

From city to oasis, and for a sustainable future



INVERTER



8 / 10 / 12HP models



14 / 16HP models

Đại diện chính thức hãng Fujitsu General tại Việt Nam:

CÔNG TY TNHH THƯƠNG MAI GAV VIỆT NAM

Trụ sở tại Thành Phố Hồ Chí Minh

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VPĐD tai Hà Nội

Tòa nhà Âu Việt, số 1A đường Lê Đức Thọ, Phường Mai Dịch, Quận Cầu Giấy, TP Hà Nội
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Smart, cutting-edge design with an extensive lineup from 8HP to 80HP with the capacity ratio of indoor units connectable up to 150%.

51 models ranging from 8 to 80HP

- Standard combination: 37 models from 8 to 80HP
 - Energy efficient combination: 14 models from 16 to 44HP

Cooling Only type

VRF VC-V Series

System configuration example

- This system is used for medium and large-sized buildings. Connecting each outdoor unit makes it possible to create a high capacity system.
 - Connection of multiple indoor units using separation tubes and headers



Wide lineup of 51 models from 8 to 80HP

Standard combination improvement

New range

Energy saving technology that boosts operation efficiency

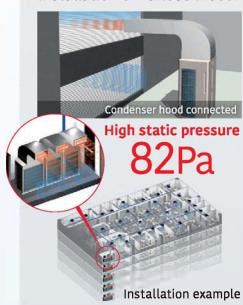
Powerful large propeller fan

By using CFD¹ technology, a newly designed fan achieves high performance and low noise operation.

¹C.F.D.=Computational Fluid Dynamics

High system flexibility

The industry-leading high static pressure, long pipe design, and connection capacity, enable flexible installation on each floor and installation of various indoor units.



Subcool heat exchanger

High Heat Exchange efficiency is achieved by using an internal projection shape double pipe construction.



3 phase DC fan motor

Efficiency is substantially improved by high efficiency motor with sophisticated driver control. In addition, low noise is realized by DC fan motor.



4-face heat exchanger

*14-20HPonly

Heat exchange efficiency is significantly improved by the introduction of a 4-face heat exchanger that increases effective surface area.

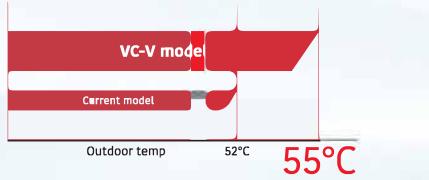


High Performance Scroll Compressor

The combination of a scroll compressor and our proprietary sensorless sine wave control that smoothly controls the input power into the motor can achieve a wider rotational frequency range from 15 to 120rps, resulting in high energy-efficiency and quieter operation.

Wide operating range

Designed to perform at ambient temperatures as high as 55°C. Installation in extreme temperature conditions is possible due to an increased operational range.



Intelligent refrigerant control

Fujitsu General is proposing outdoor units equipped with refrigerant control function. The refrigerant control operates with suitable control corresponding to the heat load of the room and offers a more comfortable environment. The refrigerant control also provides increased energy savings.

New model (VC-V)



Class leading High energy efficiency

The use of our proprietary heat exchanger structure and high-efficiency Scroll compressors achieves class leading Energy Efficiency Ratio (EER) in every combination.

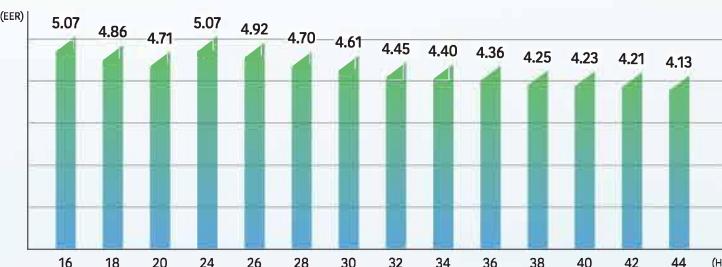
Class leading High EER

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Energy Efficiency combinations



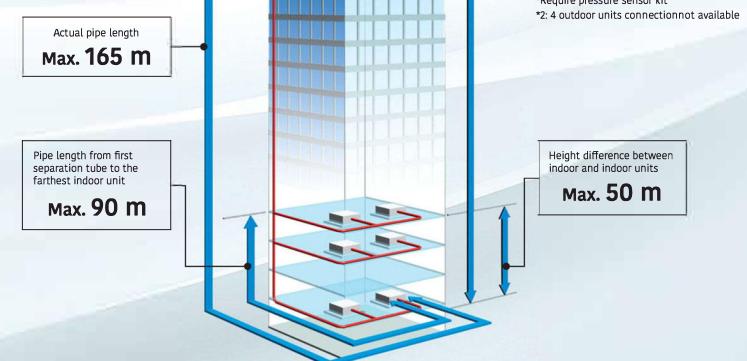
Energy Efficiency combinations



Overall piping length Max. 1,000 m

World's top class overall piping length of 1,000 m allows for application in a wide variety of buildings.

*700m in case of single outdoor unit



Outdoor units lineup

Combinations other than the followings are not recommended.

INVERTER  R410A

Standard combination

22.4 kW (8HP)  AJG072JATAH UNIT : AJG072JATAH	28.0 kW (10HP)  AJG090JATAH UNIT : AJG090JATAH	33.5 kW (12HP)  AJG108JATAH UNIT : AJG108JATAH	40.0 kW (14HP)  AJG126JATAH UNIT : AJG126JATAH	45.0 kW (16HP)  AJG144JATAH UNIT : AJG144JATAH	50.0 kW (18HP)  AJG162JATAH UNIT : AJG162JATAH
56.0 kW (20HP)  AJG180JATAH UNIT : AJG180JATAH	61.5 kW (22HP)  AJG198JATAH UNIT : AJG108/090JATAH	67.0 kW (24HP)  AJG216JATAH UNIT : AJG108/090JATAH	73.5 kW (26HP)  AJG234JATAH UNIT : AJG108/108JATAH	78.5 kW (28HP)  AJG252JATAH UNIT : AJG144/108JATAH	83.5 kW (30HP)  AJG270JATAH UNIT : AJG162/108JATAH
90.0 kW (32HP)  AJG288JATAH UNIT : AJG144/144JATAH	95.0 kW (34HP)  AJG306JATAH UNIT : AJG162/144JATAH	100.0 kW (36HP)  AJG324JATAH UNIT : AJG162/162JATAH	106.0 kW (38HP)  AJG342JATAH UNIT : AJG180/162JATAH	112.0 kW (40HP)  AJG360JATAH UNIT : AJG180/180JATAH	117.0 kW (42HP)  AJG378JATAH UNIT : AJG162/108JATAH
123.0 kW (44HP)  AJG396JATAH UNIT : AJG180/108/108JATAH	130.0 kW (46HP)  AJG414JATAH UNIT : AJG162/126/126JATAH	135.0 kW (48HP)  AJG432JATAH UNIT : AJG162/144/128JATAH	140.0 kW (50HP)  AJG450JATAH UNIT : AJG162/162/128JATAH	145.0 kW (52HP)  AJG468JATAH UNIT : AJG162/162/144JATAH	150.0 kW (54HP)  AJG486JATAH UNIT : AJG162/162/162JATAH
156.0 kW (56HP)  AJG504JATAH UNIT : AJG180/162/162JATAH	162.0 kW (58HP)  AJG522JATAH UNIT : AJG180/109/162JATAH	168.0 kW (60HP)  AJG540JATAH UNIT : AJG180/160/160JATAH	173.0 kW (62HP)  AJG558JATAH UNIT : AJG180/162/108JATAH	179.0 kW (64HP)  AJG576JATAH UNIT : AJG180/108/108JATAH	183.5 kW (66HP)  AJG594JATAH UNIT : AJG162/162/162/108JATAH
189.5 kW (68HP)  AJG612JATAH UNIT : AJG180/162/108/108JATAH	195.5 kW (70HP)  AJG630JATAH UNIT : AJG180/162/108JATAH	201.5 kW (72HP)  AJG648JATAH UNIT : AJG180/180/180/108JATAH	206.0 kW (74HP)  AJG666JATAH UNIT : AJG180/162/162/162JATAH	212.0 kW (76HP)  AJG684JATAH UNIT : AJG180/180/180/162JATAH	218.0 kW (78HP)  AJG702JATAH UNIT : AJG180/180/180/162JATAH
224.0 kW (80HP)  AJG720JATAH UNIT : AJG180/180/180/180JATAH					

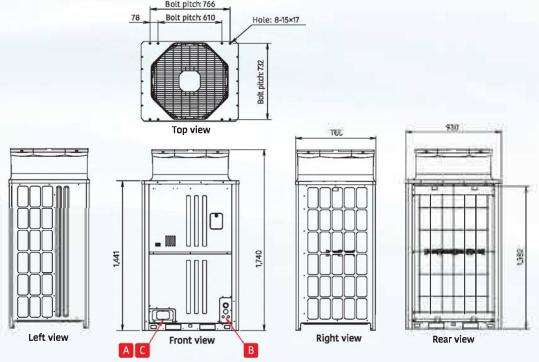
Energy efficiency combinations

44.8 kW (16HP)  AJG144JATAHH UNIT : AJG072/072JATAH	50.4 kW (18HP)  AJG162JATAHH UNIT : AJG090/072JATAH	56.0 kW (20HP)  AJG180JATAHH UNIT : AJG090/090JATAH	67.2 kW (24HP)  AJG216JATAHH UNIT : AJG072/072JATAH	72.8 kW (26HP)  AJG234JATAHH UNIT : AJG090/072/072JATAH	78.3 kW (28HP)  AJG252JATAHH UNIT : AJG100/072/072JATAH
83.9 kW (30HP)  AJG270JATAHH UNIT : AJG108/090/090JATAH	89.4 kW (32HP)  AJG288JATAHH UNIT : AJG108/090JATAH	95.0 kW (34HP)  AJG306JATAHH UNIT : AJG108/090JATAH	101.5 kW (36HP)  AJG324JATAHH UNIT : AJG126/090/090JATAH	107.0 kW (38HP)  AJG342JATAHH UNIT : AJG126/090/090JATAH	113.5 kW (40HP)  AJG360JATAHH UNIT : AJG126/090/090JATAH
120.0 kW (42HP)  AJG378JATAHH UNIT : AJG126/126/126JATAH	125.0 kW (44HP)  AJG396JATAHH UNIT : AJG144/126/126JATAH				

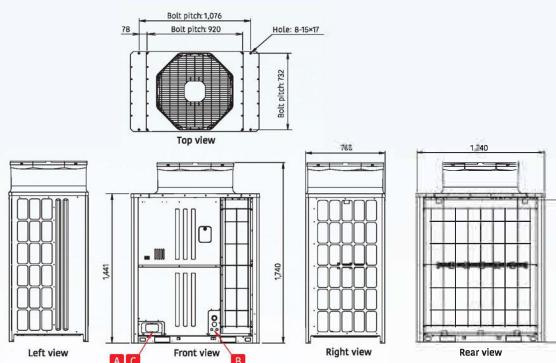
Dimensions

8,10,12HP : AJG072JATAH / AJG090JATAH / AJG108JATAH

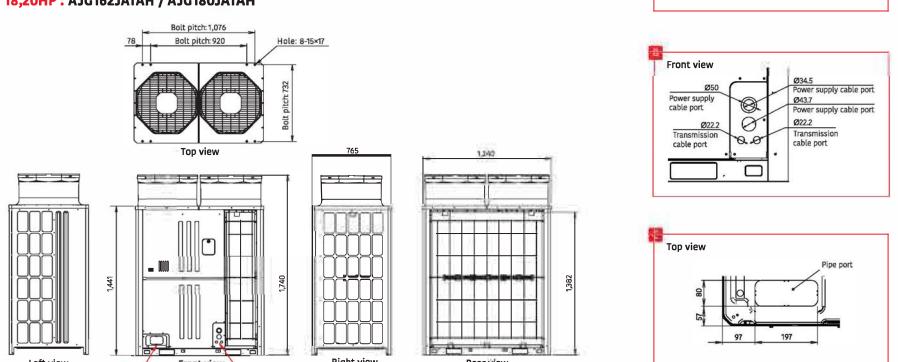
(Unit : mm)



14,16HP : AJG126JATAH / AJG144JATAH



18,20HP : AJG162JATAH / AJG180JATAH



Front view

Top view

Front view

Front view

VRF Indoor Unit Lineup

17 Types, 93 Models, Capacity range from 2.2kW to 28.0 kW

Capacity range (kW)	2.2	2.8	3.6	4.0	4.5	5.6	7.1	9.0	10.0	11.2	14.0	16.0	18.0	22.4	25.0	28.0	
Chassis type	Chassis Image	7.0	9.0	12.0	14.0	14.0	18.0	24.0	30.0	34.0	36.0	45.0	54.0	60.0	72.0	90.0	96.0
Medium static pressure duct		-	-	-	-	-	-	●	●	-	●	●	●	-	-	-	-
Medium static pressure duct High efficiency		-	-	-	-	-	-	●	●	-	-	-	-	-	-	-	-
High static pressure Duct		-	-	-	-	-	-	-	-	-	-	-	●	-	●	●	●
		-	-	-	-	-	-	-	-	-	-	●	-	-	-	-	●
Floor/Ceiling		-	-	●	-	●	●	●	-	-	-	-	-	-	-	-	-
Ceiling		-	-	-	-	-	-	-	●	-	●	●	●	-	-	-	-
Wall mount		●	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-
Wall mount		●	●	●	●	-	-	-	-	-	-	-	-	-	-	-	-
Large Wall mount		-	-	-	-	-	-	●	●	●	●	-	-	-	-	-	-

Outdoor air unit

Remote Controller

Controller type	Image	Model name	New C/O	V. III
Wired remote controller		UTY-RNRGZ+	●	●
Wired remote controller		UTY-RLRG	●	●
Wired remote controller		UTY-RVNGM	●	●
Wired remote controller		UTY-RCRGZ1	●	●
Group remote controller		UTY-CGGG	●	●
Simple remote controller		UTY-RSNGM	●	●
Simple remote controller		UTY-RSRG	●	●

Controller type	Image	Model name	New C/O	V-III
System controller		UTY-APGXZ1	●	●
Energy saving option		UTY-PEGXZ1	●	●
System controller Lite		UTY-ALGXZ1	●	●
Electricity charge apportionment		UTY-PLGXZ2	●	●
Remote management		UTY-PLGXZ2	●	●
Energy saving management		UTY-PLGXZ2	●	●
Service tool		UTY-ASGXZ1	●	●
Web monitoring tool		UTY-AMGXZ1	●	●
BACnet Gateway (Soft)		UTY-ABGXZ1	●	●
BACnet Gateway (Hard)		UTY-VBGX	●	●
Network convertor		UTY-VLGX	●	●

Controller type	Image	Model name	New C/O	V-III
Simple remote controller		UTY-RHRG	●	●
Wireless remote controller		UTY-LNHG	●	●
Wireless remote controller		UTY-LNTG	●	●
Central remote controller (8 rooms multi)		UTY-DMMGM	●	●
IR receiver unit		UTB-YWC UTB-TRHX	●	●
IR receiver unit		UTY-LBHGB1 UTY-LBXD	●	●

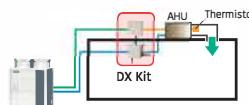
Controller type	Image	Model name	New C/O	V-III
MODBUS convertor		UTY-VMSX	●	●
MODBUS convertor		UTY-VMGX	●	●
KNX convertor		UTY-VKSX	●	●
KNX convertor		UTY-VKGX	●	●
Central remote controller		UTY-DCGGZ1	●	●
Wireless LAN interface		UTY-VTGX	●	●
External switch controller		UTY-TERK	●	●
Network convertor (DC supply)		UTY-VTGX	●	●
Network convertor (AC supply)		UTY-VTGXV	●	●
Signal amplifier		UTY-VSGXZ1	●	●

DX Kit for Air Handling Application for VRF Outdoor Unit

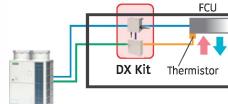


These kits enable other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu VRF system or, be connected to a dedicated Fujitsu VRF outdoor unit as a 1:1 system to control outside air ventilation (AHU) or room temperature (FCU).

Multiple temperature sensors optimally control the air handling unit and fan coil unit.



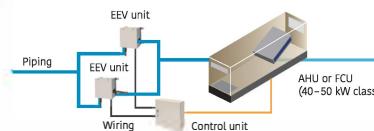
When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.



When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

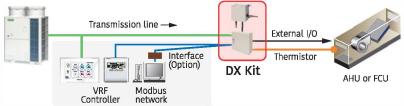
Supports a wide range of capacity classes

- 2 EEV units can be connected in parallel and up to 20 HP (50 kW) large capacity units. (Separation Tube of UTP-LX180A is required)
- Connectable capacity range: 5 kW to 50 kW

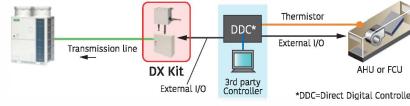


A variety of controls to match the application

Central control using our VRF controllers or central management controllers



Central control from external controllers



Functions Summary

Inputs

- ON/OFF
- Setting temperature
- Capacity demand
- Heating / Cooling operation mode
- Defrost indication
- Fault information

Outputs

- ON/OFF indication
- Fan ON/OFF indication
- Thermo ON/OFF indication
- Defrost indication
- Fault indication

MODBUS® Control

Possible to control via a MODBUS enabled BMS by using optional interface.

Installation Limitation

- Connectable VRF Series: All VRF Series
- Connectable DX Kit system capacity range: 50 to 100% of the outdoor unit capacity
- Connectable DX Kit system capacity range with indoor units: 30% or less of the outdoor unit capacity
- Max. wiring length from control unit: 10 m
- Max. piping length between EEV unit and indoor unit: 5 m
- Outdoor installation: Control unit (IP54 class) and EEV unit can be installed at an outdoor space.

Connectable capacity



For 2 EEV units connection (option) Separation Tube: UTP-LX180A



Piping and wiring length



Control unit: UTY-VDGX

EEV unit: UTP-VX30A / UTP-VX60A / UTP-VX90A



Specifications

Connectable Capacity class	5.0 kW		6.3 kW		8.0 kW		10.0 kW		12.5 kW		14.0 kW		20.0 kW		25.0 kW		40.0 kW		50.0 kW																		
	Cooling	Heating	KW		KW		KW		KW		KW		KW		KW		KW		KW																		
Capacity	5.6	6.3	8.0		10.0		12.5		14.0		22.4		25.0		40.0		50.4		56.5																		
Control unit																																					
UTY-VDGX																																					
Power source	V/Ø/Hz		230/50																																		
Dimensions (H x W x D)	mm		400 x 400 x 120																																		
EEV unit																																					
UTP-VX30A																																					
Connection pipe diameter (Liquid)	mm		Ø9.53																																		
Dimensions (H x W x D)	mm		Ø12.70																																		
UTP-VX60A																																					
UTP-VX90A																																					
UTP-VX90A-2																																					

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 Voltage: 230 [V].

Control System Overview

User's needs are supported by offering a variety of controls, such as individual control, central control and building management control options.

