Compact Designed For Light commercial

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

FUJITSU GENERAL AIR CONDITIONING (UK)
Compact Designed For Light commercial

FUJITSU GENERAL’s VRF new system suitable for offices, hotels and stores in restricted location such as city center.

Compact Outdoor unit

The compact and low sound level enable the units to be installed to various environment with restriction and/or limited spaces such as mechanical rooms and or rooftops.
The substantial capacity range and indoor unit type suit to various room size and layout

The wide selection of indoor unit suitable for small rooms enable to provide the choices to the applications’ requirement.
3 Benefit Points

Pursuing the top class conformity to the small application, comfortability and installation flexibility.

VRF System for medium sized buildings
8-12HP (22.4 - 33.4 kW)

The outdoor units come in three different capacities focusing on the low sound level and the compact dimensions of the unit.
The top class number of connectable indoor units fulfill the requirement of applications with many small and diversified rooms.
1 Small Room Application

The top class number of connectable indoor units and refrigerant pipe distance have been realized by development of the smallest capacity indoor unit, supporting applications with different layouts.

2 Quiet Design

The top class low sound level has been realized, enabling the units to be installed to diversified installment environments with sound restrictions.

3 Installation Flexibility

The top class compact dimensions of outdoor units from 10 to 12 HP capacity, keeping the building appearance as it is by improvement on the installation flexibility.
Up to 30 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 30 units. The total pipe length has been extended up to 400 meters to fulfill various room layouts.

*Only for latest size 04 1.1kW Models
Designed with small refrigerant charge

System Refrigerant charge is significantly reduced, which means that in most cases refrigerant leak detection to meet EN378 are not required.

Ex.) In the case of 30 indoor units connected in one system
O.U:12HP, I.U: 1.1kW×30, Total piping length

System refrigerant volume

20.5kg

Current model

16.8kg ▲ 18%

*EN378: Refrigerating systems and heat pumps Safety and environmental requirements
The top class low sound level

The low sound operation has been achieved by equipment of a large diameter fan and a high capacity scroll compressor. This allows installation of the units to various places without a special sound prevention work.

Advanced Technology

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.

The equipment of scroll compressor with a wide range of rotational frequency from 15 to 120 rps together with Fujitsu General’s unique sensorless sine wave control method which smoothly control the input power run into the motor realized a mutual improvement on the energy efficient operation and the low sound operation.
Feature 3
Installation Flexibility

1. **Compact Design**
   
   This model is much more compact than conventional 12HP comparable outdoor unit. Inconspicuous installation is available even on the roof.

2. **High static pressure**
   
   External static pressure is available up to 30Pa. (12HP Model)

3. **Long piping design**
   
   It can be flexibly installed in a narrow tall building and a landscape building.

Height difference max. 1,428mm ▲26%
Space area 0.71m² ▲27%

*Only for latest size 04 1.1kW Models*
Control system useful for small and medium sized buildings

**VRF network system**

Remote monitoring & control

- Tablet
- PC

LAN or Wireless LAN

**Simple centralized control**

Easy to use remote monitoring & control of VRF system by one touch panel operation.
- Control up to 400 indoor units
- Emergency stop
- Remote management

- Touch Panel Controller

**Controller**

- Wireless Remote Controller
- Simple Remote Controller (Without operation mode)
- Wired Remote Controller (Touch panel)
- Central Remote Controller

**VRF indoor units**

**Facilities**

**Lightning**
VRF network system

Remote monitoring & control
Management center or Building management company

Simple BMS
Not only the air conditioner but also several operation of third party equipment with Modbus communication can be controlled through Modbus network implemented into the application by our system controller.

- Control up to 400 indoor units
- Electricity charge apportionment
- Integration of third party equipment

Remote I/O
Supported Modbus communication (Field supply)

System Controller Lite

Adaptor

Touch Panel Controller
System Controller
System Controller Lite (software)

Wireless LAN Interface
External Switch Controller

*Optional parts of 3-wire type can not be connected to new indoor units.
OUTDOOR UNITS

<table>
<thead>
<tr>
<th>Capacity range (kW)</th>
<th>8</th>
<th>10</th>
<th>12</th>
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<tr>
<td>Model name</td>
<td>AJY072LELAH</td>
<td>AJY090LELAH</td>
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<td>Maximum connectable indoor units</td>
<td>1-20</td>
<td>1-25</td>
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<table>
<thead>
<tr>
<th>Capacity level</th>
<th>Cooling kW</th>
<th>Heating kW</th>
<th>Cooling dB(A)</th>
<th>Heating dB(A)</th>
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<td>22.4</td>
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<th>Sound power level</th>
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<td>70</td>
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<table>
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<th>Net Dimensions (H+W+D)</th>
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<td>1,428 × 1,080 × 480</td>
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<th>Refrigerant</th>
<th>Type</th>
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<td>Charge</td>
<td>kg</td>
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INDOOR UNITS (NEW MODEL)

<table>
<thead>
<tr>
<th>Capacity range (kW)</th>
<th>4-way Compact Cassette</th>
<th>4-way Circular Flow Cassette</th>
<th>Mini Duct</th>
<th>Slim Duct</th>
<th>Medium Static Pressure Duct</th>
<th>High Static Pressure Duct</th>
<th>Compact Floor</th>
<th>Floor/Ceiling</th>
<th>Ceiling</th>
<th>Wall Mounted</th>
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