

## **Fujitsu General Introduces All-New AIRSTAGE J and V Series of Commercial Multi Split Air Conditioners in Europe**

### **20 New Models Offer Greater Flexibility in Facility Design and Installation**

Fujitsu General Limited today announced that, as part of its efforts to bolster its commercial air conditioner business outside Japan, in mid-May it will introduce in Europe 15 new models of multi split air conditioners in the AIRSTAGE J series for small-to-medium stores and offices, and five new models in the V series for larger buildings.

#### **1. J Series Models Offer Greater Flexibility and Ease of Installation**

##### **(1) Compact and light outdoor units**

All J series models, including J-IVL models that boast the industry's smallest outdoor units, provide compact and light outdoor units that offer greater flexibility and ease of installation.

##### **(2) Outdoor units capable of operating under a higher static pressure<sup>1</sup> achieve better air conditioning performance even when placed in tight spaces (J-IVS and J-IV models)**

In Europe, outdoor units of air conditioners are often placed out of public sight, such as in a space between buildings or behind a balcony fence, leaving little space around them, which may hinder their ability to suction sufficient air to provide optimum cooling and heating performance. Outdoor units of the J series air conditioners are equipped with an advanced operation control system that enables them to operate under a higher static pressure and provide better air conditioning performance even when installed in tight spaces.

##### **(3) A single outdoor unit can drive more indoor units than competitive units can**

We redesigned the heat exchanger in the indoor units for the J series air conditioners. A single 18 HP outdoor unit of the J series can drive up to 42 indoor units, making it an ideal choice for hotels and commercial buildings, in which many rooms and stores have their own indoor units.

#### **2. Daisy-Chain Configuration of Outdoor Units of V Series Models Meets Diverse Air Conditioning Needs in Larger Buildings**

##### **(1) The wider capacity range of indoor units can be connected to an outdoor unit. V Series enable partial air conditioning within a building**

When one of the tenants of a large commercial building pre-opens before the grand opening, air conditioning needs to be provided only to that part of the building. Previous-generation models of our air conditioners require that connected indoor units have a combined cooling and heating capacity corresponding to 50% or greater that of an outdoor unit in order to provide partial air conditioning within a building. Our new V series models can provide partial air conditioning when a combined capacity of connected indoor units corresponds to only 25% or more of an outdoor unit's capacity. This is the smallest percentage in the industry<sup>2</sup> and offers greater flexibility.

##### **(2) A single outdoor unit can drive more indoor units than a previous-generation unit, offering greater flexibility in facility design**

As is the case with the new J series models, a single outdoor unit of a V series model can drive more indoor units than a previous-generation unit, offering greater flexibility in facility design. Three daisy-chained 16 HP outdoor units can drive up to 64 indoor units connected to them.

J Series

V Series



1. Static pressure refers to the resistance to airflow in an air conditioner's air duct. The tighter space an outdoor unit is placed, the greater becomes static pressure, which in turn affects the cooling and heating performance of an air conditioner. The new J series models are designed to operate under a higher static pressure.

2. As of May 18, 2020. Source: Fujitsu General Limited

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**Media Contact**

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## J Series Models Offer Greater Flexibility and Ease of Installation

### (1) Compact and light outdoor units

All J series models, including J-IVL models that boast the industry's smallest outdoor units, provide compact and light outdoor units that offer greater flexibility and ease of installation.

### (2) Outdoor units capable of operating under a higher static pressure offer greater flexibility in installation

In Europe, outdoor units of air conditioners are often placed out of public sight, such as in a space between buildings or behind a balcony fence. A conventional outdoor unit, when placed in a tight space partially enclosed by a fence or a wall, may not provide optimum cooling or heating performance. Outdoor units of the J series air conditioners are equipped with an advanced operation control system that enables them to operate under a higher static pressure and provide better air conditioning performance even when installed in tight spaces.

Outdoor units of the J series models offer greater flexibility in installation, allowing them to be placed in tight spaces enclosed by a balcony fence and a wall.



An example of an outdoor unit placed behind a block-out fence on the balcony (conceptual drawing)

### (3) A single outdoor unit can drive more indoor units than competitive units can, offering greater flexibility in facility design

We redesigned the heat exchanger in the indoor units for the J-IVS and I-IV series air conditioners to offer a wider variety of models with diverse cooling and heating capacity. With all models in the J-IVS, J-IV, and J-IVL series, a single outdoor unit can drive more indoor units than competitive outdoor units. Our new models offer greater flexibility in facility design, allowing the choice of indoor units that meet individual needs of hotels and commercial buildings.

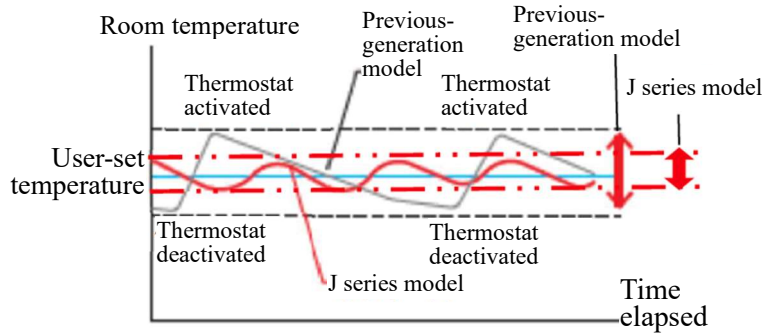


An installation example for a hotel (conceptual drawing): A wider variety of models to choose from, depending on air conditioning needs in a facility

**(4) Intelligent refrigerant control for greater comfort**

As indoor units of previous-generation models are designed to keep airflow at a predetermined temperature even when the room temperature gets closer to the user-set temperature, the room tends to become too warm or cool to be comfortable. The newly developed intelligent refrigerant control incorporated into the J series models enables finer temperature control of airflow from the indoor unit, resulting in a more comfortable room environment.

Comparison of fluctuations in room temperature between a new J series model and a previous-generation model



The range of fluctuations is smaller in a J series model than its predecessor, resulting in greater comfort.

**Daisy-Chain Configuration of Outdoor Units of V Series Models Meets Diverse Air Conditioning Needs in Larger Buildings**

**(1) The wider capacity range of indoor units can be connected to an outdoor unit. V Series enable partial air conditioning within a building**

When one of the tenants of a large commercial building pre-opens before the grand opening, air conditioning needs to be provided only to that part of the building. Previous-generation models of our air conditioners require that connected indoor units have a combined cooling and heating capacity equivalent to 50% or greater that of the outdoor unit in order to provide partial air conditioning within a building. Our new V series models can provide partial air conditioning when a combined capacity of connected indoor units corresponds to only 25% or more of an outdoor unit’s capacity. This is the smallest percentage in the industry<sup>2</sup> and offers greater versatility in facility design.

For instance, when a single 18 HP (50.0 kW) outdoor unit is installed in a commercial building under construction, it can provide partial air conditioning to a particular zone having one 3.6 kW ceiling cassette indoor unit and two 4.5 kW units, with a total capacity of 12.6 kW, or 25% of the outdoor unit’s capacity.

2. As of May 18, 2020. Source: Fujitsu General Limited



**(2) A single outdoor unit can drive more indoor units than a previous-generation unit, offering greater flexibility in facility design**



As is the case with the new J series models, we redesigned the heat exchanger in the indoor units for the V series air conditioners to enable a single outdoor unit to drive more indoor units connected to it.



Outdoor units of the V series models, whose rating capacity ranges from 8 HP to 16 HP, can drive maximums of 17 to 34 indoor units respectively. In addition, multiple outdoor units of V series models can be daisy-chained to drive even more indoor units. For instance, three 16 HP outdoor units with a total of 48 HP can be daisy-chained to drive up to 64 indoor units connected to them. V series models offer greater flexibility in facility design, allowing the choice of indoor units that meet individual needs of hotels and commercial buildings.



**(3) Intelligent refrigerant control for greater comfort**

As is the case with the new J series models, V series models are capable of finer temperature control of airflow from the indoor unit to provide a more comfortable room environment.

**Main Specifications and Availability of J Series and V Series Models**

Series	J-IVS			J-IV					
Model	AJY040LCLBH	AJY045LCLBH	AJY054LCLBH	AJY040LBLBH	AJY045LBLBH	AJY054LBLBH	AJY040LELBH	AJY045LELBH	AJY054LELBH
Photograph									
Power source	Single phase, 230 V, 50 Hz			Single phase, 230 V, 50 Hz			3 phase 4 wire, 400 V, 50 Hz		
Rating capacity	4 HP	5 HP	6 HP	4 HP	5 HP	6 HP	4 HP	5 HP	6 HP
Cooling capacity (kW)	12.1	14.0	15.1	12.1	14.0	15.5	12.1	14.0	15.5
Nominal heating capacity (kW)	12.1	14.0	15.1	12.1	14.0	15.5	12.1	14.0	15.5
Maximum heating capacity (kW)	13.6	16.0	16.5	13.6	16.0	18.0	13.6	16.0	18.0
Maximum static pressure (Pa)	25	25	25	30	30	30	30	30	30
Number of connectable indoor units	1-11	1-12	1-13	1-11	1-12	1-14	1-11	1-12	1-14
Dimensions of outdoor unit (mm)	H 998 x W 970 x D 370			H 1,334 x W 970 x D 370					
Availability	May 2020			May 2020					

Series	J-IVL					
Model	AJY072LELBH	AJY090LELBH	AJY108LELBH	AJY126LELBH	AJY144LELBH	AJY162LELBH
Photograph						
Power source	3 phase 4 wire, 400 V, 50 Hz					
Rating capacity	8 HP	10 HP	12 HP	14 HP	16 HP	18 HP
Cooling capacity (kW)	22.4	28.0	33.5	40.0	45.0	50.0
Nominal heating capacity (kW)	22.4	28.0	33.5	40.0	45.0	50.0
Maximum heating capacity (kW)	25.0	31.5	37.5	45.0	50.0	55.0
Number of connectable indoor units	30	30	40	60	60	60
Maximum static pressure (Pa)	1-20	1-25	1-30	1-36	1-40	1-42
Dimensions of outdoor unit (mm)	H 1,428 x W 1,080 x D 480			H 1,638 x W 1,080 x D 480		
Availability	May 2020					

Series	VR-IV				
Model	AJY072GALBH	AJY090GALBH	AJY108GALBH	AJY126GALBH	AJY144GALBH
Photograph					
Power source	3 phase 4 wire, 400 V, 50 Hz				
Rating capacity	8 HP	10 HP	12 HP	14 HP	16 HP
Cooling capacity (kW)	22.4	28.0	33.5	40.0	45.0
Nominal heating capacity (kW)	22.4	28.0	33.5	40.0	45.0
Maximum heating capacity (kW)	25.0	31.5	37.5	45.0	50.0
Number of connectable indoor units	2-17	2-21	2-26	2-30	2-34
Dimensions of outdoor unit (mm)	H 1,690 x W 930 x D 765			H 1,690 x W 1,240 x D 765	
Availability	May 2020				