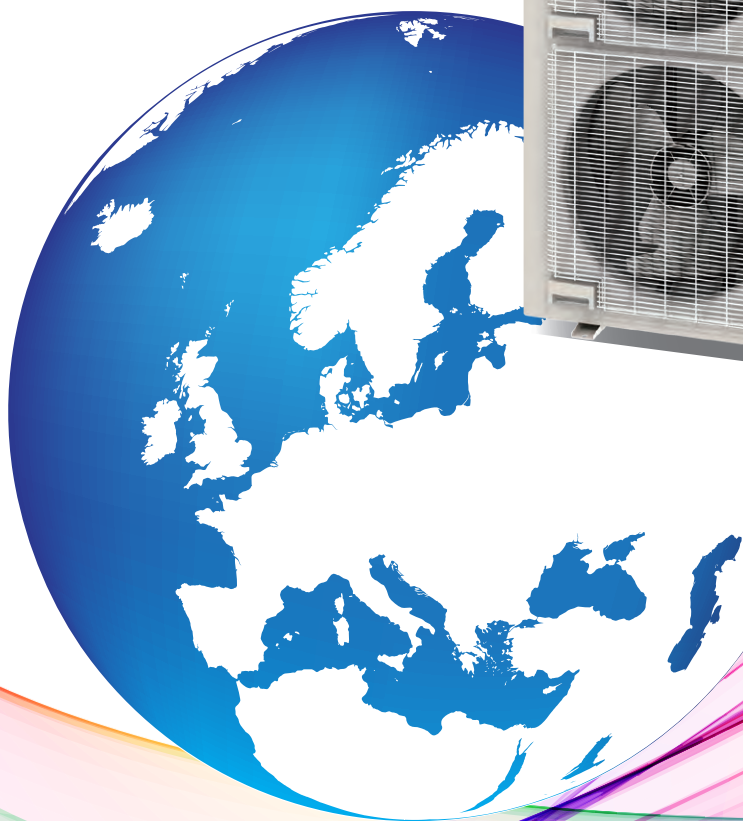


# ***AIRSTAGE™ J-III L***

VRF system for medium sized buildings





## Compact Design For Light Commercial Buildings

Fujitsu General's VRF new system is suitable for use in offices, hotels and stores with limited spaces located in the hub of the city areas. The outdoor units with five different capacities are focusing on low noise level and compactness. Indoor units can be flexibly connectable.

VRF System for medium sized buildings  
8-16HP



8-12HP

**NEW** 14/16HP

## Benefit Points

### 1. Compact & 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 16HP, it will not affect the appearance of the building after the installation due to its compactness.

### 3. Small room application

Up to 40 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.

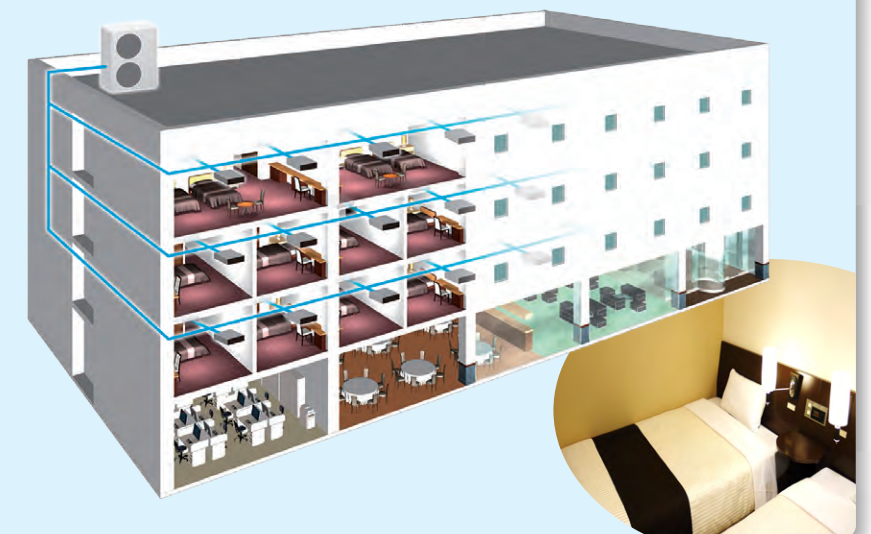
## SMALL OFFICES

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



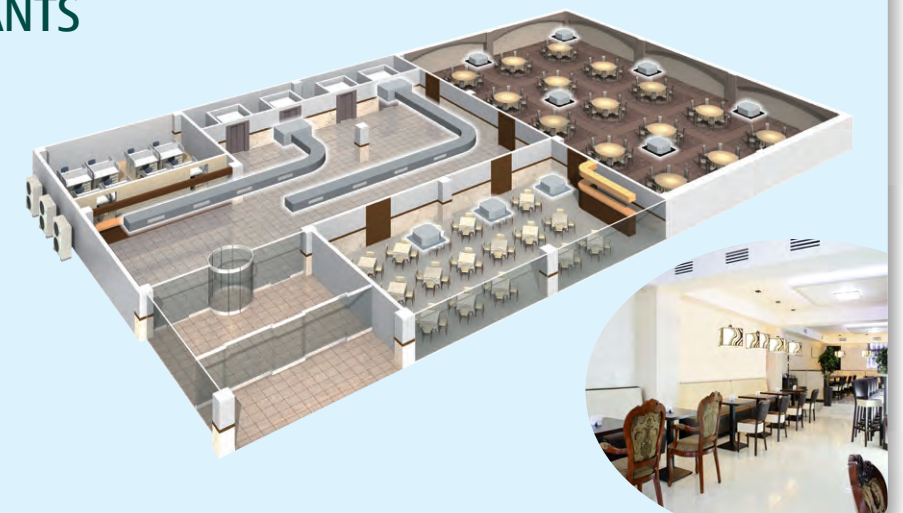
## HOTELS

Perfect total air conditioning systems with features of energy saving, external appearance, safety and easy installation for small low-rise hotels.



## SHOPS, RESTAURANTS

Fujitsu General provides perfect total air conditioning systems that offer smooth support by tenant, by purpose and by customer visit frequency in shops and restaurants with multiple lighting and a high density of customers.





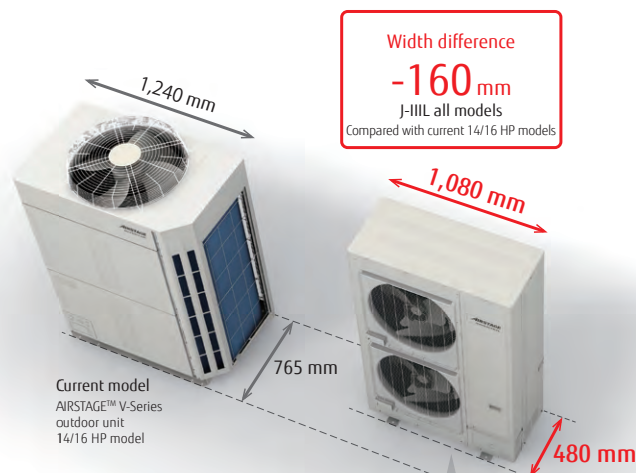
# 1. Compact & Quiet design



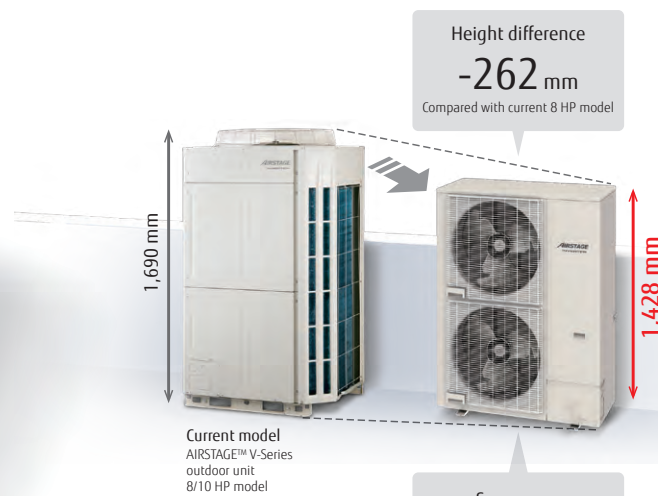
## Slim & Compact Design

This outdoor unit model is more compact than Airstage V series, it allows feasible installation in a restricted space area.

**NEW AIRSTAGE™ J-III L**  
14/16 HP model



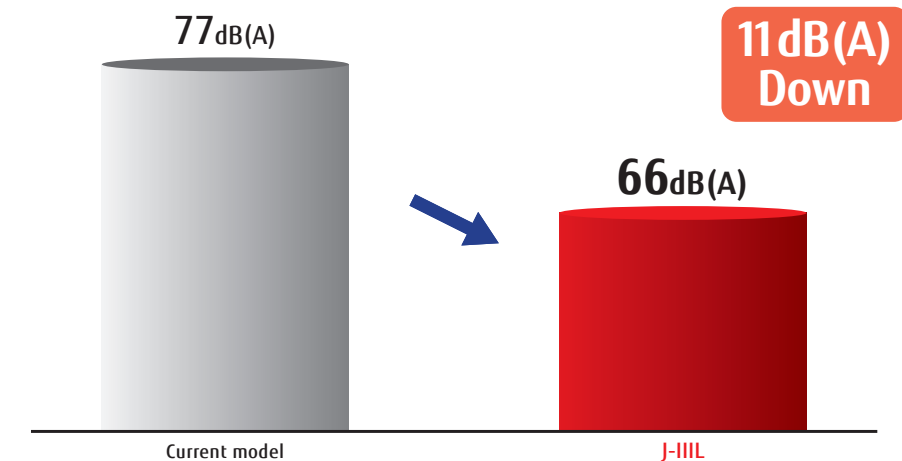
**AIRSTAGE™ J-III L**  
8/10/12 HP model



## Quiet design

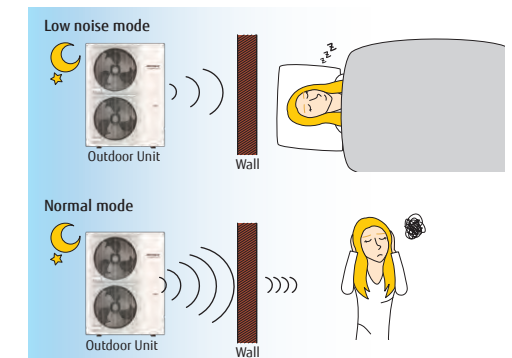
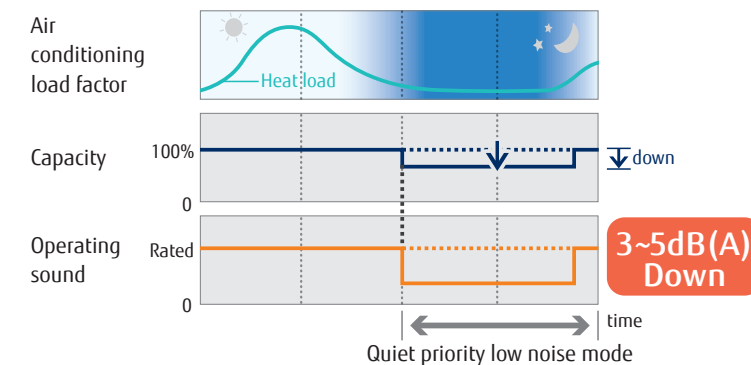
The ideal low noise operation has been achieved. This allows feasible installation of the units at any places without the need of soundproofing solution.

Sound power level (8HP)



## Low noise mode

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



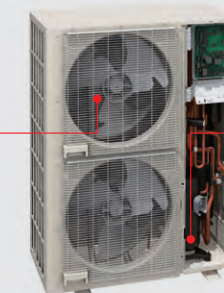
## Advanced high efficiency technology



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.



15-120 rps

### Scroll compressor

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.



## 2. Flexible installation



### High Static Pressure

External static pressure is available up to 60Pa for 14/16HP (20Pa for 8HP, 30Pa for 10/12HP), therefore no worry on short circuits even it happens in the indoor unit.



Secure sufficient static pressure even when duct is used

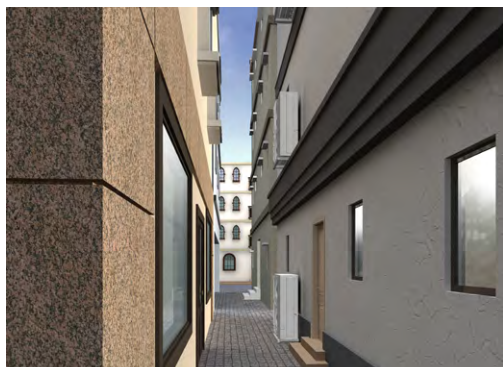


### Inconspicuous & Space saving installation

Inconspicuous installation on a rooftop of balcony



Feasible installation at narrow back streets

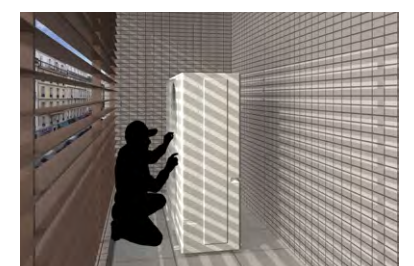
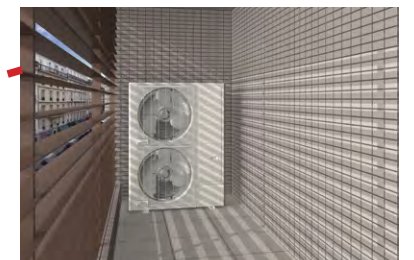
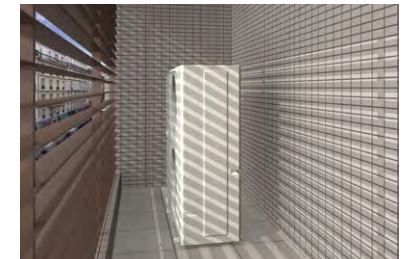


Space-saving installation



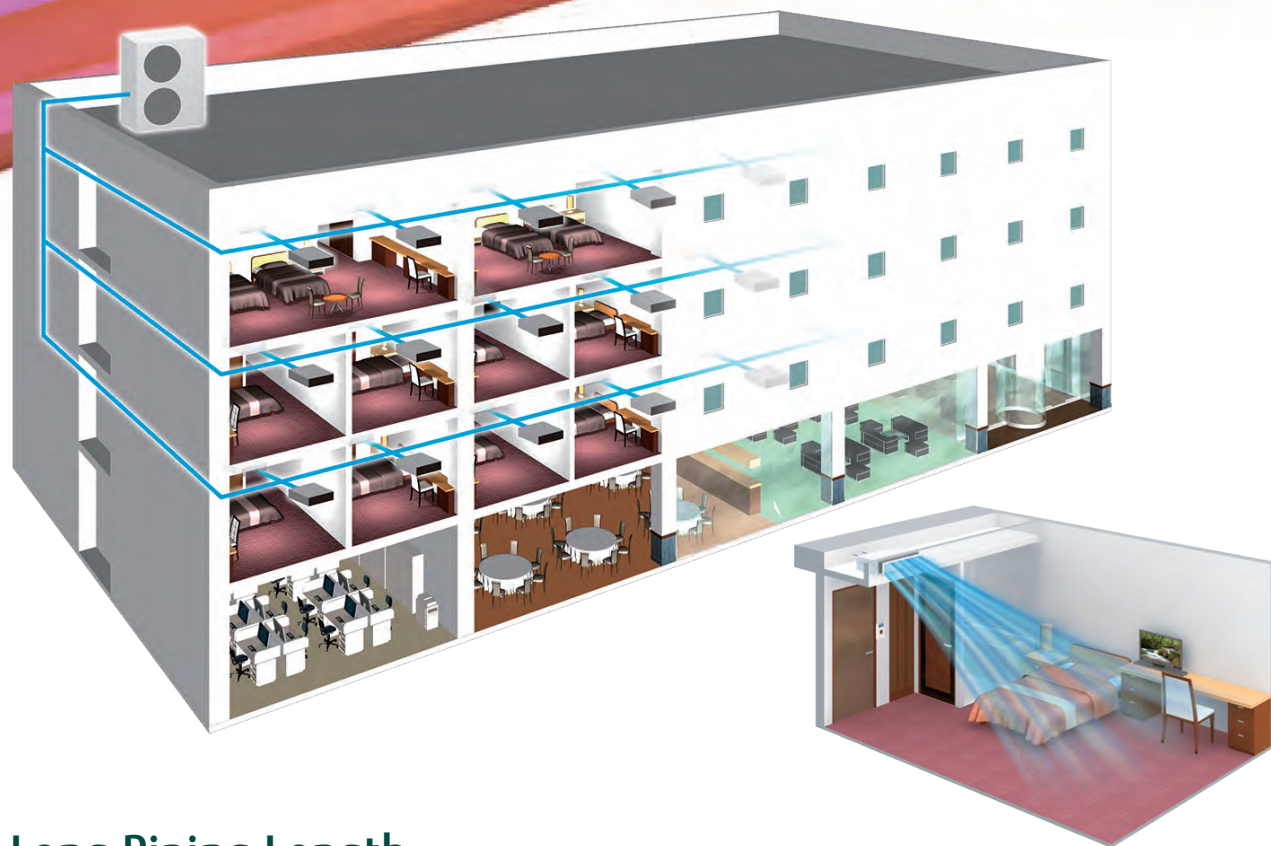
### Flexible installation on each floor level for indoor units

Advantageous for easy maintenance





# 3. Small room application



## Up to 40\* 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 40 units.

\* :16HP model

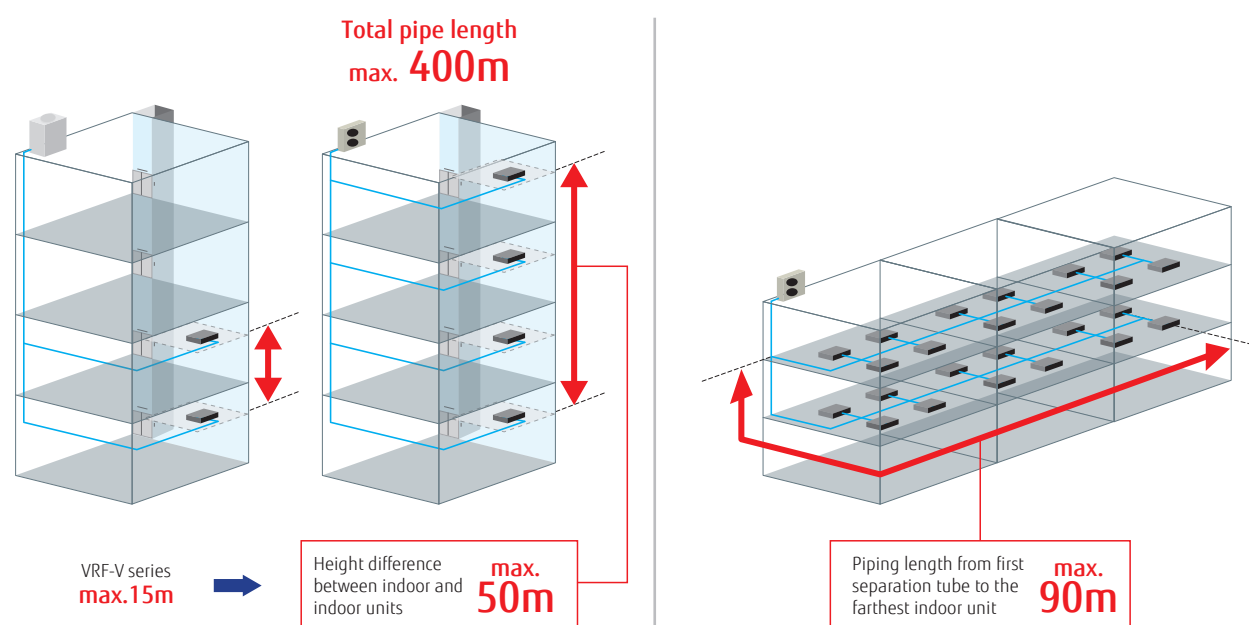
The substantial capacity range and indoor unit type are suitable for various room size and layout

The wide selection of indoor units are suitable for small rooms and thus providing more choices for the requirements of application.

12 type 88 models  
lineup!

## 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 units 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.



Compact cassette



Mini Duct



Compact wall mounted



Compact floor



# 4. Simple Centralized Control

Integrated control system with easy-to-use remote control function and BMS control function appropriate for small and medium-sized properties

## Remote Control & Monitoring for anywhere

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

LAN or Wireless LAN

## Remote monitoring & control



Tablet

PC

VRF network system

VRF Indoor units



VRF network system

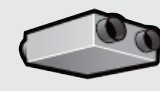
Facilities



Lighting



Ventilation



Energy Recovery Ventilator

Remote I/O

Supported Modbus communication (Field supply)

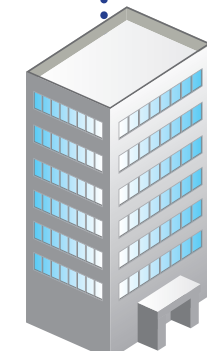
## Simple BMS

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













**Remote monitoring & control**  
Management center or  
Building management company










## VARIOUS CONTROLLER














Controller								Adaptor	
Wireless Remote Controller	Simple Remote Controller	Wired Remote Controller	Wired Remote Controller (Touch panel)	Group Remote Controller	Central Remote Controller	Touch Panel Controller	System Controller System ControllerLite (software)	BACnet® Gateway	External Switch Controller
	 Without operation mode							 software hardware	

## OUTDOOR UNITS

Rating Capacity range (HP)			8	10	12	14	16
Model name			AJH072LELAH	AJH090LELAH	AJH108LELAH	AJH126LELAH	AJH144LELAH
Maximum Connectable Indoor Unit			1-20	1-25	1-30	1-36	1-40
							
Power source			3 phase, ~400V, 50Hz				
Capacity	Cooling	kW	22.4	28.0	33.5	40.0	45.0
	Nominal Heating		22.4	28.0	33.5	40.0	45.0
	Max Heating		25.0	31.5	37.5	45.0	50.0
Input power	Cooling	kW	6.30	8.59	10.42	12.12	14.96
	Nominal Heating		4.65	6.61	8.18	9.71	11.81
	Max Heating		5.45	8.29	10.25	12.81	14.29
EER	Cooling	W/W	3.56	3.26	3.22	3.30	3.01
COP	Nominal Heating		4.82	4.24	4.10	4.12	3.81
	Max Heating		4.56	3.80	3.66	3.81	3.50
Sound pressure level / Power level	Cooling	dB(A)	52/66	54/69	59/73	62/75	64/77
	Heating		54/-	57/-	61/-	63/-	65/-
Net Dimensions (H×W×D)		mm	1,428 × 1,080 × 480				1,638 × 1,080 × 480
Weight		kg	170	177	178	213	213
Refrigerant	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)	R410A (2,088)
	Charge	kg(CO2eq-T)	7.0 (14.6)	7.5 (15.7)	7.5 (15.7)	11.0 (22.9)	11.0 (22.9)
Operation range	Cooling	°C	-15 to 46	-15 to 46	-15 to 46	-5 to 46*	-5 to 46*
	Heating		-20 to 21	-20 to 21	-20 to 21	-20 to 21	-20 to 21

\* 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.

## INDOOR UNITS ( ● NEW MODEL)

Capacity range (kW)	Compact Grid type / Standard type	4-way Flow	Circular Flow	Mini Duct	Low Static Pressure 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	●			●	●	●			●	●		●
5.6	●	● Slim	● Slim	●	●	●			●	●		●
7.1	●	● Slim	● Slim	●	●	●	●			●		●
9.0		●	● Slim		●		●				●	●
10.0		●	●									●
11.2		●	●		●		●	●			●	
12.5		●	●		●		●	●			●	
14.0		●	●								●	
18.0								●				
22.4								●				
25.0								●				
28.0								●				



FUJITSU GENERAL (Euro) GmbH participates in the ECP programme for VARIABLE REFRIGERANT FLOW SYSTEMS  
Check ongoing validity of certificate:  
[www.eurovent-certification.com](http://www.eurovent-certification.com)



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