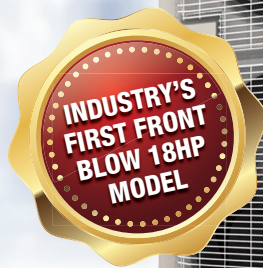


New
AIRSTAGE™ J-III L
VRF system for medium-sized buildings



BLEND INTO THE CITY
for **COMMERCIAL**



AIRSTAGE™ J-III L

Compact Design For Light Commercial

General's New VRF system is suitable for use in offices, hotels and stores with limited spaces located in the hub of the city.

The outdoor units with six different capacities focus on low noise level and compactness. Indoor units can be connected in a flexible manner.

The high number of connectable indoor units fulfill the requirement of applications in small compact rooms.



Benefit Points

1. Compact and quiet design

It is best suited for the units to be installed in the environment with space constraint such as machine room and rooftop.

2. Flexible installation

Though the compact outdoor unit's capacity has increased from 8HP to 18HP, it will not affect the appearance of the building after the installation due to its compactness.

3. Small room application

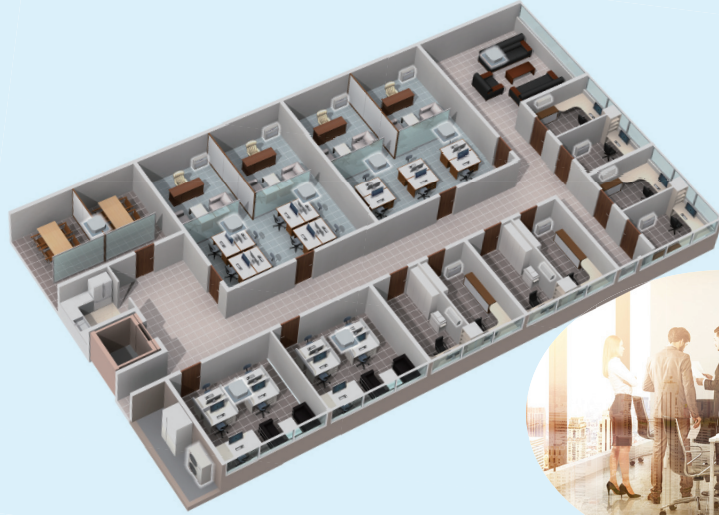
Up to 42 indoor units can be connected to various small rooms by the optimum heat exchanger structure.

4. Simple centralized control

The functions of simple remote monitoring and BMS control of the Centralized control system is useful for small and medium-sized buildings.

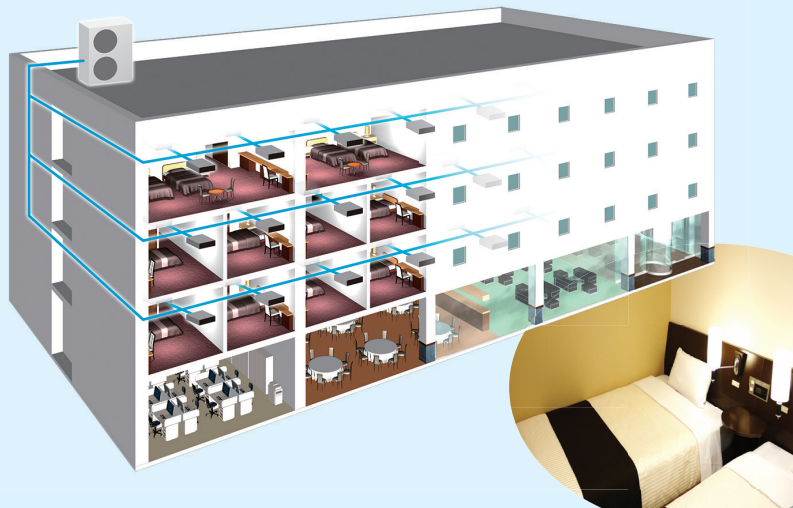
SMALL OFFICES

Perfect total air conditioning systems with features such as energy saving, low noise, comfortable airflow, small room application and Centralized Control for small-sized office buildings with many small room units.



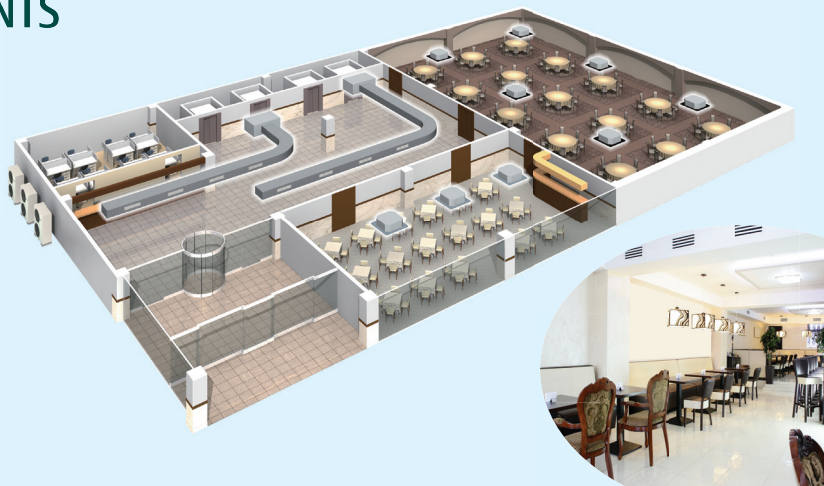
HOTELS, RESIDENTIALS

Perfect total air conditioning systems with features such as energy saving, external appearance, safe and easy installation for small low-rise hotels & homes.



SHOPS, RESTAURANTS

General provides perfect total air conditioning systems that offer smooth support in shops and restaurants with multiple lighting and a high density of customers.



Features

High Energy Efficiency



Energy Saving Function



Economy operation

Economy operation can be set by the 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.



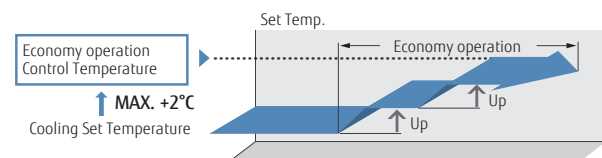
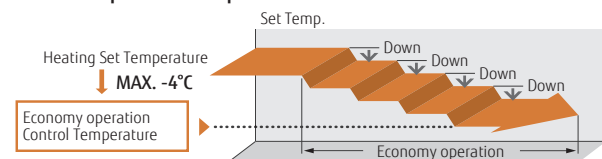
Auto-off timer

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

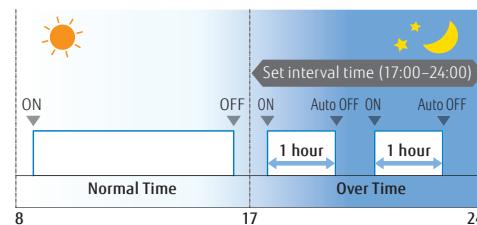
Capacity saving operation

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.

Room temperature set point limitation



Auto-off timer



Advanced high efficiency technology



Ø570mm

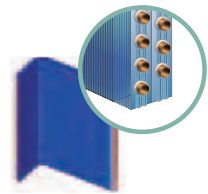
Large propeller fan

The high efficiency and the low sound operation are mutually realized by reduction of a draft loss which are enabled by the Fujitsu General's original blade design and a large diameter propeller fan.



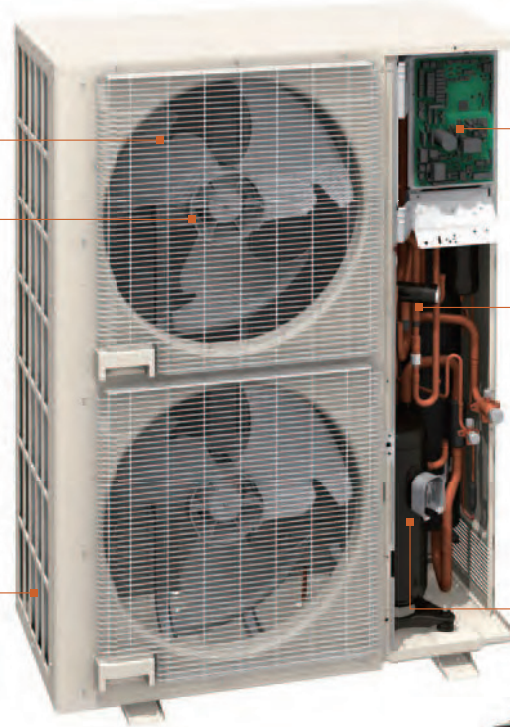
DC fan motor

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



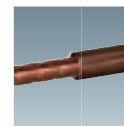
Large heat exchanger

Heat exchange performance is substantially improved by mounting of 2.6-row large heat exchanger.



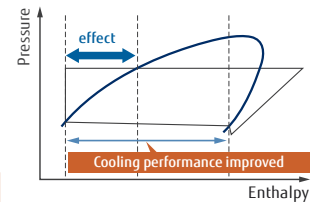
DC inverter control

Efficiency is improved by mounting of new active filter module.



Subcool heat exchanger

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



15-120 rps



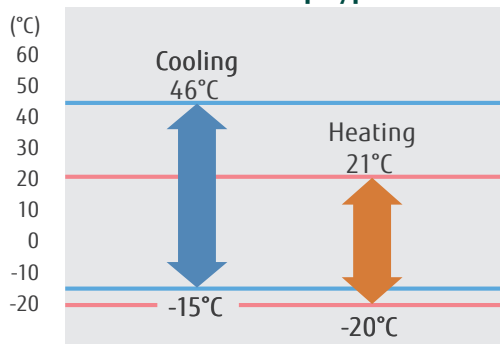
Scroll compressor

The equipment of scroll compressor with a wide range of rotational frequency from 15 to 120 rps, together with General's unique sensorless sine wave control method which smoothly control the input power run into the motor, leading to improvement on the energy efficient operation and low sound operation.

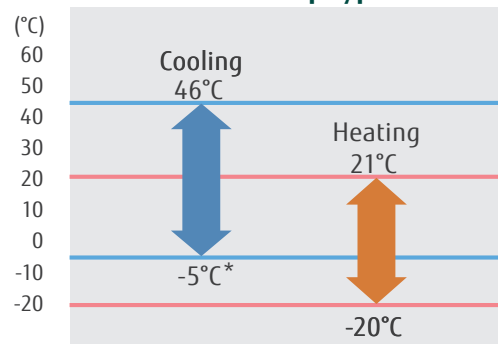
Wide operating range

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

AIRSTAGE™ J-III L series(8/10/12HP) Heat Pump type



AIRSTAGE™ J-III L series(14/16/18HP) Heat Pump type



* Note : Only when all indoor units are 5.6 kW or more in the system, the operation range is -15 to 46°C.

Features

Compact & Quiet Design



Compact Design

As the industry's first front blow 18HP model, it is the most compact size, in its capacity range. You can save space by installing multiple units in a limited space.



Inconspicuous and space saving installation

Inconspicuous installation on a rooftop or balcony

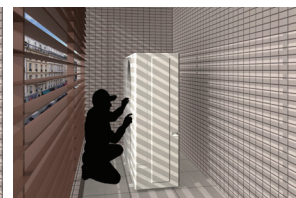


Feasible installation at narrow back streets



Flexible installation on each floor level for indoor units

Advantageous for easy maintenance



Quiet design

The ideal low noise operation has been achieved. This allows feasible installation of the units at any places without the need of soundproofing solution.

Sound Power Level

66 dB(A)



77 dB(A)

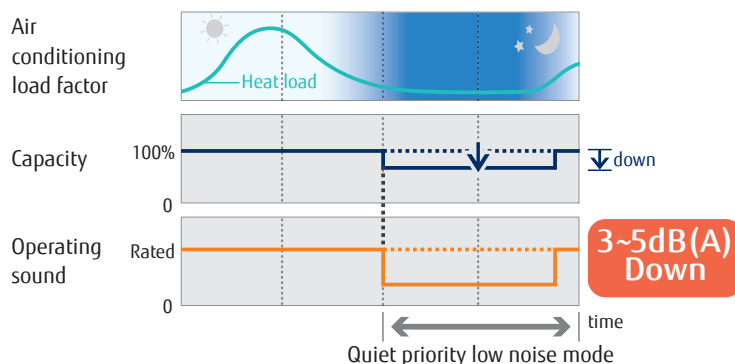
-11 dB(A)



Current Model (8HP)

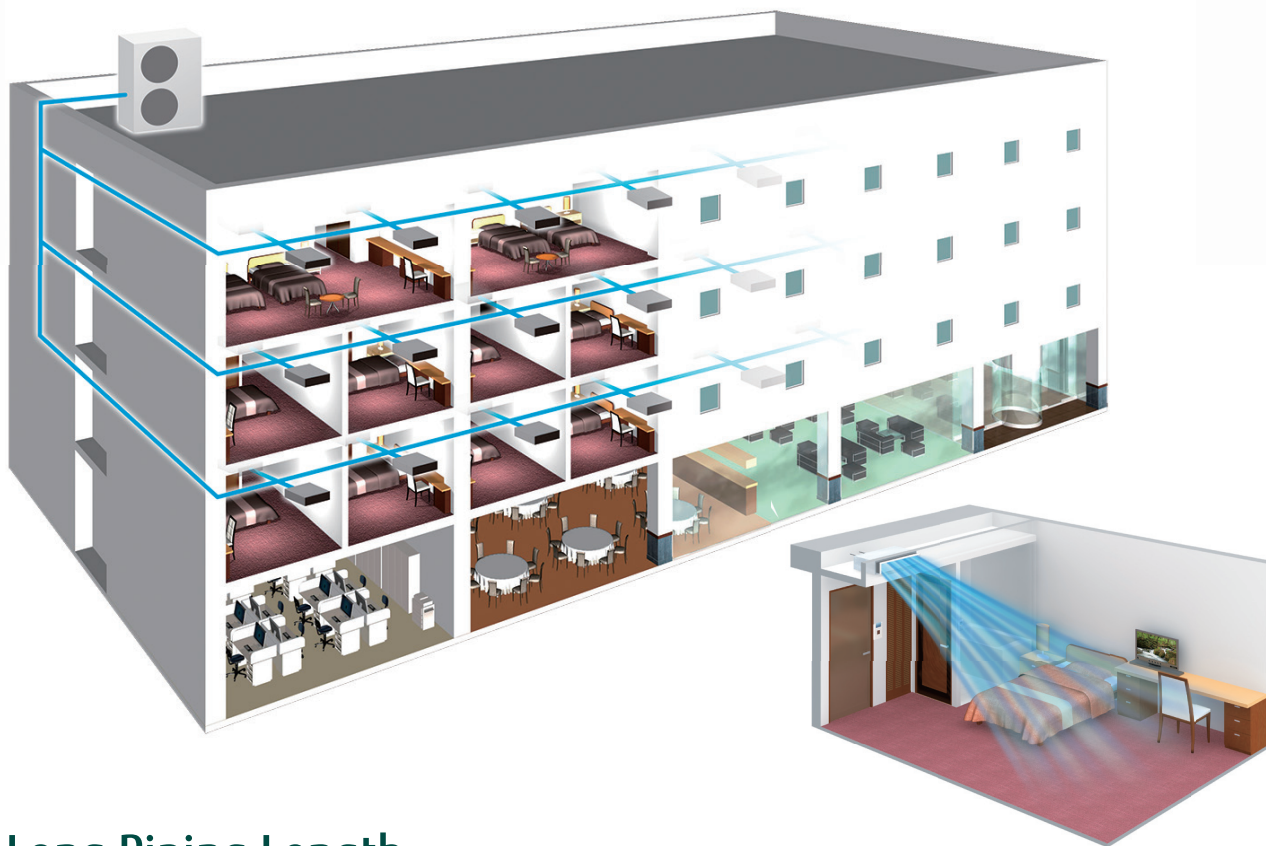
Low noise mode

User can choose low noise mode, depending on the installation environment.



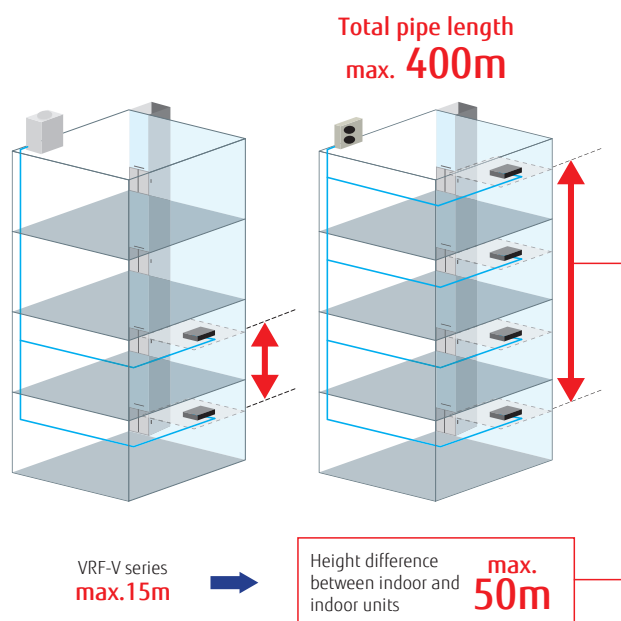
Features

Design Flexibility



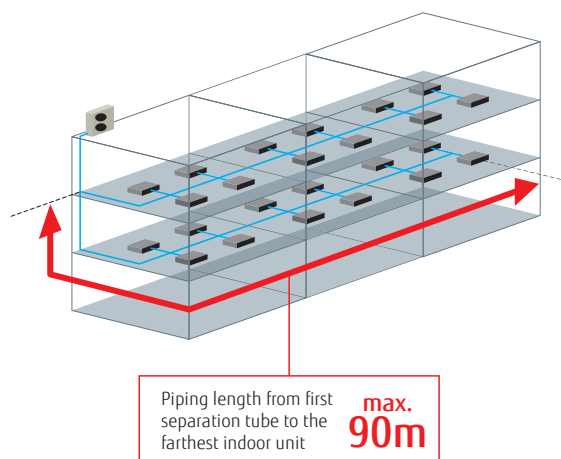
Long Piping Length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 400 m. It can deal flexibly with various types of small and medium-sized properties.



Height difference between indoor and indoor units can be at maximum 50m!

Shared space in medium size high-rise building can be controlled in one refrigerant system by expanding height difference among indoor units.



Horizontally long low-rise commercial building is supported due to maximum 90m piping length from first branch.

Up to 42 indoor 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 is highly competent to connecting 42 units. It is best suited for medium sized hotels with many small rooms.

High static pressure

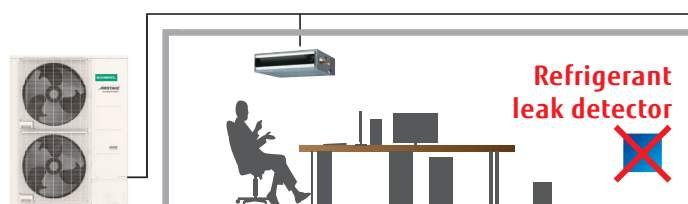
External static pressure is available up to **60 Pa** for 14/16 HP & New 18 HP model, **30 Pa** for 10/12HP, **20 Pa** for 8HP. Therefore, no worries on short circuits even it happens in the indoor unit.



Secure sufficient static pressure even when duct is used

Design with small refrigerant

This design with less refrigerant eliminates harmful effect on human body even in the circumstance of refrigerant leaks into small rooms, hence no refrigerant leak detectors are needed.



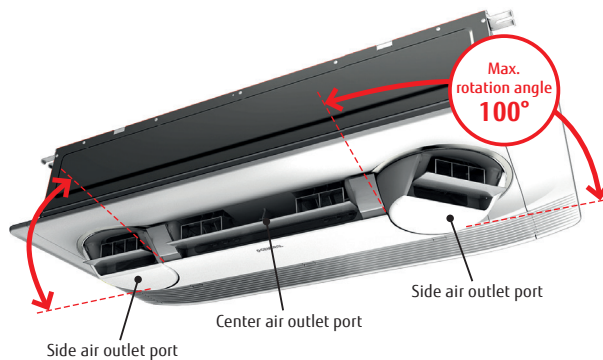
Indoor Units

The Airstage™ indoor units were developed to be highly efficient, compact, low noise and to have user friendly operation. With a variety of indoor units and capacities available, to match any requirement, which is easy to install and maintain

| Capacity range (kW) | NEW | | | | | | | | | |
|---------------------|-------------------|------------|--------------------------|-----------|-----------------------------|---------------------------|---------------|---------|--------------|------------------|
| | 4-wayFlow Compact | 4-way Flow | Low Static Pressure Duct | Slim Duct | Medium Static Pressure Duct | High Static Pressure Duct | Floor/Ceiling | Ceiling | Wall Mounted | 3D Flow Cassette |
| 2.2 | ● | | ● | ● | | | | | ● | |
| 2.8 | ● | | ● | ● | | | | | ● | |
| 3.6 | ● | | ● | ● | | | ● | | ● | |
| 4.5 | ● | | ● | ● | | | ● | | ● | |
| 5.6 | ● | ● | ● | ● | | | ● | | ● | ● |
| 7.1 | ● | ● | ● | ● | ● | | ● | | ● | ● |
| 9.0 | | ● | ● | | ● | | | ● | ● | |
| 11.2 | | ● | ● | | ● | ● | | ● | | |
| 12.5 | | ● | ● | | ● | ● | | ● | | |
| 14.0 | | ● | | | | | | ● | | |
| 18.0 | | | | | | ● | | | | |
| 22.4 | | | | | | ● | | | | |
| 25.0 | | | | | | ● | | | | |

NEW 3D Flow Cassette (5.6/7/1 kw)

Using the "Comfortable airflow setting" function allows the left and right air outlet ports and the wide center air outlet ports to automatically create a comfortable space for improved comfort.



*1: Announced 2018. In room air conditioner for the home (our company's investigation)

VARIOUS CONTROLLER

| Controller | | | | | |
|----------------------------|----------------------------|-------------------------|---------------------------------------|-------------------------|---------------------------|
| Wireless Remote Controller | Simple Remote Controller | Wired Remote Controller | Wired Remote Controller (Touch panel) | Group Remote Controller | Central Remote Controller |
| | Without operation mode | | | | |
| Touch Panel Controller | Network Converter | BACnet Gateway | MODBUS® Interface | KNX® Interface | Wireless LAN Interface |
| | | | | | |

Outdoor Units

| Rating Capacity range | | HP | 8 | 10 | 12 | 14 | 16 | 18 |
|--------------------------------------|---------------------------------|--------------------------|-----------------------------------|---------------|---------------|---------------|---------------|--------------|
| Model name | | | AJH072LELAH | AJH090LELAH | AJH108LELAH | AJH126LELAH | AJH144LELAH | AJH162LELAH |
| Maximum Connectable Indoor Unit | | | 1-15 | 1-19 | 1-22 | 1-27 | 1-30 | 1 - 42 |
| Power source | | | 3-phase, ~400V, 50Hz | | | | | |
| Capacity | Cooling | kW | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50 |
| | Nominal Heating | | 22.4 | 28.0 | 33.5 | 40.0 | 45.0 | 50 |
| | Max Heating | | 25.0 | 31.5 | 37.5 | 45.0 | 50.0 | 55 |
| Air flow rate | | m ³ /h | 8,400 | 9,000 | 11,000 | 13,000 | 14,000 | 14800/15300 |
| Sound pressure level/ Power level | Cooling / Heating | dB (A) | 52 / 54 | 54 / 57 | 59 / 61 | 62 / 63 | 64 / 65 | 65 / 68 |
| | Cooling | | 66 | 69 | 73 | 75 | 77 | 79 |
| Dimensions | Height | mm | 1,428 | 1,428 | 1,428 | 1,638 | 1,638 | 1638 |
| | width | | 1,080 | 1,080 | 1,080 | 1,080 | 1,080 | 1080 |
| | Depth | | 480 | 480 | 480 | 480 | 480 | 480 |
| Weight | | kg | 170 | 177 | 178 | 213 | 213 | 217 |
| Refrigerant | Type (Global Warming Potential) | | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2,088) | R410A (2088) |
| | Charge | kg(CO ₂ eq-T) | 7.0 (14.6) | 7.5 (15.7) | 7.5 (15.7) | 11.0 (22.9) | 11.0 (22.9) | 11.8(24.6) |
| Connection pipe diameter | Liquid | mm | 9.52 | 9.52 | 12.70 | 12.70 | 12.70 | 12.7 |
| | Gas | | 19.05 | 22.20 | 28.58 | 28.58 | 28.58 | 28.58 |
| Total pipe length | | m | 400 | 400 | 400 | 400 | 400 | 400 |
| Max. Height difference | | | 50/40 (Outdoor unit: Upper/Lower) | | | | | |
| Operation range | Cooling | °C | -15 to 46 | -15 to 46 | -15 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.

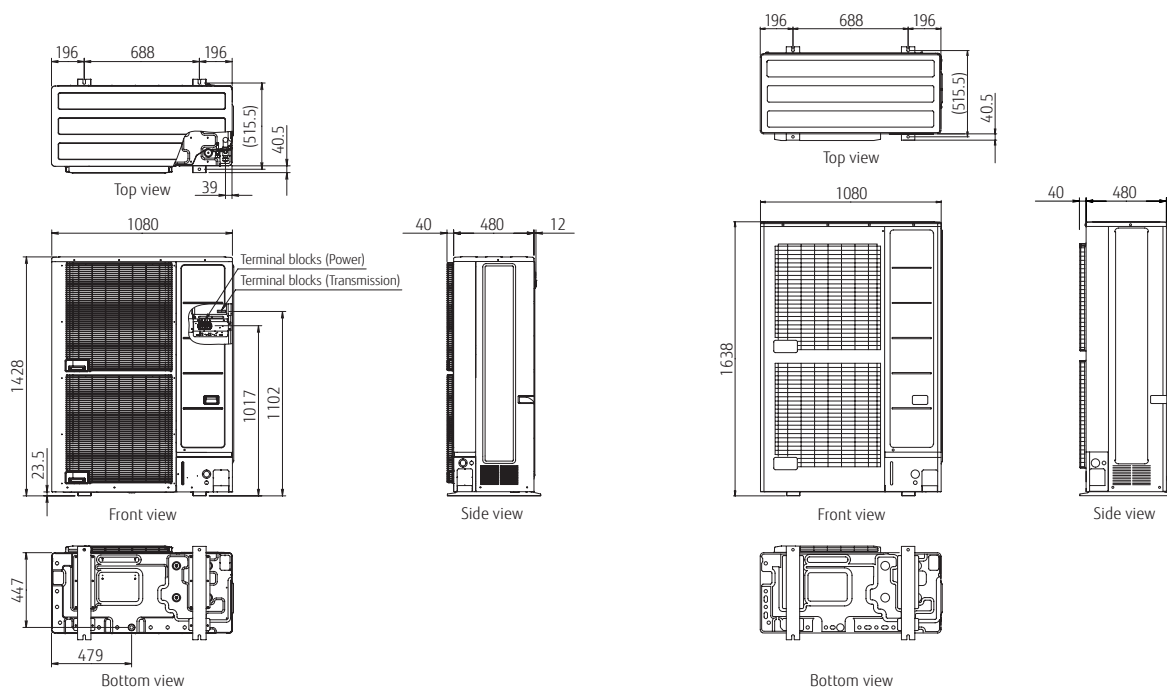
Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.

* The cooling operation range of -15 to 46°C is allowed only when all of the indoor units connected to the system are higher than capacity of 5.6kW.

Dimensions

Models : AJH072LELAH / AJH090LELAH / AJH108LELAH

Models : AJH126LELAH / AJH144LELAH / AJH162LELAH (Unit : mm)



GENERAL

A I R C O N D I T I O N E R S

The Extreme Machine

* Specifications and models are subject to change without notice for further development



ISO 9001 Certified number: 01 100 89394
 ISO 14001 Certified number: 01 104 9245/01
 Fujitsu General (Thailand) Co., Ltd.

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