

New Products Release !

VRF System

Available from
Jan 2015

ALL Inverter



- 8HP** AJY072LALBH
- 10HP** AJY090LALBH

- 12HP** AJY108LALBH
- 14HP** AJY126LALBH
- 16HP** AJY144LALBH
- 18HP** AJY162LALBH

Outdoor unit lineup

Wide capacity range of system up to 54 HP with 3 newly added 18HP outdoor unit combination.

Capacity (kW)	22.4	28.0	33.5	40.0	45.0	50.0	56.0	62.4	68.0	73.0	78.0	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
HP	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54
SPACE SAVING COMBINATION	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
ENERGY EFFICIENCY COMBINATION					●	●	●		●	●	●	●	●	●	●	●	●	●	●	●				



Indoor unit connectable



Up to 64

Max connectable



54 HP

Feature

Excellent Efficiency

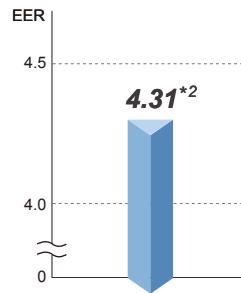
Industrial top class performance is realized including seasonal efficiency by adopting highly efficient DC twin Rotary Inverter compressor and DC fan motor.

* "EER / COP" is the coefficient of performance [= capacity (kW) ÷ input power (kW)].

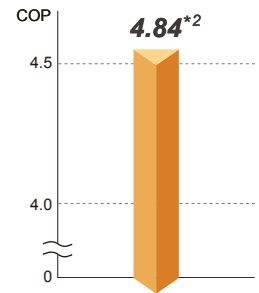
* EER / COP values are based on our own testing method.

*2. The data refers to an 8HP outdoor unit.

Cooling



Heating



Feature

Energy saving technology that boosted operation efficiency

ALL DC



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.



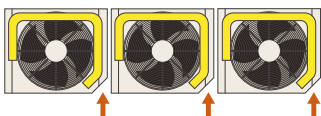
High efficient & Large capacity DC inverter compressor

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



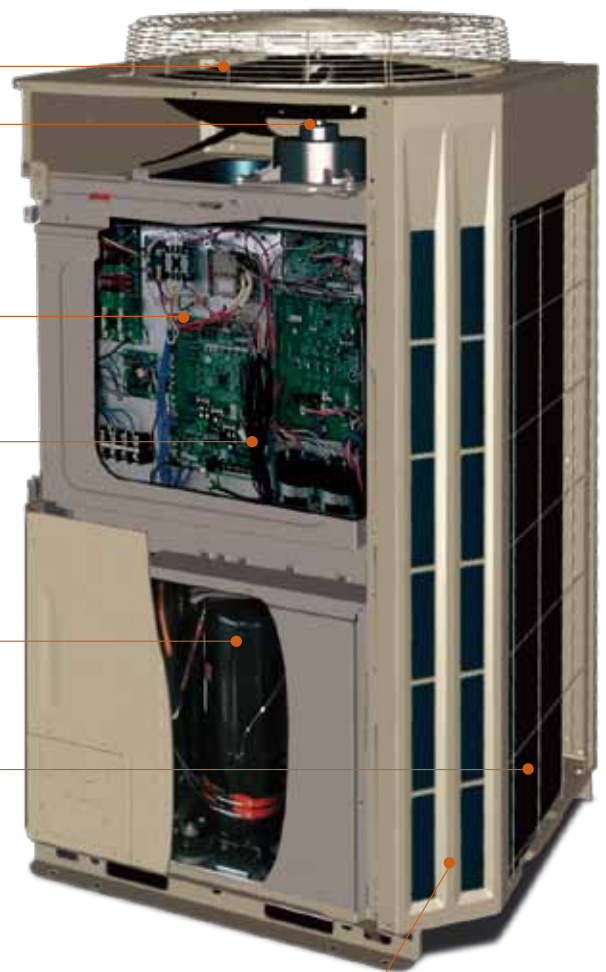
4-face heat exchanger

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.

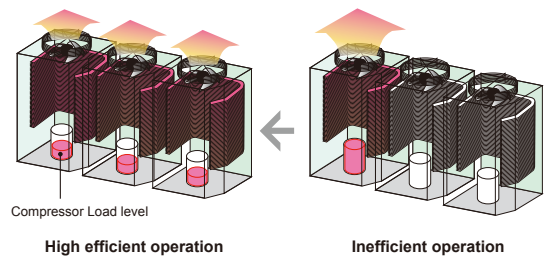


Feature

Advanced energy saving control

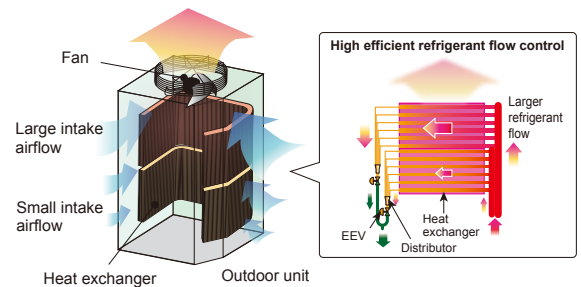
Multiple outdoor operation control

When multiple outdoor units are connected a sophisticated operation is performed by each compressor. Rather than running one compressor at full load and distributing refrigerant to one heat exchanger, this control method operates all compressors at part load and distributes refrigerant to all of the heat exchangers which allows for the overall system efficiency to be improved.



Ideal heat exchanger path control

The heat exchanger in the outdoor unit is split into two parts (Top and Bottom). The efficiency of the heat exchanger has been improved by adopting an optimum refrigerant path control where the refrigerant is distributed more into the top heat exchanger as this is where there is a greater air flow intake.



Feature

More design flexibility

Extended long piping run

Actual pipe length

165m

Pipe length from first separation tube to the farthest indoor unit

90m^{*1} max.

Total pipe length
1,000m max.

Height difference between outdoor and indoor units
50m max.

For the outdoor unit stated below : 40m max. (Outdoor temp. $\geq -5^{\circ}\text{C}$)
5m max. (Outdoor temp. $< -5^{\circ}\text{C}$)

Height difference between indoor and indoor units
15m max.

High external static pressure up to 82Pa

Powerful discharge air prevents a short-circuit.



82Pa

High capacity connection

Connectable indoor unit number
up to 64

Connectable indoor unit number
up to 150%^{*2}



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

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

Feature

Various indoor units line-up

Conventional indoor unit can be connected continuously.
New cassette 3 models are added and you can select from the wide lineup of total 12 types and 58 models.

Large airflow model added



Line-up

Indoor unit :12types,58 models,capacity range from1.1kW to 25.0kW

Capacity range (kW)	4	7	9	12	14	18	24	30	34	36	45	54	60	72	90
Model code	1.1	2.2	2.8	3.6	4.5	5.6	7.1	9.0	10.0	11.2	12.5	14.0	18.0	22.4	25.0
Compact Cassette	AUXB04/07/09/12/14/18/24GALH	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Cassette	AUXD18/24GALH					●	●								
	AUXA18/24/30/34/36/45/54GALH					NEW	NEW	●	NEW	●	●	●			
Low Static Pressure Duct	ARXB07/09/12/14/18GALH		●	●	●	●	●	●	●	●	●	●	●	●	●
Slim Duct (Drain pump internal)	ARXD04/07/09/12/14/18/24GALH	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Medium Static Pressure Duct	ARXA24/30/34/36/45GBLH							●	●						
High Static Pressure Duct	ARXC36GBTH, ARXC45/60GATH									NEW	●	●	●	●	●
	ARXC72/90GBTH													NEW	NEW
Floor (Same as Ceiling models)	ABYA12/14/18/24GATH				●	●	●	●	●	●	●	●	●	●	●
Concealed Floor (Same as Low Static pressure Duct models)	ARXB07/09/12/14/18GALH		●	●	●	●	●	●	●	●	●	●	●	●	●
Slim Concealed Floor (Same as Slim Duct models)	ARXD04/07/09/12/14/18/24GALH	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Ceiling	ABYA12/14/18/24GATH				●	●	●	●	●	●	●	●	●	●	●
	ABYA30/36/45/54GATH							●		●	●	●	●	●	●
Wall Mounted	ASYA04/07/09/12/14GACH	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	ASYA18/24/30GACH					●	●	●	●	●	●	●	●	●	●
Wall Mounted (EEV external)	ASYE04/07/09/12/14GACH	●*	●*	●*	●*	●*	●*	●*	●*	●*	●*	●*	●*	●*	●*

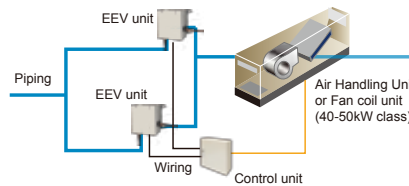
* With this model, connection of EV kit is necessary.

DX-Kit

Connectable capacity class (kW)	5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0
EEV unit	UTP-VX30A				UTP-VX60A		UTP-VX90A		UTP-VX90A×2	
Control unit	UTY-VDGX									

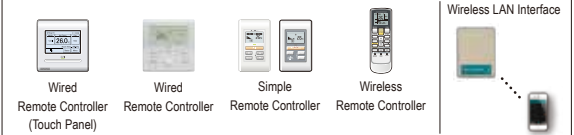
Supports a wide range of capacity classes

- Connectable capacity range: 5 kW to 50 kW
- 2 EEV units can be connected in parallel and up to 20 HP (50 kW) large capacity units. (Separation Tube of UTP-LX180A is required.)
- Controllable via FGL's controller or external DC0-10V signal input

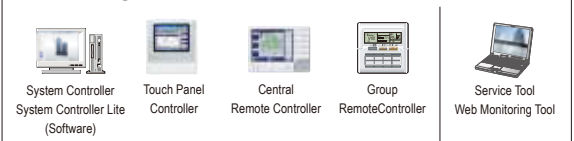


Various User friendly controller

Individual controller



Central management Controller



Specification

Rating Capacity range	HP	8	10	12	14	16	18
Model name		AJY072LALBH	AJY090LALBH	AJY108LALBH	AJY126LALBH	AJY144LALBH	AJY162LALBH
Power source		3 Phase ~ 400V, 50Hz					
Capacity	Cooling	22.4	28.0	33.5	40.0	45.0	50.0
	Heating	25.0	31.5	37.5	45.0	50.0	50.0
Input power	Cooling	5.20	7.28	8.96	10.96	13.01	16.56
	Heating	5.17	7.25	8.65	11.17	13.63	13.63
EER	Cooling	4.31	3.85	3.74	3.65	3.46	3.02
COP	Heating	4.84	4.35	4.34	4.03	3.67	3.67
	Heating	5.8	5.8	5.7	6.0	6.2	6.3
Sound pressure level	Cooling	56	58	60	62	64	64
	Heating	58	59	60	62	64	64
Maximum external static pressure	Pa	82	82	82	82	82	82
Dimensions	Height	1,690	1,690	1,690	1,690	1,690	1,690
	Width	930	930	1,240	1,240	1,240	1,240
	Depth	765	765	765	765	765	765
Weight	kg	252	252	275	275	275	275
Operation range	Cooling	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46	-15 to 46
	Heating	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21



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