

FUJITSU

AIR CONDITIONING

Compact Designed For Light commercial



AIRSTAGE™ J-III L

VRF system for medium sized buildings



COMPACT
8-12
HP

FUJITSU GENERAL AIR CONDITIONING (UK)

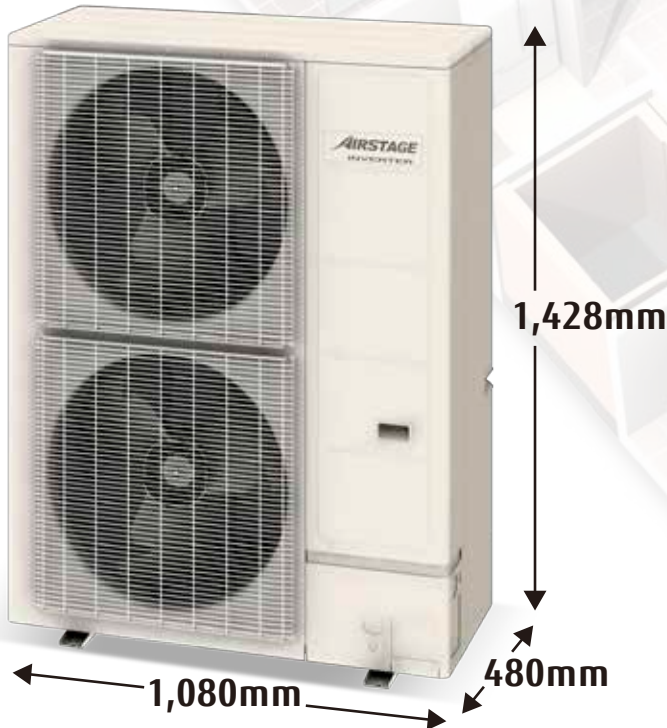
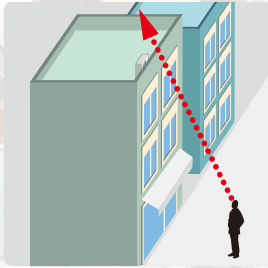
AIRSTAGE™ J-III L

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.



Outdoor unit



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.

Compact cassette



Bulkhead & Slim Duct



Compact wall mounted



Compact floor

NEW



3 Benefit Points

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

AIRSTAGE J-III L



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

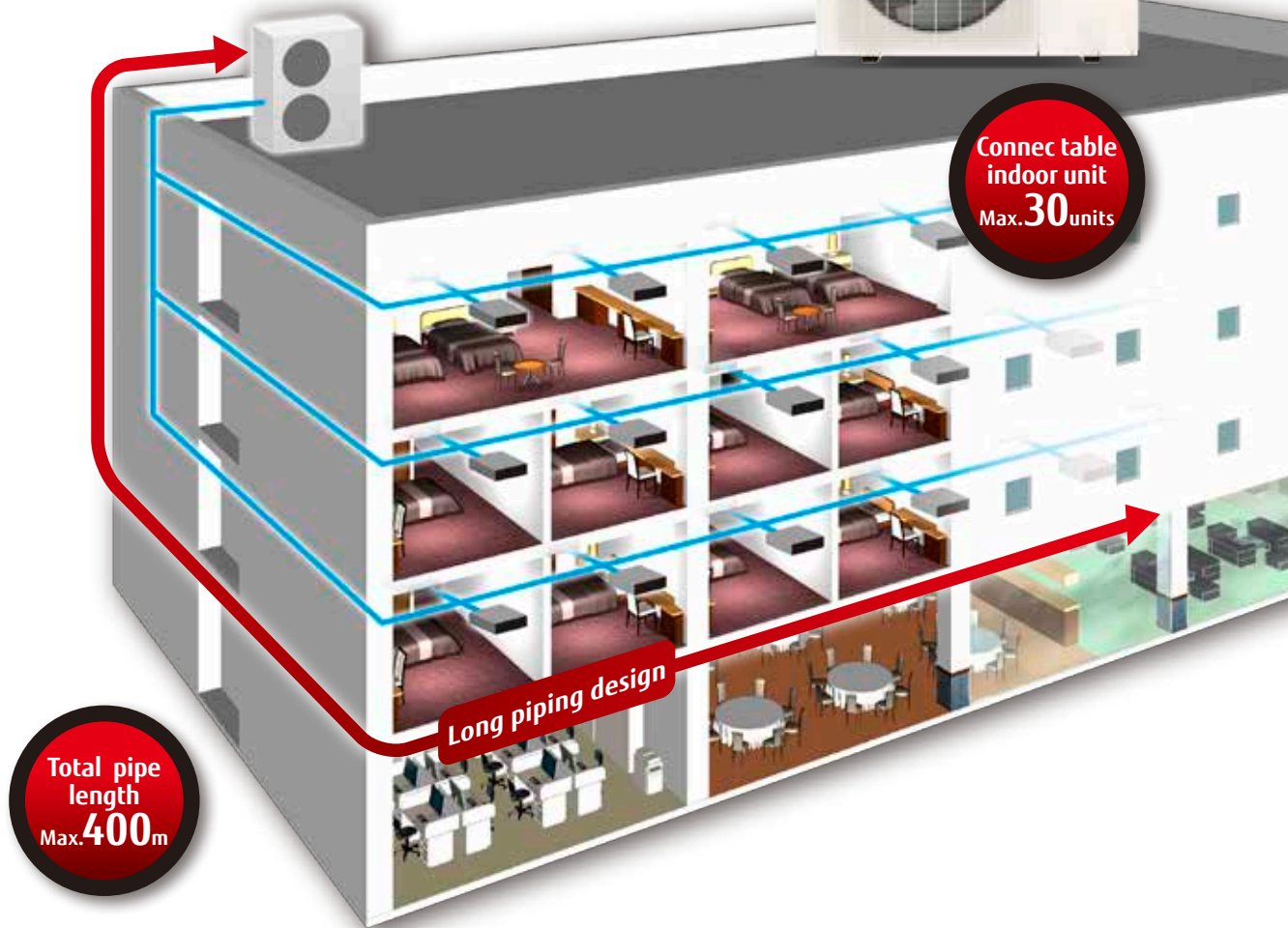
The top class compact dimensions of outdoor units from 10 to 12 HP capacity, keeping the building appearance as it is by improvement on the installation flexibility.

Feature 1

Small Room Application

1¹ 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 upto 400 meters to fulfill various room layouts.



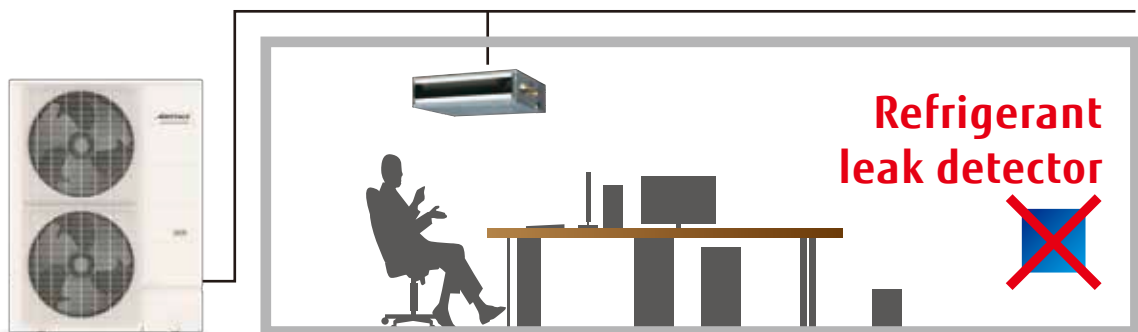
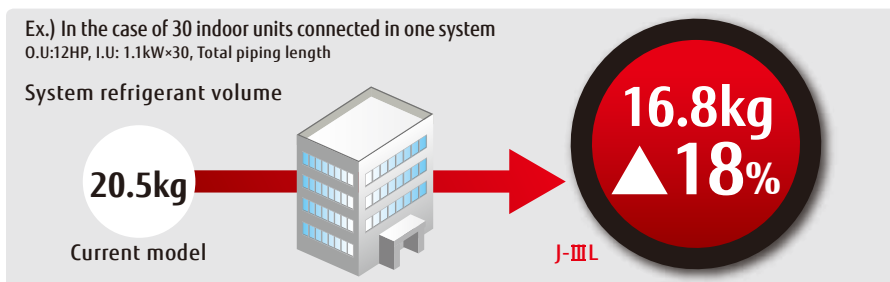
Connectable indoor unit
Max. **30** units

Total pipe length
Max. **400m**



2 | 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.



*EN378: Refrigerating systems and heat pumps Safety and environmental requirements

Feature 2

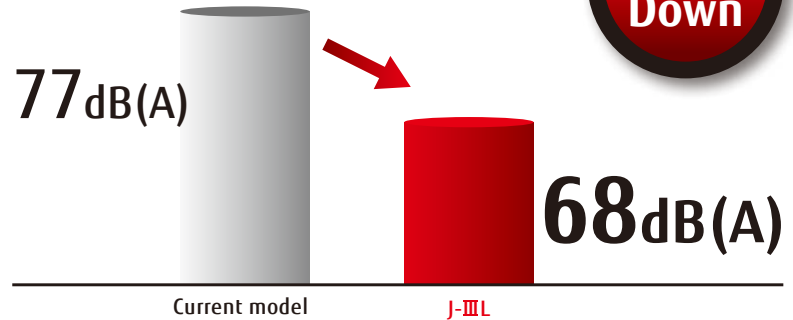
Quiet Design



1 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.

Sound power level (8HP)



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.

15-120rps



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.

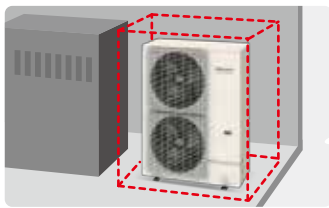
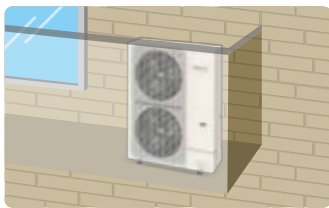
Feature 3

Installation Flexibility

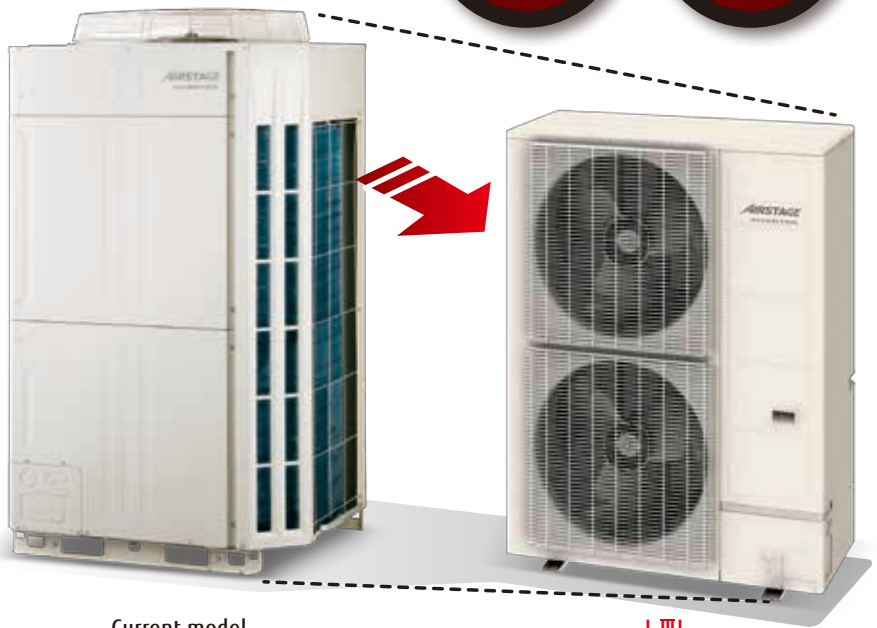


1 Compact Design

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



(12HP)



Current model

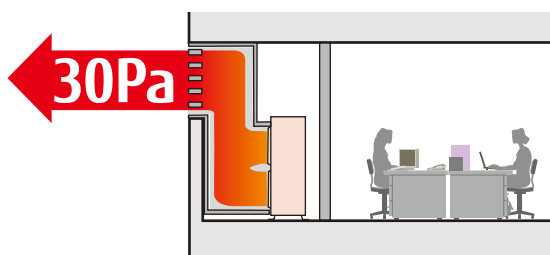
J-III

Height difference
1,428mm
▲26%

Space area
0.71m²
▲27%

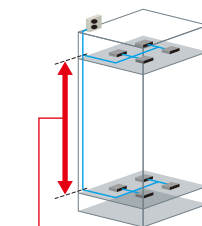
2 High static pressure

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

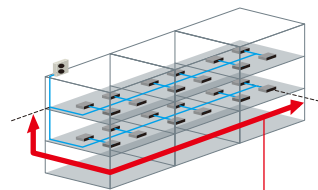


3 Long piping design

It can be flexibly installed in a narrow tall building and a landscape building.



Height difference between indoor and indoor units **max.* 50m**



Piping length from first separation tube to the farthest indoor unit **max.* 90m**

***Only for latest size 04 1.1kW Models**

More Over

Control system useful for small and medium sized buildings

VRF network system

Remote monitoring & control



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

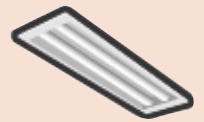


Touch Panel Controller

VRF indoor units



Facilities



Lightning

Controller



Wireless Remote Controller



(Without operation mode)
Simple Remote Controller



Wired Remote Controller
(Touch panel)



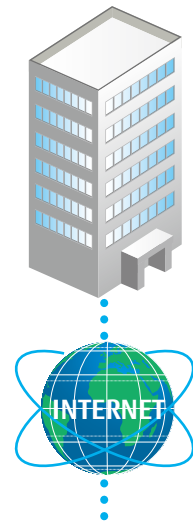
Central Remote Controller



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.

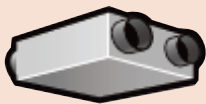
- Control up to 400 indoor units
- Electricity charge apportionment
- Integration of third party equipment



System Controller Lite



Ventilation



Energy Recovery Ventilator

Remote I/O

Supported
Modbus communication
(Field supply)

Adaptor



Wireless LAN Interface
*Optional parts of 3-wire type can not be connected to new indoor units.



External Switch Controller






Touch Panel Controller













System Controller
System Controller Lite
(software)


OUTDOOR UNITS

Capacity range(HP)			8	10	12
Model name			AJY072LELAH	AJY090LELAH	AJY108LELAH
Maximum connectable indoor units			1-20	1-25	1-30
					
Capacity	Cooling	kW	22.4	28.0	33.5
	Heating	kW	25.0	31.5	37.5
Sound Pressure level	Cooling/Heating	dB(A)	52/54	54/56	59/61
Sound power level	Cooling	dB(A)	68	70	76
Net Dimensions(H+W+D)		mm	1,428 × 1,080 × 480		
Refrigerant	Type		R410A		
	Charge	kg	7.0	7.5	7.5


(GWP:IPCC4thAR)

INDOOR UNITS (●NEW MODEL)

Capacity range (kW)	4-way Compact Cassette	4-way Circular Flow Cassette	Mini Duct	Slim Duct	Medium Static Pressure Duct	High Static Pressure Duct	Compact Floor	Floor/Ceiling	Ceiling	Wall Mounted
										
1.1	●			●						
2.2	●		●	●			●			●
2.8	●		●	●			●			●
3.6	●		●	●			●	●		●
4.5	●			●			● (4.0kw)	●		●
5.6	●			●				●		●
7.1	●			●	●			●		●
9.0					●				●	●
10.0		●								●
11.2		●			●	●			●	
12.5		●			●	●			●	
14.0		●								
18.0						●				
22.4						●				
25.0						●				
28.0						●				



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ISO 14001
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