VRF

All Type Lineup

Outdoor units

Capacity (kW)		12.1	14.0	15.1-15.5	22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0	73.5
HP		4	5	6	8	10	12	14	16	18	20	22	24	26
VR-II series Heat Recovery	Space saving Page 142 ~ Set Model				AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJY162GALH	AJY180GALH	AJY198GALH	AJY216GALH	AJY234GALH
	Energy efficiency Page 142 ~ Set Model								AJY144GALHH			AJY198GALHH	AJY216GALHH	AJY234GALHH
V-III series Heat Pump	Space saving Page 150 ~ Set Model				AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY180LALBH	AJY198LALBH	AJY216LALBH	AJY234LALBH
	Energy efficiency Page 150 ~ Set Model								AJY144LALBHH	AJY162LALBHH	AJY180LALBHH		AJY216LALBHH	AJY234LALBHH
V-II series Heat Pump	Space saving Page 156 ~ Set Model				AJYA72LALH	AJYA90LALH	AJY108LALH	AJY126LALH	AJY144LALH	AJY162LALH	AJY180LALH	AJY198LALH	AJY216LALH	AJY234LALH
	Energy efficiency Page 156 ~ Set Model								AJY144LALHH			AJY198LALHH	AJY216LALHH	AJY234LALHH
NEW J-III series Heat Pump Page 162 ~		AJY040LBLAH AJY040LELAH	AJY045LBLAH AJY045LELAH	AJY054LBLAH AJY054LELAH										
J-IIS series Heat Pump Page 166 ~		AJY040LCLAH	AJY045LCLAH	AJY054LCLAH										

*** Production by order**

V-III tropical series: Possible to operate up to 52˚C outdoor temperature. Heavy anti-corrosion treatment design.
Capacity range 8 HP (AJY072LNLBH) to 54 HP (AJY486LNLBH). 39 models

Indoor units & Ventilations

Compact Cassette

Cassette

NEW

Mini Duct

Slim Duct
(With drain pump)

Medium Static Pressure Duct

High
Static Pressure Duct

Floor/Ceiling

Ceiling

Wall Mounted
(EEV internal/EEV external)

Wall Mounted

Indoor units

Capacity range 1.1 kW to 28.0 kW
(J-III & J-IIS can be connected up to 14.0 kW.)

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
28	30	32	34	36	38	40	42	44	46	48	50	52	54
AJY252GALH	AJY270GALH	AJY288GALH	AJY306GALH	AJY324GALH	AJY342GALH	AJY360GALH	AJY378GALH	AJY396GALH	AJY414GALH	AJY432GALH			
AJY252GALHH	AJY270GALHH	AJY288GALHH	AJY306GALHH	AJY324GALHH	AJY342GALHH	AJY360GALHH	AJY378GALHH	AJY396GALHH					
AJY252LALBH	AJY270LALBH	AJY288LALBH	AJY306LALBH	AJY324LALBH	AJY342LALBH	AJY360LALBH	AJY378LALBH	AJY396LALBH	AJY414LALBH	AJY432LALBH	AJY450LALBH	AJY468LALBH	AJY486LALBH
AJY252LALBHH	AJY270LALBHH	AJY288LALBHH	AJY306LALBHH	AJY324LALBHH	AJY342LALBHH	AJY360LALBHH	AJY378LALBHH	AJY396LALBHH	AJY414LALBHH				
AJY252LALH	AJY270LALH	AJY288LALH	AJY306LALH	AJY324LALH	AJY342LALH	AJY360LALH	AJY378LALH	AJY396LALH	AJY414LALH	AJY432LALH			
AJY252LALHH	AJY270LALHH	AJY288LALHH	AJY306LALHH	AJY324LALHH		AJY360LALHH	AJY378LALHH	AJY396LALHH					

Energy Recovery Ventilator
5 models

Outdoor Air Unit
3 models

Controllers

Wireless
Remote Controller

Simple
Remote Controller

Wired
Remote Controller

Wired Remote Controller
(Touch Panel)

Group
Remote Controller

Central
Remote Controller

Touch Panel
Controller

System Controller
System Controller Lite
(Software)

Ventilations

2 type 8 models

Various Easy-To-Use Controllers

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

AIRSTAGE™ SERIES Outline

Systems for Large Offices, Hotels, and Large Composite Facilities

Heat Recovery Modular type for simultaneous heating and cooling operation

AIRSTAGE™ VR-II

8 HP - 48 HP 34 Models

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

Heat Pump Modular type for heating or cooling operation

AIRSTAGE™ V-III

8 HP - 54 HP 39 Models

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

AIRSTAGE™ V-II

8 HP - 48 HP 33 Models

- Space saving combination: 8 HP to 48 HP/ 21 models
- Energy efficiency combination: 16 HP to 44 HP/ 12 models

Systems for
Large Homes to Medium-sized Offices, Shops

Heat Pump type for heating or cooling operation

NEW AIRSTAGE™ J-III

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

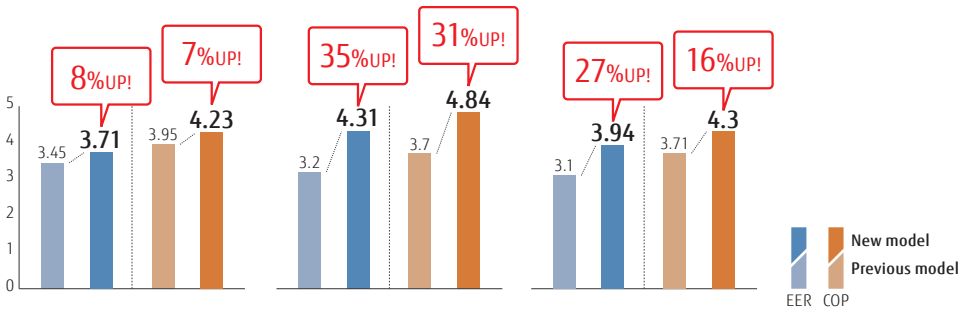
AIRSTAGE™ J-IIS

4 HP, 5 HP, 6 HP 3 Models

Common Features

High Energy Efficiency

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



Heat Pump (6HP)

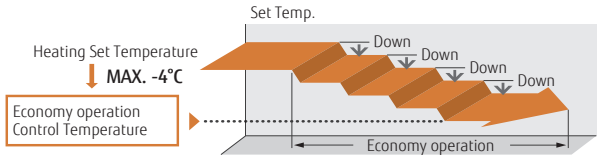
Heat Pump (8HP)

Heat Recovery (10HP)

Energy Saving Function

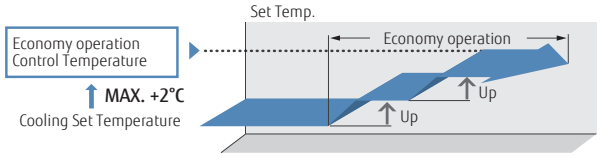
Economy operation

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



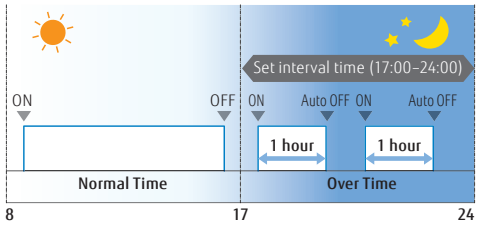
Room temperature set point limitation

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

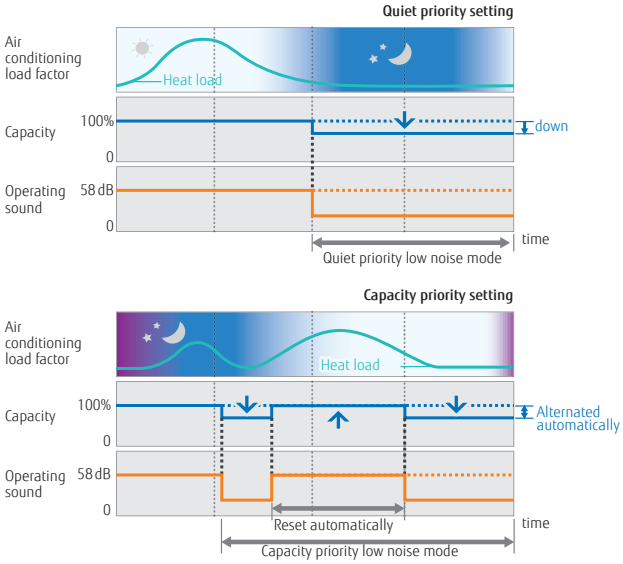
Precise and smooth refrigerant flow control is achieved by using a DC Inverter control in conjunction with individual indoor unit electronic expansion valve control. This allows high precision comfortable temperature control of ±0.5°C.

Auto changeover function

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

Quiet operation

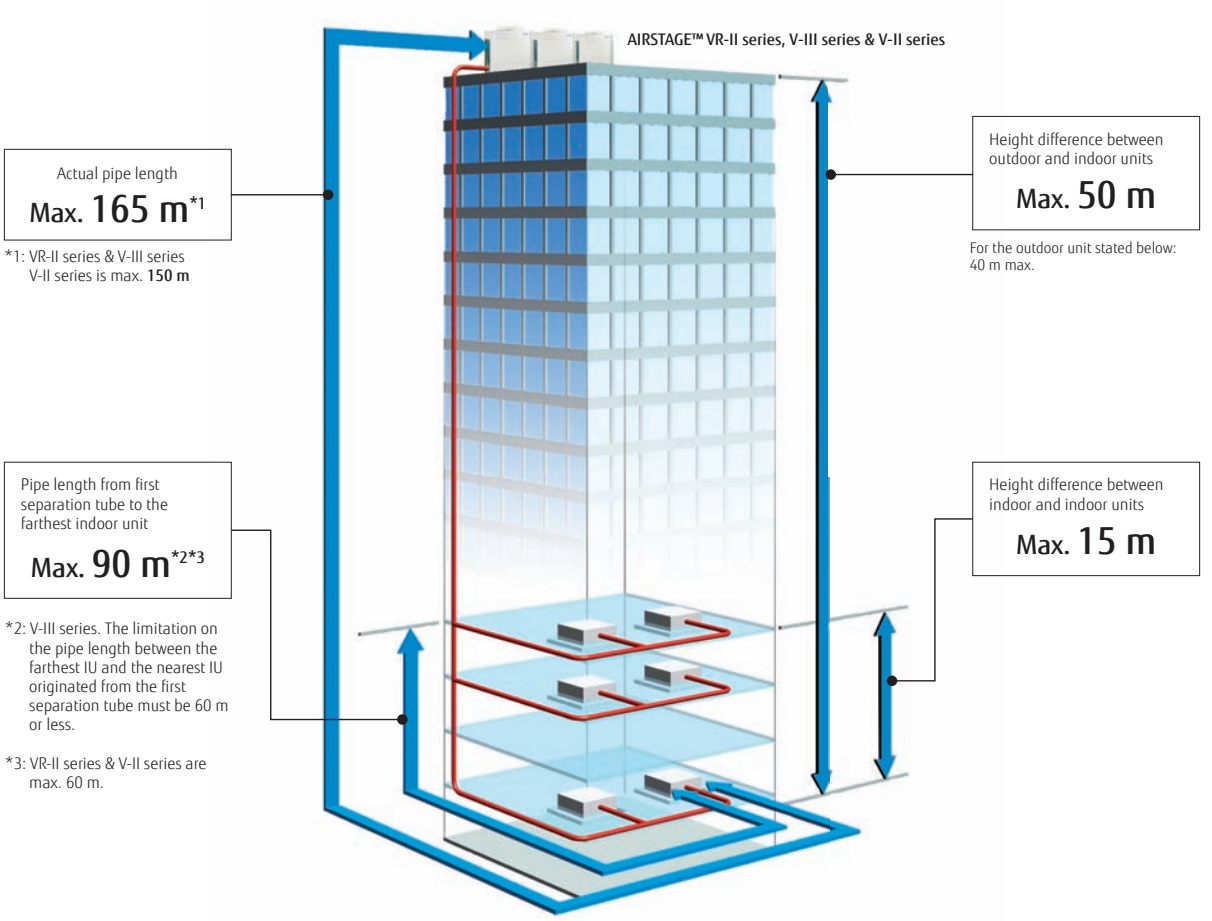
Two low noise modes can be selected automatically by quiet priority setting and capacity priority setting depending on the indoor environment and outside temperature load. This feature can be controlled via outdoor unit external input and/or system controller.



Design Flexibility

Overall piping length Max. 1,000 m

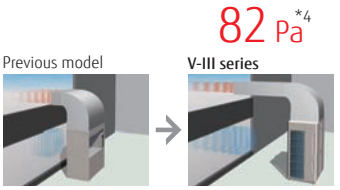
World's top class overall piping length of 1,000 m allows for application in a wide variety of buildings.



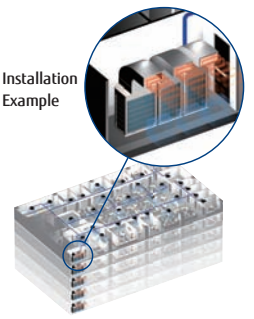
High static pressure

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

Large diameter fan and DC motor has been utilized allowing an external static pressure of 82 Pa*4. This is approximately 2.6 times greater than the previous model.



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



High capacity connection

Series	Connectable indoor unit capacity range	Connectable indoor unit number
AIRSTAGE™ VR-II series Heat Recovery Modular type	50% to 150%*5	up to 64
AIRSTAGE™ V-II series Heat Pump Modular type		up to 48
AIRSTAGE™ V-III series Heat Pump Modular type	50% to 150%*6	up to 64
AIRSTAGE™ J-III series Heat Pump type	50% to 150%*5	up to 13
AIRSTAGE™ J-IIS series Heat Pump type	50%*7 to 130%*5	up to 8

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

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

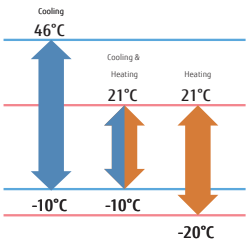
*7: Only 4 HP is 46%

Wide operating range

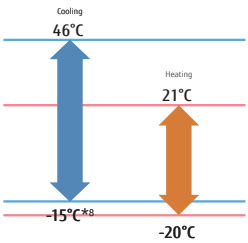
Installation in extreme temperature conditions is possible due to an increase in operational range.

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

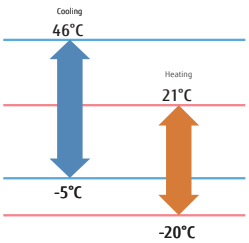
AIRSTAGE™ VR-II series Heat Recovery Modular type



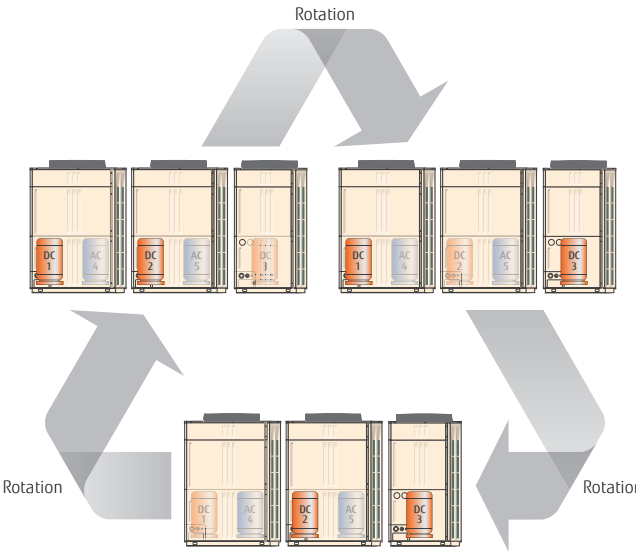
AIRSTAGE™ V-III & V-II series Heat Pump Modular type



AIRSTAGE™ J-III & J-IIS series Heat Pump type



High Reliability



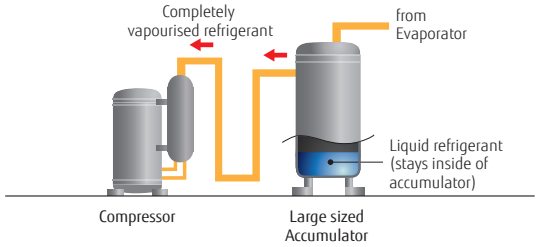
Life-extending operation*1

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

Note: Rotational operation is alternated by the start / stop timing of the compressor.

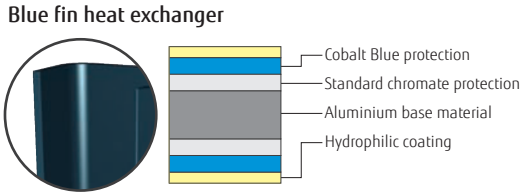
Liquid flow back protection

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.



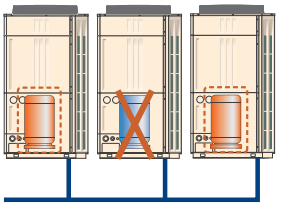
Adoption of blue fin heat exchanger

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



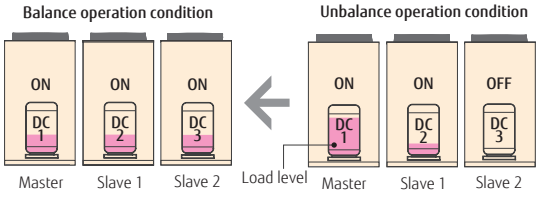
Backup operation*1

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



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.



*1: Not available for AIRSTAGE™ J-III and J-IIS series *2: Note: Backup operation may not be possible depending on the trouble state.

Easy Installation

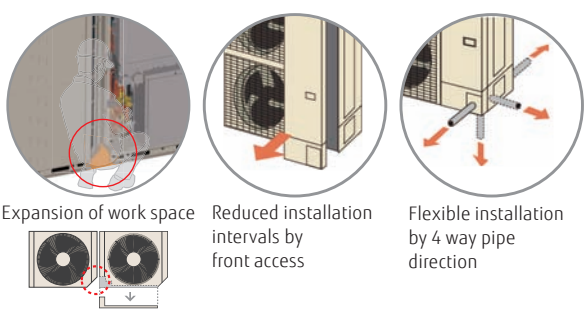
Easily transported

- **Easily craned using lifting belt hooks:** Design of outdoor unit allows for lifting straps to be used.
- **Transporting by forklift:** Transport with forklift is possible.
- Can be transported in a small elevator

Easy access

By adopting a L-Shape front panel that can be removed, the work space for installation and service has been significantly expanded by this new design.

For multiple installations, work is performed easily and efficiently even in a narrow space.



Expansion of work space

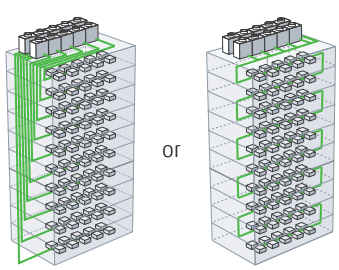
Reduced installation intervals by front access

Flexible installation by 4 way pipe direction

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.



Parallel connection

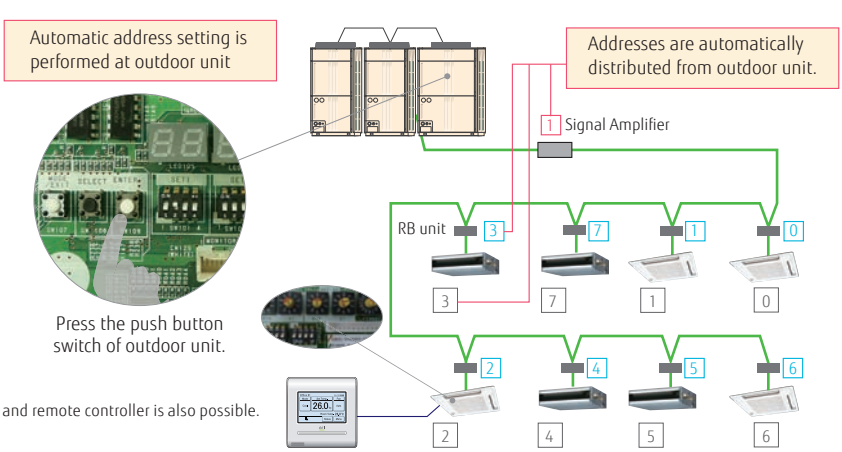
or

Serial connection

Up to maximum length
3,600 m

Automatic address setting

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



Press the push button switch of outdoor unit.

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

Easy Service & Maintenance

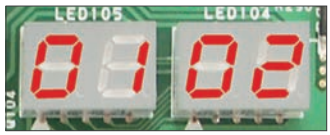
Design for easy maintenance

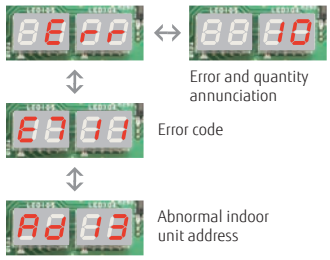
Easy to read 7-segment LED :
Confirm detailed operational and error status without using any specific equipment.

- 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

7-segment LED

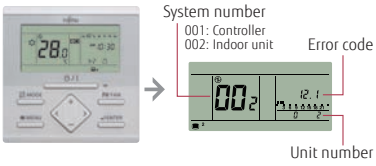




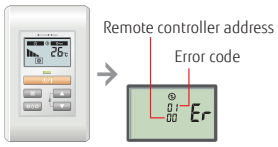
- Error status can be checked easily by outdoor unit display

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

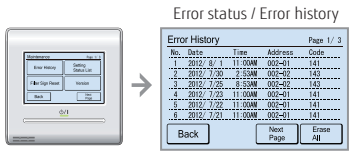
Wired Remote Controller



Simple Remote Controller



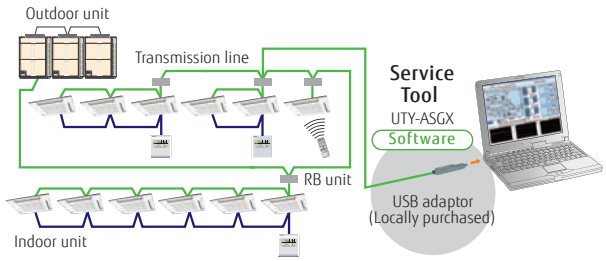
Wired Remote Controller (Touch panel)



Error diagnosis by Service Tool

Connection to Service Tool

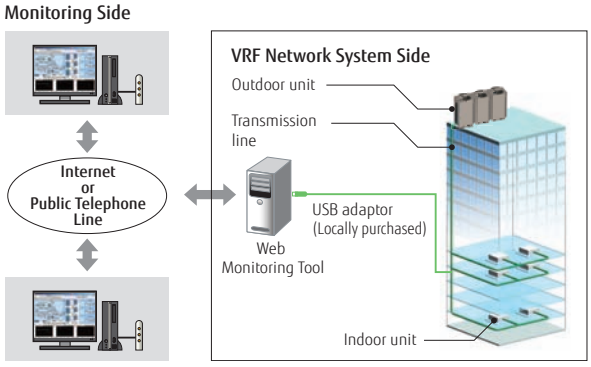
- Detail operation status and recent error history can be checked and analyzed by using the Service Tool.
- Last 5 min. operation memory can be also be recorded.



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.



Heat Recovery Modular Type

AIRSTAGE™ VR-II

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

System Outline

Simultaneous cooling and heating operation using 1 refrigerant system

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

Annual cooling operation

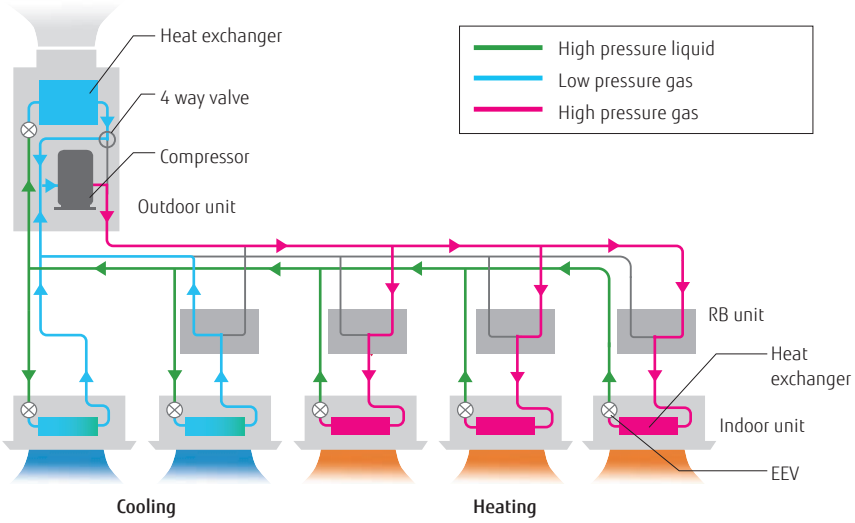
Use annual cooling operation for the rooms and other spaces that require constant temperature control throughout the year.

Handles changes in the temperature difference

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

High Operating Energy Efficiency

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



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.

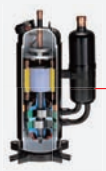
*1. CFD = Computational Fluid Dynamics

Sine-wave DC inverter control

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

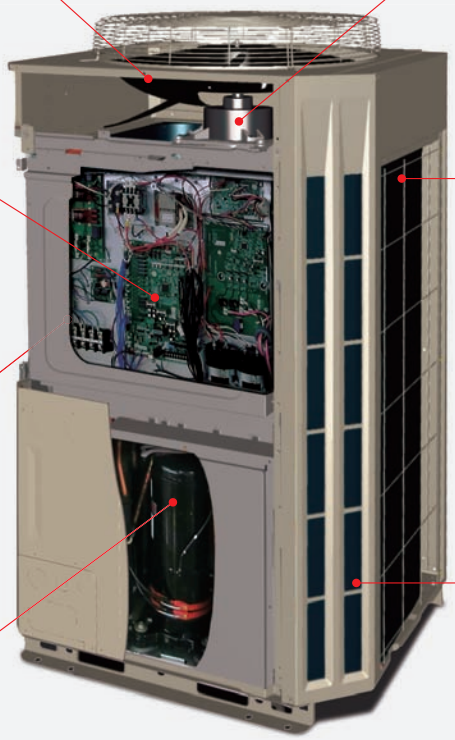
Subcool heat exchanger

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.

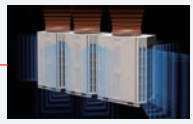


3 phase DC fan motor

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

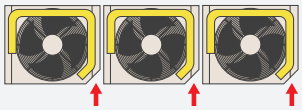
4-face heat exchanger

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

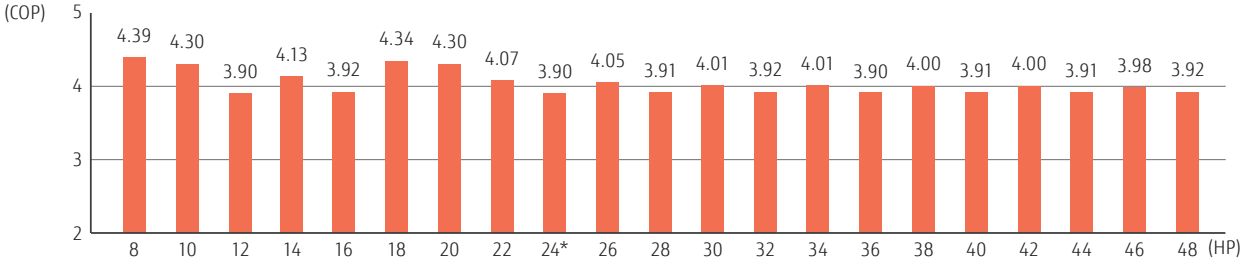


Front intake port
(corner cut air inhaling structure)

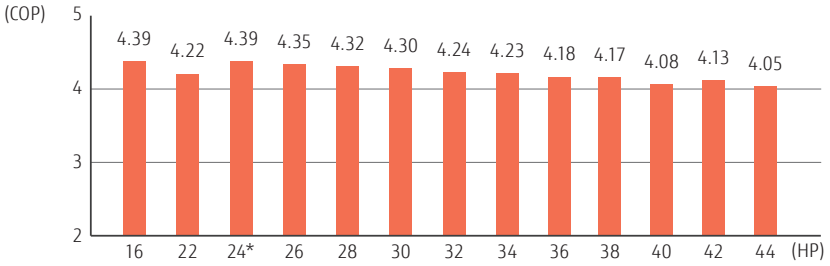
In multiple outdoor unit installations, the unique front intake design improves airflow into the Heat Exchanger.



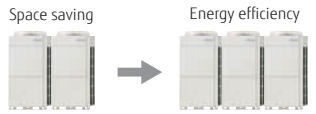
Space saving combination



Energy efficiency combination



For 24HP Combination



COP 12.6% UP

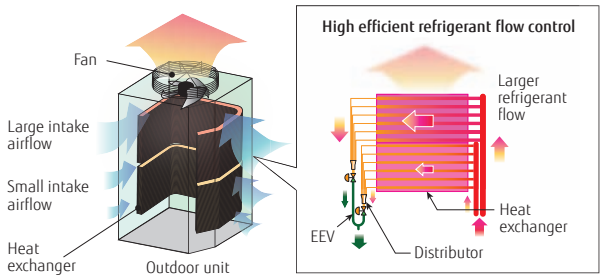
All inverter compressor

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.

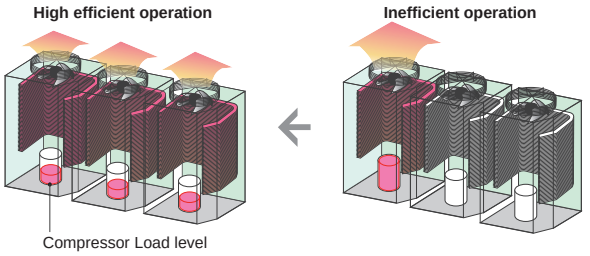
Ideal heat exchanger path control

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.



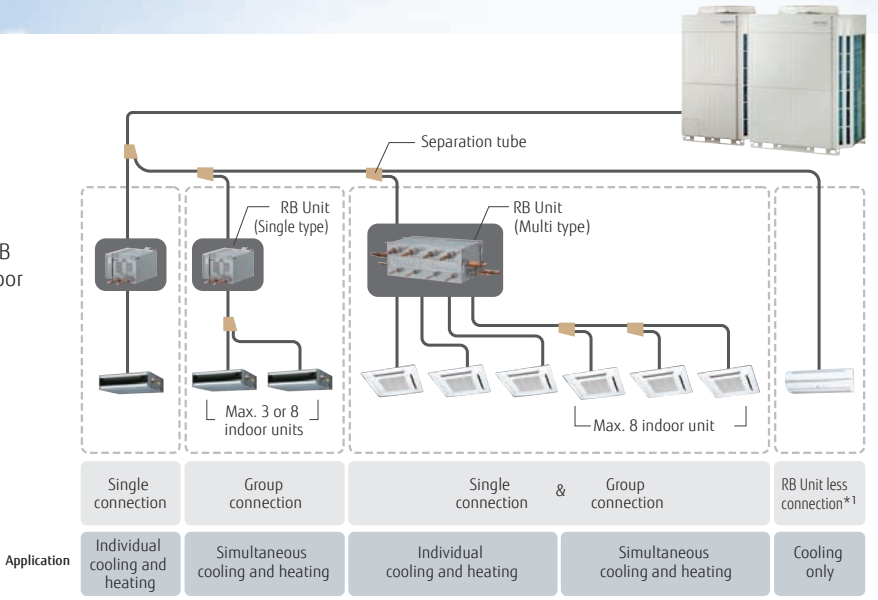
Sophisticated operation control

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.



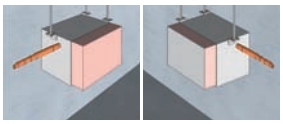
	Single connection	Group connection	Single connection & Group connection	RB Unit less connection*1
Application	Individual cooling and heating	Simultaneous cooling and heating	Individual cooling and heating	Simultaneous cooling and heating	Cooling only

- 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

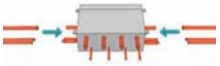
- Small & slim design saves space. Hight 198 mm
- A drain pipe is not required
- The control box position can be changed to meet the installation conditions
- Small design saves space
- A drain pipe is not required
- Simple installation series connection design



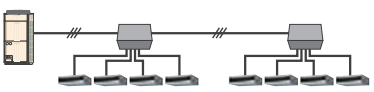
Installation possible from either side for freedom of the control box

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

- 2-way connection

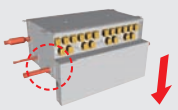


- Up to 2 units can be connected in series.



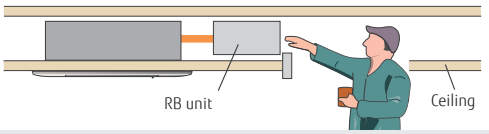
Easy to maintenance in a narrow space

- Maintenance can be performed from the side.



- Electrics box can be temporarily fixed by sliding down.

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



RB unit (single type)

RB unit (multi type)

Outdoor units lineup

• Combinations other than the followings are not recommended.

Space saving combination

22.4 kW (8HP)  AJYA72GALH UNIT : AJYA72GALH	28.0 kW (10HP)  AJYA90GALH UNIT : AJYA90GALH	33.5 kW (12HP)  AJY108GALH UNIT : AJY108GALH	40.0 kW (14HP)  AJY126GALH UNIT : AJY126GALH	45.0 kW (16HP)  AJY144GALH UNIT : AJY144GALH
50.4 kW (18HP)  AJY162GALH UNIT : AJYA90/A72GALH	56.0 kW (20HP)  AJY180GALH UNIT : AJYA90/A90GALH	61.5 kW (22HP)  AJY198GALH UNIT : AJY108/A90GALH	67.0 kW (24HP)  AJY216GALH UNIT : AJY108/108GALH	73.0 kW (26HP)  AJY234GALH UNIT : AJY144/A90GALH
78.5 kW (28HP)  AJY252GALH UNIT : AJY144/108GALH	85.0 kW (30HP)  AJY270GALH UNIT : AJY144/126GALH	90.0 kW (32HP)  AJY288GALH UNIT : AJY144/144GALH	95.0 kW (34HP)  AJY306GALH UNIT : AJY108/108/A90GALH	100.5 kW (36HP)  AJY324GALH UNIT : AJY108/108/108GALH
106.5 kW (38HP)  AJY342GALH UNIT : AJY144/108/A90GALH	112.0 kW (40HP)  AJY360GALH UNIT : AJY144/108/108GALH	118.0 kW (42HP)  AJY378GALH UNIT : AJY144/144/A90GALH	123.5 kW (44HP)  AJY396GALH UNIT : AJY144/144/108GALH	130.0 kW (46HP)  AJY414GALH UNIT : AJY144/144/126GALH
135.0 kW (48HP)  AJY432GALH UNIT : AJY144/144/144GALH				

Energy efficiency combination

44.8 kW (16HP)  AJY144GALHH UNIT : AJYA72/A72GALH	62.4 kW (22HP)  AJY198GALHH UNIT : AJY126/A72GALH	67.2 kW (24HP)  AJY216GALHH UNIT : AJYA72/A72/A72GALH	72.8 kW (26HP)  AJY234GALHH UNIT : AJYA90/A72/A72GALH	78.4 kW (28HP)  AJY252GALHH UNIT : AJYA90/A90/A72GALH
84.0 kW (30HP)  AJY270GALHH UNIT : AJYA90/A90/A90GALH	90.4 kW (32HP)  AJY288GALHH UNIT : AJY126/A90/A72GALH	96.0 kW (34HP)  AJY306GALHH UNIT : AJY126/A90/A90GALH	102.4 kW (36HP)  AJY324GALHH UNIT : AJY126/126/A72GALH	108.0 kW (38HP)  AJY342GALHH UNIT : AJY126/126/A90GALH
113.0 kW (40HP)  AJY360GALHH UNIT : AJY144/126/A90GALH	120.0 kW (42HP)  AJY378GALHH UNIT : AJY126/126/126GALH	125.0 kW (44HP)  AJY396GALHH UNIT : AJY144/126/126GALH		

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

AIRSTAGE VR-II

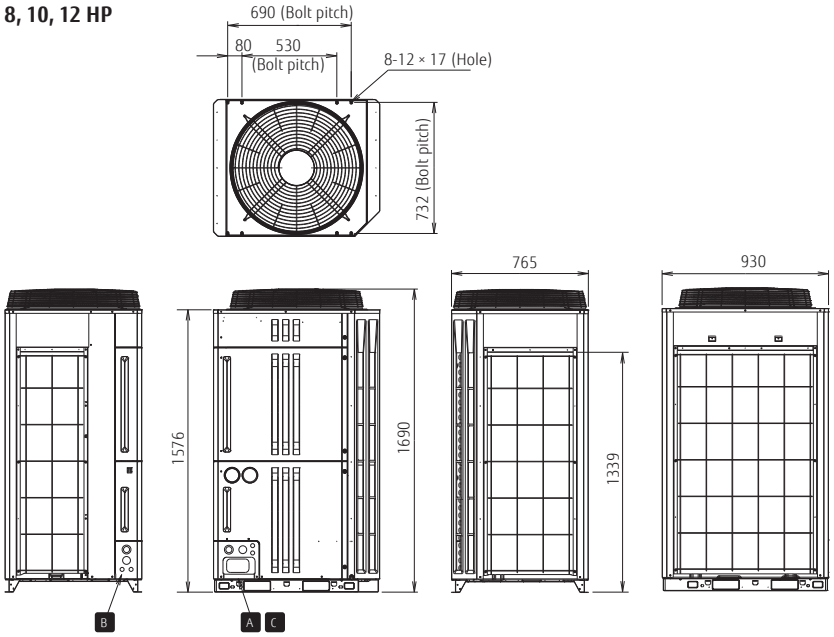
8, 10, 12 HP

14, 16 HP

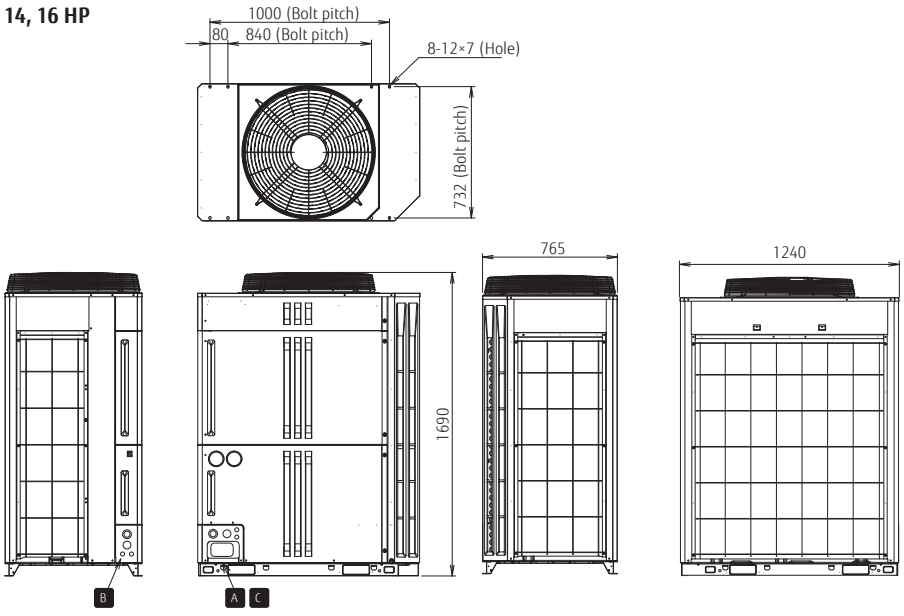
Dimensions

(Unit : mm)

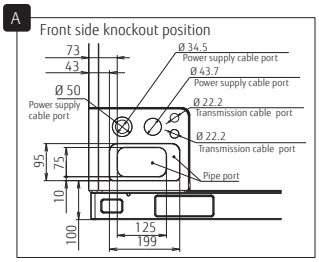
8, 10, 12 HP



14, 16 HP



A



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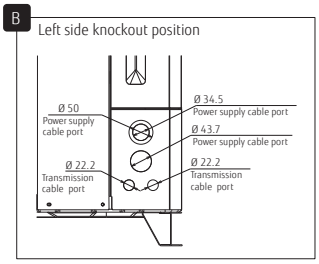

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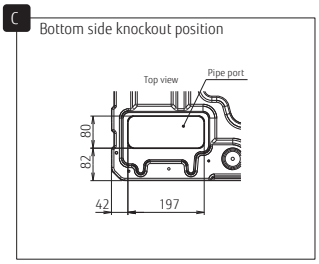


Outdoor units specifications

Space Saving Combination

Rating Capacity range		HP	8	10	12	14	16	18	20	22	24
											
Set Model name			AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJY162GALH	AJY180GALH	AJY198GALH	AJY216GALH
Unit 1 Unit 2 Unit 3			AJYA72GALH	AJYA90GALH	AJY108GALH	AJY126GALH	AJY144GALH	AJYA90GALH AJYA72GALH	AJYA90GALH AJYA90GALH	AJY108GALH AJYA90GALH	AJY108GALH AJY108GALH
Maximum Connectable Indoor Unit*1			15	16	17	21	24	27	30	32	35
Indoor unit connectable capacity		kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.2-75.6	28.0-84.0	30.8-92.2	33.5-100.5
Power source			3-phase 4 wire , 400 V, 50Hz								
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.4	56.0	61.5	67.0
	Heating		25.0	31.5	37.5	45.0	50.0	56.5	63.0	69.0	75.0
Input power	Cooling	kW	5.45	7.11	9.75	11.34	13.61	12.56	14.22	16.86	19.50
	Heating		5.70	7.33	9.62	10.90	12.77	13.03	14.66	16.95	19.24
EER	Cooling	W/W	4.11	3.94	3.44	3.53	3.31	4.01	3.94	3.65	3.44
COP	Heating	W/W	4.39	4.30	3.90	4.13	3.92	4.34	4.30	4.07	3.90
Air flow late		m^3/h	11,100	11,100	11,100	13,000	13,000	11,100×2	11,100×2	11,100×2	11,100×2
Sound pressure level*2	Cooling	dB(A)	56	58	59	60	61	60	61	62	62
	Heating		58	59	61	61	61	62	62	63	64
Maximum external static pressure		Pa	80	80	80	80	80	80	80	80	80
Compresor motor output		kW	7.5	7.5	7.5	11.0	11.0	7.5×2	7.5×2	7.5×2	7.5×2
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930	930	930	1,240	1,240	930×2	930×2	930×2	930×2
	Depth		765	765	765	765	765	765	765	765	765
Weight		kg	262	262	262	286	286	262×2	262×2	262×2	262×2
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg	11.8	11.8	11.8	11.8	11.8	11.8×2	11.8×2	11.8×2	11.8×2
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88
	Discharge Gas		15.88	19.05	19.05	22.22	22.22	22.22	22.22	28.58	28.58
	Suction Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92
Operation range	Cooling	˚CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

Energy Efficiency Combination

Rating Capacity range		HP	16	22	24	26	28	30
								
Set Model name			AJY144GALHH	AJY198GALHH	AJY216GALHH	AJY234GALHH	AJY252GALHH	AJY270GALHH
Unit 1 Unit 2 Unit 3			AJYA72GALH AJYA72GALH	AJY126GALH AJYA72GALH	AJYA72GALH AJYA72GALH AJYA72GALH	AJYA90GALH AJYA72GALH AJYA72GALH	AJYA90GALH AJYA90GALH AJYA72GALH	AJYA90GALH AJYA90GALH AJYA90GALH
Maximum Connectable Indoor Unit*1			24	33	36	39	42	45
Indoor unit connectable capacity		kW	22.4-67.2	31.2-93.6	33.6-100.8	36.4-109.2	39.2-117.6	42.0-126.0
Power source			3-phase 4 wire , 400 V, 50Hz					
Capacity	Cooling	kW	44.8	62.4	67.2	72.8	78.4	84.0
	Heating		50.0	70.0	75.0	81.5	88.0	94.5
Input power	Cooling	kW	10.90	16.79	16.35	18.01	19.67	21.33
	Heating		11.40	16.60	17.10	18.73	20.36	21.99
EER	Cooling	W/W	4.11	3.72	4.11	4.04	3.99	3.94
COP	Heating	W/W	4.39	4.22	4.39	4.35	4.32	4.30
Air flow late		m^3/h	11,100×2	13,000+11,100	11,100×3	11,100×3	11,100×3	11,100×3
Sound pressure level*2	Cooling	dB(A)	59	61	61	62	62	63
	Heating		61	63	63	63	63	64
Maximum external static pressure		Pa	80	80	80	80	80	80
Compresor motor output		kW	7.5×2	11.0+7.5	7.5×3	7.5×3	7.5×3	7.5×3
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930×2	1,240+930	930×3	930×3	930×3	930×3
	Depth		765	765	765	765	765	765
Weight		kg	262×2	286+262	262×3	262×3	262×3	262×3
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg	11.8×2	11.8×2	11.8×3	11.8×3	11.8×3	11.8×3
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	19.05
	Discharge Gas		22.22	28.58	28.58	28.58	28.58	28.58
	Suction Gas		28.58	34.92	34.92	34.92	34.92	34.92
Operation range	Cooling	˚CDB	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
	Cooling/Heating		-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

Note: Specifications are based on the following conditions.
Cooling: Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating: Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length: 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
When cooling operation will be conducted at outdoor air temperature below -5°C,
the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

26	28	30	32	34	36	38	40	42	44	46	48
											
AJY234GALH	**AJY252GALH**	**AJY270GALH**	**AJY288GALH**	**AJY306GALH**	**AJY324GALH**	**AJY342GALH**	**AJY360GALH**	**AJY378GALH**	**AJY396GALH**	**AJY414GALH**	**AJY432GALH**
AJY144GALH AJYA90GALH	AJY144GALH AJY108GALH	AJY144GALH AJY126GALH	AJY144GALH AJY144GALH	AJY108GALH AJY108GALH AJYA90GALH	AJY108GALH AJY108GALH AJY108GALH	AJY144GALH AJY108GALH AJYA90GALH	AJY144GALH AJY108GALH AJY108GALH	AJY144GALH AJY144GALH AJYA90GALH	AJY144GALH AJY144GALH AJY108GALH	AJY144GALH AJY144GALH AJY126GALH	AJY144GALH AJY144GALH AJY144GALH
39	42	45	48	50	53	57	60	63	64	64	64
36.5-109.5	39.3-117.7	42.5-127.5	45.0-135.0	47.5-142.5	50.3-150.7	53.3-159.7	56.0-168.0	59.0-177.0	61.8-185.2	65.0-195.0	67.5-202.5
3-phase 4 wire , 400 V, 50Hz											
73.0	78.5	85.0	90.0	95.0	100.5	106.5	112.0	118.0	123.5	130.0	135.0
81.5	87.5	95.0	100.0	106.5	112.5	119.0	125.0	131.5	137.5	145.0	150.0
20.72	23.36	24.95	27.22	26.61	29.25	30.47	33.11	34.33	36.97	38.56	40.83
20.10	22.39	23.67	25.54	26.57	28.86	29.72	32.01	32.87	35.16	36.44	38.31
3.52	3.36	3.41	3.31	3.57	3.44	3.50	3.38	3.44	3.34	3.37	3.31
4.05	3.91	4.01	3.92	4.01	3.90	4.00	3.91	4.00	3.91	3.98	3.92
13,000+11,100	13,000+11,100	13,000×2	13,000×2	11,100×3	11,100×3	13,000+11,100×2	13,000+11,100×2	13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3
63	63	64	64	63	64	64	65	65	65	65	66
63	64	64	64	65	66	65	66	65	66	66	66
80	80	80	80	80	80	80	80	80	80	80	80
11.0+7.5	11.0+7.5	11.0×2	11.0×2	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240+930	1,240+930	1,240×2	1,240×2	930×3	930×3	1,240+930×2	1,240+930×2	1,240×2+930	1,240×2+930	1,240×3	1,240×3
765	765	765	765	765	765	765	765	765	765	765	765
286+262	286+262	286×2	286×2	286×3	286×3	286+262×2	286+262×2	286×2+262	286×2+262	286×3	286×3
R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
11.8×2	11.8×2	11.8×2	11.8×2	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3
15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
28.58	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92	34.92	34.92
34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27
-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

32	34	36	38	40	42	44
						
AJY288GALHH	**AJY306GALHH**	**AJY324GALHH**	**AJY342GALHH**	**AJY360GALHH**	**AJY378GALHH**	**AJY396GALHH**
AJY126GALH AJYA90GALH AJYA72GALH	AJY126GALH AJYA90GALH AJYA90GALH	AJY126GALH AJY126GALH AJYA72GALH	AJY126GALH AJY126GALH AJYA90GALH	AJY144GALH AJY126GALH AJYA90GALH	AJY126GALH AJY126GALH AJY126GALH	AJY144GALH AJY126GALH AJY126GALH
48	51	54	57	60	64	64
45.2-135.6	48.0-144.0	51.2-153.6	54.0-162.0	56.5-169.5	60.0-180.0	62.5-187.5
3-phase 4 wire , 400 V, 50Hz						
90.4	96.0	102.4	108.0	113.0	120.0	125.0
101.5	108.0	115.0	121.5	126.5	135.0	140.0
23.90	25.56	28.13	29.79	32.06	34.02	36.29
23.93	25.56	27.50	29.13	31.00	32.70	34.57
3.78	3.76	3.64	3.63	3.52	3.53	3.44
4.24	4.23	4.18	4.17	4.08	4.13	4.05
13,000+11,100×2	13,000+11,100×2	13,000×2+11,100	13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3
63	64	64	64	65	65	65
64	65	65	65	65	66	66
80	80	80	80	80	80	80
11.0+7.5×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240+930×2	1,240+930×2	1,240×2+930	1,240×2+930	1,240×2+930	1,240×3	1,240×3
765	765	765	765	765	765	765
286+262×2	286+262×2	286×2+262	286×2+262	286×2+262	286×3	286×3
R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3
19.05	19.05	19.05	19.05	19.05	19.05	19.05
28.58	28.58	28.58	34.92	34.92	34.92	34.92
34.92	34.92	41.27	41.27	41.27	41.27	41.27
-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46	-10 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21
-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21	-10 to 21

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

Heat Pump Modular Type

AIRSTAGE™ V-III

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

System Outline

Excellent energy saving

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

High design flexibility for various building air conditioning

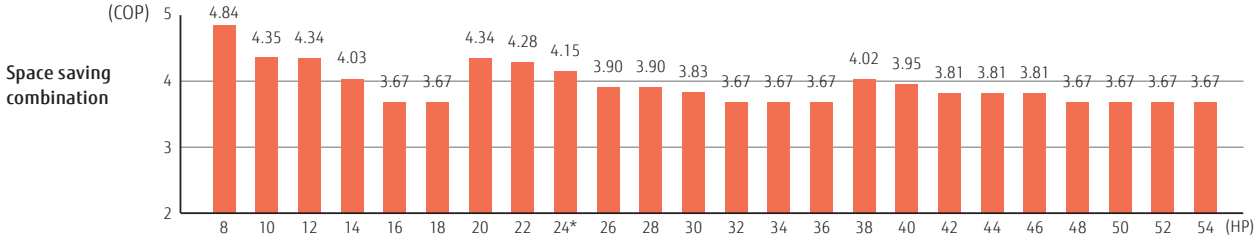
High design flexibly meets the various needs of high-rise building air conditioning such as outdoor unit roof top concentrated installation and each floor installation by large capacity combination, sufficient connection capacity, and high static pressure design.

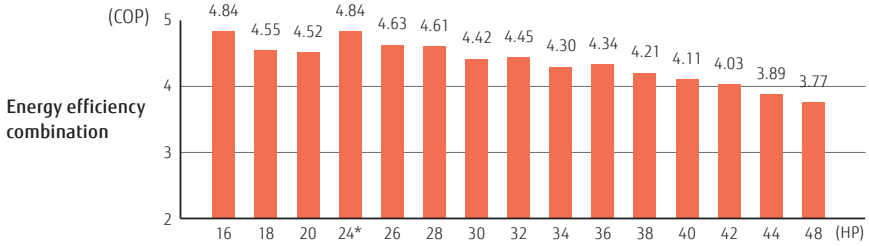
Easy installation and maintenance

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

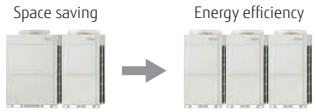
Efficiency in actual operation

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





For 24 HP Combination



COP 17% UP

Energy saving technology that boosted operation efficiency

Powerful large propeller fan

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

*1. CFD = Computational Fluid Dynamics

3 phase DC fan motor

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

Subcool heat exchanger

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

Sine-wave DC inverter control

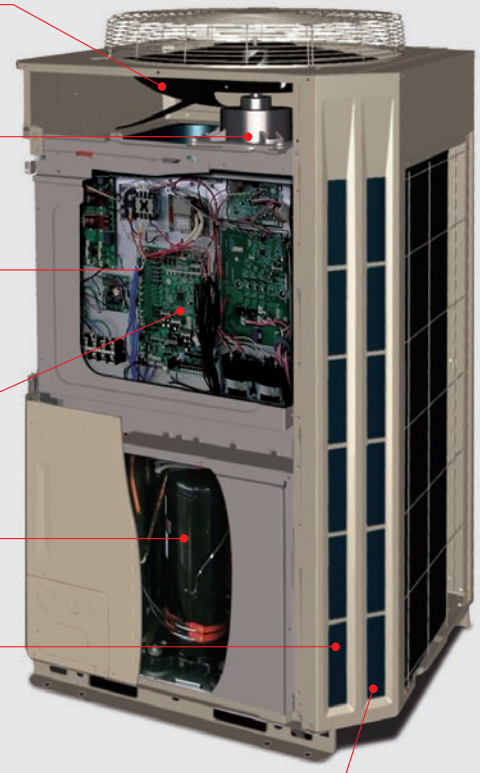
High efficiency is realized by adoption of reduced switching loss IPM.

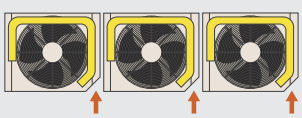
High efficient and large capacity DC inverter compressor

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

4-face heat exchanger

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





Front intake port (corner cut air inhaling structure)

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

Outdoor units lineup

• Combinations other than the followings are not recommended.

Space saving combination

22.4 kW (8HP)	28.0 kW (10HP)	33.5 kW (12HP)	40.0 kW (14HP)	45.0 kW (16HP)
				
AJY072LALBH UNIT : AJY072LALBH	AJY090LALBH UNIT : AJY090LALBH	AJY108LALBH UNIT : AJY108LALBH	AJY126LALBH UNIT : AJY126LALBH	AJY144LALBH UNIT : AJY144LALBH
50.0 kW (18HP)	56.0 kW (20HP)	62.4 kW (22HP)	68.0 kW (24HP)	73.0 kW (26HP)
				
AJY162LALBH UNIT : AJY162LALBH	AJY180LALBH UNIT : AJY090/090LALBH	AJY198LALBH UNIT : AJY126/072LALBH	AJY216LALBH UNIT : AJY126/090LALBH	AJY234LALBH UNIT : AJY144/090LALBH
78.0 kW (28HP)	85.0 kW (30HP))	90.0 kW (32HP)	95.0 kW (34HP)	100.0 kW (36HP)
				
AJY252LALBH UNIT : AJY162/090LALBH	AJY270LALBH UNIT : AJY144/126LALBH	AJY288LALBH UNIT : AJY144/144LALBH	AJY306LALBH UNIT : AJY162/144LALBH	AJY324LALBH UNIT : AJY162/162LALBH
106.0 kW (38HP)	113.0 kW (40HP)	118.0 kW (42HP)	123.0 kW (44HP)	128.0 kW (46HP)
				
AJY342LALBH UNIT : AJY162/090/090LALBH	AJY360LALBH UNIT : AJY144/126/090LALBH	AJY378LALBH UNIT : AJY144/144/090LALBH	AJY396LALBH UNIT : AJY162/144/090LALBH	AJY414LALBH UNIT : AJY162/162/090LALBH
135.0 kW (48HP)	140.0 kW (50HP)	145.0 kW (52HP)	150.0 kW (54HP)	
				
AJY432LALBH UNIT : AJY144/144/144LALBH	AJY450LALBH UNIT : AJY162/144/144LALBH	AJY468LALBH UNIT : AJY162/162/144LALBH	AJY486LALBH UNIT : AJY162/162/162LALBH	

Energy efficiency combination

44.8 kW (16HP)	50.4kW (18HP)	55.9 kW (20HP)	67.2 kW (24HP)	72.8 kW (26HP)
				
AJY144LALBHH UNIT : AJY072/072LALBH	AJY162LALBHH UNIT : AJY090/072LALBH	AJY180LALBHH UNIT : AJY108/072LALBH	AJY216LALBHH UNIT : AJY072/072/072LALBH	AJY234LALBHH UNIT : AJY090/072/072LALBH
78.3 kW (28HP)	84.8 kW (30HP)	89.4 kW (32HP)	95.9 kW (34HP)	100.5 kW (36HP)
				
AJY252LALBHH UNIT : AJY108/072/072LALBH	AJY270LALBHH UNIT : AJY126/072/072LALBH	AJY288LALBHH UNIT : AJY108/108/072LALBH	AJY306LALBHH UNIT : AJY126/108/072LALBH	AJY324LALBHH UNIT : AJY108/108/108LALBH
107.0 kW (38HP)	113.5 kW (40HP)	120.0 kW (42HP)	125.0 kW (44HP)	130.0 kW (46HP)
				
AJY342LALBHH UNIT : AJY126/108/108LALBH	AJY360LALBHH UNIT : AJY126/126/108LALBH	AJY378LALBHH UNIT : AJY126/126/126LALBH	AJY396LALBHH UNIT : AJY144/126/126LALBH	AJY414LALBHH UNIT : AJY144/144/126LALBH

8,10HP : AJY072LALBH / AJY090LALBH
12,14,16HP : AJY108LALBH / AJY126LALBH / AJY144LALBH / AJY162LALBH

AIRSTAGE V-III

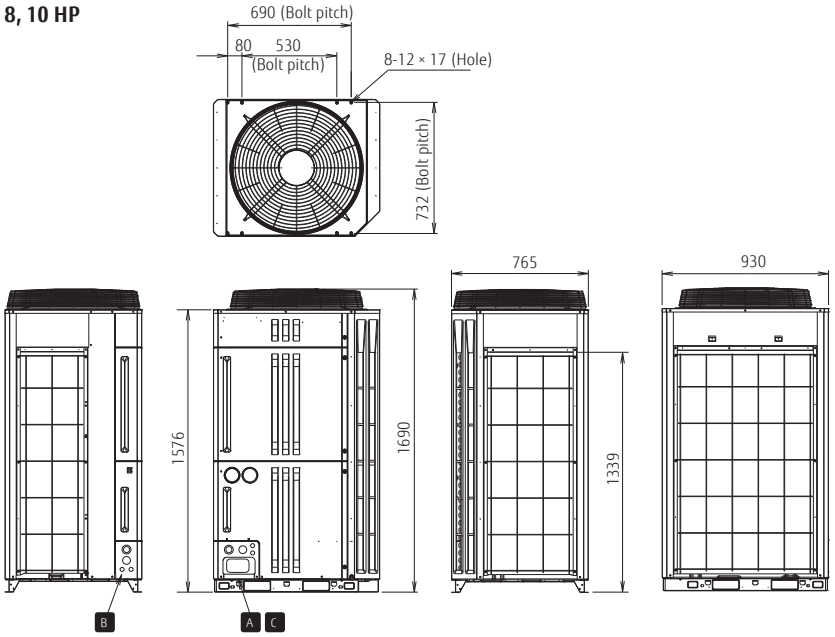
8, 10 HP

12, 14, 16 HP

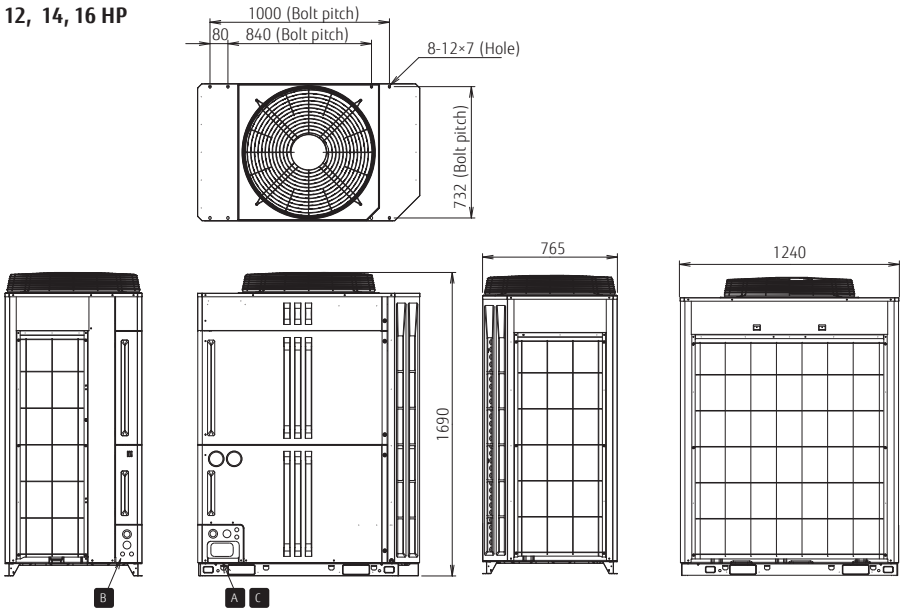
Dimensions

(Unit : mm)

8, 10 HP



12, 14, 16 HP



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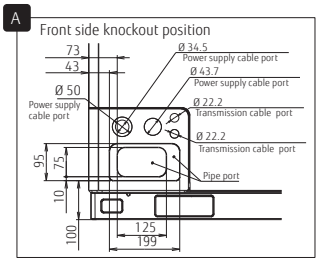

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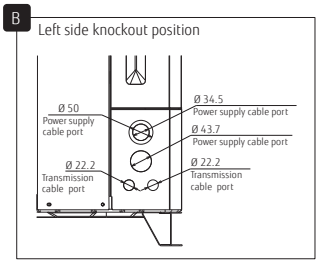

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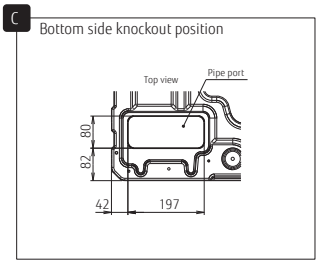


Outdoor units specifications

Space Saving Combination

Rating Capacity range		HP	8	10	12	14	16	18	20	22	24	26	28
													
Set Model name			AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY180LALBH	AJY198LALBH	AJY216LALBH	AJY234LALBH	AJY252LALBH
Unit 1 Unit 2 Unit 3			AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH	AJY090LALBH AJY090LALBH	AJY126LALBH AJY072LALBH	AJY126LALBH AJY090LALBH	AJY144LALBH AJY090ALBH	AJY162LALBH AJY090LALBH
Maximum Connectable Indoor Unit*1			17	21	26	30	34	39	43	47	52	56	60
Indoor unit connectable capacity		kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.0-67.5	28.0-84.0	31.2-93.6	34.0-102.0	36.5-109.5	39.0-109.5
Power source			3-phase 4 wire, 400 V, 50Hz										
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.0	56.0	62.4	68.0	73.0	78.0
	Heating		25.0	31.5	37.5	45.0	50.0	50.0	63.0	70.0	76.5	81.5	81.5
Input power	Cooling	kW	5.20	7.28	8.96	10.96	13.01	16.56	14.56	16.16	18.24	20.29	23.84
	Heating		5.17	7.25	8.65	11.17	13.63	13.63	14.50	16.34	18.42	20.88	20.88
EER	Cooling	W/W	4.31	3.85	3.74	3.65	3.46	3.02	3.85	3.86	3.73	3.60	3.27
COP	Heating	W/W	4.84	4.35	4.34	4.03	3.67	3.67	4.34	4.28	4.15	3.90	3.90
Air flow late	High	m^3/h	11,100	11,100	13,000	13,000	13,700	13,700	11,100×2	13,000+11,100	13,000+11,100	13,000+11,100	13,700+11,100
Sound pressure level*2	Cooling	dB(A)	56	58	57	60	62	63	61	61	62	63	64
	Heating		58	59	60	62	64	64	62	63	64	65	65
Maximum external static pressure		Pa	82	82	82	82	82	82	82	82	82	82	82
Compresor motor output		kW	7.5	7.5	11.0	11.0	11.0	11.0	7.5×2	11.0+7.5	11.0+7.5	11.0+7.5	11.0+7.5
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930	930	1,240	1,240	1,240	1,240	930×2	1,240+930	1,240+930	1,240+930	1,240+930
	Depth		765	765	765	765	765	765	765	765	765	765	765
Weight		kg	252	252	275	275	275	275	252×2	275+252	275+252	275+252	275+252
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg	11.7	11.7	11.8	11.8	11.8	11.8	11.7×2	11.8+11.7	11.8+11.7	11.8+11.7	11.8+11.7
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88
	Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	34.92
Operation range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Energy Efficiency Combination

Rating Capacity range		HP	16	18	20	24	26	28	30
									
Set Model name			AJY144LALBHH	AJY162LALBHH	AJY180LALBHH	AJY216LALBHH	AJY234LALBHH	AJY252LALBHH	AJY270LALBHH
Unit 1 Unit 2 Unit 3			AJY072LALBH AJY072LALBH	AJY090LALBH AJY072LALBH	AJY108LALBH AJY072LALBH	AJY072LALBH AJY072LALBH AJY072LALBH	AJY090LALBH AJY072LALBH AJY072LALBH	AJY108LALBH AJY072LALBH AJY072LALBH	AJY126LALBH AJY072LALBH AJY072LALBH
Maximum Connectable Indoor Unit*1			34	39	43	52	56	60	64
Indoor unit connectable capacity		kW	22.4-67.2	25.2-75.6	28.0-83.8	33.6-100.8	36.4-109.2	39.2-117.4	42.4-127.2
Power source			3-phase 4 wire, 400 V, 50Hz						
Capacity	Cooling	kW	44.8	50.4	55.9	67.2	72.8	78.3	84.8
	Heating		50.0	56.5	62.5	75.0	81.5	87.5	95.0
Input power	Cooling	kW	10.40	12.48	14.16	15.60	17.68	19.36	21.36
	Heating		10.34	12.42	13.82	15.51	17.59	18.99	21.51
EER	Cooling	W/W	4.31	4.04	3.95	4.31	4.12	4.04	3.97
COP	Heating	W/W	4.84	4.55	4.52	4.84	4.63	4.61	4.42
Air flow late	High	m^3/h	11,100×2	11,100×2	13,000+11,100	11,100×3	11,000×3	13,000+11,100×2	13,000+11,100×2
Sound pressure level*2	Cooling	dB(A)	59	60	60	61	62	61	63
	Heating		61	62	62	63	63	64	65
Maximum external static pressure		Pa	82	82	82	82	82	82	82
Compresor motor output		kW	7.5×2	7.5×2	11.0+7.5	7.5×3	7.5×3	11.0+7.5×2	11.0+7.5×2
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930×2	930×2	1,240+930	930×3	930×3	1,240+930×2	1,240+930×2
	Depth		765	765	765	765	765	765	765
Weight		kg	252×2	252×2	275+252	252×3	252×3	275+252×2	275+252×2
Refrigerant	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	11.7×2	11.7×2	11.8+11.7	11.7×3	11.7×3	11.8+11.7×2	11.8+11.7×2
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	15.88	19.05
	Gas		28.58	28.58	28.58	34.92	34.92	34.92	34.92
Operation range	Cooling	°CDB	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
When cooling operation will be conducted at outdoor air temperature below -5°C,
the outdoor unit must be installed in a position that is higher than or equal to those of indoor units.

30	32	34	36	38	40	42	44	46	48	50	52	54
												
AJY270LALBH	**AJY288LALBH**	**AJY306LALBH**	**AJY324LALBH**	**AJY342LALBH**	**AJY360LALBH**	**AJY378LALBH**	**AJY396LALBH**	**AJY414LALBH**	**AJY432LALBH**	**AJY450LALBH**	**AJY468LALBH**	**AJY486LALBH**
AJY144LALBH AJY126LALBH	AJY144LALBH AJY144LALBH	AJY162LALBH AJY144LALBH	AJY162LALBH AJY162LALBH	AJY162LALBH AJY090LALBH AJY090LALBH	AJY144LALBH AJY126LALBH AJY090LALBH	AJY144LALBH AJY144LALBH AJY090LALBH	AJY162LALBH AJY144LALBH AJY090LALBH	AJY162LALBH AJY162LALBH AJY090LALBH	AJY144LALBH AJY144LALBH AJY144LALBH	AJY162LALBH AJY144LALBH AJY144LALBH	AJY162LALBH AJY162LALBH AJY144LALBH	AJY162LALBH AJY162LALBH AJY162LALBH
64	64	64	64	64	64	64	64	64	64	64	64	64
42.5-127.5	45.0-135.0	47.5-135.0	50.0-135.0	53.0-151.5	56.5-169.5	59.0-177.0	61.5-177.0	64.0-177.0	67.5-202.5	70.0-202.5	72.5-202.5	75.0-202.5
3-phase 4 wire, 400 V, 50Hz												
85.0	90.0	95.0	100.0	106.0	113.0	118.0	123.0	128.0	135.0	140.0	145.0	150.0
95.0	100.0	100.0	100.0	113.0	126.5	131.5	131.5	131.5	150.0	150.0	150.0	150.0
23.97	26.02	29.57	33.12	31.12	31.25	33.30	36.85	40.40	39.03	42.58	46.13	49.68
24.80	27.26	27.26	27.26	28.13	32.05	34.51	34.51	34.51	40.89	40.89	40.89	40.89
3.55	3.46	3.21	3.02	3.41	3.62	3.54	3.34	3.17	3.46	3.29	3.14	3.02
3.83	3.67	3.67	3.67	4.02	3.95	3.81	3.81	3.81	3.67	3.67	3.67	3.67
13,700+13,000	13,700×2	13,700×2	13,700×2	13,700+11,100×2	13,700+13,000+11,100	13,700×2+11,100	13,700×2+11,100	13,700×2+11,100	13,700×3	13,700×3	13,700×3	13,700×3
64	65	66	66	65	65	66	66	67	67	67	67	68
66	67	67	67	66	67	68	68	68	69	69	69	69
82	82	82	82	82	82	82	82	82	82	82	82	82
11.0×2	11.0×2	11.0×2	11.0×2	11.0+7.5×2	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240×2	1,240×2	1,240×2	1,240×2	1,240+930×2	1,240×2+930	1,240×2+930	1,240×2+930	1,240×2+930	1,240×3	1,240×3	1,240×3	1,240×3
765	765	765	765	765	765	765	765	765	765	765	765	765
275×2	275×2	275×2	275×2	275+252×2	275×2+252	275×2+252	275×2+252	275×2+252	275×3	275×3	275×3	275×3
R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
11.8×2	11.8×2	11.8×2	11.8×2	11.8+11.7×2	11.8×2+11.7	11.8×2+11.7	11.8×2+11.7	11.8×2+11.7	11.8×3	11.8×3	11.8×3	11.8×3
19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

32	34	36	38	40	42	44	46
							
AJY288LALBHH	**AJY306LALBHH**	**AJY324LALBHH**	**AJY342LALBHH**	**AJY360LALBHH**	**AJY378LALBHH**	**AJY396LALBHH**	**AJY414LALBHH**
AJY108LALBH AJY108LALBH AJY072LALBH	AJY126LALBH AJY108LALBH AJY072LALBH	AJY108LALBH AJY108LALBH AJY108LALBH	AJY126LALBH AJY108LALBH AJY108LALBH	AJY126LALBH AJY126LALBH AJY108LALBH	AJY126LALBH AJY126LALBH AJY126LALBH	AJY144LALBH AJY126LALBH AJY126LALBH	AJY144LALBH AJY144LALBH AJY126LALBH
64	64			64	64	64	64
44.7-134.1	48.0-143.8	50.3-150.7	53.5-160.5	56.8-170.2	60.0-180.0	62.5-187.5	65.0-195.0
3-phase 4 wire, 400 V, 50Hz							
89.4	95.9	100.5	107.0	113.5	120.0	125.0	130.0
100.0	107.5	112.5	120.0	127.5	135.0	140.0	145.0
23.12	25.12	26.88	28.88	30.88	32.88	34.93	36.98
22.47	24.99	25.95	28.47	30.99	33.51	35.97	38.43
3.87	3.82	3.74	3.70	3.68	3.65	3.58	3.52
4.45	4.30	4.34	4.21	4.11	4.03	3.89	3.77
13,000×2+11,100	13,000×2+11,100	13,000×3	13,000×3	13,000×3	13,000×3	13,700+13,000×2	13,700×2+13,000
61	63	63	64	64	65	66	66
64	65	65	65	66	67	68	68
82	82	82	82	82	82	82	82
11.0×2+7.5	11.0×2+7.5	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3	11.0×3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
1,240×2+930	1,240×2+930	1,240×3	1,240×3	1,240×3	1,240×3	1,240×3	1,240×3
765	765	765	765	765	765	765	765
275×2+252	275×2+252	275×3	275×3	275×3	275×3	275×3	275×3
R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
11.8×2+11.7	11.8×2+11.7	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3	11.8×3
19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

*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

AIRSTAGE™ V-II

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

System Outline

Excellent energy savings

Heat pump type inverter control is used to achieve economic cooling and heating operation for individual air conditioning to entire air conditioning.

High design flexibility for various building air conditioning

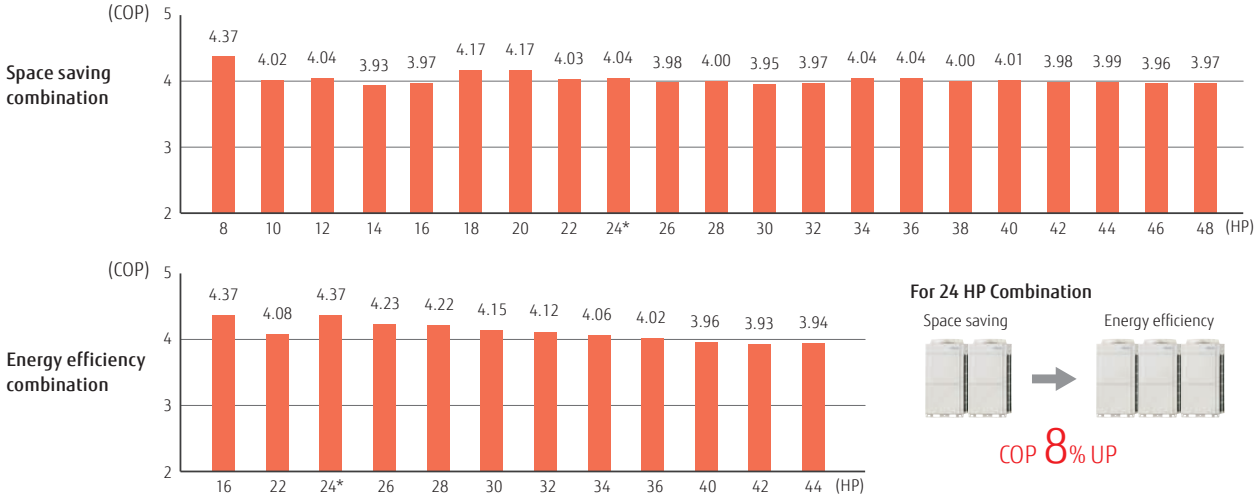
The high static pressure design flexibly meets the needs of high rise buildings including easy installation on each floor.

Easy installation and maintenanc

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

Efficiency in actual operation

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



Energy saving technology that boosted operation efficiency

Powerful large propeller fan

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

*1. CFD = Computational Fluid Dynamics

DC fan motor

Power consumption has been reduced by 25% compared to previous models by using a compact and high performance 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

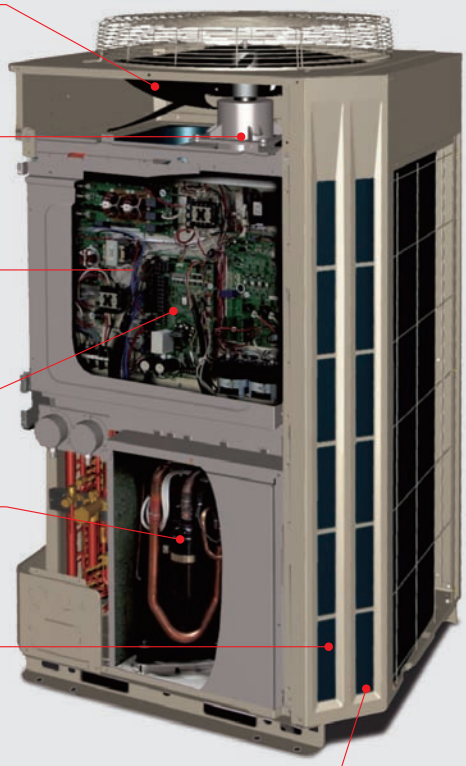
High efficiency operation is realized by using a sine wave DC inverter control.

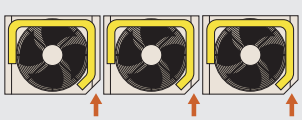
DC twin rotary compressor

Significantly greater efficiency is realized by use of a large capacity DC twin rotary compressor with substantially increased refrigerant intake and compression efficiency.

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)  AJYA72LALH UNIT : AJYA72LALH	28.0 kW (10HP)  AJYA90LALH UNIT : AJYA90LALH	33.5 kW (12HP)  AJY108LALH UNIT : AJY108LALH	40.0 kW (14HP)  AJY126LALH UNIT : AJY126LALH	45.0 kW (16HP)  AJY144LALH UNIT : AJY144LALH
50.4 kW (18HP)  AJY162LALH UNIT : AJYA90/A72LALH	56.9 kW (20HP)  AJY180LALH UNIT : AJY108/A72LALH	61.5 kW (22HP)  AJY198LALH UNIT : AJY108/A90LALH	67.0 kW (24HP)  AJY216LALH UNIT : AJY108/108LALH	73.5 kW (26HP)  AJY234LALH UNIT : AJY126/108LALH
78.5 kW (28HP)  AJY252LALH UNIT : AJY144/108LALH	85.0 kW (30HP)  AJY270LALH UNIT : AJY144/126LALH	90.0 kW (32HP)  AJY288LALH UNIT : AJY144/144LALH	95.0 kW (34HP)  AJY306LALH UNIT : AJY108/108/A90LALH	100.5 kW (36HP)  AJY324LALH UNIT : AJY108/108/108LALH
107.0 kW (38HP)  AJY342LALH UNIT : AJY126/108/108LALH	112.0 kW (40HP)  AJY360LALH UNIT : AJY144/108/108LALH	118.5 kW (42HP)  AJY378LALH UNIT : AJY144/126/108LALH	123.5 kW (44HP)  AJY396LALH UNIT : AJY144/144/108LALH	130.0 kW (46HP)  AJY414LALH UNIT : AJY144/144/126LALH
135.0 kW (48HP)  AJY432LALH UNIT : AJY144/144/144LALH				

Energy efficiency combination

44.8 kW (16HP)  AJY144LALHH UNIT : AJYA72/A72LALH	62.4 kW (22HP)  AJY198LALHH UNIT : AJY126/A72LALH	67.2 kW (24HP)  AJY216LALHH UNIT : AJYA72/A72/A72LALH	72.8 kW (26HP)  AJY234LALHH UNIT : AJYA90/A72/A72LALH	78.4 kW (28HP)  AJY252LALHH UNIT : AJY108/A72/A72LALH
84.8 kW (30HP)  AJY270LALHH UNIT : AJY126/A72/A72LALH	89.8 kW (32HP)  AJY288LALHH UNIT : AJY108/108/A72LALH	95.9 kW (34HP)  AJY306LALHH UNIT : AJY126/108/A72LALH	102.4 kW (36HP)  AJY324LALHH UNIT : AJY126/126/A72LALH	113.5 kW (40HP)  AJY360LALHH UNIT : AJY126/126/108LALH
120.0 kW (42HP)  AJY378LALHH UNIT : AJY126/126/126LALH	125.0 kW (44HP)  AJY396LALHH UNIT : AJY144/126/126LALH			

8,10,12HP : AJYA72LALH / AJYA90LALH / AJY108LALH
14,16HP : AJY126LALH / AJY144LALH

AIRSTAGE V-II

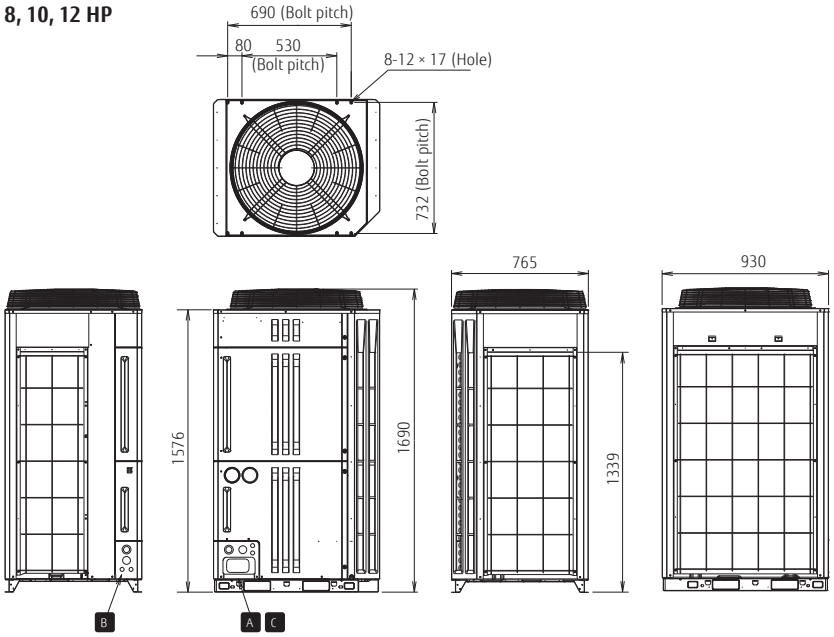
8, 10, 12 HP

14, 16 HP

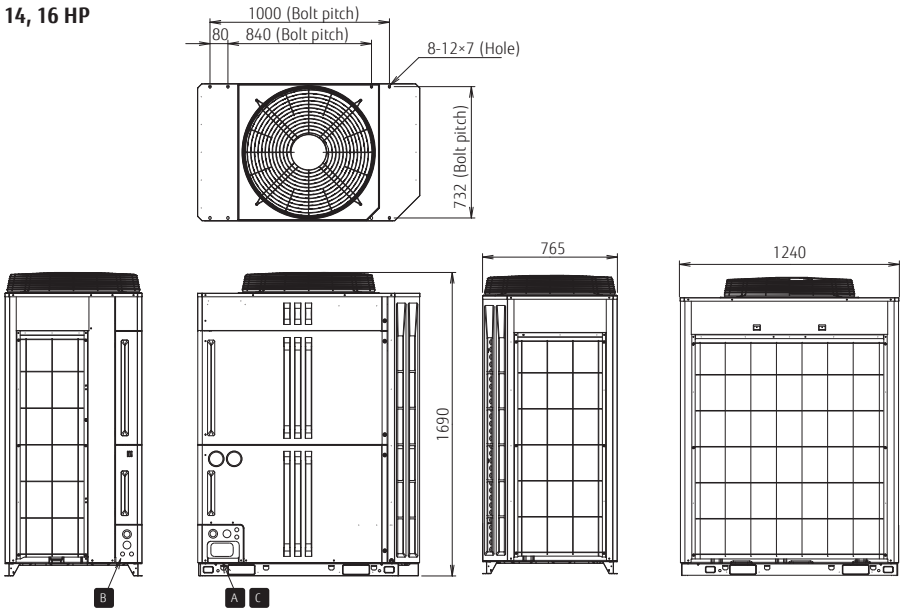
Dimensions

(Unit : mm)

8, 10, 12 HP



14, 16 HP



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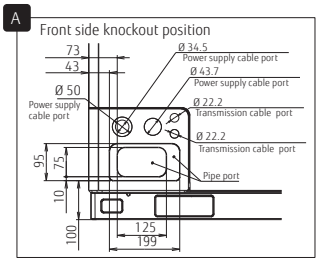

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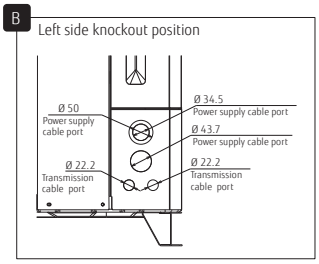

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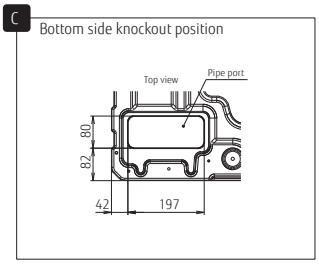


Outdoor units specifications

Space Saving Combination

Rating Capacity range		HP	8	10	12	14	16	18	20	22	24
											
Set Model name			AJYA72LALH	AJYA90LALH	AJY108LALH	AJY126LALH	AJY144LALH	AJY162LALH	AJY180LALH	AJY198LALH	AJY216LALH
Unit 1 Unit 2 Unit 3			AJYA72LALH	AJYA90LALH	AJY108LALH	AJY126LALH	AJY144LALH	AJYA90LALH AJYA72LALH	AJY108LALH AJYA72LALH	AJY108LALH AJYA90LALH	AJY108LALH AJY108LALH
Maximum Connectable Indoor Unit*1			15	16	17	21	24	32	32	32	35
Indoor unit connectable capacity		kW	11.2-33.6	14.0-42.0	16.8-50.2	20.0-60.0	22.5-67.5	25.2-75.6	28.0-83.8	30.8-92.2	33.5-100.5
Power source			3-phase 4 wire, 400 V, 50Hz								
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0	50.4	55.9	61.5	67.0
	Heating		25.0	31.5	37.5	45.0	50.0	56.5	62.5	69.0	75.0
Input power	Cooling	kW	5.51	7.73	9.62	11.53	14.17	13.24	15.13	17.35	19.24
	Heating		5.72	7.83	9.28	11.45	12.60	13.55	15.00	17.11	18.56
EER	Cooling	W/W	4.07	3.62	3.48	3.47	3.18	3.81	3.69	3.54	3.48
COP	Heating	W/W	4.37	4.02	4.04	3.93	3.97	4.17	4.17	4.03	4.04
Air flow late	High	m^3/h	11,100	11,100	11,100	13,000	13,000	11,100 × 2	11,100 × 2	11,100 × 2	11,100 × 2
Sound pressure level*2	Cooling	dB(A)	56	58	58	60	61	60	60	61	61
	Heating		58	59	60	61	61	62	62	63	63
Maximum external static pressure		Pa	80	80	80	80	80	80	80	80	80
Compresor motor output		kW	3.9	3.9	3.9 + 4.5	3.9 + 4.5	3.9 + 4.5	3.9 × 2	3.9 × 2 + 4.5	3.9 × 2 + 4.5	3.9 × 2 + 4.5 × 2
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930	930	930	1,240	1,240	930 × 2	930 × 2	930 × 2	930 × 2
	Depth		765	765	765	765	765	765	765	765	765
Weight		kg	220	220	275	303	303	220 + 220	275 + 220	275 + 220	275 + 275
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)	R410A (2,088)	R410A (2,088)
	Charge	kg	11.2	11.2	11.8	11.8	11.8	11.2 × 2	11.8 + 11.2	11.8 + 11.2	11.8 × 2
Connection pipe diameter	Liquid	mm	12.70	12.70	12.70	12.70	12.70	15.88	15.88	15.88	15.88
	Gas		22.22	22.22	28.58	28.58	28.58	28.58	28.58	34.92	34.92
Operation range	Cooling	°CDB	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Energy Efficiency Combination

Rating Capacity range		HP	16	22	24	26	28	30
								
Set Model name			AJY144LALHH	AJY198LALHH	AJY216LALHH	AJY234LALHH	AJY252LALHH	AJY270LALHH
Unit 1 Unit 2 Unit 3			AJYA72LALH AJYA72LALH	AJY126LALH AJYA72LALH	AJYA72LALH AJYA72LALH AJYA72LALH	AJYA90LALH AJYA72LALH AJYA72LALH	AJY108LALH AJYA72LALH AJYA72LALH	AJY126LALH AJYA72LALH AJYA72LALH
Maximum Connectable Indoor Unit*1			30	33	36	39	42	45
Indoor unit connectable capacity		kW	22.4-67.2	31.2-93.6	33.6-100.8	36.4-109.2	39.2-117.4	42.4-127.2
Power source			3-phase 4 wire, 400 V, 50Hz					
Capacity	Cooling	kW	44.8	62.4	67.2	72.8	78.3	84.8
	Heating		50.0	70.0	75.0	81.5	87.5	95.0
Input power	Cooling	kW	11.02	17.04	16.53	18.75	20.64	22.55
	Heating		11.44	17.17	17.16	19.27	20.72	22.89
EER	Cooling	W/W	4.07	3.66	4.07	3.88	3.79	3.76
COP	Heating	W/W	4.37	4.08	4.37	4.23	4.22	4.15
Air flow late	High	m^3/h	11,100 × 2	13,000 + 11,100	11,100 × 3	11,100 × 3	11,100 × 3	13,000 + 11,000 × 2
Sound pressure level*2	Cooling	dB(A)	59	61	61	62	62	63
	Heating		59	62	61	62	63	63
Maximum external static pressure		Pa	80	80	80	80	80	80
Compresor motor output		kW	3.9 × 2	3.9 × 2 + 4.5	3.9 × 3	3.9 × 3	3.9 × 3 + 4.5	3.9 × 3 + 4.5
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	1,690	1,690	1,690	1,690	1,690	1,690
	Width		930 × 2	930 + 1,240	930 × 3	930 × 3	930 × 3	930 × 2 + 1,240
	Depth		765	765	765	765	765	765
Weight		kg	220 + 220	303 + 220	220 + 220 + 220	220 + 220 + 220	275 + 220 + 220	303 + 220 + 220
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	11.2 × 2	11.8 + 11.2	11.2 × 3	11.2 × 3	11.8 + 11.2 × 2	11.8 + 11.2 × 2
Connection pipe diameter	Liquid	mm	12.70	15.88	15.88	15.88	15.88	19.05
	Gas		28.58	34.92	34.92	34.92	34.92	34.92
Operation range	Cooling	°CDB	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

Note : Specifications are based on the following conditions.
Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

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

26	28	30	32	34	36	38	40	42	44	46	48
											
AJY234LALH	**AJY252LALH**	**AJY270LALH**	**AJY288LALH**	**AJY306LALH**	**AJY324LALH**	**AJY342LALH**	**AJY360LALH**	**AJY378LALH**	**AJY396LALH**	**AJY414LALH**	**AJY432LALH**
AJY126LALH AJY108LALH	AJY144LALH AJY108LALH	AJY144LALH AJY126LALH	AJY144LALH AJY144LALH	AJY108LALH AJY108LALH AJYA90LALH	AJY108LALH AJY108LALH AJY108LALH	AJY126LALH AJY108LALH AJY108LALH	AJY144LALH AJY108LALH AJY108LALH	AJY144LALH AJY126LALH AJY108LALH	AJY144LALH AJY144LALH AJY108LALH	AJY144LALH AJY144LALH AJY126LALH	AJY144LALH AJY144LALH AJY144LALH
39	42	45	48	48	48	48	48	48	48	48	48
36.8-110.2	39.3-117.7	42.5-127.5	45.0-135.0	47.5-142.5	50.3-150.7	53.5-160.5	56.0-168.0	59.3-177.7	61.8-185.2	65.0-195.0	67.5-202.5
3-phase 4 wire, 400 V, 50Hz											
73.5	78.5	85.0	90.0	95.0	100.5	107.0	112.0	118.5	123.5	130.0	135.0
82.5	87.5	95.0	100.0	106.5	112.5	120.0	125.0	132.5	137.5	145.0	150.0
21.15	23.79	25.70	28.34	26.97	28.86	30.77	33.41	35.32	37.96	39.87	42.51
20.73	21.88	24.05	25.20	26.39	27.84	30.01	31.16	33.33	34.48	36.65	37.80
3.48	3.30	3.31	3.18	3.52	3.48	3.48	3.35	3.36	3.25	3.26	3.18
3.98	4.00	3.95	3.97	4.04	4.04	4.00	4.01	3.98	3.99	3.96	3.97
13,000 + 11,100	13,000 + 11,100	13,000 × 2	13,000 × 2	11,100 × 3	11,100 × 3	13,000 + 11,100 × 2	13,000 + 11,100 × 2	13,000 × 2 + 11,100	13,000 × 2 + 11,100	13,000 × 3	13,000 × 3
62	63	64	64	63	63	64	64	65	65	65	66
64	64	64	64	64	65	65	65	65	65	66	66
80	80	80	80	80	80	80	80	80	80	80	80
3.9 × 2 + 4.5 × 2	3.9 × 2 + 4.5 × 2	3.9 × 2 + 4.5 × 2	3.9 × 2 + 4.5 × 2	3.9 × 3 + 4.5 × 2	3.9 × 3 + 4.5 × 3	3.9 × 3 + 4.5 × 3	3.9 × 3 + 4.5 × 3	3.9 × 3 + 4.5 × 3	3.9 × 3 + 4.5 × 3	3.9 × 3 + 4.5 × 3	3.9 × 3 + 4.5 × 3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690	1,690
930 + 1,240	930 + 1,240	1,240 × 2	1,240 × 2	930 × 3	930 × 3	930 × 2 + 1,240	930 × 2 + 1,240	930 + 1,240 × 2	930 + 1,240 × 2	1,240 × 3	1,240 × 3
765	765	765	765	765	765	765	765	765	765	765	765
303 + 275	303 + 275	303 + 303	296 + 296	275 + 275 + 220	275 + 275 + 275	303 + 275 + 275	303 + 275 + 275	303 + 303 + 275	303 + 303 + 275	303 + 303 + 303	303 + 303 + 303
R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
11.8 × 2	11.8 × 2	11.8 × 2	11.8 × 2	11.8 × 2 + 11.2	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3	11.8 × 3
15.88	15.88	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	34.92	34.92	34.92	41.27	41.27	41.27	41.27	41.27	41.27	41.27
-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

32	34	36	40	42	44
					
AJY288LALHH	**AJY306LALHH**	**AJY324LALHH**	**AJY360LALHH**	**AJY378LALHH**	**AJY396LALHH**
AJY108LALH AJY108LALH AJYA72LALH	AJY126LALH AJY108LALH AJYA72LALH	AJY126LALH AJY126LALH AJYA72LALH	AJY126LALH AJY126LALH AJY108LALH	AJY126LALH AJY126LALH AJY126LALH	AJY144LALH AJY126LALH AJY126LALH
48	48	48	48	48	48
44.7-134.1	48.0-143.8	51.2-153.6	56.8-170.2	60.0-180.0	62.5-187.5
3-phase 4 wire, 400 V, 50Hz					
89.4	95.9	102.4	113.5	120.0	125.0
100.0	107.5	115.0	127.5	135.0	140.0
24.75	26.66	28.57	32.68	34.59	37.23
24.28	26.45	28.62	32.18	34.35	35.50
3.61	3.60	3.58	3.47	3.47	3.36
4.12	4.06	4.02	3.96	3.93	3.94
11,100 × 3	13,000 + 11,100 × 2	13,000 × 2 + 11,100	13,000 × 2 + 11,100	13,000 × 3	13,000 × 3
62	63	64	64	65	65
64	64	65	65	66	66
80	80	80	80	80	80
3.9 × 3 + 4.5 × 2	3.9 × 3 + 4.5 × 2	3.9 × 3 + 4.5 × 2	3.9 × 3 + 4.5 × 3	3.9 × 3 + 4.5 × 3	3.9 × 3 + 4.5 × 3
Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
1,690	1,690	1,690	1,690	1,690	1,690
930 × 3	930 × 2 + 1,240	930 + 1,240 × 2	930 + 1,240 × 2	1,240 × 3	1,240 × 3
765	765	765	765	765	765
275 + 275 + 220	303 + 275 + 220	303 + 303 + 220	303 + 303 + 275	303 + 303 + 303	303 + 303 + 303
R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
11.8 × 2 + 11.2	11.8 × 2 + 11.2	11.8 × 2 + 11.2	11.8 × 3	11.8 × 3	11.8 × 3
19.05	19.05	19.05	19.05	19.05	19.05
34.92	34.92	41.27	41.27	41.27	41.27
-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46	-5 to 46
-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

*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.

NEW

Heat Pump for Small Capacity Type

System Outline

High Energy Efficiency

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

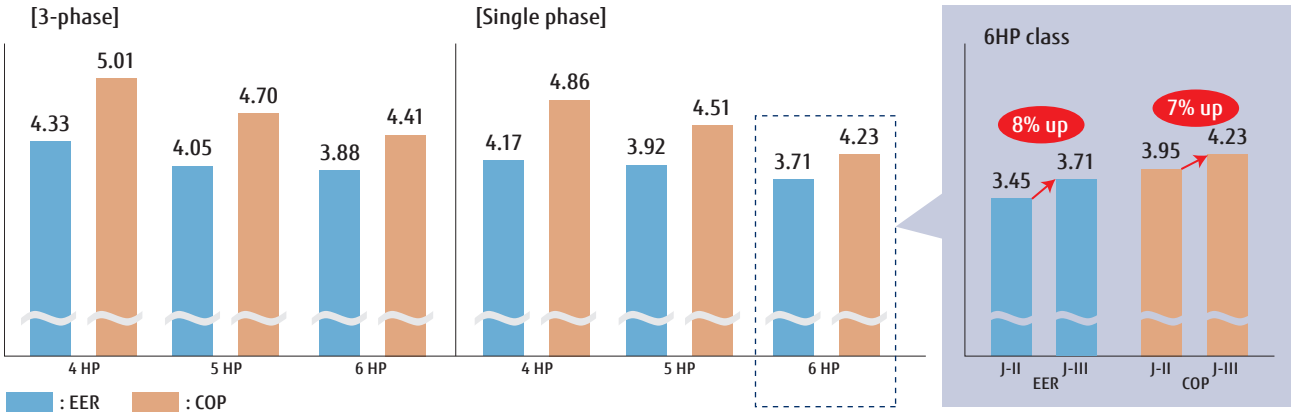
Flexible systems for small- and medium-size buildings air conditioning

Space saving design and long piping design allow forflexible installation on the roofs or balconies of smalland 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

Large propeller fan

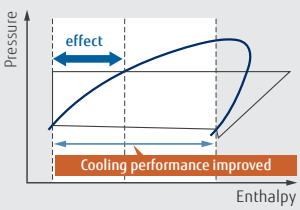
High performance and low noise realized by large propeller and optimization of angle.

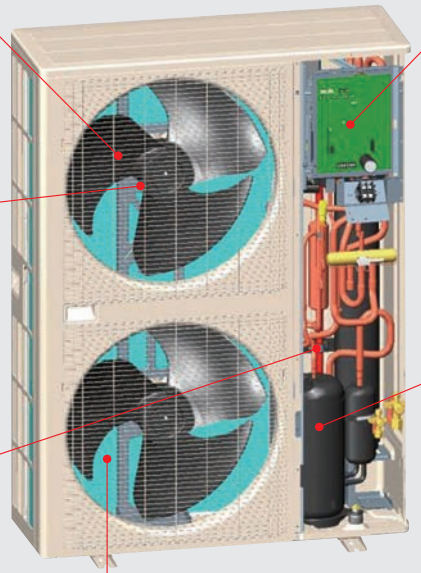
DC fan motor

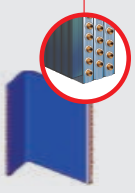
Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.

Subcool heat exchanger

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





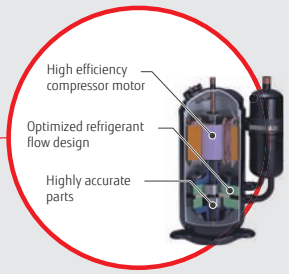


Large heat exchanger

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

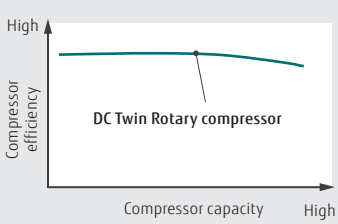
DC inverter control

Efficiency is improved by mounting of new active filter module.



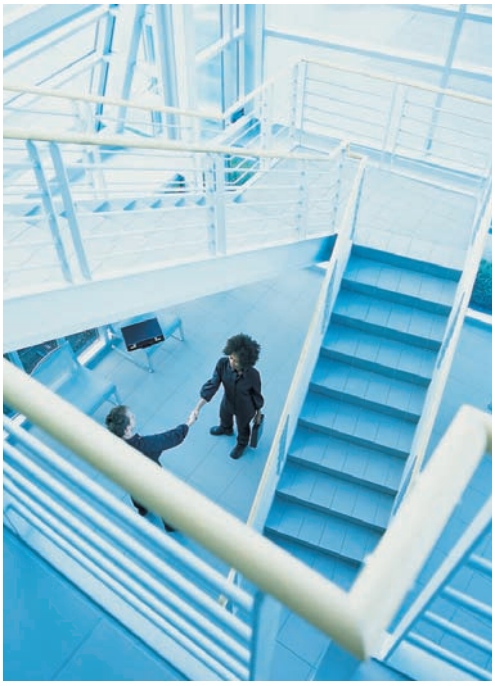
DC twin rotary compressor

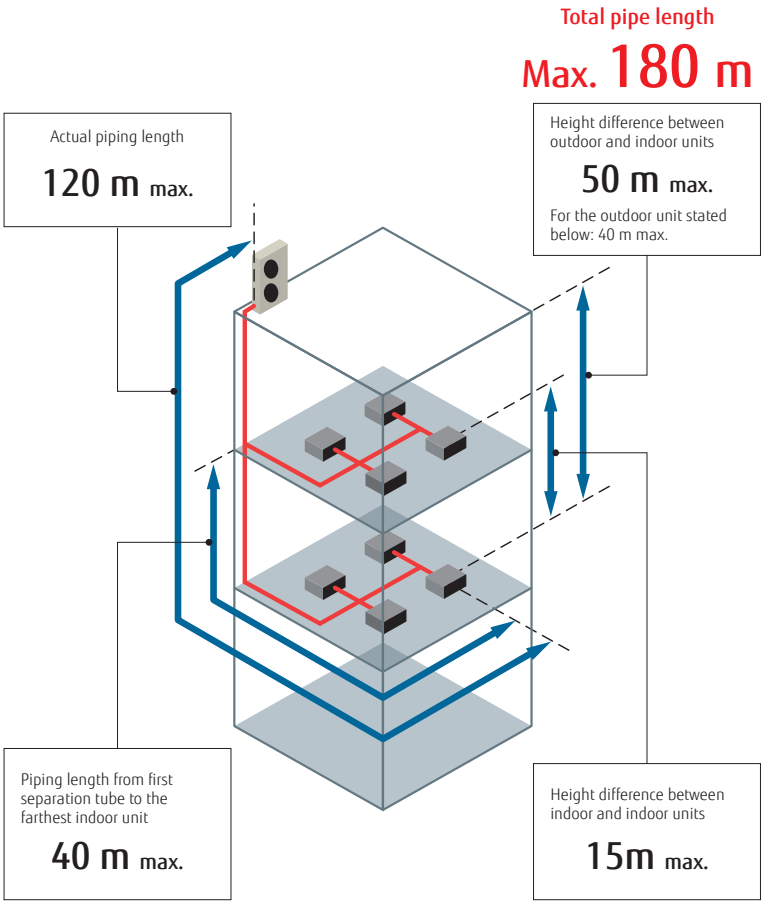
Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.



Long Piping Length

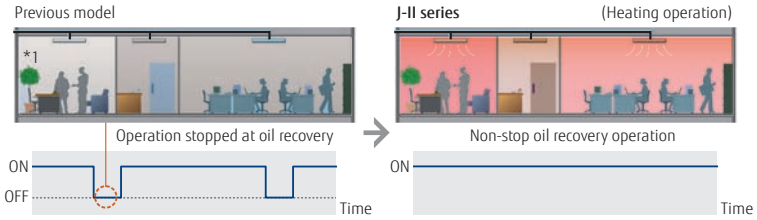
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 180 m. This opens up new possibilities in system design.





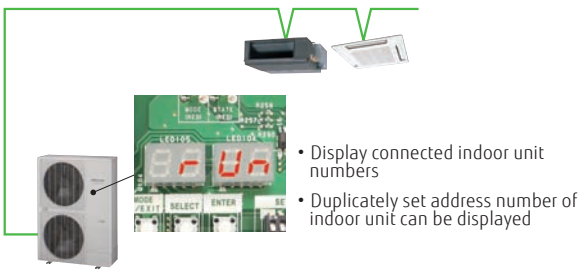
Non-stop oil recovery operation

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



Easier Installation

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



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

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

AIRSTAGE J-III

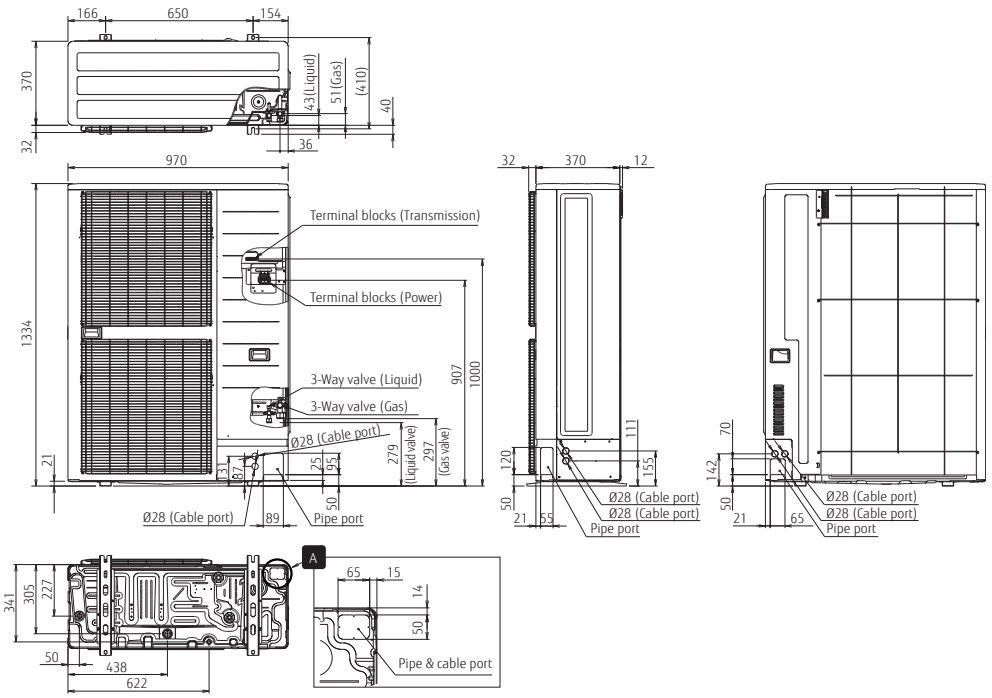
Specifications

Rating Capacity range		HP	4	5	6	4	5	6
Model name			AJY040LBLAH	AJY045LBLAH	AJY054LBLAH	AJY040LELAH	AJY045LELAH	AJY054LELAH
Maximum Connectable Indoor Unit			1-9	1-10	1-13	1-9	1-10	1-13
Power source			Single-phase, ~230V, 50Hz			3-phase, ~400V, 50Hz		
Capacity	Cooling	kW	12.1	14.0	15.5	12.1	14.0	15.5
	Heating		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		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 late		m^3/h	6,200	6,400	6,900	6,200	6,400	6,900
Sound pressure level	Cooling	dB(A)	50	51	53	50	51	53
	Heating		52	53	55	52	53	55
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		970	970	970	970	970	970
	Depth		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	4.8	5.3	5.3	4.8	5.3	5.3
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52
	Gas		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			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		-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)



Heat Pump for Small Capacity Type

AIRSTAGE™ J-IIS

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

System Outline

Space saving and low sound level design

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

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

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

Small and light weight outdoor unit

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

Model / 6HP class

Height difference
998 mm
▲25%

Light weight
87 kg
▲26%

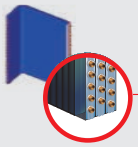
Advanced high efficiency technology

Large propeller fan

High performance and low noise realized by large propeller and optimization of angle.

DC fan motor

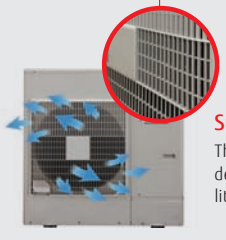
Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.



Large heat exchanger

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

High heat transfer copper tube (Improved lead angle)

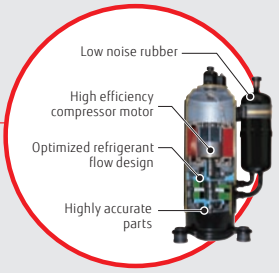


Smooth airflow grille

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

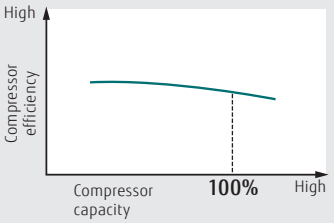
DC inverter control

Efficiency is improved by mounting of new active filter module.



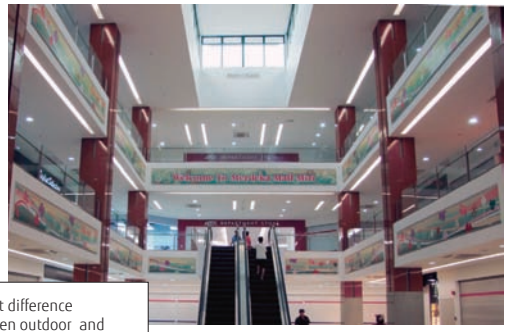
Compact and high performance DC twin rotary compressor

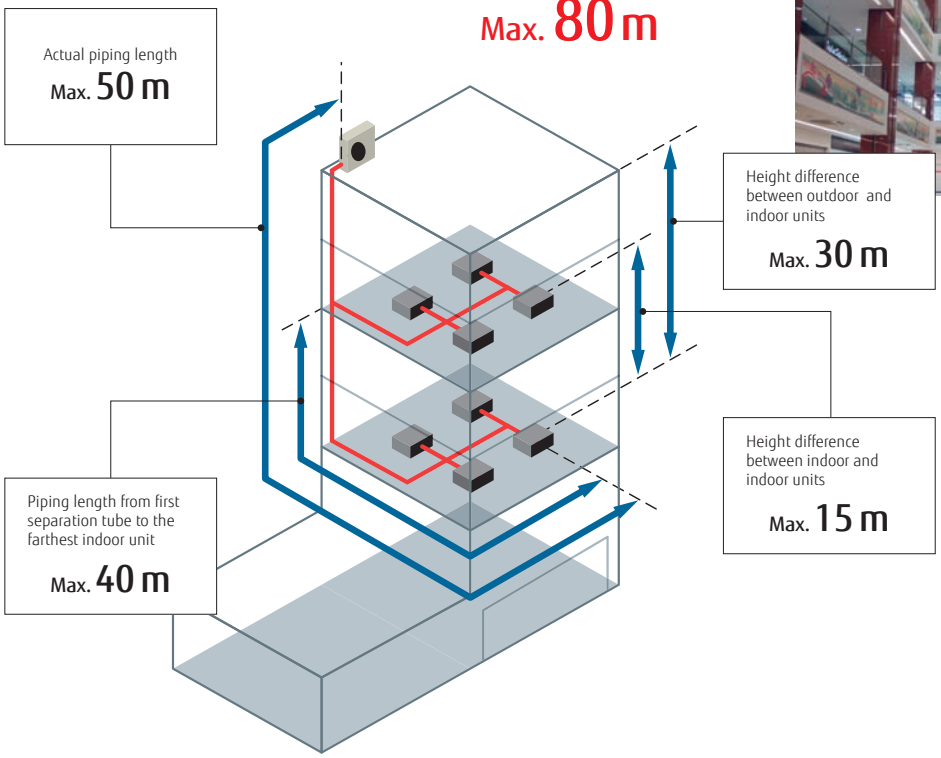
Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.



Long piping length

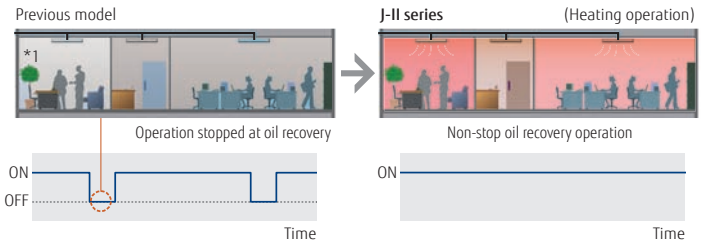
Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 80 m. This opens up new possibilities in system design.





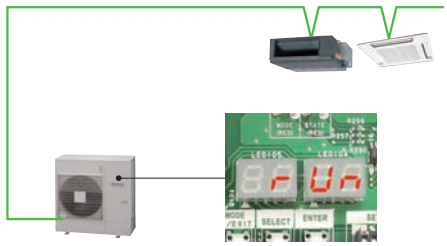
Non-stop oil recovery operation

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 : AJY040LCLAH / AJY045LCLAH / AJY054LCLAH

AIRSTAGE™ J-IIS

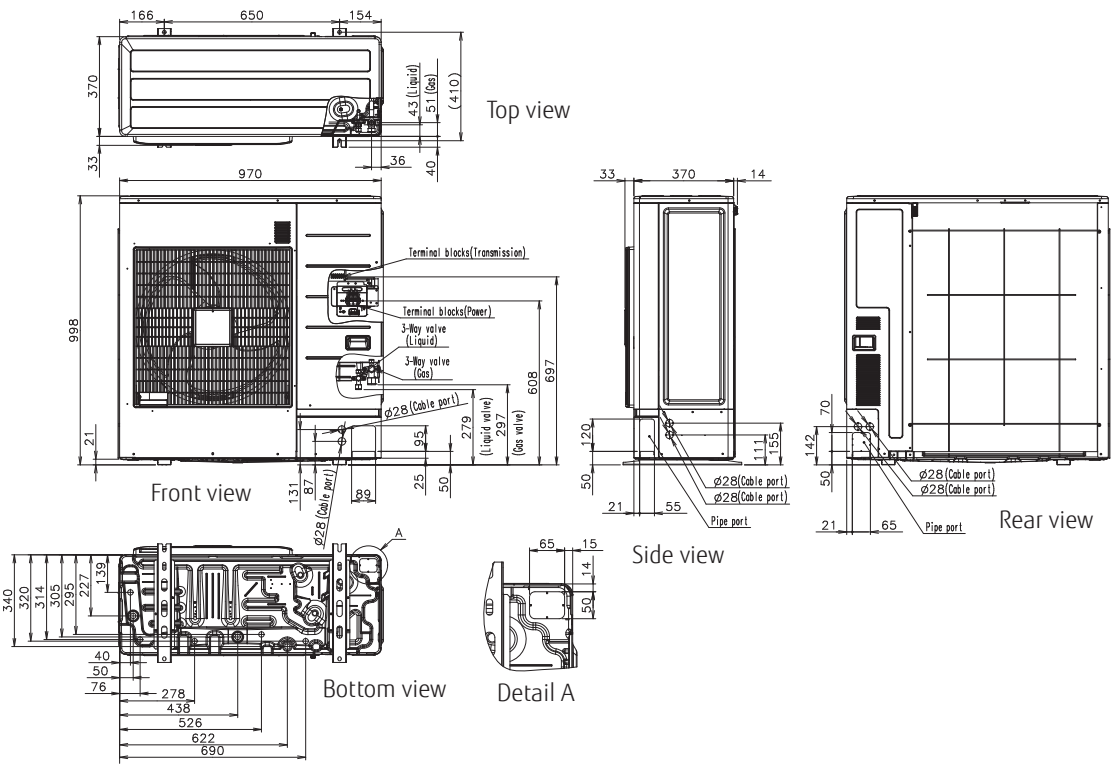
Specifications

Rating Capacity range		HP	4	5	6
Model name			AJY040LCLAH	AJY045LCLAH	AJY054LCLAH
Maximum Connectable Indoor Unit			7	8	8
Power source			Single-phase, ~230V, 50Hz		
Capacity	Cooling	kW	12.1	14.0	15.1
	Heating		13.6	16.0	16.5
Input power	Cooling	kW	3.44	4.43	5.32
	Heating		3.09	3.93	4.26
EER	Cooling	W/W	3.52	3.16	2.84
COP	Heating	W/W	4.40	4.07	3.87
Air flow late		m^3/h	4,040	4,200	4,200
Sound pressure level	Cooling	dB(A)	51	53	54
	Heating		54	55	56
Heat exchanger fin			Blue fin	Blue fin	Blue fin
Net Dimensions	Height	mm	998	998	998
	Width		970	970	970
	Depth		370	370	370
Weight		kg	86	86	87
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg	4.0	4.0	4.0
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52
	Gas		15.88	15.88	15.88
Total pipe length		m	80	80	80
Max. height difference			30	30	30
Operation range	Cooling	˚C	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21

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)



Indoor units

Indoor Unit Lineup

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

Capacity range (kW)		1.1	2.2	2.8	3.6	4.5	5.6
Model code		4	7	9	12	14	18
Cassette	4-way Compact Cassette	 AUXB04GALH	 AUXB07GALH	 AUXB09GALH	 AUXB12GALH	 AUXB14GALH	 AUXB18GALH
	4-way Cassette (Slim type)						 AUXD18GALH
	4-way Cassette (Large type)						 AUXA18GALH
	NEW Mini Duct (With drain pump)		 ARXK07GCLH	 ARXK09GCLH	 ARXK12GCLH	 ARXK14GCLH	 ARXK18GCLH
	Slim Duct (With drain pump)	 ARXD04GALH	 ARXD07GALH	 ARXD09GALH	 ARXD12GALH	 ARXD14GALH	 ARXD18GALH
	Medium Static Pressure Duct						
	High Static Pressure Duct						
	Large Airflow Duct						 ARXN18GATH*2
Floor	Floor (*Same as Ceiling models)				 ABYA12GATH	 ABYA14GATH	 ABYA18GATH
	Slim Concealed Floor (*Same as Slim Duct models)	 ARXD04GALH	 ARXD07GALH	 ARXD09GALH	 ARXD12GALH	 ARXD14GALH	 ARXD18GALH
Ceiling	Ceiling				 ABYA12GATH	 ABYA14GATH	 ABYA18GATH
Wall Mounted	Wall Mounted	 ASYA04GACH	 ASYA07GACH	 ASYA09GACH	 ASYA12GACH	 ASYA14GACH	 ASYA18GACH
	Wall Mounted (EEV external)	 ASHE04GACH	 ASHE07GACH	ASHE09GACH	ASHE12GACH	ASHE14GACH	

With this model, connection of EV kit is necessary.

7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0	28.0
24	30	34	36	45	54	60	72	90	96
 AUXB24GALH									
 AUXD24GALH									
 AUXA24GALH	 AUXA30GALH	 AUXA34GALH	 AUXA36GALH	 AUXA45GALH	 AUXA54GALH				
 ARXK24GCLH									
 ARXD24GALH									
 ARXA24GBLH	 ARXA30GBLH		 ARXA36GBLH	 ARXA45GBLH					
			 ARXC36GBTH	 ARXC45GATH		 ARXC60GATH*1	 ARXC72GBTH*1	 ARXC90GBTH*1	NEW  ARXC96GATH*1
 ARXN24GATH*2	 ARXN30GATH*2	 ARXN34GATH*2	 ARXN36GATH*2	 ARXN45GATH*2					
 ABYA24GATH									
 ARXD24GALH									
 ABYA24GATH	 ABYA30GATH		 ABYA36GATH	 ABYA45GATH	 ABYA54GATH				
 ASYA24GACH	 ASYA30GACH								

*1: ARXC60/72/90G/96G cannot be connected to J-IIS and J-III series.
*2: Large Airflow Duct can be connected to V-III series only.

Indoor Units Specifications

4-way Compact Cassette

Model name				AUXB04GALH	AUXB07GALH	AUXB09GALH	AUXB12GALH	AUXB14GALH	AUXB18GALH	AUXB24GALH
Power source				Single-phase, ~230V, 50Hz						
Capacity		Cooling	kW	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			W	23	25	25	29	35	36	84
Airflow rate		High	m^3/h	530	540	550	600	680	710	1,030
		Med		420/450*1	450	450	530	590	580	830
		Low		300/350*1	350	350	390	390	400	450
Sound pressure level		High	dB(A)	34	34	35	37	38	41	50
		Med		28/30*1	30	30	34	34	35	44
		Low		21/25*1	25	25	27	27	27	30
Net Dimensions (H × W × D)			mm	245 × 570 × 570						
Weight			kg(lbs)	15 (33)					17 (37)	
Connection pipe diameter		Liquid (Flare)	mm	6.35					9.52	
		Gas (Flare)		12.70					15.88	
Drain hose diameter (I.D./O.D.)				25/32						
Cassette Grille	Model name			UTG-UFYC-W						
	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	kW	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			W	39	46	51	51	59	77	80	99	119
Airflow rate		High	m^3/h	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
Sound pressure level		High	dB(A)	36	38	40	40	40	43	44	46	47
		Med		30	33	36	36	38	38	38	39	39
		Low		29	29	33/31*1	33/31*1	33	33	33	33	33
Net Dimensions (H × W × D)			mm	246 × 840 × 840		288 × 840 × 840						
Weight			kg(lbs)	22 (48)		27 (59)						
Connection pipe diameter		Liquid (Flare)	mm	9.52								
		Gas (Flare)		15.88						19.05		
Drain hose diameter (I.D./O.D.)				25/32								
Cassette Grille	Model name			UTG-UGYA-W								
	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".

Mini Duct

Model name				ARXK07GCLH	ARXK09GCLH	ARXK12GCLH	ARXK14GCLH	ARXK18GCLH	ARXK24GCLH
Power source				Single-phase, ~230V, 50Hz					
Capacity		Cooling	kW	2.2	2.8	3.6	4.5	5.6	7.1
		Heating		2.8	3.2	4.0	5.0	6.3	8.0
Input power			W	28	28	35	66	73	80
Airflow rate		High	m^3/h	460	460	550	760	930	1,160
		Med		420	420	480	560	740	960
		Low		370	370	410	410	540	750
Static pressure range			Pa	0 to 30	0 to 30	0 to 30	0 to 50	0 to 50	0 to 50
Standard static pressure				10	10	10	15	15	15
Sound pressure level		High	dB(A)	26	26	29	34	33	32
		Med		24	24	26	28	28	28
		Low		22	22	24	24	24	25
Net Dimensions (H × W × D)			mm	198 × 700 × 450				198 × 900 × 450	198 × 1,100 × 450
Weight			kg(lbs)	15.5 (34)		16 (35)		19 (42)	22.5 (50)
Connection pipe diameter		Liquid (Flare)	mm	6.35				9.52	
		Gas (Flare)		12.70				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].

Slim Duct / Slim Concealed Floor

Model name			ARXD04GALH	ARXD07GALH	ARXD09GALH	ARXD12GALH	ARXD14GALH	ARXD18GALH	ARXD24GALH
Power source			Single-phase, ~230V, 50Hz						
Capacity	Cooling	kW	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	40	44	50	54	92	83	122
Airflow rate	High	m^3/h	510	550	600	600	800	940	1,330
	Med		400/470*1	490	550	510	710	840	1,240
	Low		320/440*1	440	480	450	610	750	1,100
Static pressure range		Pa	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 90	0 to 50
Standard static pressure			25	25	25	25	25	25	25
Sound pressure level	High	dB(A)	26	28	29	30	34	34	35
	Med		21/25*1	25	26	27	32	32	32
	Low		20/22*1	22	24	24	28	28	29
Net Dimensions (H × W × D)		mm	198 × 700 × 620					198 × 900 × 620	198 × 1,100 × 620
Weight		kg(lbs)	17 (37)			18 (40)		22 (48)	18 (40)
Connection pipe diameter	Liquid (Flare)	mm	6.35					9.52	
	Gas (Flare)		12.70					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].
*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	kW	7.1	9.0	11.2	12.5
	Heating		8.0	10.0	12.5	14.0
Input power		W	94	108	194	240
Airflow rate	High	m^3/h	1,280	1,410	1,840	1,970
	Med		990	1,280	1,600	1,860
	Low		840	1,150	1,470	1,640
Static pressure range		Pa	0 to 150	0 to 150	0 to 150	0 to 150
Standard static pressure			40	50	50	60
Sound pressure level	High	dB(A)	31	34	37	41
	Med		27	32	35	38
	Low		23	29	33	36
Net Dimensions (H × W × D)		mm	270 × 1,135 × 700			
Weight		kg(lbs)	36 (79)	40 (88)		
Connection pipe diameter	Liquid (Flare)	mm	9.52			
	Gas (Flare)		15.88		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	kW	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	207	715	730	681	819	838
Airflow rate	High	m^3/h	1,990	3,500	3,500	3,900	4,300	4,850
	Med		1,680	3,000	3,000	3,300	4,000	4,250
	Low		1,330	2,460	2,460	3,000	3,500	3,600
Static pressure range		Pa	0 to 200	100 to 250	100 to 250	0 to 300	0 to 300	0 to 300
Standard static pressure			100	100	100	150	150	150
Sound pressure level	High	dB(A)	42	49	49	47	48	48
	Med		36	45	45	43	46	45
	Low		32	42	42	40	44	42
Net Dimensions (H × W × D)		mm	400 × 1,050 × 500			450 × 1,587 × 700		550 × 1,587 × 700
Weight		kg(lbs)	40 (88)	46 (101)		84 (185)		105 (231)
Connection pipe diameter	Liquid	mm	9.52 (Flare)			12.70 (Brazing)		
	Gas		19.05 (Flare)			22.22 (Brazing)		
Drain hose diameter (I.D./O.D.)			25/32					

Note : Specifications are based on the following conditions.
*: ARXC60/72/90/96G cannot be connected to J-IIS and J-III series.

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].

Indoor Units Specifications

Large Airflow Duct

Model name			ARXN18GATH	ARXN24GATH	ARXN30GATH	ARXN34GATH	ARXN36GATH	ARXN45GATH
Power source			Single-phase, ~230V, 50Hz					
Capacity	Cooling	kW	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	154	205	306	432	572	572
Airflow rate	High	m^3/h	2,280	2,640	3,200	3,720	4,120	4,120
	Med		–	–	–	–	–	–
	Low		–	–	–	–	–	–
Static pressure range		Pa	50 to 100	50 to 150	50 to 250	50 to 250	50 to 300	50 to 300
Standard static pressure			50	50	50	50	60	60
Sound pressure level	High	dB(A)	35	37	40	43	45	45
	Med		–	–	–	–	–	–
	Low		–	–	–	–	–	–
Net Dimensions (H × W × D)		mm	450 × 1,587 × 700					
Weight		kg(lbs)	84 (185)					
Connection pipe diameter	Liquid	mm	9.52 (Flare)					
	Gas		15.88 (Flare)				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].

Floor / Ceiling

Model name			ABYA12GATH	ABYA14GATH	ABYA18GATH	ABYA24GATH
Power source			Single-phase, ~230V, 50Hz			
Capacity	Cooling	kW	3.6	4.5	5.6	7.1
	Heating		4.0	5.0	6.3	8.0
Input power		W	30	42	74	99
Airflow rate	High	m^3/h	660	780	1,000	1,000
	Med		570	640	720	820
	Low		490	550	580	680
Sound pressure level	High	dB(A)	36	40	46	47
	Med		32	36	39	42
	Low		28	34	35	37
Net Dimensions (H × W × D)		mm	199 × 990 × 655			
Weight		kg(lbs)	25 (55)	26 (57)	26 (57)	27 (59)
Connection pipe diameter	Liquid (Flare)	mm	6.35		9.52	
	Gas (Flare)		12.70		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].

Ceiling

Model name			ABYA30GATH	ABYA36GATH	ABYA45GATH	ABYA54GATH
Power source			Single-phase, ~230V, 50Hz			
Capacity	Cooling	kW	9.0	11.2	12.5	14.0
	Heating		10.0	12.5	14.0	16.0
Input power		W	66	85	131	180
Airflow rate	High	m^3/h	1,630	1,690	2,010	2,270
	Med		1,370	1,400	1,600	1,780
	Low		1,140	1,170	1,230	1,280
Sound pressure level	High	dB(A)	42	45	48	51
	Med		38	38	42	45
	Low		33	34	35	36
Net Dimensions (H × W × D)		mm	240 × 1,660 × 700			
Weight		kg(lbs)	46 (101)	48 (106)		
Connection pipe diameter	Liquid (Flare)	mm	9.52	9.52		
	Gas (Flare)		15.88	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].

Wall Mounted

Model name			ASYA04GACH	ASYA07GACH	ASYA09GACH	ASYA12GACH	ASYA14GACH	ASYE04GACH	ASYE07GACH	ASYE09GACH	ASYE12GACH	ASYE14GACH
Power source			Single-phase, ~230V, 50Hz					Single-phase, ~230V, 50Hz				
Capacity	Cooling	kW	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	13	17	18	22	34	12	15	16	21	34
Airflow rate	High	m^3/h	450	490	500	560	670	450	490	500	560	680
	Med		370/440*1	450	450	480	490	370/440*1	450	450	480	490
	Low		320/420*1	370/420*1	370/420*1	420	420	300/420*1	370/420*1	370/420*1	420	420
Sound pressure level	High	dB(A)	33	35	36	39	44	32	34	35	38	43
	Med		27/32*1	33	33	35	37	26/31*1	32	32	34	35
	Low		22/31*1	27/31*1	27/31*1	31	32	19/30*1	26/30*1	26/30*1	30	30
Net Dimensions (H × W × D)		mm	275 × 790 × 215					275 × 790 × 215				
Weight		kg(lbs)	9 (20)					9 (20)				
Connection pipe diameter	Liquid (Flare)	mm	6.35					6.35				
	Gas (Flare)		12.70					12.70				
Drain hose diameter (I.D./O.D.)			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].
*1 : This value is under cooling operation.

Wall Mounted

Model name			ASYA18GACH	ASYA24GACH	ASYA30GACH
Power source			Single-phase, ~230V, 50Hz		
Capacity	Cooling	kW	5.6	7.1	8.0
	Heating		6.3	8.0	9.0
Input power		W	32	60	91
Airflow rate	High	m^3/h	840	1,100	1,240
	Med		770	910	980
	Low		690	730	770
Sound pressure level	High	dB(A)	41	48	52
	Med		39	43	45
	Low		35	35	35
Net Dimensions (H × W × D)		mm	320 × 998 × 228		
Weight		kg(lbs)	15 (33)		
Connection pipe diameter	Liquid (Flare)	mm	9.52		
	Gas (Flare)		15.88		
Drain hose diameter (I.D./O.D.)			12/16		

Note : Specifications are based on the following conditions.

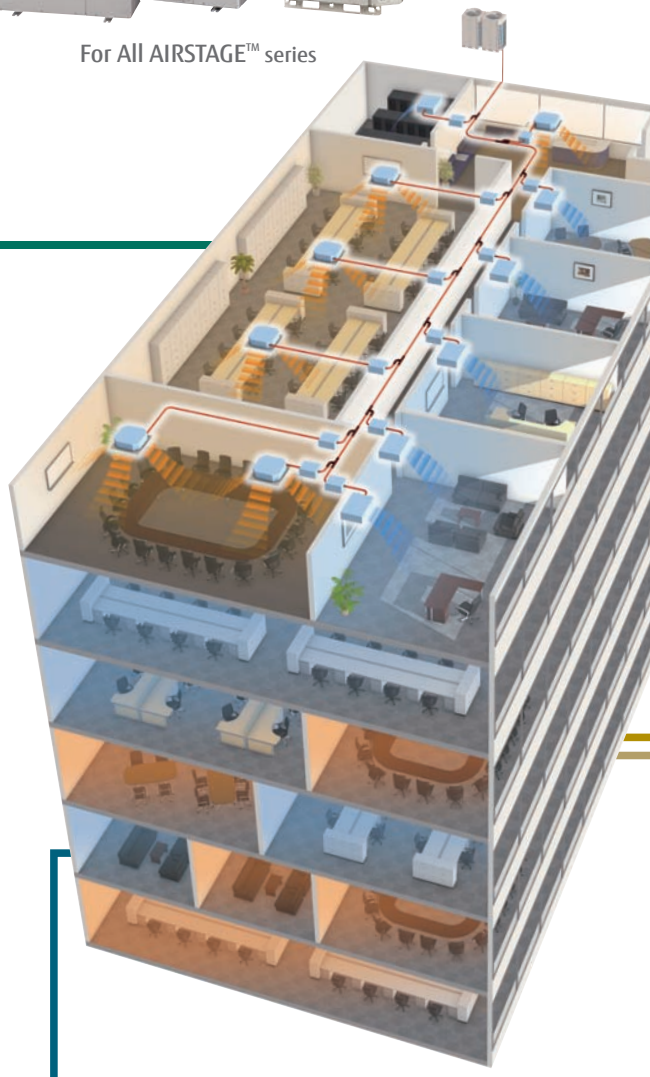
Cooling : Indoor temperature of 27˚CDB / 19˚CWB, and outdoor temperature of 35˚CDB / 24˚CWB.
Heating : Indoor temperature of 20˚CDB / (15˚CWB), and outdoor temperature of 7˚CDB / 6˚CWB.
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
Voltage : 230 [V].

Controller

Control system overview

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

For All AIRSTAGE™ series



Air Conditioning Individual Control

Wired Remote Controller (Touch panel)

UTY-RNRYZ1 NEW

Wired Remote Controller

UTY-RLRY

Simple Remote Controller

UTY-RSKY

Simple Remote Controller

UTY-RHKY

Without operation mode

Wireless Remote Controller

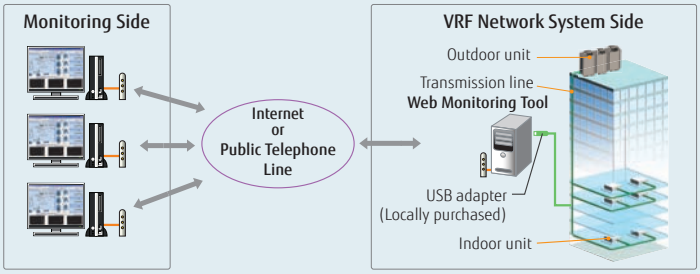
UTY-LNHY

Service & Maintenance Tool

Web Monitoring System

Software

UTY-AMGX



Service Tool

Software

UTY-ASGX

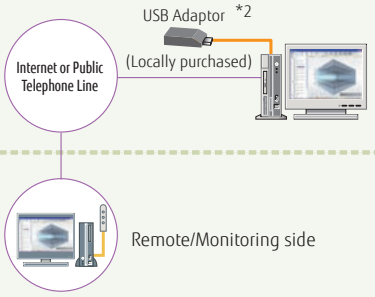
USB Adaptor *2 (Locally purchased)

Air Conditioning Centralized Control

System Controller
Software

UTY-APGX

UTY-ALGX (Lite edition)



Touch Panel Controller
UTY-DTGYZ1 NEW

Central Remote Controller
UTY-DCGY

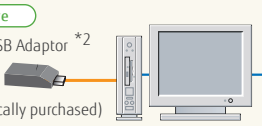
Group Remote Controller
UTY-CGGY

Network Convertor
UTY-VGGXZ1

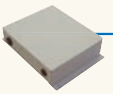
Convertor / Adaptor (for external device)

BACnet® Gateway
Software

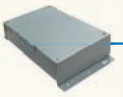
UTY-ABGX



Network Convertor (BMS/LONWORKS®)
UTY-VLGX



MODBUS® Convertor
UTY-VMGX NEW



MODBUS® Interface
FJ-RC-MBS-1

KNX® Interface
FJ-RC-KNX-1i

Wireless LAN Interface
FJ-RC-WIFI-1

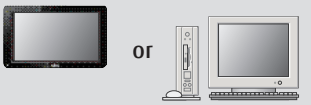
External Switch Controller
UTY-TEKX

Card-key
(Locally purchased)

Internet device

BMS/BAS *1

BMS, Home automation system



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

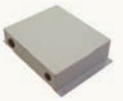
*2. USB Adaptor: Echelon® U10 USB Network Interface

Convertor / Adaptor (for system expansion)

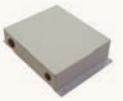
Network Convertor
UTY-VTGX NEW

Network Convertor (AC power supply)
UTY-VTGXV NEW

Network Convertor
UTY-VGGXZ1



Signal Amplifier
UTY-VSGXZ1



Comparison table of Controllers

Item			 Wired Remote Controller (Touch panel)	 Wired Remote Controller	 Simple Remote Controller	 Simple Remote Controller*1	 Wireless Remote Controller	 Group Remote Controller	 Central Remote Controller	 Touch Panel Controller	 System Controller Lite Software	 System Controller Software
Model name			UTY-RNRYZ1	UTY-RLRY	UTY-RSKY	UTY-RHKY	UTY-LNHY	UTY-CGGY	UTY-DCGY	UTY-DTGYZ1	UTY-ALGX	UTY-APGX
Max. controllable remote controller groups			1	1	1	1	1	8	100	400	400	1600
Max. controllable indoor units			16	16	16	16	16	128	100	400	400	1600
Max. controllable groups			–	–	–	–	–	–	16	400	400	1600
Air conditioning control function	On / Off		●	●	●	●	●	●	●	●	●	●
	Operation mode setting		●	●	●	–	●	●	●	●	●	●
	Fan speed setting		●	●	●	●	●	●	●	●	●	●
	Room temp. setting		●	●	●	●	●	●	●	●	●	●
	Room temp. set point limitation		●	●	–	–	–	–	●	●	●	●
	Test operation		●	●	●	–	●	–	●	●	–	–
	Up/down air direction flap setting		●	●	–	–	●	–	●	●	●	●
	Right/left air direction flap setting		●	●	–	–	●	–	●	●	●	●
	Group setting		–	–	–	–	–	–	●	●	●	●
	RC prohibition		–	–	–	–	–	–	●	●	●	●
	Anti freeze setting		●	–	–	–	–	–	●	●	●	●
	Economy mode setting		●	●	–	–	●	–	●	●	●	●
Display	Error		●	●	●	●	–	●	●	●	●	●
	Defrosting		●	●	●	●	–	–	●	●	●	●
	Current time		●	●	–	–	●	●	●	●	●	●
	Day of week		●	●	–	–	–	●	–	●	●	●
	R.C. prohibition		●	●	●	●	–	●	●	●	●	●
	Cooling/heating priority		●	●	●	●	–	●	●	●	●	●
	Address display		●	●	●	●	–	●	●	●	●	●
	Room temp		●	–	–	–	–	–	–	–	–	–
	Multi language		●	–	–	–	–	–	●	●	●	●
	Summer time		●	–	–	–	–	–	●	●	●	●
	Name registration		●	–	–	–	–	–	●	●	●	●
	Backlight		●	–	●	●	–	–	●	●	–	–
	2D floor layout / 3D building display		–	–	–	–	–	–	–	–	–	●
Timer	Schedule timer	Period	Week	Week	–	–	–	Week	Week	Year	Year	Year
		On/off, Temp, Mode, Times per day	8	4	–	–	–	4	20	20	144	144
	On/off timer		●	●	–	–	●	–	–	–	–	–
	Sleep timer		–	–	–	–	●	–	–	–	–	–
	Program timer		–	–	–	–	●	–	–	–	–	–
	Auto off timer		●	●	–	–	–	–	–	–	–	–
	Day off		●	●	–	–	–	–	●	●	●	●
	Min. unit of timer setting (Minutes)		10 • 30	30	–	–	5	10	10	10	10	10
Control	Status monitoring system		–	–	–	–	–	–	●	●	●	●
	Electricity charge apportionment		–	–	–	–	–	–	–	○	○	●
	Error history		●	●	–	–	–	●	●	●	●	●
	Emergency stop		–	–	–	–	–	–	●*2	●*2	–	–
	Remote management		–	–	–	–	–	–	–	●	○	●
	Energy saving management		–	–	–	–	–	–	–	–	○	○
	E-mail notification for malfunction		–	–	–	–	–	–	–	●	●	●
	Key lock		● Child lock	● Child lock	–	–	–	● Child lock	● Password setting	● Password setting	● Password setting	● Password setting

*1 "Operation mode" setting is not available for this model.
*2 This function is available only through external input control.

●: Supported ○: Optional function
–: Not supported yet

NEW Wired Remote Controller (Touch Panel)

UTY-RNRYZ1

Max. Controllable
16 indoor units

Features

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

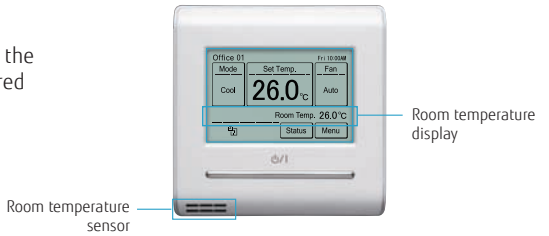
- Easy finger touch operation with LCD panel
- Built-in weekly/Daily timer(ON/OFF,Temp.,Mode)
- Backlight enables easy operation in a darkened room
- Room temperature display
- Control up to 16 indoor units
- Corresponds to 12 different languages (English, Chinese, French, German, Spanish, Russian, Polish,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

High performance and compact size

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

Accurate and comfortable control

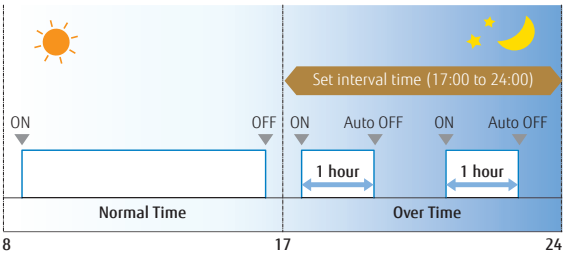
Indoor temperature can be detected accurately by the inclusion of a thermo sensor in the body of the wired controller.



Various energy saving control

Auto OFF timer

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



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

2 schedules Weekly Timer

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

Specifications

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

DC12 V is supplied by the indoor unit.

Wired Remote Controller

UTY-RLRY

Max. Controllable
16 indoor units

Features

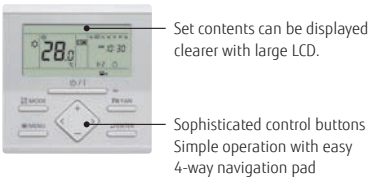
- Various timer setup (ON / OFF / WEEKLY) are possible.
- The room temperature can be controlled by detecting the temperature accurately with Built-in thermo sensor.
- When a failure occurs, the error code is displayed.
- Error history. (Last 16 error codes can be accessed.)
- 2-wire type

High performance and compact size

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

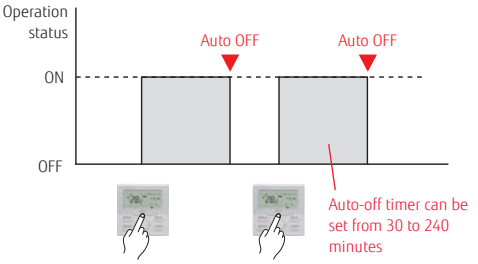
High visibility and easy operation

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



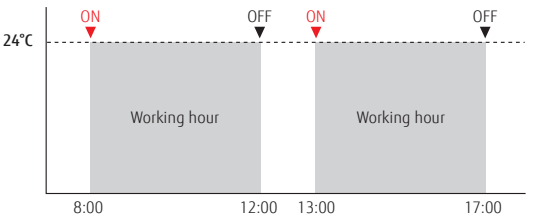
Auto-off timer

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



Weekly timer function

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



4 types (ON, OFF, ON, OFF) can be set on every day of the week in a week.

Various energy saving control

Set Temperature Auto Return

Set Temperature Upper and Lower Limit Setting

Specifications

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

DC12 V is supplied by the indoor unit.

Simple Remote Controller

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

Without operation mode

Features

Compact remote controller provides access to basic functions

- Up to 16 indoor units can be controlled with one remote controller.
- Suitable for hotels or offices as it is easily operated with no complex functions.
- 3-wire type

Max. Controllable
16 indoor units

Easy-to-use operation

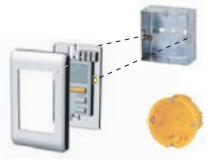
- Provides access to basic operations, such as Start / Stop, Fan control, Operation mode switching, and Room temperature setting.
- A large On / Off button is provided in the centre of the remote controller for easy operation.
- Can be used jointly with other individual control unit.
- Following an error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

Backlight

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

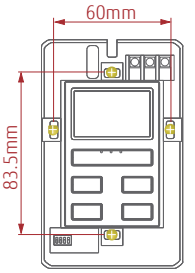
Simple installation

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



European switch box

JIS built-in box



Functions

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

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

Specifications

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

DC12 V is supplied by the indoor unit.

Wireless Remote Controller

UTY-LNHY

Max. Controllable
16 indoor units

Selectable
4 daily timers

Features

Simple and sophisticated operations with a choice of 4 daily timers

• A single controller controls up to 16 indoor units.

Built-in timers

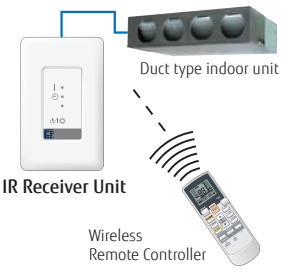
4 timer programs: On / Off / Program / Sleep
Program timer: Operates ON/OFF timer once within 24 hours
Sleep timer: Corrects the set temperature automatically during sleep time

Easy installation and operation

Code selector switch prevents indoor unit mix-up (up to 4 codes)
Wide and precise transmitting range

IR Receiver Unit

UTB-YWC



Features

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

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

IR Receiver Unit

UTY-LRHYB1

Features

Cassette type indoor unit can be controlled with Wireless Remote Controller

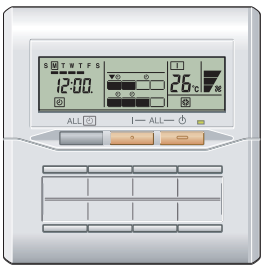
Specifications

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

DC12 V is supplied by the indoor unit.

Group Remote Controller

UTY-CGGY



Features

Group control of indoor units with simple operation

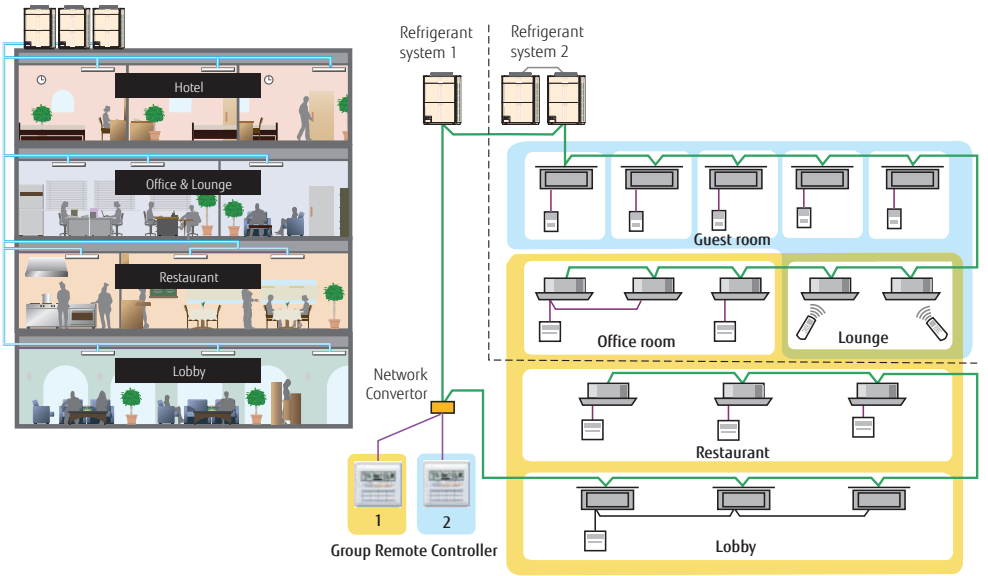
- Up to 8 remote controller groups can be controlled by one Group Remote Controller.
- Up to 64 Group Remote Controllers can be connected in one VRF network system.
- Network Convertor is required to connect Group Remote Controllers to a VRF network system. (Network Convertor allows up to 4 Group Remote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

Max. Controllable
8
remote controller groups

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

Control up to 8 remote controller groups

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



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

Group Remote Controller 2:
To control guest room and launge (7 remote controller groups)

High performance and compact size

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

Built-in weekly timers

The weekly timer is provided as a standard function.

Specifications

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

DC12 V is supplied by the indoor unit.

Central Remote Controller

UTY-DCGY

Max. Controllable
100 indoor units

Max. Controllable
16 groups

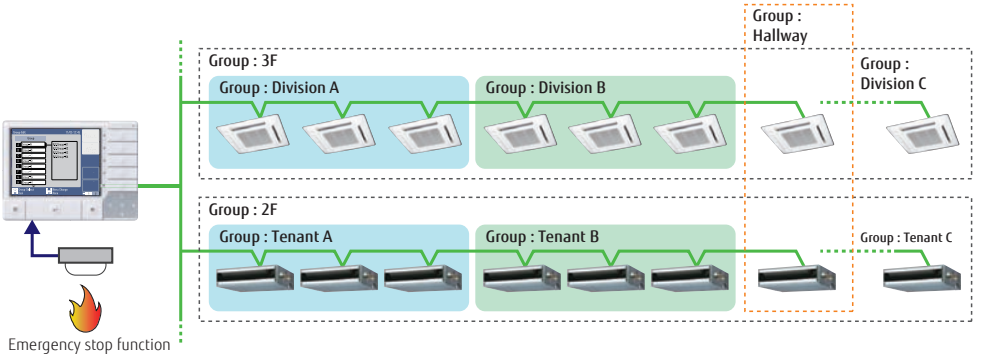
Features

For small- and medium-sized buildings and tenants

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

System overview

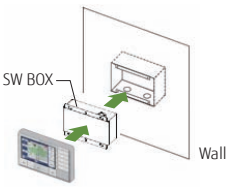
- It allows multiple indoor units grouping (Max.16 groups controlled)
- Interlock with external device



Easy Installation

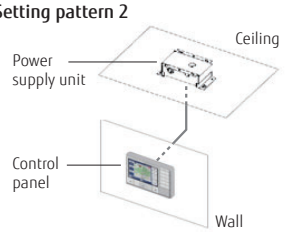
- The control panel and power supply unit can be installed separately.
- For flexibility in installation, the Control panel can be built into the wall or fix on the wall.

Setting pattern 1



Control panel + Power supply unit

Setting pattern 2



Functions

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

Specifications

Model name	UTY-DCGY	
	Control Panel	Power Supply Unit
Power Supply	DC 5 V	100-240 V, 50-60Hz, Single phase
Dimensions (H × W × D) (mm)	120 × 162 × 25.7	99 × 135 × 39.2
Weight (g)	308	355

<PACKING LIST>

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

NEW Touch Panel Controller

UTY-DTGYZ1

Max. Controllable
400 indoor units

Max. Controllable
100 outdoor units

Max. Controllable
400 groups

Features

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

Diverse operation management

Individual control

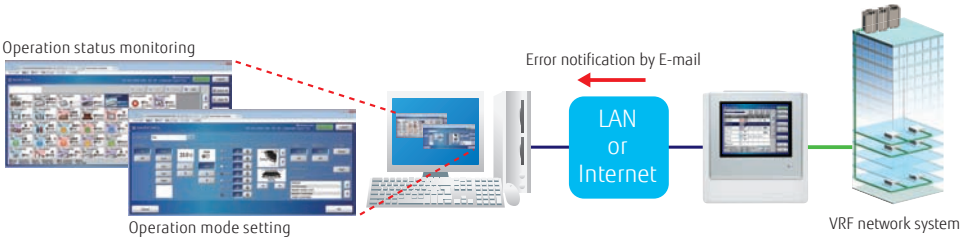
Flexible grouping

Schedule control

Indoor units operation monitoring

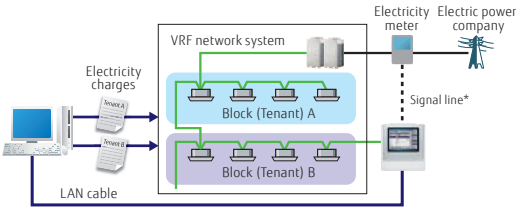
Remote monitoring and operation

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



Electricity charge apportionment (Option: UTY-PTGXA)

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



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

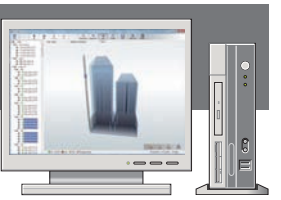
Easy installation

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

Specifications

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

System Controller



UTY-APGX Software

Features

Max. Controllable
4 VRF network systems

Max. Controllable
400 outdoor units

Max. Controllable
1,600 indoor units

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

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

System Controller Lite

UTY-ALGX Software

Features

Max. Controllable
1 VRF network systems

Max. Controllable
100 outdoor units

Max. Controllable
400 indoor units

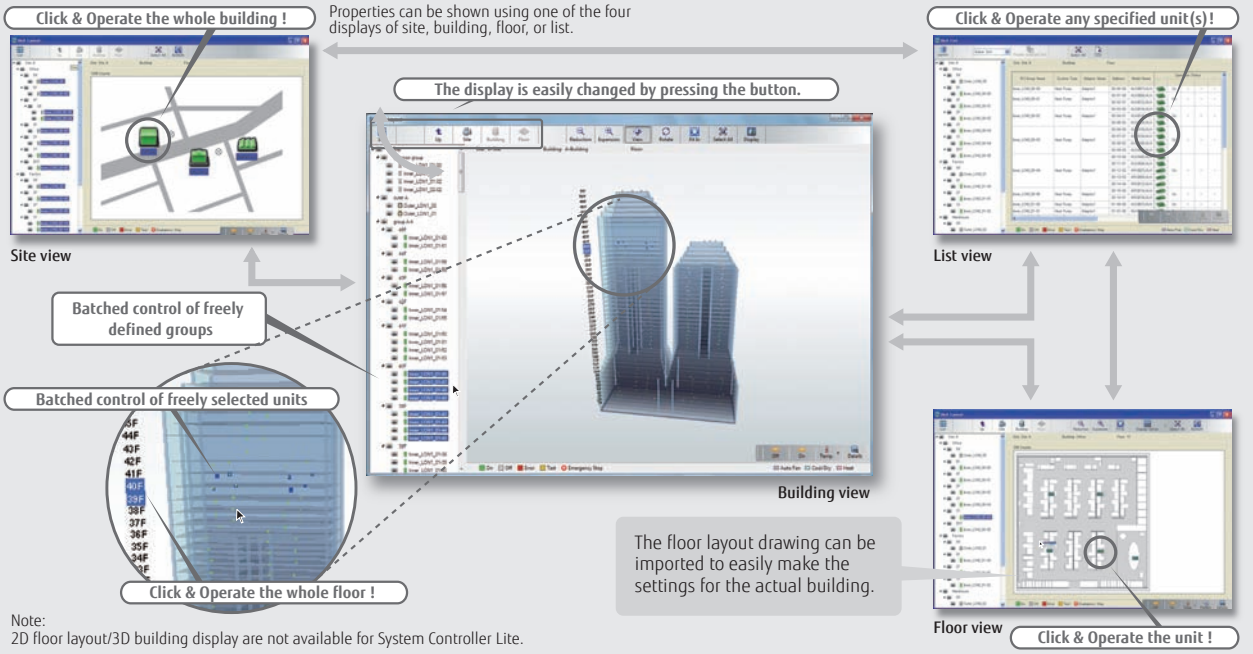
System Controller Lite has standard functions sufficient for air conditioner management in small and medium scale buildings .

- Up to a maximum of 1 VRF network system, 400 indoor units, and 100 outdoor units can be controlled.
- In addition to air conditioning precision control function, a variety of management software is available as an option to give customoers 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.



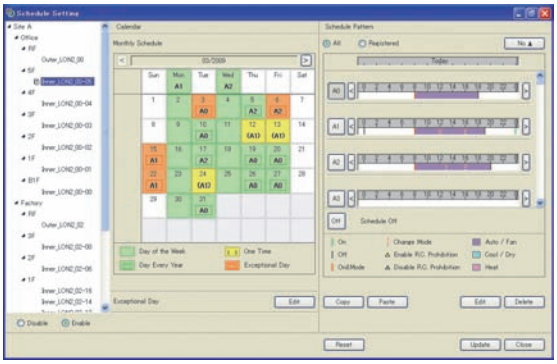
Note:
2D floor layout/3D building display are not available for System Controller Lite.

Diverse operation management & Data management

Standard for System Controller and System Controller Lite

Schedule management

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



Diverse control of indoor unit and outdoor unit

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

Remote controller prohibition

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

Error display & E-mail notification

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

Operating & control record

Displays the history of operation status and control.

Data base import/export

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

Automatic clock adjustment

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

Electricity charge apportionment

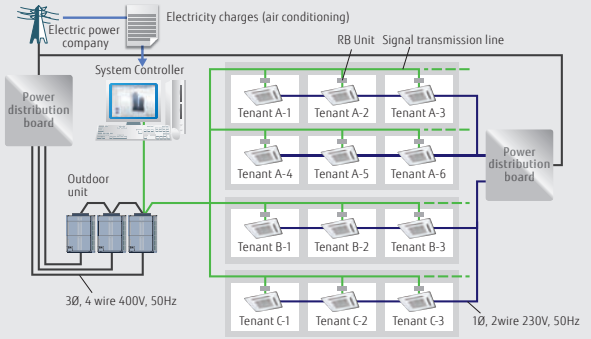
Standard for System Controller

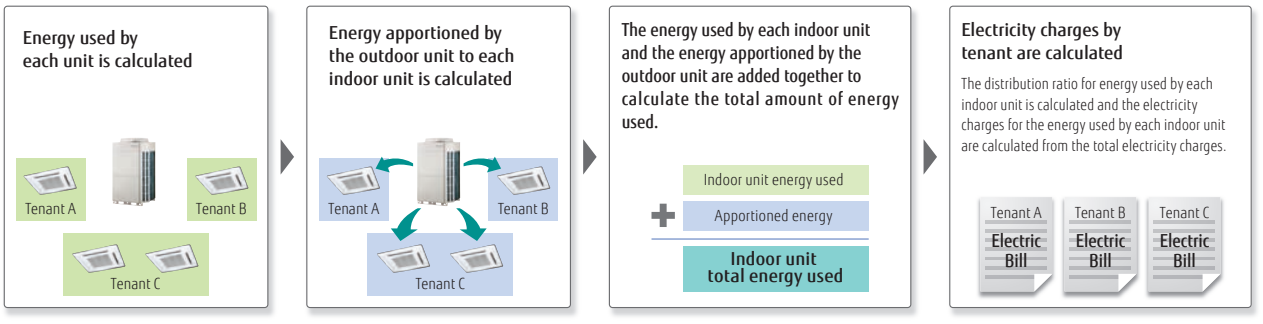
Option for System Controller Lite UTY-PLGXA1

Electricity charge apportionment calculation framework

Suppose you want to find the power consumed by the air conditioners of each tenant from the electricity charge for each month. With electricity charge apportionment function, used energy apportionment ratio will be provided, calculating in detail the energy consumed by the units used by each tenant. This information is then used to calculate the charges for the electricity consumed for air conditioning by each tenant from the total electricity charges in the bill from the electric power company. (See figure at right)
The detailed calculation takes into consideration such things as unused rooms and nighttime electricity charges and shows them in a charges calculation sheet.

System Configuration Example



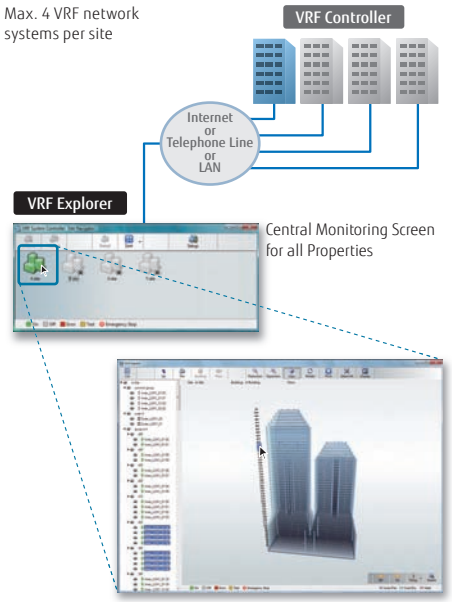


Remote management

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

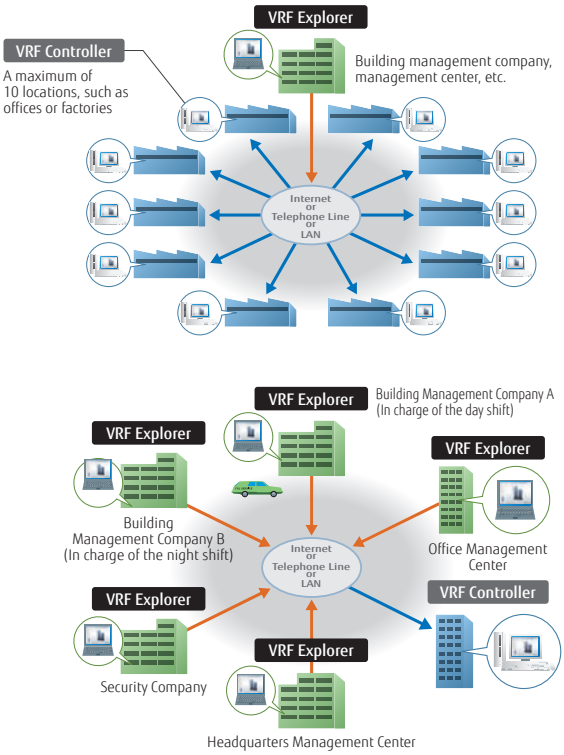
System Controller may be used on site or remotely over various networks for remote central control.
System Controller requires 2 softwares working together. VRF Controller runs on site and communicate with VRF system.
VRF Explorer runs remotely and provides user interface and communicate with the VRF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

On site central control



Special Property Detailed Monitoring Screen

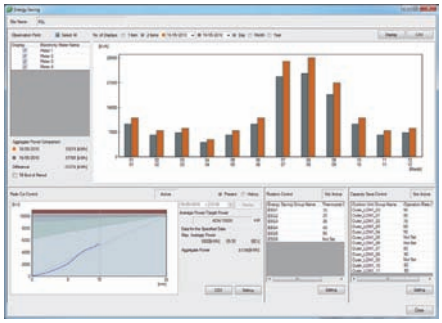
Remote central control



Energy saving management

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

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



Energy Saving Management Main Screen

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

Indoor unit rotation operation

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

Peak cut operation

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

Outdoor unit capacity save

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

FUNCTIONS SUMMARY

Function	Type		System controller					
			UTY-APGX	Option UTY-PEGX	UTY-ALGX	Option UTY-PLGXR1	Option UTY-PLGXA1	Option UTY-PLGXE1
System specification	Max. VRF networks supported		4	-	1	-	-	-
	Max. indoor unit / remote controller groups per VRF network		400	-	400	-	-	-
	Max. outdoor units per System controller		100	-	100	-	-	-
	Max. indoor units / remote controller groups per System controller		1600	-	400	-	-	-
	Max. outdoor units per System controller		400	-	100	-	-	-
Site supervision	Multi site display		10	-	10	-	-	-
	Number of building / 1 site		20	-	-	-	-	-
	Number of floor per 1 site		200	-	-	-	-	-
	Number of floor per 1 building		50	-	-	-	-	-
	3D graphical layout view		○	-	-	-	-	-
	2D graphical layout view		○	-	-	-	-	-
	List display		○	-	○	-	-	-
	Tree display		○	-	○	-	-	-
	Group display		○	-	○	-	-	-
Error management	Error notification		○	-	○	-	-	-
	Audible alarm		○	-	○	-	-	-
	Error e-mail notification		○	-	○	-	-	-
History	Error history		○	-	○	-	-	-
	Operation history		○	-	○	-	-	-
	Control history		○	-	○	-	-	-
Operation control	Individual control	On/Off	○	-	○	-	-	-
		Operation mode	○	-	○	-	-	-
		Room temperature	○	-	○	-	-	-
		Fan speed	○	-	○	-	-	-
		Air flow direction	○	-	○	-	-	-
		Economy mode	○	-	○	-	-	-
		Room temperature set point limitation	○	-	○	-	-	-
		Test operation	○	-	○	-	-	-
		Antifreeze	○	-	○	-	-	-
		Outdoor unit low noise setting	○	-	○	-	-	-
	Individual management	Remote control prohibition setting	○	-	○	-	-	-
		Temperature upper and lower limit setting	○	-	○	-	-	-
		Filter sign reset	○	-	○	-	-	-
	Other	Memory operation	○	-	○	-	-	-
		Pattern operation	○	-	○	-	-	-
Schedule	Annual Schedule		○	-	○	-	-	-
	Special day setting		○	-	○	-	-	-
	On /off per day		72	-	72	-	-	-
	On / off per week		504	-	504	-	-	-
	Day off		○	-	○	-	-	-
	Min. unit of timer setting (Minutes)		10	-	10	-	-	-
	Low noise mode Weekly schedule		○	-	○	-	-	-
Remote managemment	Remote monitoring		○	-	-	○	-	-
	Remote operation control		○	-	-	○	-	-
	Remote function setting		○	-	-	○	-	-
Electricity charge apportionment	Apportionment charge/bill calculation		○	-	-	-	○	-
	Tenant (block) setting		○	-	-	-	○	-
	Common facilities apportionment setting		○	-	-	-	○	-
	Rated power consumption allotment setting		○	-	-	-	○	-
	Individual calculation at cooling and heating		-	○*	-	-	○	-
	Electricity meter supported		-	○	-	-	○	-
Energy saving management	Indoor unit rotation		-	○	-	-	-	○
	Peak cut control		-	○	-	-	-	○
	Outdoor unit capacity save		-	○	-	-	-	○
	Record of energy saving operation		-	○	-	-	-	○
	Energy saving information		-	○	-	-	-	○
	Power consumption monitor		-	○	-	-	-	○
	Electricity meter supported			○				○
Others	Database import/export		○	-	○	-	-	-
	Automatic clock adjustment		○	-	○	-	-	-
	Multi language		7 languages	-	7 languages	-	-	-

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

○: Available. - : Not available.

Personal computer system requirements

	System Controller	System Controller Lite
Operating system	• Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8 (32-bit or 64-bit), Windows® 8 Pro (32-bit or 64-bit) • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish	
CPU	Intel® Core™ i3 2 GHz or higher	
Memory	• 2 GB or more (for Windows Vista® and Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8, Windows® 8.1, and Windows® 10)	
HDD	40 GB or more of free space	
Display	1024 x 768 or higher resolution	
Interface	•Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) •USB ports (Maximum of 6 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 2 USB ports are required for WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB port depends on the applicable system configuration.	•Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) •USB ports (Maximum of 5 ports) (Required only for the Server PC that works as VRF Controller) - Maximum of 4 USB ports are required for WibuKey connection - 1 USB port is required for Echelon® U10 USB Network Interface * The maximum number of required USB port depends on the applicable system configuration.
Graphic accelerator	Microsoft® DirectX® 9.0c compatible	
Software	Adobe® Reader® 9.0 or later	
Optical drive	DVD-ROM drive	

•Personal computer that satisfies the following system requirements
•Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

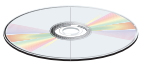
PACKING LIST

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

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

BACnet® Gateway

UTY-ABGX Software



DVD-ROM
(Software)

Software
Protection Key

BACnet is a registered trademark of ASHRAE. ASHRAE does not endorse, approve or test products for compliance with ASHRAE standards. Compliance of listed products to requirements of ASHRAE Standard 135 is the responsibility of the BACnet International. BTL is a registered trademark of the BACnet International.

Max. Controllable
4
VRF network systems

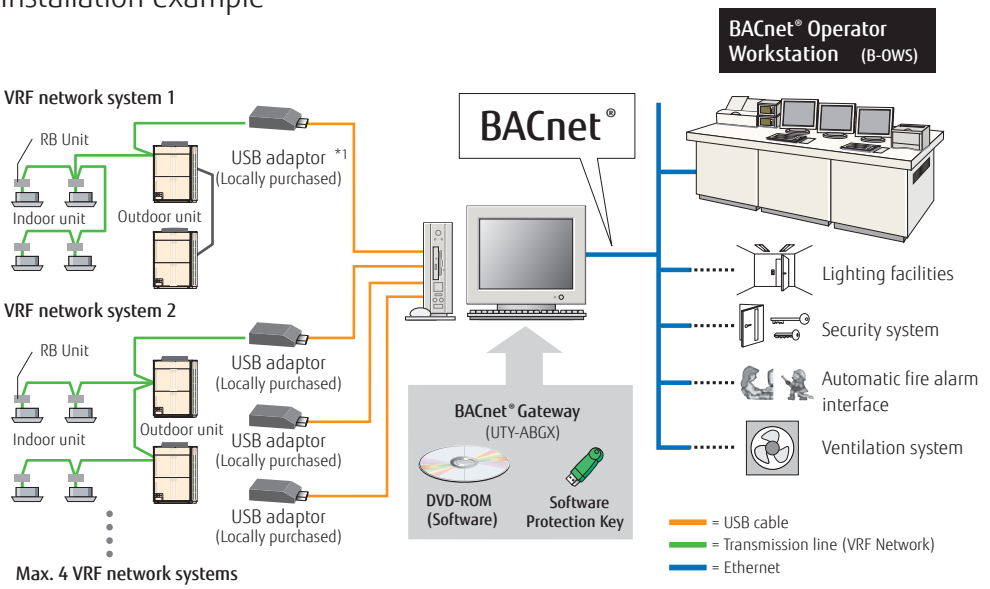
Max. Controllable
400 outdoor units

Max. Controllable
1,600 indoor units

Features

- It is possible to connect medium to large sized BMS to VRF network system via BACnet®, a global standard for open networks.
- A maximum of 1600 indoor units with 4 VRF network systems (a maximum of 400 indoor units & 100 outdoor units for one network system) can be connected to one BACnet® Gateway.
- It is possible to control or monitor VRF network system from BMS via BACnet® Gateway.
- Compatible with BACnet® (ANSI / ASHRAE-135-2004) application specific controller (B-ASC).
- Compatible with BACnet®/IP over Ethernet.
- Scheduling function, Alarm & Event functions as well as Electricity Change Apportionment function are provided in BACnet® Gateway.
- Connection between VRF network system to personal computer is possible via small U10 USB interface. However, both U10 USB interface & personal computer are locally purchased items.
- Corresponds to 7 different languages, English, Chinese, French, German, Spanish, Russian, Polish.

Installation example



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

Personal computer system requirements

	UTY-ABGX
Operating system	• Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • Microsoft® Windows® 7 Home Premium (32-bit or 64-bit) SP1, Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8 (32-bit or 64-bit), Windows® 8 Pro (32-bit or 64-bit) • Microsoft® Windows® 8.1 (32-bit or 64-bit), Windows® 8.1 Pro (32-bit or 64-bit) • Microsoft® Windows® 10 Home (32-bit or 64-bit), Windows® 10 Pro (32-bit or 64-bit) [Supported languages] English, Chinese, French, German, Russian, Spanish, and Polish
CPU	Intel® Core™ i3 2 GHz or higher
Memory	• 2 GB or more (for Windows Vista® and Windows® 7 [32-bit]) • 4 GB or more (for Windows® 7 [64-bit], Windows® 8, Windows® 8.1, and Windows® 10)
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	• Ethernet port (for getting access to the Internet using LAN) • USB ports (Maximum of 5 ports) - 1 USB port is required for WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB ports depends on the applicable system configurations.
Software	Adobe® Reader® 9.0 or later
Optical drive	DVD-ROM drive

<Packing list>

Name and shape	Quantity	Application
DVD-ROM	1	Includes the software and manuals for BACnet® Gateway.
WibuKey (Software protection key)	1	Software protection key to be connected to USB port on the BACnet®-installed PC. BACnet® Gateway runs only on a PC with WibuKey.

•Personal computer that satisfies the following system requirements
•Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

Network Convertor for LONWORKS®

UTY-VLGX

Features

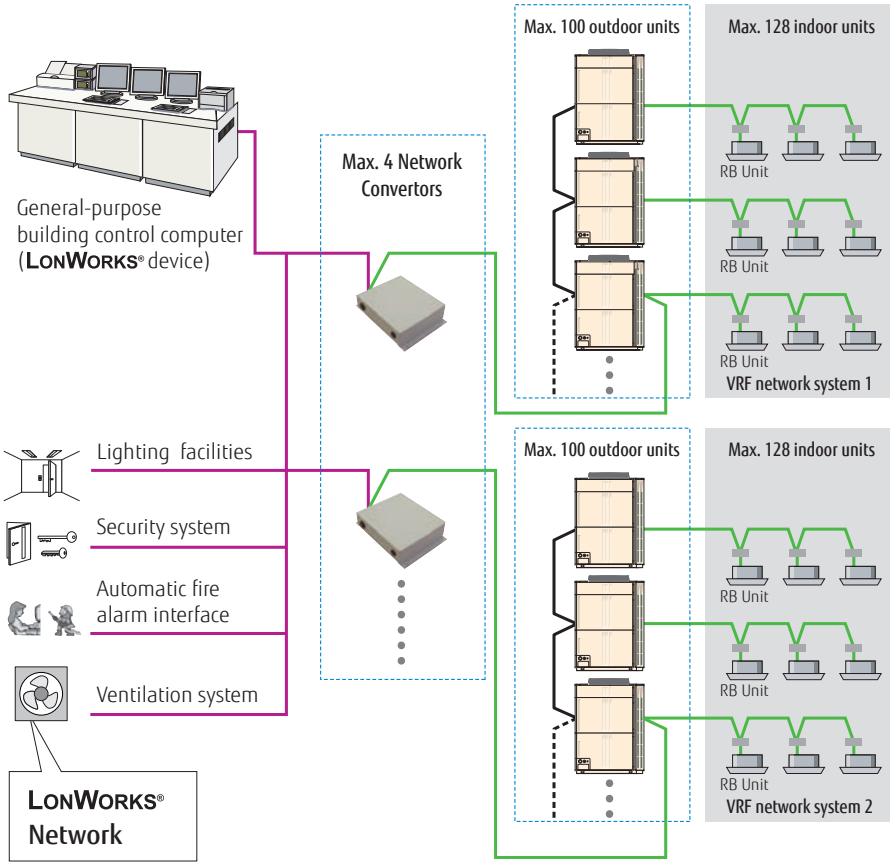
- For connection between VRF network system and a LONWORKS® open network for management of small to medium-sized BMS and VRF network system.
- The UTY-VLGX permits central monitoring and control of a VRF network system from a BMS through a LONWORKS® interface.
- Up to 128 Indoor units can be connected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

Max. Controllable
4 units to BMS

Max. Controllable
100 outdoor units

Max. Controllable
128 indoor units

Installation example



Specifications

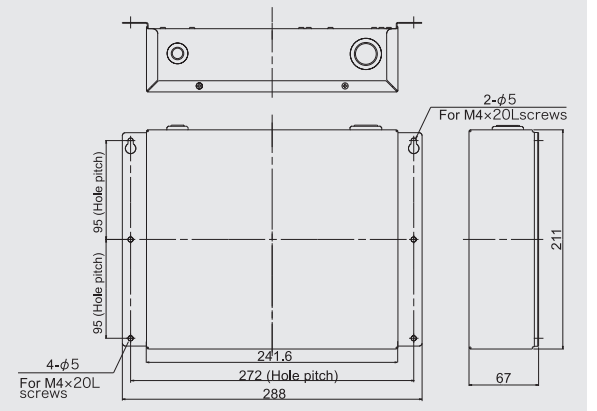
Model name	UTY-VLGX
Power Supply	208-240V 50/60Hz, Single phase
Power Consumption (W)	4.5
Dimensions (H × W × D) (mm)	67 × 288 × 211
Weight (g)	1,500

Transmission specifications (BMS side)

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

Dimensions

(Unit : mm)



NEW MODBUS® Convertor

UTY-VMGX

Max. Controllable
9 units to one VRF

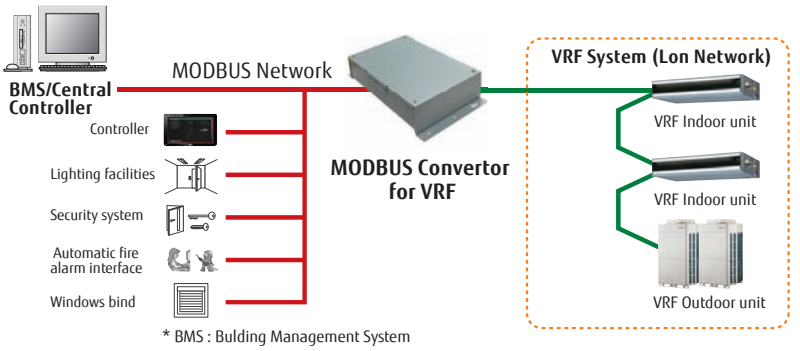
Max. Controllable
100 outdoor units

Selectable
128 indoor units

Features

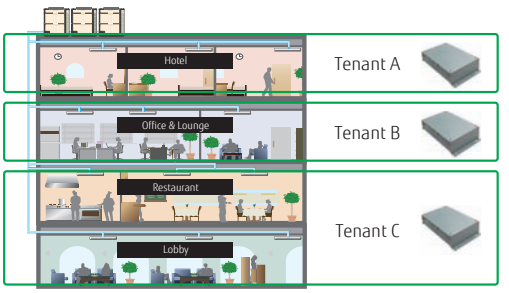
The MODOBUS Convertor allows a complete integration of air conditioners into MODBUS Networks.

- 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.



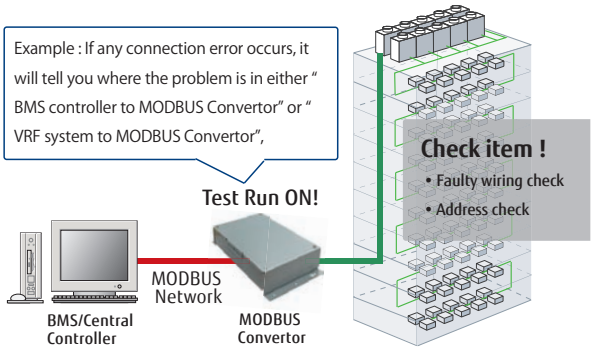
Connectable MAX 9

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



Traceability of sources of connection error

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



Specifications

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

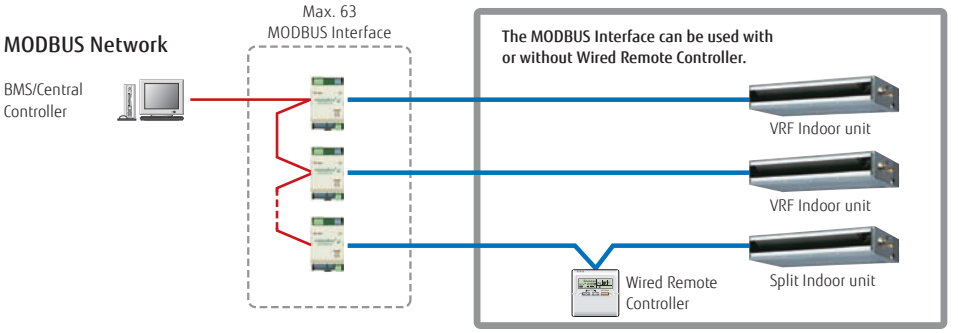
MODBUS® Interface

FJ-RC-MBS-1

Features

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

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



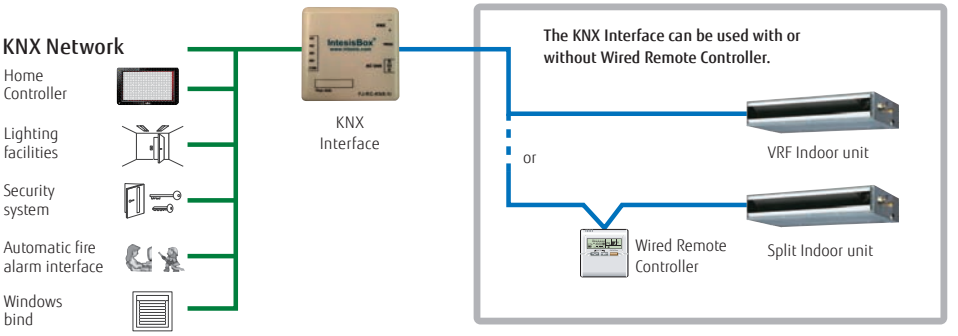
KNX® Interface

FJ-RC-KNX-1i

Features

The KNX Interface allows a complete integration of air conditioners with KNX Network systems.

- Simple installation due to small and compact size.
- No separate external power supply required (just KNX bus power).
- Can be used for single indoor units and group controlled (up to 16) indoor units.



Specifications

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

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

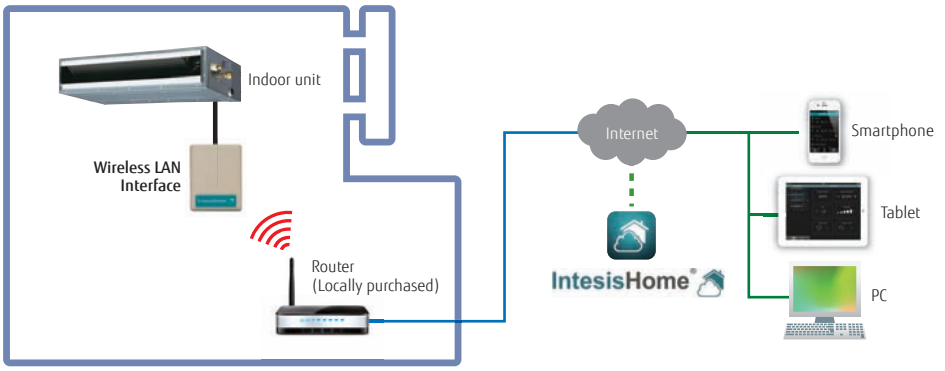
Wireless LAN Interface

FJ-RC-WIFI-1

Features

IntesisHome®

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



Basic control

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

(Application screen image)

Advanced control (Optional functions)

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

Notifications and history

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

Specifications

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

External Switch Controller

UTY-TEKX

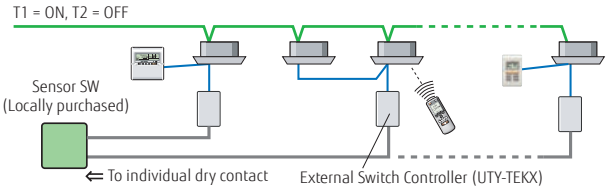
Features

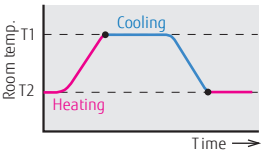
Air conditioner switching can be controlled by connecting other sensor switches

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

Installation example

Auto mode operation, which switches the cooling and the heating automatically, is enabled by using the sensor switch and External Switch Controller.
Note: All indoor units will operate in the same mode.





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

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

Signal Amplifier

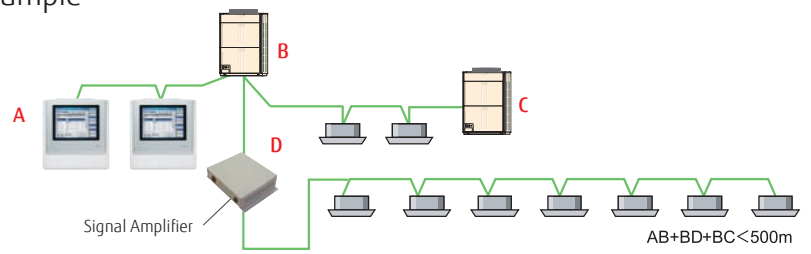
UTY-VSGXZ1

Features

- Transmission Line length can be extended up to 3,600m with multiple Signal Amplifiers.
- Up to 8 signal amplifiers can be installed in a VRF network system.
- A signal amplifier is required,

(1) When the total wiring length of the transnission line exceeds 500m.
(2) When the total number of units on the transnission line exceeds 64.

Installation example



Specifications

Model name	UTY-TEKX
Power Supply	DC 12V
Dimensions (H × W × D) (mm)	120 x 75 x 30
Weight (g)	100

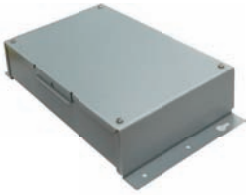
DC12V is supplied by the indoor unit.

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

NEW 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

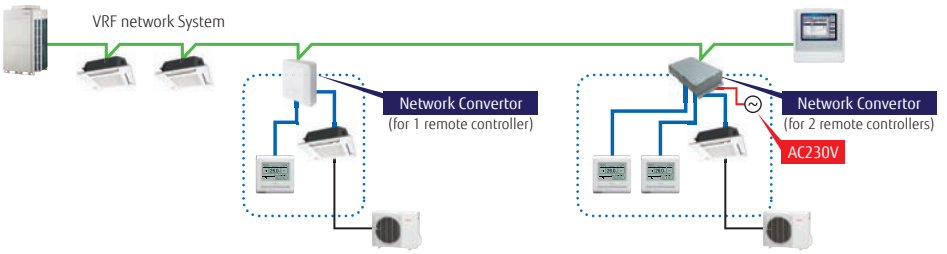
Max. Controllable
100
Network Convertors

Features

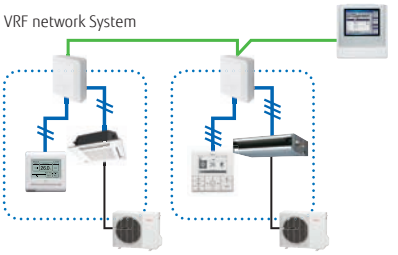
- The network convertors are required when connecting single split system to VRF network system.
- Compact and light weight design
- Connectable to both types of 2-wire and 3-wire remote controllers

Installation example.

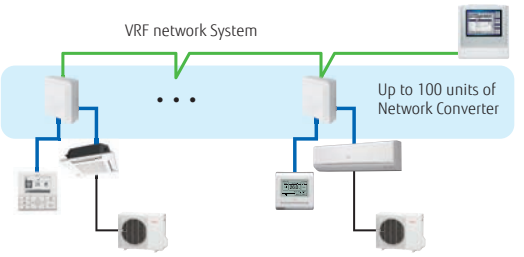
- 2 types of 1 remote controller type and 2 remote controllers type are available.
- Power supply (AC220-240V, 50/60Hz) is required for 2 remote controllers type.



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

Network Convertor for Group Remote Controller

UTY-VGGXZ1

Max. Controllable
16
Network
Convertor units

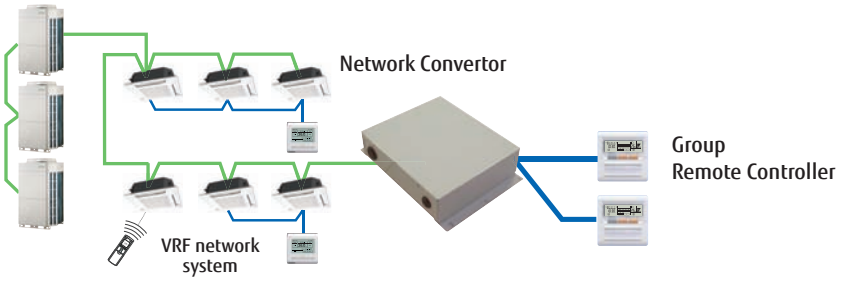
Max. Controllable
4
Group Remote
Controllers

Features

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

Installation example

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



Specifications

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

Service Tool

UTY-ASGX Software

Max. Monitor and controll
100
outdoor units

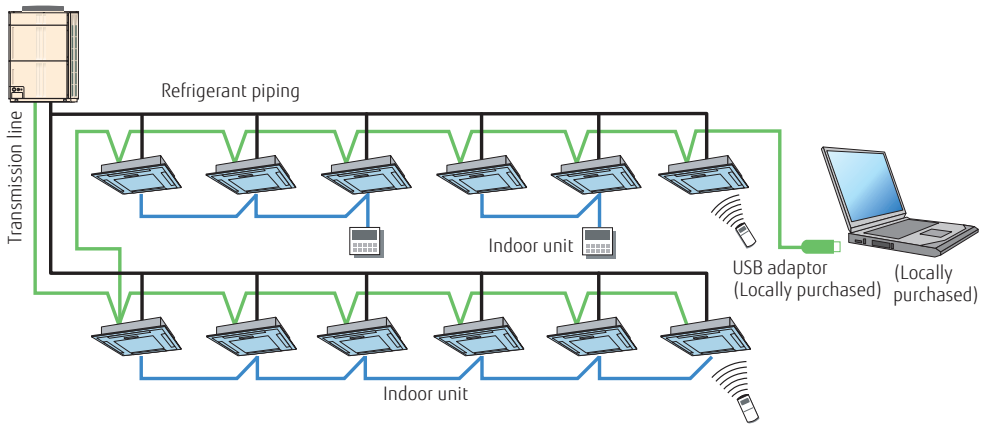
Max. Monitor and controll
400
indoor units

Features

Extensive monitoring and analysis functions for installation and maintenance

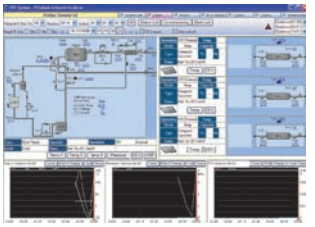
- Operation status can be checked and analyzed to detect even the smallest abnormalities
- Storage of data on system operation status on a PC allows access even from off site.
- Up to 400 indoor units (a single VRF network system) can be controlled and monitored for large scale buildings or hotels
-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

Wiring connection



Functions

•Equipment Detail (Diagram)



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

Personal computer system requirements

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

<Packing list>

Name and shape	Quantity	Application
DVD-ROM	1	Includes the software and manuals
WibuKey (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products runs only on a PC with WibuKey.

•Personal computer that satisfies the following system requirements
•Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.)

Web Monitoring Tool

UTY-AMGX Software

VRF network system can be supported
4

Max. Monitor and controll
400
outdoor units

1,600
indoor units
can be supported

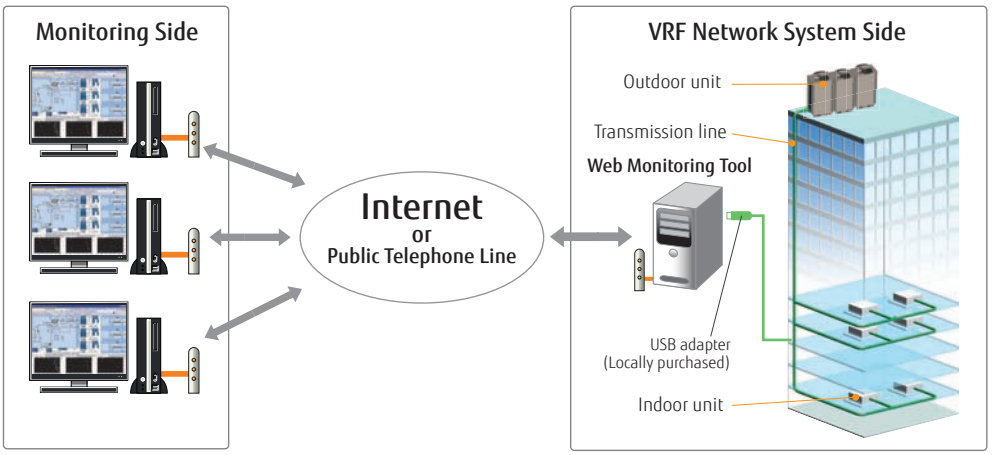
Features

Product features

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

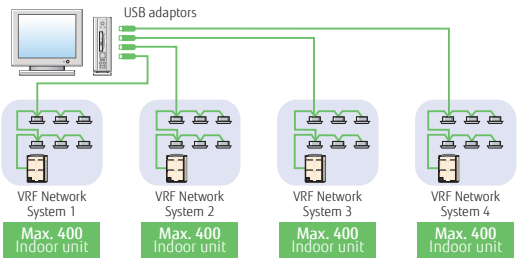
*1: Use of internet mail system required.

Web Monitoring System



Support 4 VRF network systems

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



Personal computer system requirements

	UTY-AMGX
Operating system	• Microsoft® Windows Vista® Home Premium (32-bit) SP2, Windows Vista® Business (32-bit) SP2 • Microsoft® Windows® 7 Professional (32-bit or 64-bit) SP1 • Microsoft® Windows® 8 Pro (32-bit or 64-bit) • Microsoft® Windows® 8.1 Pro (32-bit or 64-bit)
CPU	1 GHz or higher
Memory	• 1 GB or more (for Windows Vista®, Windows® 7 [32-bit], Windows® 8 [32-bit], and Windows® 8.1 [32-bit]) • 2 GB or more (for Windows® 7 [64-bit], Windows® 8 [64-bit], and Windows® 8.1 [64-bit])
HDD	40 GB or more of free space
Display	1024 x 768 or higher resolution
Interface	• Ethernet port (for getting access to the Internet using LAN) or Modem (for getting access to the Internet using Public Telephone Line) • USB ports (Maximum of 5 ports) - 1 USB port is required for WibuKey connection - Maximum of 4 USB ports are required for Echelon® U10 USB Network Interface * Maximum number of required USB ports depends on the applicable system configurations.
Software	Internet Explorer® 8, 9, 10 or 11 / Adobe® Reader® 9.0 or later
Optical drive	DVD-ROM drive

<Packing list>

Name and shape	Quantity	Application
DVD-ROM	1	Includes the software and manuals
WibuKey (Software protection key)	1	Software protection key to be connected to USB port on the Service Tool-installed PC. These products runs only on a PC with WibuKey.

•Personal computer that satisfies the following system requirements
•Echelon® U10 USB Network Interface – TP/FT-10 Channel (Model number: 75010R) (Required for each VRF Network.))