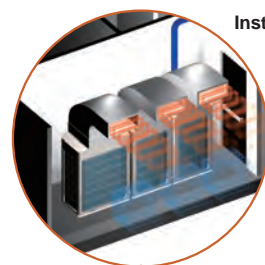
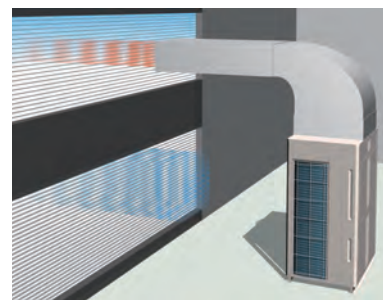
Connection position and continuous connection matched to the installation site are possible.



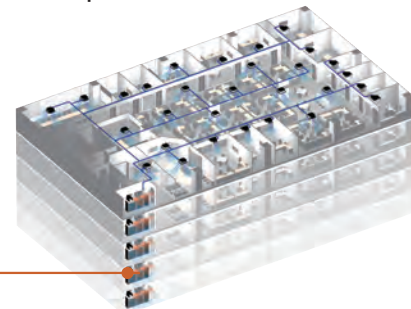
## High static pressure of 80Pa

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

80 Pa as standard



Installation Example

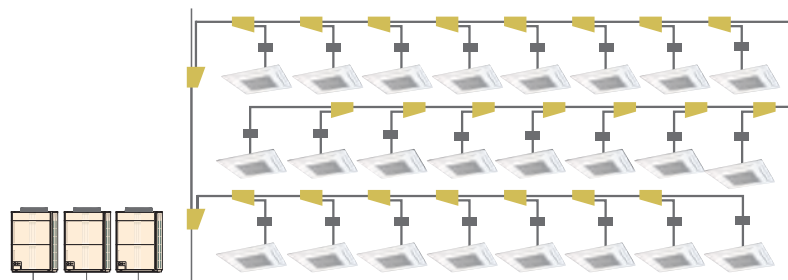


## High capacity connection

Various combination from 8HP to 48HP with 2HP increments. 12 types, 55 models of indoor units can be selected ranging from 2.2kW to 25kW in capacity. A maximum of 150% indoor unit connectable capacity.

Connectable indoor unit capacity  
50% to 150%

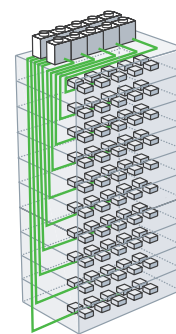
Connectable indoor unit number  
up to 64



## Simple signal line connection

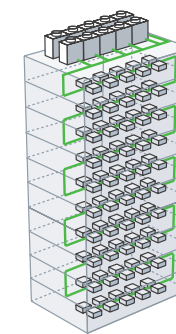
Installation is made as the communication wiring can be connected continuously to RB units and outdoor units.

Note: In a multiple refrigerant system installation, Automatic addressing sequence cannot be initiated

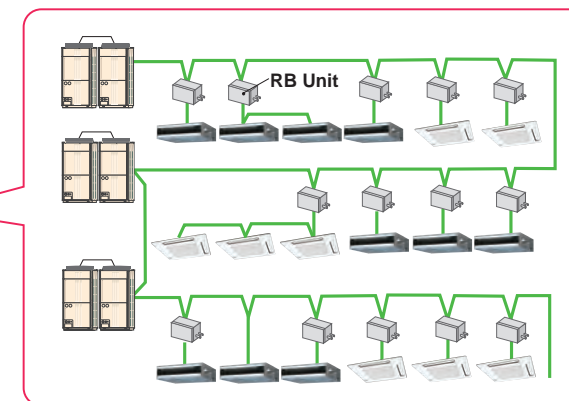


Parallel connection

or



Serial connection

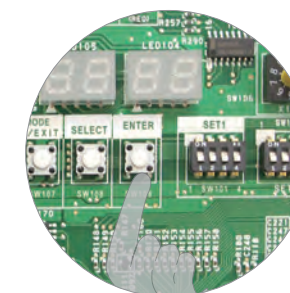


Up to maximum length 3,600m

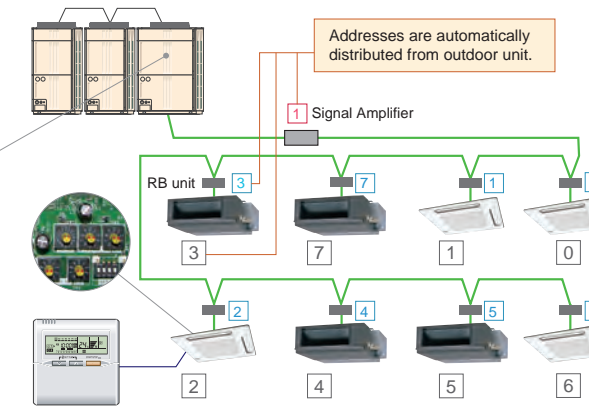
## Automatic address setting

The address of each indoor unit, RB unit, and Signal Amplifier can be automatically set by button switch of outdoor unit.

Automatic address setting is performed at outdoor unit



Press the pushbutton switch of outdoor unit.



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

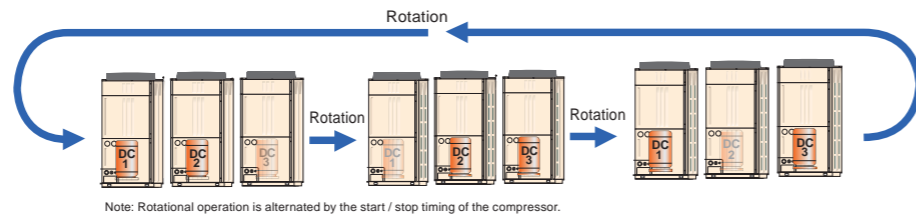


# High Reliability

## Life-extending operation

### Outdoor unit rotational operation

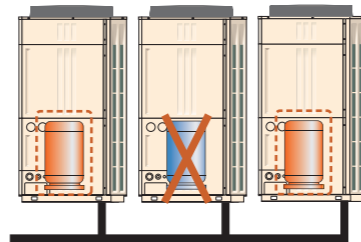
The compressor starting order is rotated so that the running time is shared.



## Backup operation

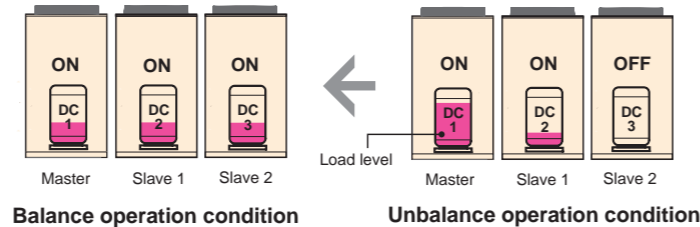
If one compressor fails, backup operation will be performed by the remaining compressors as emergency\*.

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



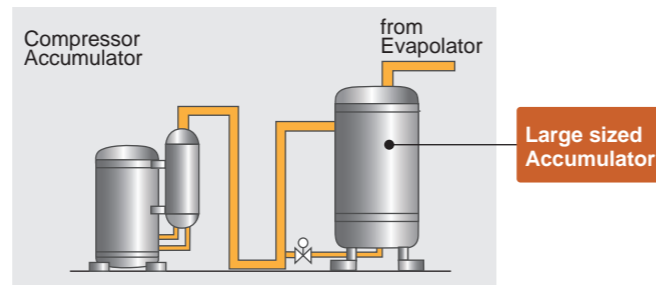
## Refrigerant circulation control

Introduced innovative compressor control logic in order to balance refrigerant mass flow rate of each outdoor unit by controlling inverter speed.



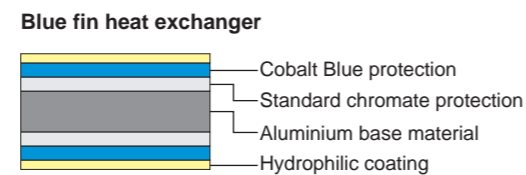
## Liquid back flow protection

By adopting a large sized accumulator, the refrigerant which is not completely vaporized is left inside the accumulator and only a stable gas is fed to the accumulator.



## Adoption of blue fin heat exchanger

Corrosion resistant of the heat exchanger has been improved by the introduction of blue fin treatment to the outdoor unit's heat exchanger.



# Easy Maintenance & Service

## Various information or error status can be checked easily via Wired Remote Controller

Address, sensor values, and error status can be checked.

Wired Remote Controller (Touch panel)

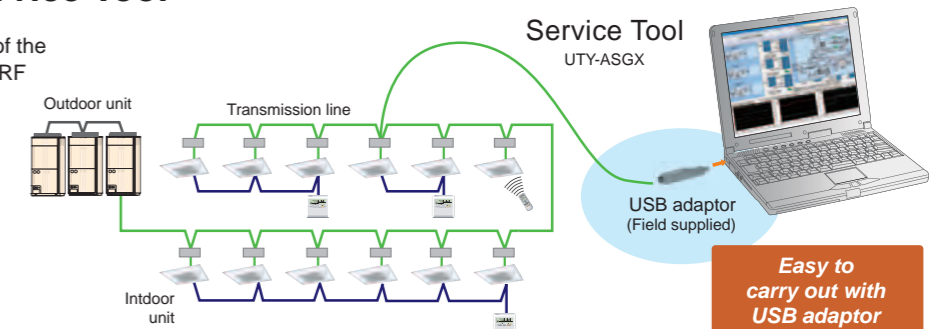
## Design for easy service and maintenance

Inspection and replacement of main parts are easier due to innovative construction and an LED operational display.

- Consolidated electrical components make maintenance easy.
- Easy-to-read 7-segment LED display which explains operational and trouble status.
- Movable PCB panel that allows for easier maintenance work behind the PCB.
- Split front panel allows for maintenance from top or bottom of the outdoor unit.
- Expansion of work space.
- Maintenance of electrical components, valves, and compressor parts from the front is possible.
- Solenoid valve can be removed from the side.
- Electric box can be temporarily fixed by sliding down.










## Trouble diagnosis by Service Tool

Suitable maintenance is possible by analysis of the operation data. Connection anywhere in the VRF network system is easy.









# Outdoor units lineup








## Space saving combination

Rating Capacity range	HP	8	10	12	14	16	18	20	22	24
										
Model name		AJ*A72GALH	AJ*A90GALH	AJ*108GALH	AJ*126GALH	AJ*144GALH	AJ*162GALH	AJ*180GALH	AJ*198GALH	AJ*216GALH

Rating Capacity range	HP	26	28	30	32	34	36	38	40	42	44	46	48
													
Model name		AJ*234GALH	AJ*252GALH	AJ*270GALH	AJ*288GALH	AJ*306GALH	AJ*324GALH	AJ*342GALH	AJ*360GALH	AJ*378GALH	AJ*396GALH	AJ*414GALH	AJ*432GALH

## Energy efficiency combination

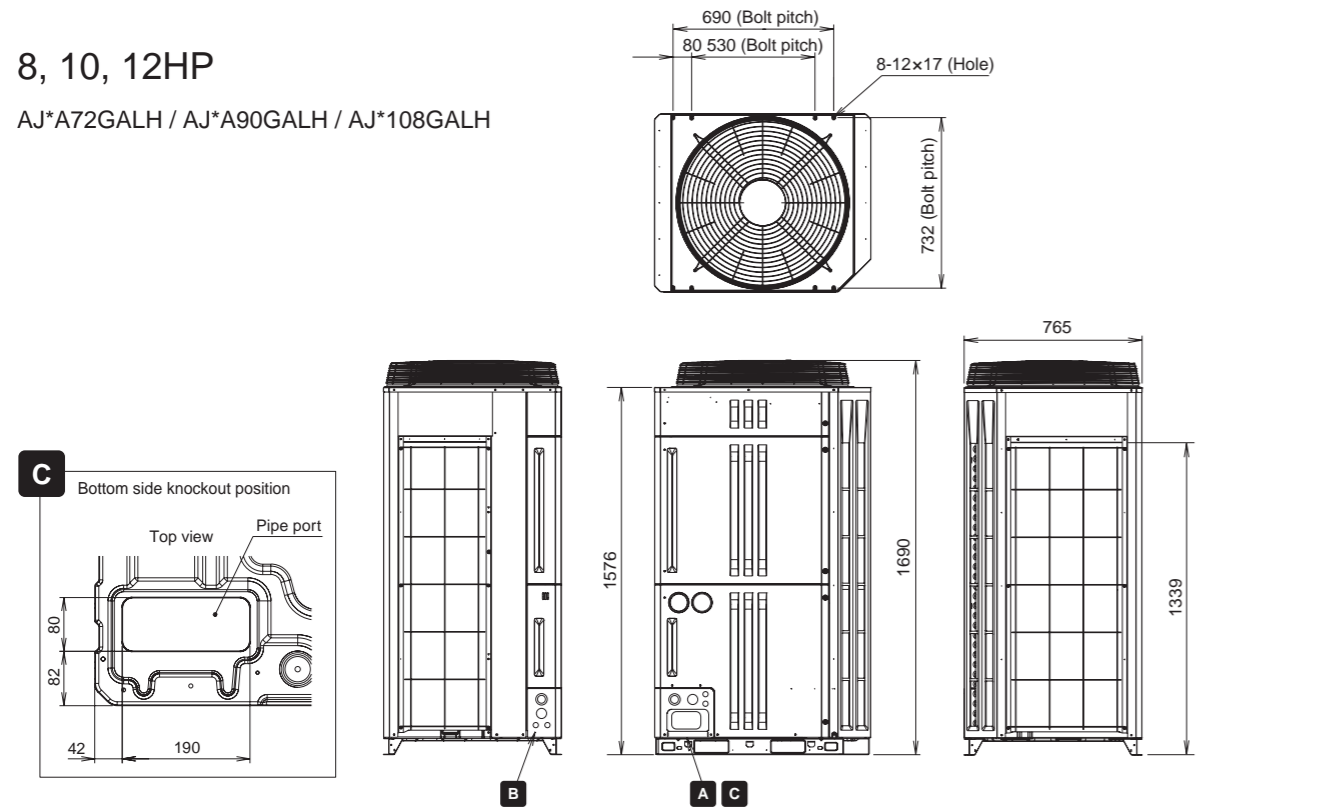
Rating Capacity range	HP	16	22	24	26	28	30
							
Model name		AJ*144GALHH	AJ*198GALHH	AJ*216GALHH	AJ*234GALHH	AJ*252GALHH	AJ*270GALHH

Rating Capacity range	HP	32	34	36	38	40	42	44
								
Model name		AJ*288GALHH	AJ*306GALHH	AJ*324GALHH	AJ*342GALHH	AJ*360GALHH	AJ*378GALHH	AJ*396GALHH

## Dimensions

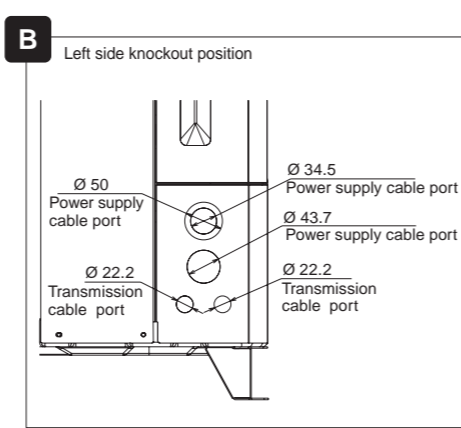
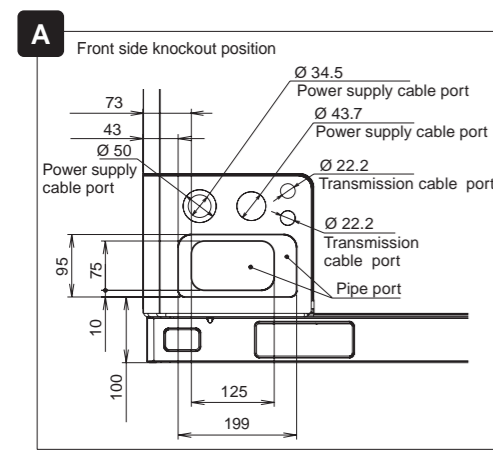
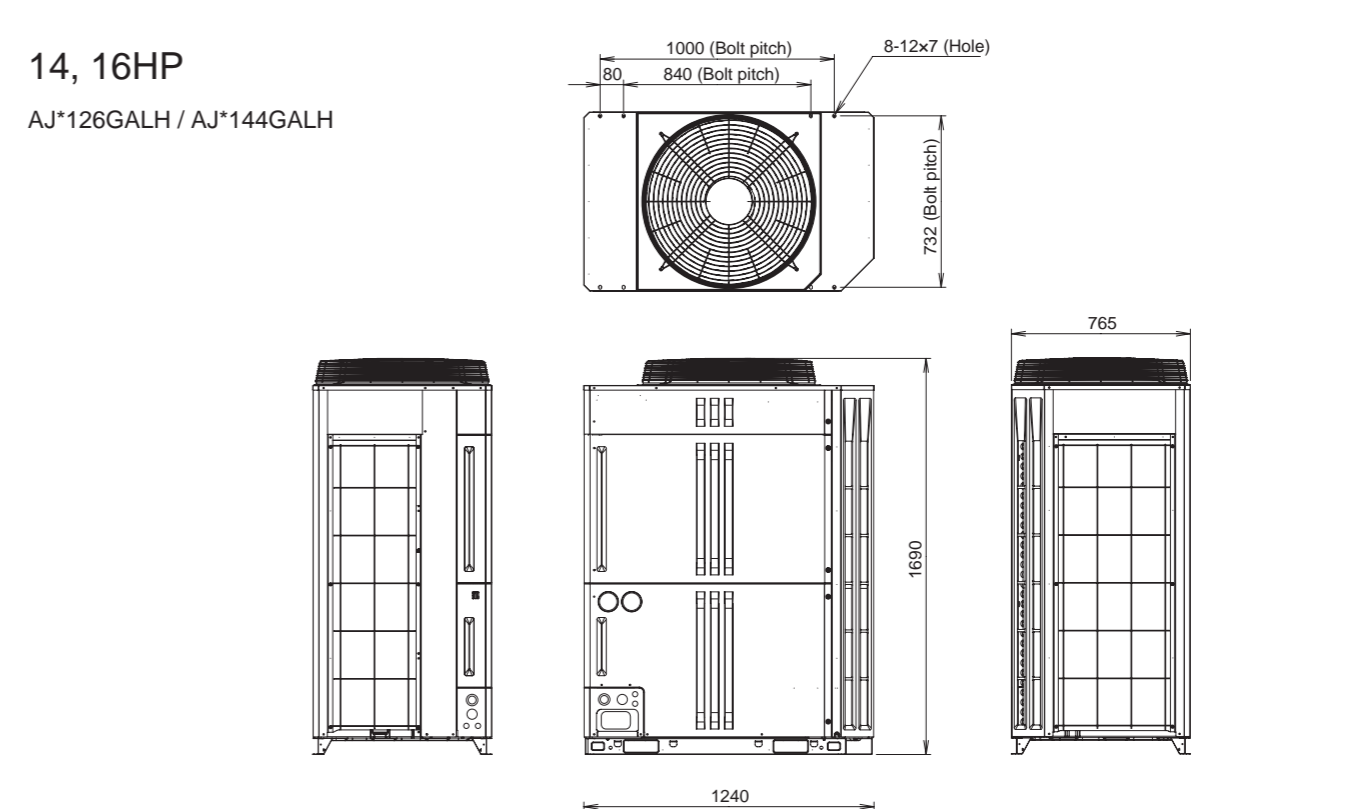
### 8, 10, 12HP

AJ\*A72GALH / AJ\*A90GALH / AJ\*108GALH












### 14, 16HP













AJ\*126GALH / AJ\*144GALH









# Specifications








## Space saving combination

Rating Capacity range		HP	8	10	12	14	16	18	20	22	24	
												
Model name			AJ*A72GALH	AJ*A90GALH	AJ*108GALH	AJ*126GALH	AJ*144GALH	AJ*162GALH	AJ*180GALH	AJ*198GALH	AJ*216GALH	
Unit 1 Unit 2 Unit 3			AJ*A72GALH	AJ*A90GALH	AJ*108GALH	AJ*126GALH	AJ*144GALH	AJ*A90GALH AJ*A72GALH	AJ*A90GALH AJ*A90GALH	AJ*108GALH AJ*A90GALH	AJ*108GALH AJ*108GALH	
Maximum Connectable Indoor Unit*1			15	16	17	21	24	27	30	32	35	
Indoor unit connectable capacity		Cooling	kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.4-67.2	25.2-75.6	28.0-83.9	30.8-92.3	33.5-100.5
Power source		3-phase 4 wire, 400 V, 50Hz										
Capacity		Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0
		Heating	kW	25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0	75.0
Maximum external static pressure		Pa		80	80	80	80	80	80	80	80	80
Heat exchanger fin		Blue fin										
Dimensions		Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
		Width	mm	930	930	930	1,240	1,240	930x2	930x2	930x2	930x2
		Depth	mm	765	765	765	765	765	765	765	765	765
Connection pipe diameter		Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88
		Discharge Gas	mm	15.88	19.05	19.05	22.22	22.22	22.22	28.58	28.58	28.58
		Suction Gas	mm	22.22	22.22	28.58	28.58	28.58	28.58	34.92	34.92	34.92
Operation range		Cooling	°C	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
		Heating	°C	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Rating Capacity range		HP	26	28	30	32	34	36	38	40	42	44	46	48	
															
Model name			AJ*234GALH	AJ*252GALH	AJ*270GALH	AJ*288GALH	AJ*306GALH	AJ*324GALH	AJ*342GALH	AJ*360GALH	AJ*378GALH	AJ*396GALH	AJ*414GALH	AJ*432GALH	
Unit 1 Unit 2 Unit 3			AJ*144GALH AJ*90GALH	AJ*144GALH AJ*108GALH	AJ*144GALH AJ*126GALH	AJ*144GALH AJ*144GALH	AJ*108GALH AJ*108GALH AJ*A90GALH	AJ*108GALH AJ*108GALH AJ*108GALH	AJ*144GALH AJ*108GALH AJ*A90GALH	AJ*144GALH AJ*108GALH AJ*108GALH	AJ*144GALH AJ*144GALH AJ*A90GALH	AJ*144GALH AJ*144GALH AJ*108GALH	AJ*144GALH AJ*144GALH AJ*126GALH	AJ*144GALH AJ*144GALH AJ*144GALH	
Maximum Connectable Indoor Unit*1			39	42	45	48	50	53	57	60	63	64	64	64	
Indoor unit connectable capacity		Cooling	kW	36.8-110.3	39.3-117.8	42.5-127.5	45.0-135.0	47.5-142.5	50.3-150.8	53.5-160.5	56.0-168.0	59.3-177.8	61.8-185.3	65.0-195.0	67.5-202.5
Power source		3-phase 4 wire, 400 V, 50Hz													
Capacity		Cooling	kW	73.0	78.5	85.0	90.0	95.0	100.5	106.5	112.0	118.5	123.5	130.0	135.0
		Heating	kW	81.5	87.5	95.0	100.0	106.5	112.5	119.0	125.0	131.5	137.5	145.0	150.0
Maximum external static pressure		Pa		80	80	80	80	80	80	80	80	80	80	80	80
Heat exchanger fin		Blue fin													
Dimensions		Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
		Width	mm	930	930	930	1,240	1,240	930x3	930x3	930x2+1,240	930x2+1,240	930x2+1,240	930x2+1,240	930x2+1,240
		Depth	mm	765	765	765	765	765	765	765	765	765	765	765	
Connection pipe diameter		Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88	
		Discharge Gas	mm	15.88	19.05	19.05	22.22	22.22	22.22	28.58	28.58	28.58	28.58	28.58	
		Suction Gas	mm	22.22	22.22	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	
Operation range		Cooling	°C	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	
		Heating	°C	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	

## Energy efficiency combination

Rating Capacity range		HP	16	22	24	26	28	30	
									
Model name			AJ*144GALHH	AJ*198GALHH	AJ*216GALHH	AJ*234GALHH	AJ*252GALHH	AJ*270GALHH	
Unit 1 Unit 2 Unit 3			AJ*A72GALH AJ*A72GALH	AJ*126GALH AJ*A72GALH	AJ*A72GALH AJ*A72GALH AJ*A72GALH	AJ*A90GALH AJ*A72GALH AJ*A72GALH	AJ*A90GALH AJ*A90GALH AJ*A72GALH	AJ*A90GALH AJ*A90GALH AJ*A90GALH	
Maximum Connectable Indoor Unit*1			24	33	36	39	42	45	
Indoor unit connectable capacity		Cooling	kW	22.4-67.2	31.2-93.6	33.6-100.8	36.4-109.2	39.2-117.4	42.4-127.2
Power source		3-phase 4 wire, 400 V, 50Hz							
Capacity		Cooling	kW	44.8	62.4	67.2	72.8	78.4	84.0
		Heating	kW	50.0	70.0	75.0	81.5	88.0	94.5
Maximum external static pressure		Pa		80	80	80	80	80	80
Heat exchanger fin		Blue fin							
Dimensions		Height	mm	1,690	1,690	1,690	1,690	1,690	1,690
		Width	mm	930x2	930+1,240	930x3	930x3	930x3	930x3
		Depth	mm	765	765	765	765	765	765
Connection pipe diameter		Liquid	mm	12.70	15.88	15.88	15.88	15.88	19.05
		Discharge Gas	mm	22.22	28.58	28.58	28.58	28.58	28.58
		Suction Gas	mm	28.58	34.92	34.92	34.92	34.92	34.92
Operation range		Cooling	°C	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
		Heating	°C	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Rating Capacity range		HP	32	34	36	38	40	42	44	
										
Model name			AJ*288GALHH	AJ*306GALHH	AJ*324GALHH	AJ*342GALHH	AJ*360GALHH	AJ*378GALHH	AJ*396GALHH	
Unit 1 Unit 2 Unit 3			AJ*126GALH AJ*A90GALH AJ*A72GALH	AJ*126GALH AJ*A90GALH AJ*A90GALH	AJ*126GALH AJ*126GALH AJ*A72GALH	AJ*126GALH AJ*126GALH AJ*A90GALH	AJ*144GALH AJ*126GALH AJ*A90GALH	AJ*126GALH AJ*126GALH AJ*126GALH	AJ*144GALH AJ*126GALH AJ*126GALH	
Maximum Connectable Indoor Unit*1			48	51	54	57	60	64	64	
Indoor unit connectable capacity		Cooling	kW	44.9-134.1	48.0-143.8	51.2-153.6	54.0-162.0	56.8-170.2	60.0-180.0	62.5-187.5
Power source		3-phase 4 wire, 400 V, 50Hz								
Capacity		Cooling	kW	90.4	96.0	102.4	108.0	113.0	120.0	125.0
		Heating	kW	101.5	108.0	115.0	121.5	126.5	135.0	140.0
Maximum external static pressure		Pa		80	80	80	80	80	80	80
Heat exchanger fin		Blue fin								
Dimensions		Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690
		Width	mm	930x2+1,240	930x2+1,240	930+1,240x2	930+1,240x2	930+1,240x2	1,240x3	1,240x3
		Depth	mm	765	765	765	765	765	765	765
Connection pipe diameter		Liquid	mm	19.05	19.05	19.05	19.05	19.05	19.05	19.05
		Discharge Gas	mm	28.58	28.58	28.58	34.92	34.92	34.92	34.92
		Suction Gas	mm	34.92	34.92	41.27	41.27	41.27	41.27	41.27
Operation range		Cooling	°C	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
		Heating	°C	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

AJ\* : AJY(FUJITSU), AJH(GENERAL)

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.







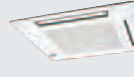
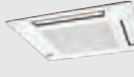
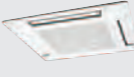


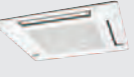
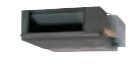






































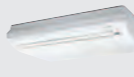












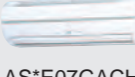
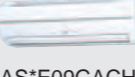
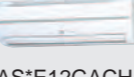
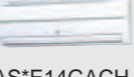
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.  
When cooling operation will be conducted at outdoor air temperature below -5°C, the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

\*1 Minimum connectable indoor unit number is 2.

# Indoor Unit Lineup

Comprehensive range of indoor units of variety design and capacity ranges available which can be selected to suit any air conditioning needs.

12 Types, 55 Models, Capacity range from 2.2kW to 25.0kW

Capacity range (kW)		2.2	2.8	3.6	4.5	5.6	7.1	9.0	11.2	12.5	14.0	18.0	22.4	25.0		
Model code		7	9	12	14	18	24	30	36	45	54	60	72	90		
Cassette	4-way Compact Cassette	 AUXB07GALH	 AUXB09GALH	 AUXB12GALH	 AUXB14GALH	 AUXB18GALH	 AUXB24GALH									
	4-way Cassette					 AUXD18GALH	 AUXD24GALH	 AUXA30GALH	 AUXA36GALH	 AUXA45GALH	 AUXA54GALH					
Concealed Duct	Low Static Pressure Duct	 ARXB07GALH	 ARXB09GALH	 ARXB12GALH	 ARXB14GALH	 ARXB18GALH	 ARXB24GALH	 ARXB30GALH	 ARXB36GALH	 ARXB45GALH						
	Slim Duct (Drain pump internal)	 ARXD07GALH	 ARXD09GALH	 ARXD12GALH	 ARXD14GALH	 ARXD18GALH	 ARXD24GALH									
	Medium Static Pressure Duct						 ARXA24GALH	 ARXA30GALH	 ARXA36GALH	 ARXA45GALH						
	High Static Pressure Duct								 ARXC36GATH	 ARXC45GATH	 ARXC60GATH	 ARXC72GATH	 ARXC90GATH			
Floor	Floor standing (*Same as Ceiling models)			 AB*A12GATH	 AB*A14GATH	 AB*A18GATH	 AB*A24GATH									
	Concealed Floor mounted (*Same as Low Static Pressure Duct models)	 ARXB07GALH	 ARXB09GALH	 ARXB12GALH	 ARXB14GALH	 ARXB18GALH										
	Slim Concealed Floor mounted (*Same as Slim Duct models)	 ARXD07GALH	 ARXD09GALH	 ARXD12GALH	 ARXD14GALH	 ARXD18GALH	 ARXD24GALH									
Ceiling	Ceiling			 AB*A12GATH	 AB*A14GATH	 AB*A18GATH	 AB*A24GATH	 AB*A30GATH	 AB*A36GATH	 AB*A45GATH	 AB*A54GATH					
Wall Mounted	Wall Mounted	 AS*A07GACH	 AS*A09GACH	 AS*A11GACH	 AS*A14GACH	 AS*A18GACH	 AS*A24GACH	 AS*A30GACH								
	Wall Mounted (EEV external)	 AS*E07GACH	 AS*E09GACH	 AS*E12GACH	 AS*E14GACH											

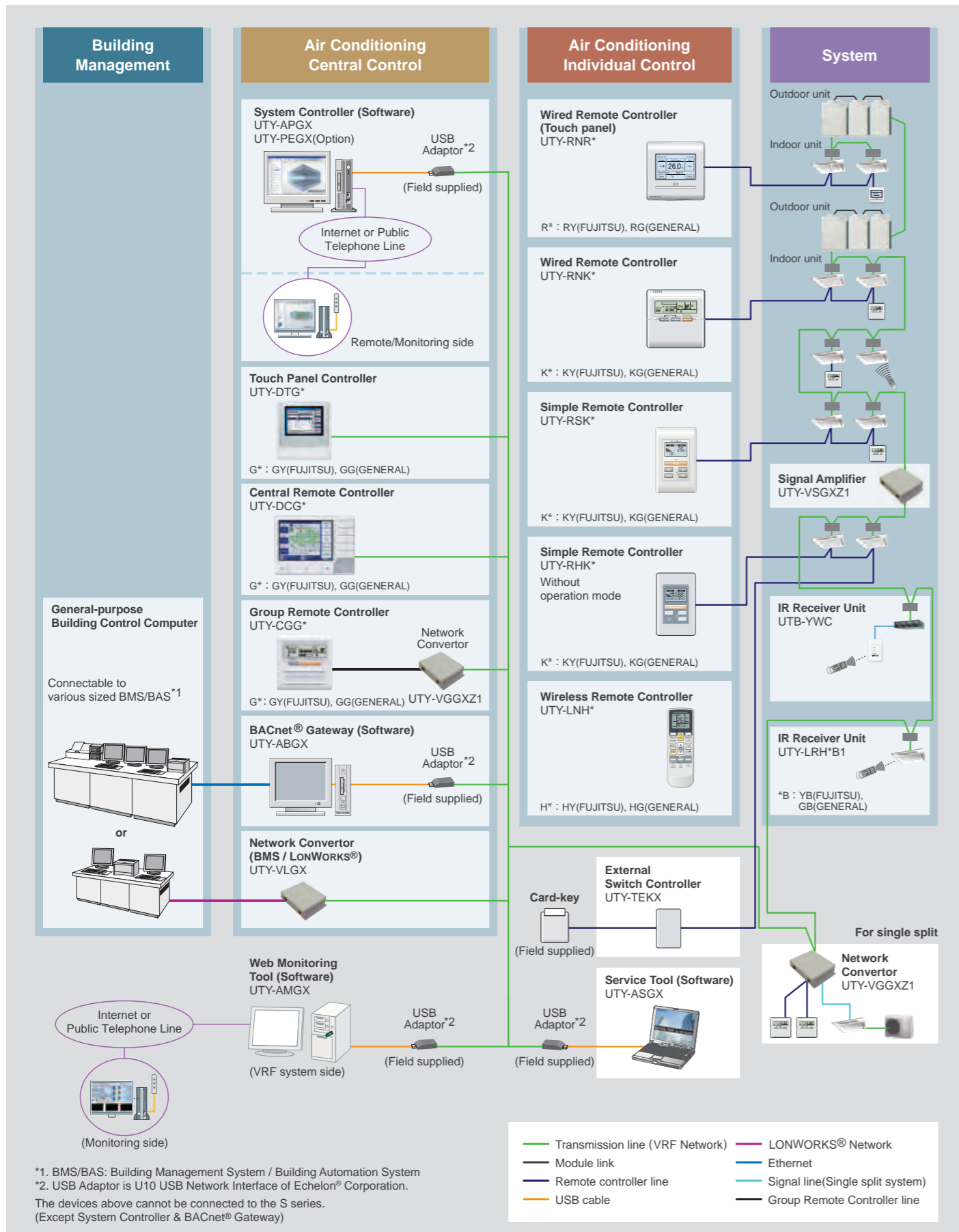
With this model, connection of EV kit is necessary.

AB\* : ABY(FUJITSU), ABH(GENERAL) AS\* : ASY(FUJITSU), ASH(GENERAL)



# Control System

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



## Individual controller

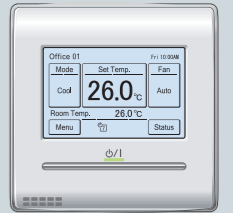
### Wired Remote Controller (Touch panel)

UTY-RNR\*

- LCD easy finger touch operation
- Built-in weekly/Daily timer(ON/OFF,Temp.,Mode)
- Temperature upper and lower limit setting
- Background light enables easy operation in a darkened room
- Anti-cool /Anti-heat and Anti-freeze setting
- Room temperature display
- Control up to 16 indoor units
- Corresponds to 7 different languages •Non-polar 2 wires

R\* : RY(FUJITSU), RG(GENERAL)

Max. controllable  
16  
indoor units



### Wired Remote Controller

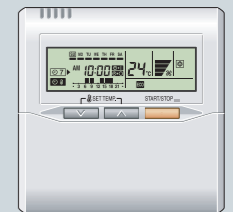
UTY-RNK\*

The room temperature can be controlled by detecting the temperature accurately from the built-in sensor

- 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.

K\* : KY(FUJITSU), KG(GENERAL)

Max. controllable  
16  
indoor units



### Simple Remote Controller

UTY-RSK\*

UTY-RHK\* (Without operation mode)

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.

K\* : KY(FUJITSU), KG(GENERAL)

Max. controllable  
16  
indoor units



UTY-RSK\* UTY-RHK\*  
Without operation mode

### Wireless Remote Controller

UTY-LNH\*

Simple and sophisticated operations with a choice of 4 daily timers

- A single controller controls up to 16 indoor units.

H\* : HY(FUJITSU), HG(GENERAL)

Max. controllable  
16  
indoor units

Selectable  
4  
daily timers

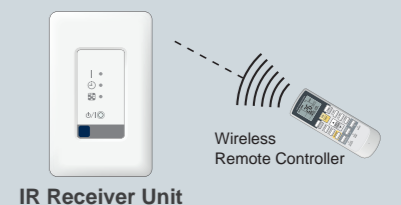


UTY-LNH\*

### IR Receiver Unit

UTB-YWC

Necessary to control for all duct type by Wireless Remote Controller

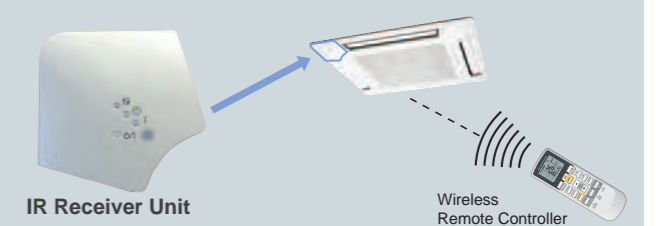


IR Receiver Unit

### IR Receiver Unit

UTY-LRH\*B1

Cassette type indoor unit can be controlled with Wireless Remote Controller



IR Receiver Unit

Wireless Remote Controller

\*B : YB(FUJITSU), GB(GENERAL)

# Control System

## Central controller

### Group Remote Controller

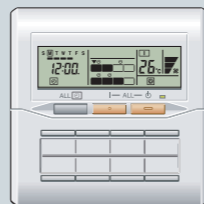
UTY-CGG\*

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)

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

Max. controllable  
**8**  
remote  
controller groups



G\* : GY(FUJITSU), GG(GENERAL)

### Central Remote Controller

UTY-DCG\*

Central control of small- and medium-sized buildings and tenants.

- Individual control and monitor of 100 indoor units
- 5 inch TFT color screen
- User friendly view 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



G\* : GY(FUJITSU), GG(GENERAL)

### Touch Panel Controller

UTY-DTG\*

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

Max. controllable  
**400**  
indoor units



G\* : GY(FUJITSU), GG(GENERAL)

### System Controller

Software

UTY-APGX

UTY-PEGX (Energy manager-Option)

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.
- Supports VRF VR-II as well as S/V and V-II series.
- In addition to air conditioning precision control function, central remote control, electricity charge calculation, schedule management, and energy saving functions are strengthened and building manager and owner needs are met.
- Corresponds to 7 different languages (English, Chinese, French, German, Spanish, Russian, Polish)

Max. controllable  
**4**  
VRF network systems

Max. controllable  
**400**  
outdoor units

Max. controllable  
**1,600**  
indoor units



## Service & Maintenance Tool

### Service Tool

Software

UTY-ASGX

Extensive monitoring and analysis functions for installation and maintenance

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

Max. Monitor  
and control  
**400**  
indoor units

Max. Monitor  
and control  
**100**  
outdoor units



## Service & Maintenance Tool

### Web Monitoring Tool

Software

UTY-AMGX

Product features

- Troubleshooting is performed by monitoring each air conditioning unit remotely during periodical system checks.
- Error notification can be automatically transmitted to several locations using the internet\*1.
- Requires either a dedicated internet connection or public telephone line.
- Determination of an error occurrence can be made through error warnings and equipment status information obtained from a remote location.
- Supports VRF VR-II as well as S/V and V-II series.

VRF network system  
can be supported  
**4**

**1,600**  
indoor units  
can be supported

\*1: Use of internet mail system required.

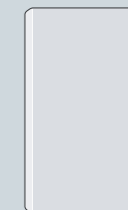
## Convertor/Adaptor

### External Switch Controller

UTY-TEKX

Air conditioner switching can be controlled by connecting other sensor switches

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



### Network Converter

UTY-VGGXZ1

- This network converter is to be used for connecting single split system or group remote controller with the VRF network system.
- Please select the function by switching the dip switch during the installation.

Max. controllable  
**16**  
Network  
Converter units



### Network Converter for LONWORKS®

UTY-VLGX

- For connection between VRF network system and a LONWORKS® open network for management of small to medium-sized BMS and VRF network system.
- The UTY-VLGX permits central monitoring and control of a VRF network system from a BMS through a LONWORKS® interface.

Max. controllable  
**4**  
Units to BMS

Max. controllable  
**128**  
indoor units



### BACnet® Gateway

Software

UTY-ABGX

- The VRF network system can be incorporated into a Building Management System.
- Enables central control of up to 1,600 indoor units through BACnet®, a global standard for open networks.
- Conforms to ANSI / ASHRAE Standards® 135-2004 BACnet® Application Specific Controller (B-ASC) BACnet® / IP over Ethernet.
- Connects up to 4 VRF network systems (1,600 indoor units / 400 outdoor units) per gateway.
- Supports VRF VR-II as well as S/V and V-II series.

Max. controllable  
**4**  
VRF network systems

Max. controllable  
**400**  
outdoor units

Max. controllable  
**1,600**  
indoor units



CD-ROM  
(Software)



Software  
Protection Key

### Signal Amplifier

UTY-VSGXZ1

- Transmission Line length can be extended up to 3,600m with multiple Signal Amplifier.
- Multiple Signal Amplifier are required according to the total wiring length or total number of connectable units.
- A Signal Amplifier has filter function for communication. It is required every VRF refrigerant system in a parallel transmission connection when the total number of indoor units exceeds 320.

