

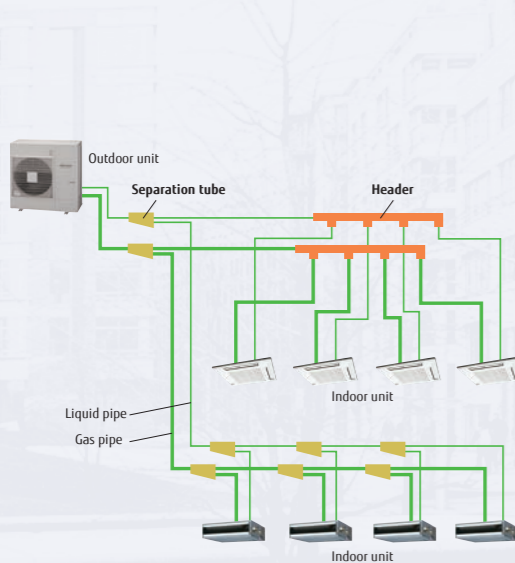
Heat Pump

for Small Capacity Type



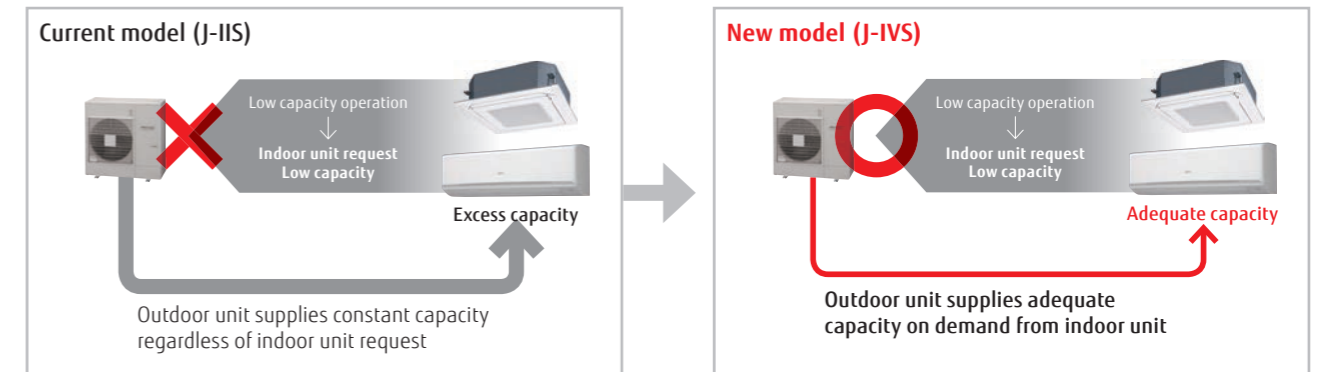
System configuration example

- 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.



New intelligent refrigerant control

Fujitsu general proposes New outdoor unit which includes New refrigerant control. New refrigerant control can be operated with suitable control corresponding to heat load of the room and can offer a more comfortable space. New refrigerant control can also provide more energy savings.




* The improvement by the control and the actual sine wave varies by the combination of the indoor unit and system operating condition.

External static pressure


External static pressure is available up to 25Pa for 4/5/6HP.



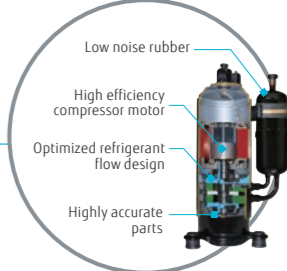
Advanced high efficiency technology



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

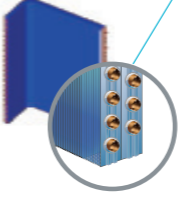


DC fan motor
Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.




DC inverter control
Efficiency is improved by mounting of new active filter module.

- Low noise rubber
- High efficiency compressor motor
- Optimized refrigerant flow design
- Highly accurate parts



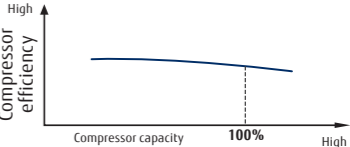
Large heat exchanger
Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.

High heat transfer copper tube (Improved lead angle)



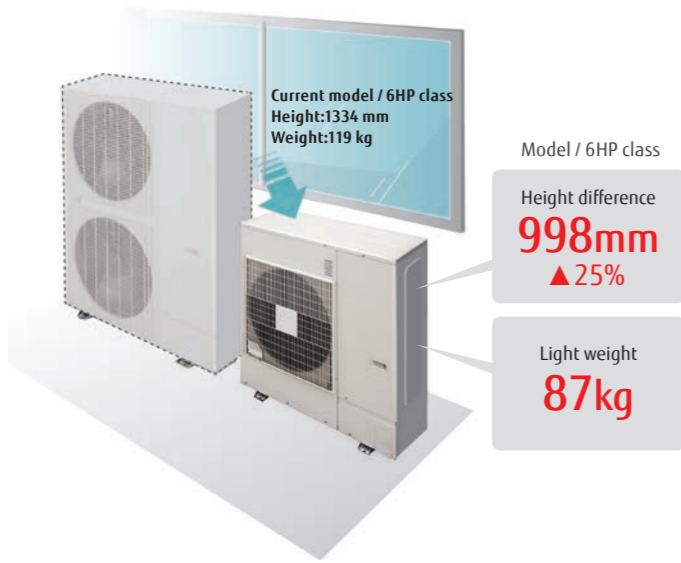
Smooth airflow grille
This grille was aerodynamically designed for good efficiency with little blow loss.

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.



Compressor efficiency vs Compressor capacity (100%)

It Can be Easily Carried and Installed



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



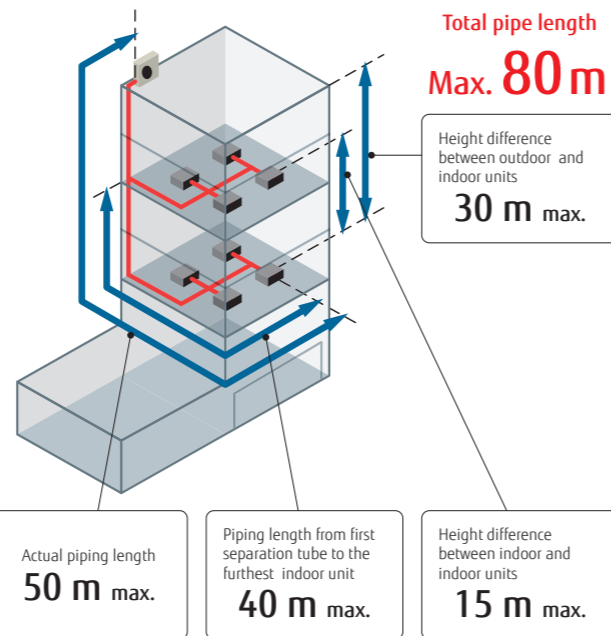
Low sound level design

Significantly low sound level is improved by using DC twin rotary compressor, inverter technology, and advanced airflow structure design.



Long piping length

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



Up to 13 units* can be connected

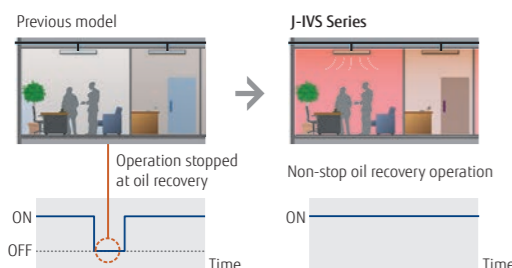
The combination of the smallest but adequate capacity indoor unit and a new outdoor unit with the optimum heat exchanger structure has realized the industry's top class connection of 13 units.

*: 6 HP model

| Model | Current model (J-IIS) | | | New model (J-IVS) | | |
|------------------------------|-----------------------|-----|-----|-------------------|------|------|
| | 4 | 5 | 6 | 4 | 5 | 6 |
| Rating Capacity range (HP) | 4 | 5 | 6 | 4 | 5 | 6 |
| Max. Connectable indoor unit | 1-7 | 1-8 | 1-8 | 1-11 | 1-12 | 1-13 |

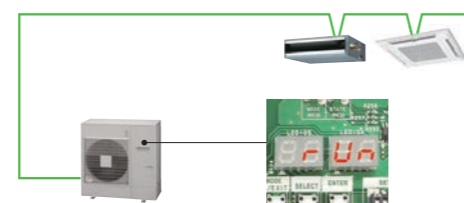
Non-stop oil recovery operation

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 |
|------------------------------------|---------------------------------|---------------------------|---------------|---------------|
| Model name | | AJY040LCLBH | AJY045LCLBH | AJY054LCLBH |
| Maximum Connectable Indoor Unit | | 1-11 | 1-12 | 1-13 |
| Power source | | Single phase, ~230V, 50Hz | | |
| Capacity | Cooling | 12.1 | 14.0 | 15.1 |
| | Nominal Heating | 12.1 | 14.0 | 15.1 |
| | Max Heating | 13.6 | 16.0 | 16.5 |
| Input power | Cooling | 3.44 | 4.43 | 5.03 |
| | Nominal Heating | 2.55 | 3.11 | 3.52 |
| | Max Heating | 3.27 | 3.93 | 4.11 |
| EER | Cooling | 3.52 | 3.16 | 3.00 |
| | Nominal Heating | 4.74 | 4.51 | 4.30 |
| | Max Heating | 4.16 | 4.07 | 4.01 |
| COP | Cooling | 3.52 | 3.16 | 3.00 |
| | Nominal Heating | 4.74 | 4.51 | 4.30 |
| | Max Heating | 4.16 | 4.07 | 4.01 |
| Airflow rate | | 4,040 | 4,200 | 4,200 |
| Sound pressure level / Power level | Cooling | 51 / 67 | 53 / 69 | 54 / 70 |
| | Heating | 54 / 68 | 56 / 69 | 56 / 70 |
| Heat exchanger fin | | Blue fin | Blue fin | Blue fin |
| Net Dimensions | Height | 998 | 998 | 998 |
| | Width | 970 | 970 | 970 |
| | Depth | 370 | 370 | 370 |
| Weight | | 86 | 86 | 87 |
| | | kg | | |
| Refrigerant | Type (Global Warming Potential) | R410A (2,088) | R410A (2,088) | R410A (2,088) |
| | Charge | kg(CO ₂ eq-T) | 4.0 (8.4) | 4.0 (8.4) |
| Connection pipe diameter | Liquid | 9.52 | 9.52 | 9.52 |
| | Gas | 15.88 | 15.88 | 15.88 |
| Total pipe length | | 80 | 80 | 80 |
| | | m | | |
| Max. height difference | | 30 | 30 | 30 |
| | | m | | |
| Operation range | Cooling | -5 to 46 | -5 to 46 | -5 to 46 |
| | Heating | -20 to 21 | -20 to 21 | -20 to 21 |

Note: Specifications are based on the following conditions.

Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.

Heating : Indoor temperature of 20°CDB / (15°CWB), and outdoor temperature of 7°CDB / 6°CWB.

Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

The protective function may work when using it outside the operation range.

Dimensions

(Unit : mm)

