

# HEAT PUMP TYPE

## AIRSTAGE™ J-III series

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

### System Outline

#### High Energy Efficiency

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

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

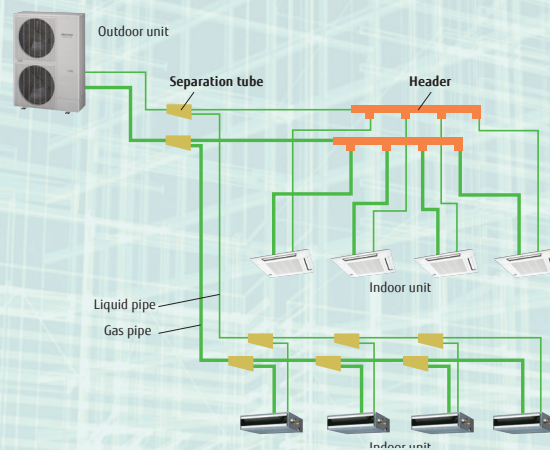
Space saving design and long piping design allow for flexible installation on the roofs or balconies of small- and medium-size buildings. Multiple indoor units of various capacities and types can be connected.

#### Small Office



#### System configuration example

- This system is used for small and medium-sized buildings. 1 refrigerant system is used for each outdoor unit.
- Connection of multiple indoor units using separation tubes and headers.



# Features

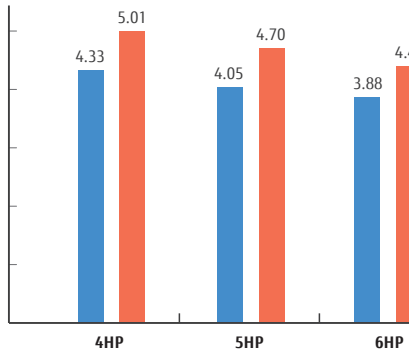
## Efficiency in actual operation

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

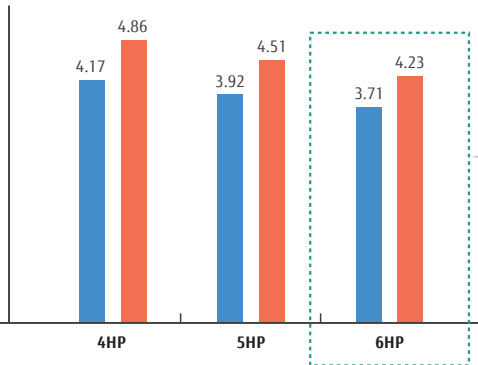
### High EER / COP

■ EER / ■ COP

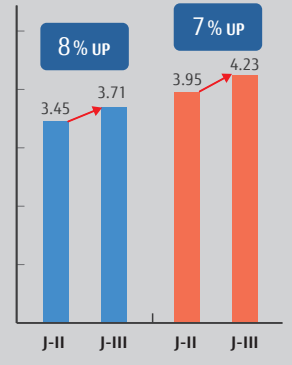
[3-phase]



[Single phase]



6HP class



## Advanced high efficiency technology



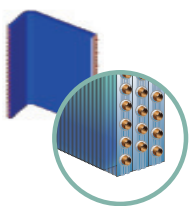
### Large propeller fan

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



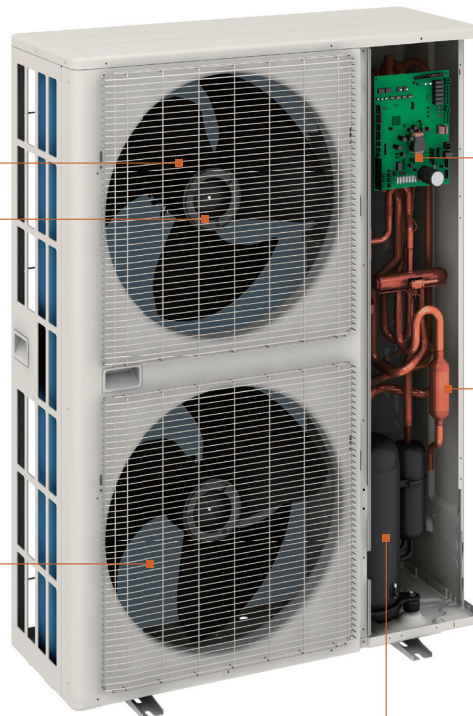
### DC fan motor

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.



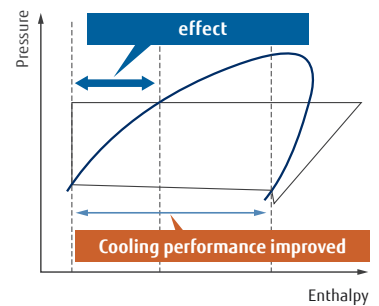
### DC inverter control

Efficiency is improved by mounting of new active filter module.



### Subcool heat exchanger

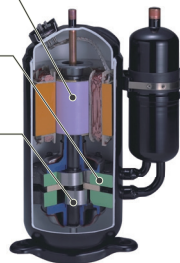
Cooling performance is improved by mounting of dual tube heat exchanger.



High efficiency compressor motor

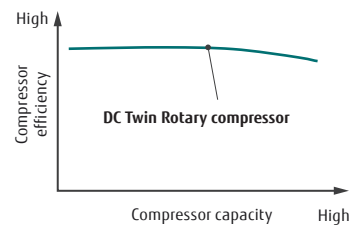
Optimized refrigerant flow design

Highly accurate parts



### DC twin rotary compressor

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



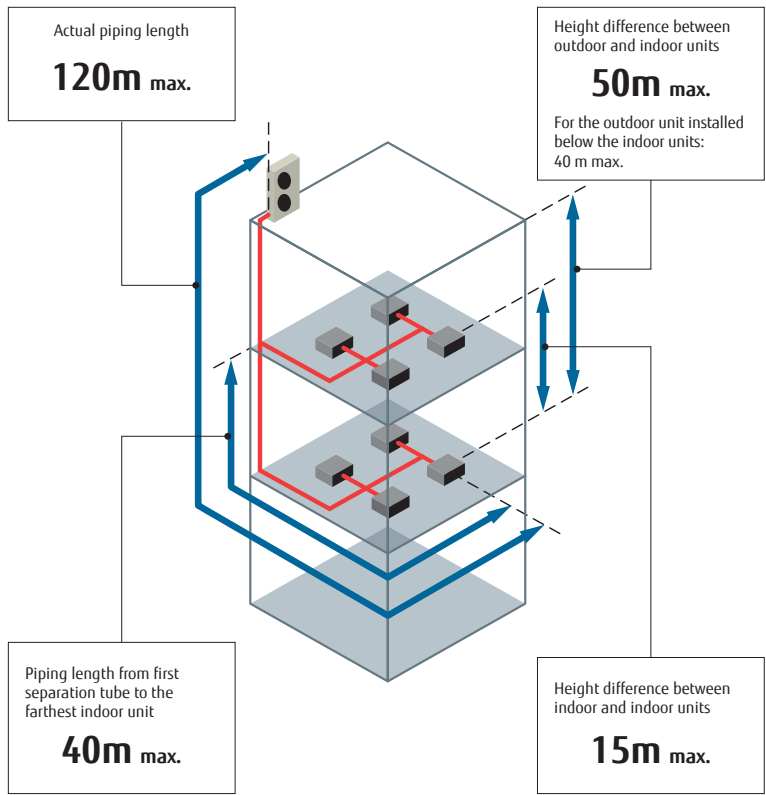
# Features

## Long piping capability

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

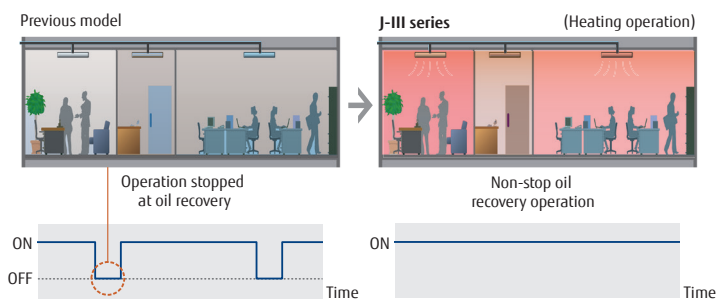


Total pipe length  
**180m max.**



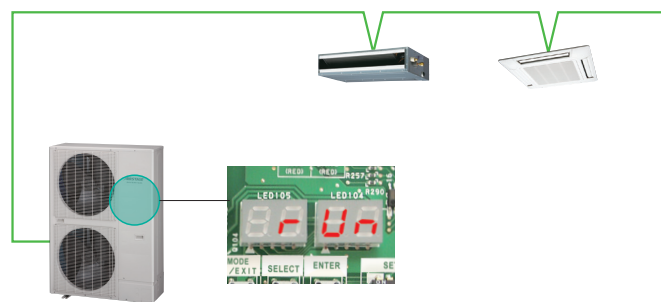
## Non-stop oil recovery operation

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

## Specifications

Rating Capacity range		HP	4	5	6	4	5	6	4	5	6
Model name			AJY040LBLAH	AJY045LBLAH	AJY054LBLAH	AJA040LBLAH	AJA045LBLAH	AJA054LBLAH	AJY040LELAH	AJY045LELAH	AJY054LELAH
Maximum Connectable Indoor Unit			1-9	1-10	1-13	1-9	1-10	1-13	1-9	1-10	1-13
Power source			Single-phase, ~230V, 50Hz			Single-phase, ~230V, 50Hz			3-phase, ~400V, 50Hz		
Capacity	Cooling	kW	12.1	14.0	15.5	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	13.6	16.0	18.0
Input power	Cooling	kW	2.90	3.57	4.18	3.40	4.00	4.40	2.79	3.46	3.99
	Heating		2.80	3.55	4.26	3.70	4.60	5.15	2.71	3.40	4.08
EER	Cooling	W/W	4.17	3.92	3.71	3.56	3.50	3.52	4.33	4.05	3.88
COP	Heating		4.86	4.51	4.23	3.68	3.48	3.50	5.01	4.70	4.41
Air flow rate		m <sup>3</sup> /h	6,200	6,400	6,900	6,200	6,400	6,900	6,200	6,400	6,900
Sound pressure level / Power level	Cooling	dB (A)	50 / 66	51 / 67	53 / 69	50 / 66	51 / 67	53 / 69	50 / 66	51 / 67	53 / 69
	Heating		52 / 68	53 / 69	55 / 71	52 / 68	53 / 69	55 / 71	52 / 68	53 / 69	55 / 71
Heat exchanger fin			Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	1,334	1,334	1,334	1,334	1,334	1,334	1,334	1,334	1,334
	Width		970	970	970	970	970	970	970	970	970
	Depth		370	370	370	370	370	370	370	370	370
Weight		kg	117	117	119	117	117	117	118	119	119
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410 (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO <sub>2</sub> eq-T)	4.8 (10.0)	5.3 (11.1)	5.3 (11.1)	4.8 (10.0)	5.3 (11.1)	4.8 (10.0)	4.8 (10.0)	5.3 (11.1)	5.3 (11.1)
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Gas		15.88	15.88	19.05	15.88	15.88	15.88	15.88	15.88	19.05
Total pipe length		m	180	180	180	180	180	180	180	180	180
Max. Height difference			50/40 (Outdoor unit: Upper/Lower)			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	-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

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

**Models :** AJY040LBLAH / AJY045LBLAH / AJY054LBLAH / AJA040LBLAH / AJA045LBLAH / AJA054LBLAH / AJY040LELAH / AJY045LELAH / AJY054LELAH

(Unit : mm)

