

HEAT PUMP
VRF CATALOGUE
 Variable Refrigerant Flow System

Fujitsu General (Thailand) Co., Ltd.



ISO 9001 Certification number: 01 100 075229
 ISO 14001 Certification number: 01 104 9245

Fujitsu General (Shanghai) Co., Ltd.



ISO 9001 Certification number: 01 100 79369
 ISO 14001 Certification number: CNB31246-UK

Fujitsu General Central Air-conditioner (Wuxi) Co., Ltd.



ISO 9001 Certification number: 1591702007395M
 ISO 14001 Certification number: 15918120021855M

- The products and equipment listed in this catalog contain fluorinated greenhouse gases.
- "AIRSTAGE" is a worldwide trademark of Fujitsu General Limited and is a registered trademark in Japan and other countries and regions.
- "Pda" is a worldwide trademark of Fujitsu General Limited.
- iPhone and iPod touch are trademarks of Apple Inc., registered in the United States and other countries.
- "Microsoft," "Windows," and "Direct X" are trademarks of Microsoft Corporation in the United States and other countries.
- "Intesis" is a registered trademark of HMS Industrial Networks in the European Union and is trademarked in the rest of the world.
- "IntesisHome" is a registered trademark of Intesis Software S.L.
- "BACnet" is a trademark and registered trademark of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.
- "MODBUS" is a registered trademark of Schneider Electric.
- "LOWORKS" and "Echelon" are trademarks of Echelon Corporation registered in the United States and other countries.
- "Adobe" and "Acrobat Reader" are either registered trademarks or trademarks of Adobe in the United States and/or other countries.
- "Android" is a trademark of Google LLC.
- Other company and product names mentioned in this document may be the registered trademarks, trademarks or trade names of their respective owners.
- Actual products' colors may be different from the colors shown in this printed material.

Distributed by:



FUJITSU GENERAL LIMITED
 3-3-17, Suenaga, Takatsu-ku, Kawasaki, Kanagawa, 213-8502, Japan
www.fujitsu-general.com



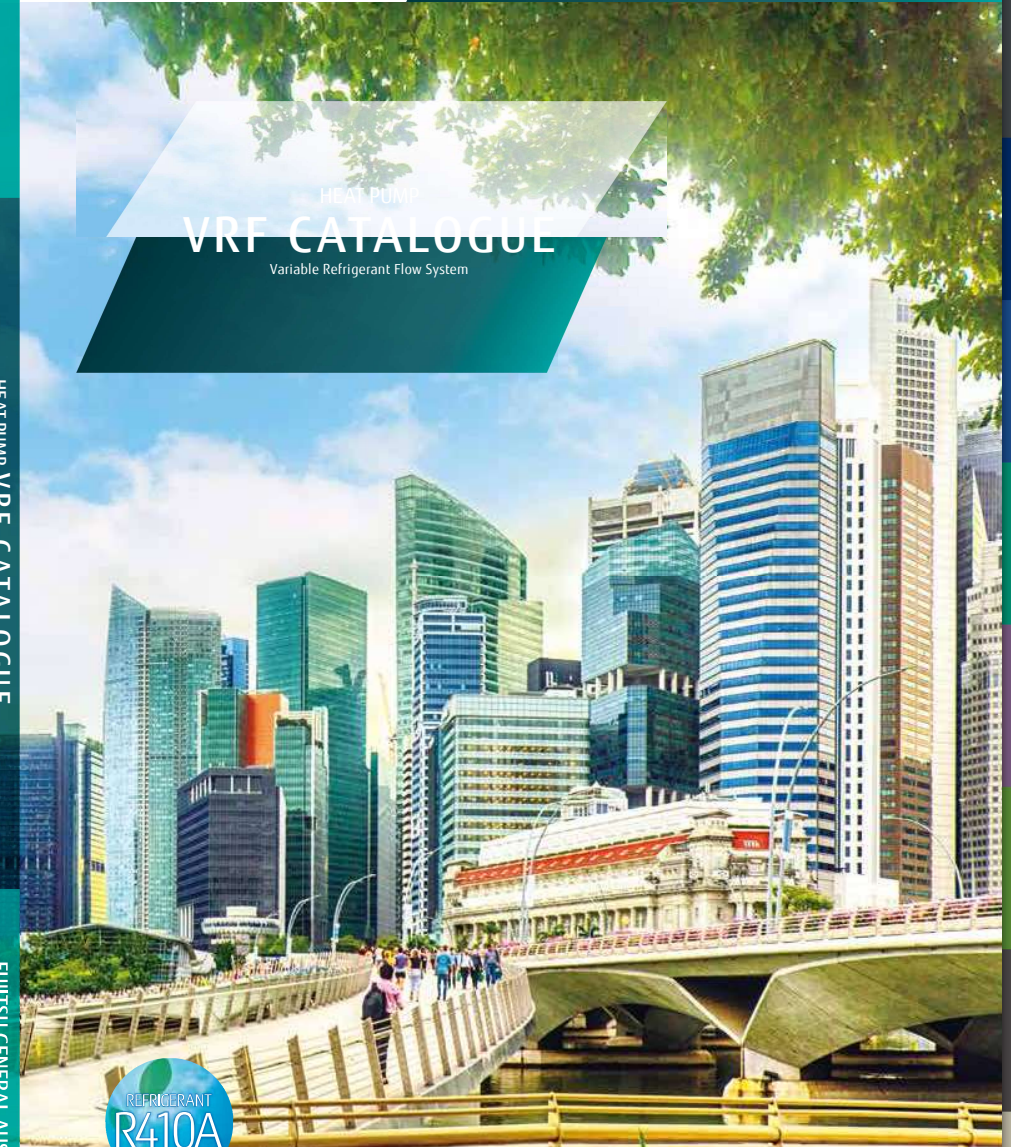
Copyright© 2013-2023 Fujitsu General Limited. All rights reserved. 6AF009-2303E

FUJITSU

HEAT PUMP
VRF CATALOGUE
 Variable Refrigerant Flow System

HEAT PUMP VRF CATALOGUE

FUJITSU GENERAL AUSTRALIA



REFRIGERANT
R410A

INVERTER

FUJITSU GENERAL LIMITED

OUR MESSAGE

SOLUTIONS

CORE TECHNOLOGY

AIRSTAGE™ SERIES

INDOOR UNITS

VENTILATION

CONTROL SYSTEMS

OPTION

SUPPORT

HEAT PUMP TYPE VRF J-IIS Series

Fujitsu General provides air conditioning systems for a wide range of applications from small office buildings and stores to large houses.

System Outline

Space saving and low sound level design

Economical individual air conditioning is realized by ALL-DC technology, large capacity DC twin rotary compressor, and 3-row heat exchanger though the size is compact.

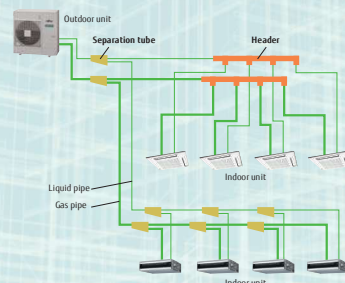
Flexible systems for homes, shops, small-size buildings air conditioning

Due to compact size design and flexible piping design, J-IIS series can be installed easily at the place where the installation space is limited such as homes, shops, and small offices. Multiple indoor units of various capacities and types can be connected.

Large Homes

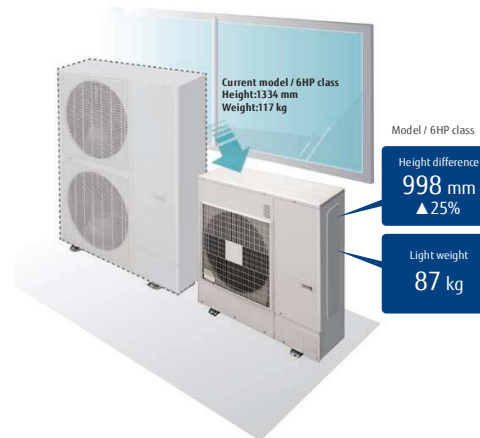


System configuration example



Features

It Can be Easily Carried and Installed in Obscure Place



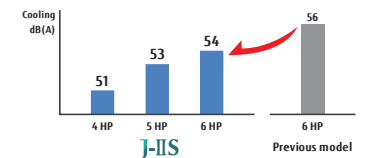
Small and light weight outdoor unit

This model is much more compact than conventional 6HP comparable outdoor units. Even when installed on the balcony it fits within the height of the fence. The compact size with a height of less than 1 m allows it to be installed under windows and in tight spaces.



Low sound level design

Significantly low sound level is improved by using DC twin rotary compressor, inverter technology, and advanced airflow structure design.



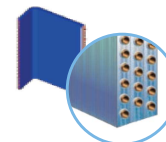
Advanced high efficiency technology



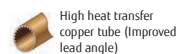
Large propeller fan
High performance and low noise realized by large propeller and optimization of angle.



DC fan motor
Miniaturized, low noise, high efficiency, multi-stage DC fan motor is mounted.



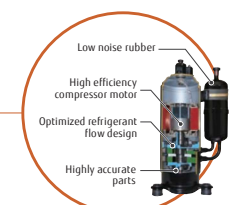
Large heat exchanger
Heat exchange performance is substantially improved by mounting of 3-row large heat exchanger.



High heat transfer copper tube (Improved lead angle)



DC inverter control
Efficiency is improved by mounting of new active filter module.

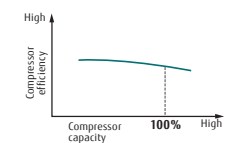
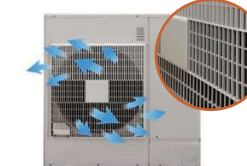


Compact and high performance DC twin rotary compressor

Efficiency in all load regions is good. Especially good performance from low to medium at normal operation.

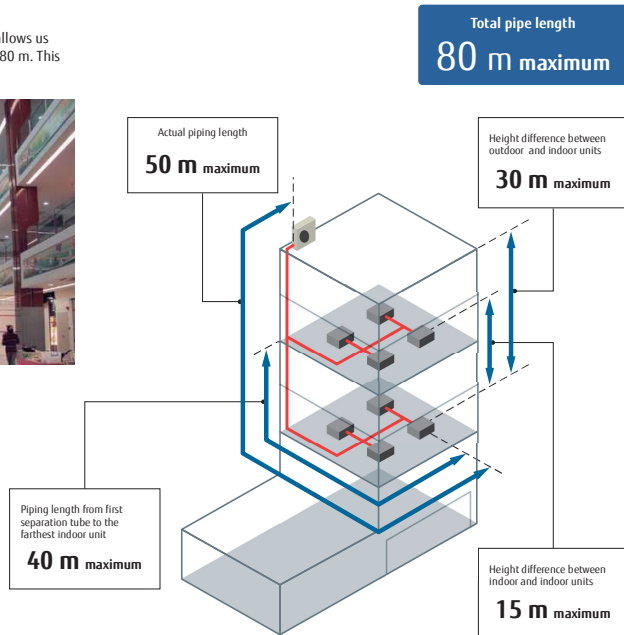
Smooth airflow grille

This grille was aerodynamically designed for good efficiency with little blow loss.



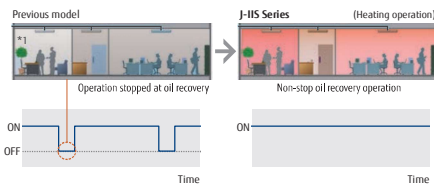
Long Piping Length

Our advanced refrigerant control technology allows us to achieve a total refrigerant piping length of 80 m. This opens up new possibilities in system design.



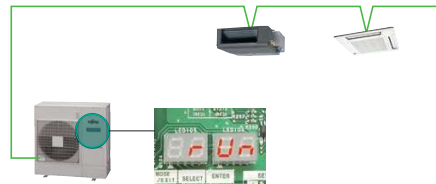
Non-stop oil recovery operation

A comfortable room condition is maintained during oil recovery mode because the product continues to operate without stopping the cooling or heating operation.



Easier Installation

Connection check function : Possible to confirm whether wiring connection and address setting are correct by a quick check run function.



- Display connected indoor unit numbers
- Duplicately set address number of indoor unit can be displayed

Specifications

Rating Capacity range		HP	4	5	6
Model name			AJY040LCLAH	AJY045LCLAH	AJY054LCLAH
Maximum Connectable Indoor Unit			7	8	8
Power source			Single phase, -230V, 50Hz		
Capacity	Cooling	kW	12.1	14.0	15.1
	Heating	kW	13.6	16.0	16.5
Input power	Cooling	kW	3.44	4.43	5.03
	Heating	kW	3.09	3.93	4.11
EER	Cooling		3.52	3.16	3.00
	Heating		4.40	4.07	4.01
CDP			4.040	4.200	4.200
Air flow rate		m ³ /h	51 / 67	53 / 69	54 / 70
Sound pressure level / Power level	Cooling	dB (A)	54 / 68	55 / 69	56 / 70
	Heating				
Heat exchanger fin			Blue fin	Blue fin	Blue fin
Dimensions	Height	mm	998	998	998
	Width	mm	970	970	970
	Depth	mm	370	370	370
Weight		kg	86	86	87
	Type (Global Warming Potential)		R410A (2,088)	R410A (2,088)	R410A (2,088)
Refrigerant	Charge	kg(CO ₂ e-1)	4.0 (8.4)	4.0 (8.4)	4.0 (8.4)
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52
	Gas	mm	15.88	15.88	15.88
Total pipe length		m	80	80	80
Max. Height difference	Cooling	°C	-5 to 46	-5 to 46	-5 to 46
	Heating		-20 to 21	-20 to 21	-20 to 21

Note : Specifications are based on the following conditions.
 Cooling : Indoor temperature of 27°CDB / 19°CWB, and outdoor temperature of 35°CDB / 24°CWB.
 Heating : Indoor temperature of 20°CDB / 15°CWB, and outdoor temperature of 7°CDB / 6°CWB.
 Pipe length : 7.5 m; Height difference between outdoor unit and indoor unit : 0 m.
 The protective function may work when using it outside the operation range.

Dimensions

Models : AJY040LCLAH / AJY045LCLAH / AJY054LCLAH

(Unit : mm)

