

[PRESS RELEASE]  
 (Air conditioning system for overseas)

March 30, 2018  
 Fujitsu General Limited  
 (No. 17-N09-42)

**Release of the AIRSTAGE® J-III L Series Multi Air Conditioners for Shops and Offices in Europe**

Realization of the Industry's Smallest\*<sup>1</sup> Compact Outdoor Units in the 16 HP Class

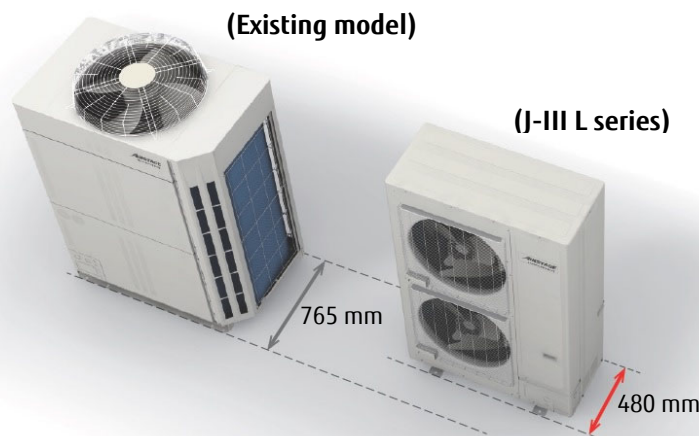
Fujitsu General has added the new J-III L series models, including the industry's smallest\*<sup>1</sup> size outdoor unit in the 16 HP class, to our AIRSTAGE multi air conditioners for shops and offices that are compact and offer a high degree of freedom in terms of construction. We will release these series in the European market in April.

Adding these large capacity 14/16 HP models to our lineup will further expand the range of our outdoor unit combinations and will allow us to support various size air conditioning systems.

There are constraints on the places where outdoor units can be installed in urban areas in Europe due to the European Landscape Convention. There is a requirement to install outdoor units in places that do not directly catch attention, such as between buildings, in narrow spaces (e.g. balconies) and in places covered by external louvers.

To meet these needs, Fujitsu General launched 4 to 6 HP models in the J series in 2012 and 8 to 12 HP models in September 2017 in the European market. We expect that sales of the J series in this fiscal year will increase significantly by 1.6-fold compared to the previous fiscal year on the basis of the number of outdoor units.

We will launch the 14/16 HP models in this release with the aim of further increasing our sales in the European market in FY2018.



**Industry's smallest compact outdoor unit AIRSTAGE J-III L series 14/16HP (Photo: Right)**

**Main Features**

- 1. Realizes the industry's smallest\*<sup>1</sup> compact outdoor units in the 16 HP class**
- 2. Achieves a low noise of 77 dB at the top of the industry\*<sup>2</sup> in the 16 HP class**
- 3. Realizes an approximately 14% reduction in refrigerant to comply with the EN-378 safety standard\*<sup>3</sup> in Europe**

\*1: As of March 30, 2018, according to research by our firm in the 16 HP class, 1,638 mm (H) × 1,080 mm (W) × 480 mm (D)

\*2: As of March 30, 2018, according to research by our firm, the noise value of 77 dB is the figure according to the sound power level.

\*3: EN-378 standard: This standard ensures compliance with the various directives in the EU by providing the safety requirements for design, construction and handling across all refrigeration systems in the safety standards in Europe.

\* "AIRSTAGE" is a registered trademark of Fujitsu General Limited.

## Contact details

Public & Investor Relations Division <https://www.fujitsu-general.com/global/contact/press.html>

## Main Features of the AIRSTAGE J-III L (14/16 HP)

### 1) Realizes the industry's smallest\*<sup>1</sup> compact outdoor units in the 16 HP class

In addition to changing the outdoor unit heat vent from a vertical blowing type to a horizontal blowing two-fan type, we have optimized the components such as our unique high density heat exchangers and kept the depth of the outdoor units to 480 mm. This has allowed us to achieve compact outdoor units that are the smallest in the industry\*<sup>1</sup> in the 16 HP class. We have reduced constraints in construction by decreasing the installation area by approximately 45% compared to existing models and making it simpler to place in elevators when bringing these models into buildings. This has made it easier to install in places that do not directly catch attention, such as between buildings, in narrow spaces (e.g. balconies) and in places covered by external louvers. Furthermore, these models can also be installed in places with external louvers to support blowing resistance up to 60 Pa for the static pressure. With these efforts, we have expanded the choices of installation layout for small shops and offices and increased the degree of freedom in terms of facility design.



AIRSTAGE J-III L series model installed on a balcony covered by an external louver (Image)



The performance of these models is unlikely to be reduced even if they are covered with external louvers because they support up to 60 Pa for the resistance of the blowing from the fan.

\*1: As of March 30, 2018, according to research by our firm in the 16 HP class, 1,638 mm (H) × 1,080 mm (W) × 480 mm (D)

## 2) Achieves a low noise of 77 dB at the top of the industry\*2

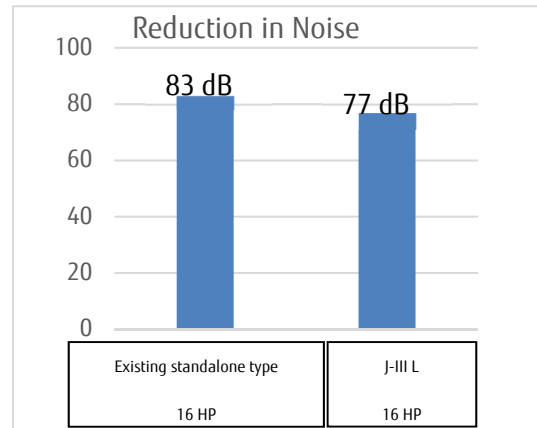
In addition to using a unique propeller-shaped outdoor unit fan and increasing the size to a diameter of 570 mm, we have equipped a large capacity scroll compressor to achieve a low noise of 77 dB at the top of the industry.\*2 Furthermore, if there is a need to suppress noise (e.g. at night), a low noise mode can be set to operate at a maximum of 70 dB.

Propeller-shaped Outdoor Unit Fan

← Ø570 mm →



Scroll Compressor



\*2: As of March 30, 2018, according to research by our firm, the noise value of 77 dB is the figure according to the sound power level.

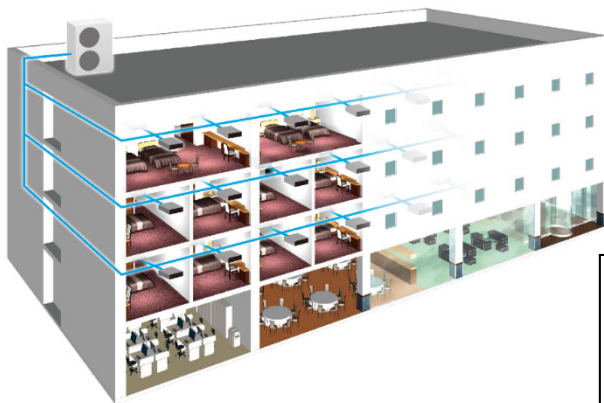
## 3) Reduction of Refrigerant Amount

We have achieved an approximately 14% reduction in refrigerant by reviewing the outdoor unit heat exchanger structure and capacity to comply with the EN-378 safety standard\*3 in Europe. (In the case of a system comprised of 40 indoor units, we have reduced the amount of refrigerant used from the 28.9 kg to 24.8 kg.)

\*3: EN-378 standard: This standard ensures compliance with the various directives in the EU by providing the safety requirements for design, construction and handling across all refrigeration systems in the safety standards in Europe.

## 4) Increase in the number of connectable indoor units to one outdoor unit to up to 40

In the case of the 16 HP model, up to 40 indoor units can be connected to one outdoor unit. This has improved the degree of freedom in terms of design according to the form of use to respond to various indoor unit installation variations to suit the arrangements of hotels, shops and restaurants.



These models support various indoor unit installation variations to suit the arrangements of small rooms in hotels, shops and restaurants.

## Main Specifications, Release Date and Number of Production Units

### ■ AIRSTAGE J-III L Series Outdoor Units

Product	AIRSTAGE J-III L	
Model	AJY126LELAH	AJY144LELAH
Horsepower (HP)	14	16
Power source	3-phase / 400V / 50Hz	
Cooling capacity (kW)	40.0	45.0
Cooling EER* <sup>4</sup> (W/W)	3.30	3.01
Heating capacity (kW)	40.0	45.0
Heating COP* <sup>4</sup> (W/W)	3.81	3.50
Noise value (Sound power level: dB)	75	77
Dimensions (H × W × D) (mm)	1,638 × 1,080 × 480	
Weight (kg)	213	
Release date	April 2018	
Number of production units	2,000 systems	

\*4: The energy efficiency (EER and COP) values are the figures when a wall mounted or cassette type is combined with indoor units.