

VENTILATION

Outdoor-air Processing Unit range

Airflow rate (m³/h)	1080	1680	2100
Model code	054	072	096
Outdoor-air Processing Unit	 ARXH054GTAH	 ARXH072GTAH	 ARXH096GTAH

DX Kit
for Air Handling Unit or Fresh Air Handling Unit application

Effective heat exchange and simultaneous fresh air ventilation

High Efficiency and low noise levels are achieved by using a highly efficient heat exchange process. A comfortable air conditioned space is achieved by conveniently selecting whether to use heat exchange or normal ventilation setting, according to the requirements of the conditioned space.

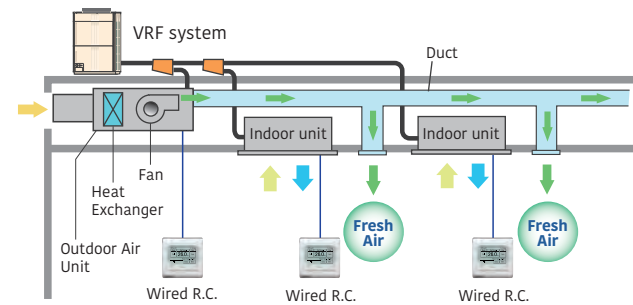
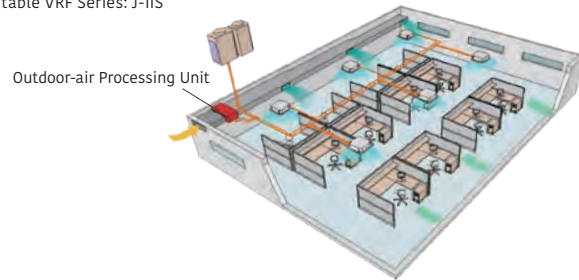
Outdoor-air Processing Unit



One VRF system can provide air conditioning and air supply at the same time.

Outdoor-air Processing Unit can be connected in a same VRF*1 system as one of indoor unit series and can create fresh and comfortable air supply together from our high advanced technology.

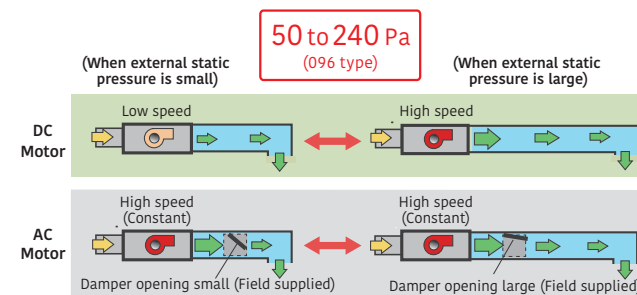
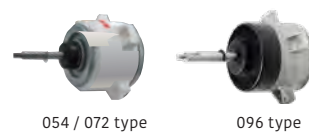
*1. Connectable VRF Series: J-IIS



* Make sure the connected capacity is within the range of 50% to 100% of the outdoor unit capacity. In addition, if there are mixed connections with indoor units, make the Outdoor-air Processing Unit connection capacity 30% or less of the outdoor unit capacity.

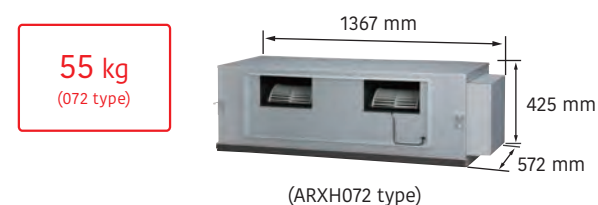
High energy savings and flexible duct design by using DC motor

- Greatly reduces electricity consumption by adopting permanent magnet compared to when using an AC motor.
- The image shows two different models of motor units. On the left is the '054 / 072 type', which has a grey plastic housing and a black central component. On the right is the '096 type', which has a similar design but with a slightly different housing shape and a more prominent black central part. Both units have a long, thin metal shaft extending from the front.
- Compared with AC motor, changing the speed makes it possible to respond flexibly to the external static pressure from 50 Pa to 240 Pa. Even if damper equipment is not used, static pressure can be adjusted and duct design is easy.
 - Static pressure can be set easily using wired remote controller.



Top class compact design

- Top class lightweight compact design at just 425 mm in height, 55 kg in weight for ARXH072 type. This unit can be installed easily even at narrow space.



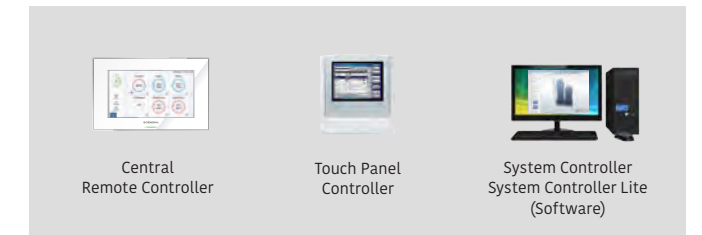
Various Controller

Supplied variety of controllers as options, such as individual controller, central controller, and building management controller.

Individual Controller



Central Controller



* The temperature setting is discharged air temperature setting. The air volume is set to a constant speed.

Model:

ARXH054GTAH / ARXH072GTAH / ARXH096GTAH

Production by order



ARXH054



ARXH072



ARXH096

Specifications

Rated flow rate			1000 m³/h	1500 m³/h	2000 m³/h
Model name			ARXH054GTAH	ARXH072GTAH	ARXH096GTAH
Power source		V/Ø/Hz	220-240V, 50Hz		
Capacity	Cooling	kW	14.0	22.4	28.0
	Heating		8.9	13.9	17.4
Input power	Cooling	W	179	292	370
	Heating		179	292	370
Airflow rate		m³/h	1,080	1,680	2,100
Static Pressure	Standard (range)	Pa	185 (50-185)	200 (50-200)	200 (50-240)
Sound Pressure Level		dB(A)	42	44	47
Dimensions (H × W × D)		mm	425 × 1,367 × 572	425 × 1,367 × 572	450 × 1,583 × 700
Weight		kg	48	55	71
Connection pipe diameter	Small	mm	9.52	12.70	12.70
	Large		19.05	22.22	22.22
Operating range	Cooling	°CDB	5 to 43	5 to 43	5 to 43
	Heating		-7 to 21	-7 to 21	-7 to 21
Refrigerant			R410A	R410A	R410A

Note : Specifications are based on the following conditions.

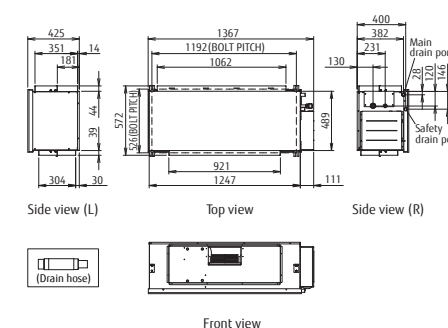
Cooling : Outdoor temperature of 33°CDB / 28°CWB.

Heating : Outdoor temperature of 0°CDB / -2.9°CWB

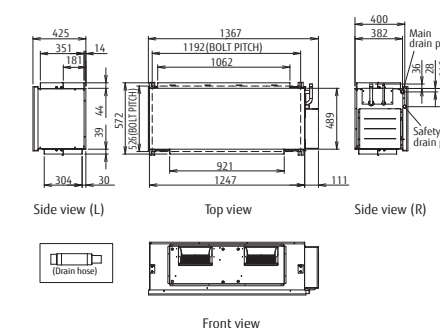
Pipe length : 7.5 m Voltage : 230 [V].

Dimensions (Unit: mm)

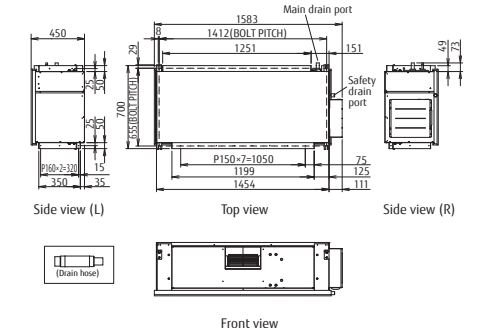
Model: ARXH054



Model: ARXH072



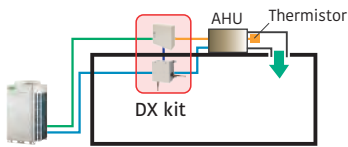
Model: ARXH096



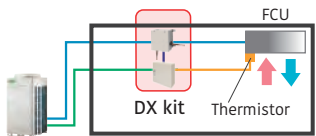
DX kit
for Air handling
applications
for VRF Outdoor unit



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

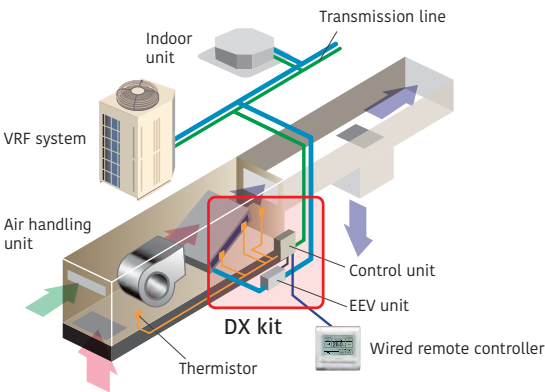


When connected to an Air handling unit, the temperature of supply air is controlled by a discharge air sensor.



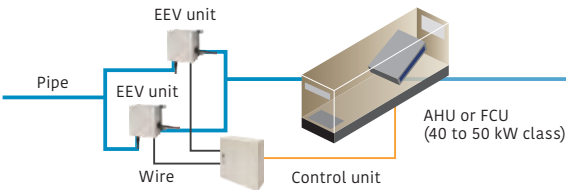
When connected to a fan coil unit, the room temperature is controlled by the discharge air sensor.

Application as part of a VRF system



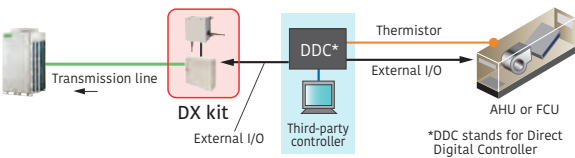
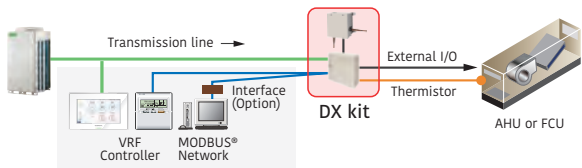
Supports a wide range of capacity classes

- Two EEV units can be connected in parallel to large-capacity units of up to 20 HP (50 kW). (UTP-LX180A separation tube 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



Summary of
functions

Inputs

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

Outputs

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

Modbus Control

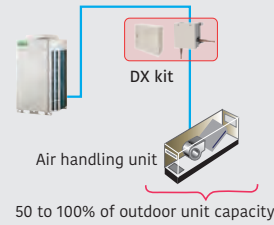
- Possible to control via a Modbus enabled BMS by using optional interface.

Installation requirements

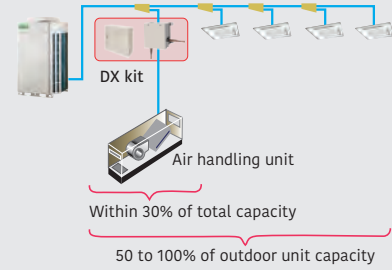
- Connectable VRF Series : All VRF
- Connectable DX Kit system capacity range : 50 to 100 % of the outdoor unit capacity
- Connectable DX Kit system capacity range with indoor units : 30 % or less of the outdoor unit capacity
- Max. wiring length from control unit : 10 m
- Max. piping length between 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

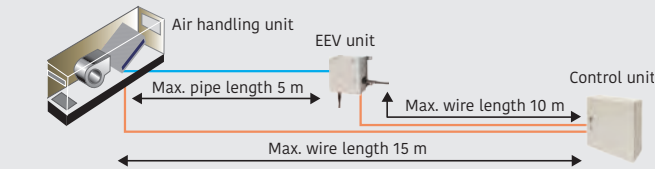
- Single connection



- Mixed connection



Pipe and wire length

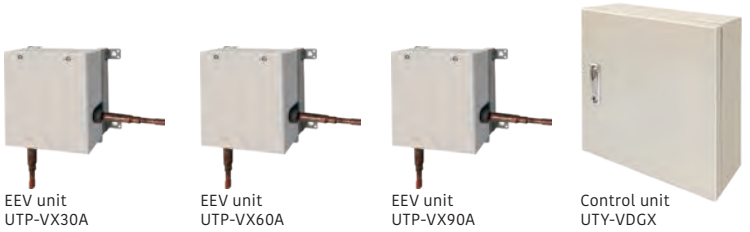


[For 2EEV units connection (option)]

- Separation Tube : UTP-LX180A



Control unit: UTY-VDGX
EEV unit: UTP-VX30A/UTP-VX60A/UTP-VX90A



Specifications

EEV unit			UTP-VX30A			UTP-VX60A			UTP-VX90A		UTP-VX90A×2		
Power source		V/Ø/Hz	230/1/50										
Connectable capacity class		kW	5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0	
Capacity	Cooling	kW	5.6 (5.1-5.9)	6.3 (6.0-7.1)	8.0 (7.2-9.0)	10.0 (9.1-11.1)	12.5 (11.2-13.2)	14.0 (13.3-18.0)	22.4 (18.1-23.7)	25.0 (23.8-28.0)	40.0 (28.1-44.7)	50.4 (44.8-50.4)	
	Heating		6.3 (5.7-6.7)	7.1 (6.8-8.0)	9.0 (8.1-10.0)	11.2 (10.1-12.4)	14.0 (12.5-15.0)	16.0 (15.1-20.0)	25.0 (20.1-26.5)	28.0 (26.6-31.5)	45.0 (31.6-49.9)	56.5 (50.0-56.5)	
Airflow Rate(Reference value)		m³/h	1,060	1,200	1,520	1,600	2,000	2,240	3,560	4,000	6,400	8,000	
Dimensions (H × W × D)		mm	160 × 220 × 90									(160 × 220 × 90)× 2	
Weight		kg	2									2 × 2	
Connection pipe diameter	Liquid	mm	9.52	9.52	9.52	9.52	9.52	9.52	12.70	12.70	12.70	12.70	

Control unit		UTY-VDGX	
Power source	V/Ø/Hz	230 / 1 / 50	
Dimensions (H × W × D)	mm	400 × 400 × 120	
Weight	kg	10	

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].