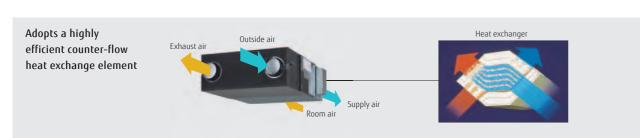


#### Features



## Heat exchange ventilation and normal ventilation

#### Heat exchange ventilation

When a room is cooled or heated, the exhausted cooling / heating energy is recovered by heat-exchange ventilation.

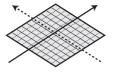
The operation is used during periods when the room space requires no cooling or heating effect, i.e. when there is minimal temperature difference between the indoor and outdoor environments.

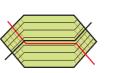
## Energy efficiency and ecology

Energy consumption is dramatically reduced by using a counter-flow heat-exchange element. Air conditioning load is reduced by approximately 20%, resulting in significant energy savings. Recovers up to 77% of the heat in the outgoing air.

## Features of heat exchange element

With the cross-flow element, air moves in a straight line across the element. With the counter-flow element, air flows through the element for a longer time (longer distance), so the heat-exchange effect remains unchanged.





(Counter-flow element)

Other element (Cross-flow element)

Quiet operation

Significantly reducing low pressure loss and noise allows low-noise operation.

## Extended range of an external static pressure

An external static pressure is improved by adopting a powerful fan motor. This allows for application in a wide variety building.

## Slim shape and easier installation

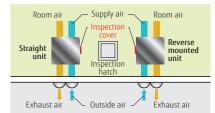
Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.



## Reverse mountable direct air supply / exhaust system

Adoption of straight air supply / exhaust system: Duct design is simplified because the air supply / exhaust ducts are straight.

Since each unit can be mounted in reverse position, only one inspection hole is needed for two units: Two units can share one inspection hole so duct work is easier and more flexible.



#### Model: UTZ-BD025B / UTZ-BD035B / UTZ-BD050B / UTZ-BD080B / UTZ-BD100B



UTZ-BD025B









UTZ-BD035B

UTZ-BD050B

UTZ-BD080B

250 m<sup>3</sup>/h 250 m<sup>3</sup>/h 500 m<sup>3</sup>/h 1000 m<sup>3</sup>/h

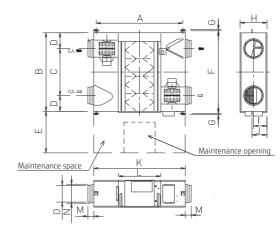
UTZ-BD100B

#### **Specifications**

Rated	flow rate			250 m³/h	350 m³/h	500 m³/h	800 m²/h	1000 m <sup>3</sup> /h		
Model	No.			UTZ-BD025B	UTZ-BD035B	UTZ-BD050B	UTZ-BD080B	UTZ-BD100B		
Power	source			220 - 240V, 50Hz						
	Input power	(Extra high)/High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311		
	Air flow rate	(Extra high)/High/Low	m³/h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1000 / 1000 / 700		
oge (	External static pressure	(Extra high)/High/Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75		
Heat Exchange Ventilation	Temperature Exchange Efficiency	(Extra high)/High/Low	%	75 / 75 / 77	75 / 75 / 78	75 / 75 / 76	75 / 75 / 76	75 / 75 / 79		
	Energy Exchange Efficiency Cooling	(Extra high)/High/Low	%	63 / 63 / 65	66 / 66 / 71	62 / 62 / 64	65 / 65 / 68	65 / 65 / 70		
	Energy Exchange Efficiency Heat pump	(Extra high)/High/Low	%	70 / 70 / 72	69 / 69 / 73	67 / 67 / 69	71 / 71 / 74	71 / 71 / 76		
	Sound pressure level	(Extra high)/High/Low	dB*	31.5 / 30.5 / 26.5	33 / 31 / 25.5	37.5 / 35.5 / 32.5	37.5 / 37 / 34.5	38.5 / 37.5 / 34.5		
	Input power	(Extra high)/High/Low	W	128 / 123 / 96	190 / 185 / 168	289 / 225 / 185	418 / 378 / 295	464 / 432 / 311		
Normal /entilation	Air flow rate	(Extra high)/High/Low	m³/h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1000 / 1000 / 700		
i Š	External static pressure	(Extra high)/High/Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75		
~ >	Sound pressure level	(Extra high)/High/Low	dB*	31.5 / 30.5 / 26.5	33 / 31 / 25.5	38.5 / 38 / 32.5	37.5 / 37 / 34.5	40.5 / 39.5 / 36.5		
Dimer	Dimensions W×D×H mm			882 x 599 x 270	1050 x 804 x 317	1090 x 904 x 317	1322 x 884 x 388	1322 x 1134 x 388		
Weight kg			29	49	57	71	83			
Outlet duct diameter mm			150	150	200	250	250			
Operation range °C			-10 to 40	-10 to 40	-10 to 40	-10 to 40	-10 to 40			
Maximum humidity %			85	85	85	85	85			
	,		1							

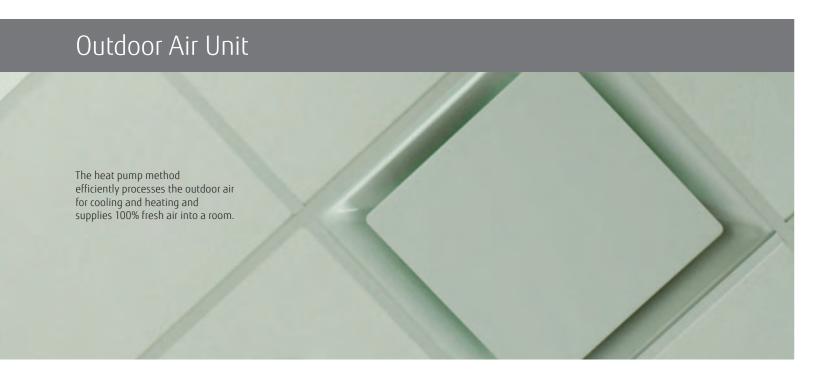
<sup>\*</sup> The noise level must be measured 1.5 m below the centre of the unit.

#### **Dimensions**



	UTZ-BD025B	UTZ-BD035B	UTZ-BD050B	UTZ-BD080B	UTZ-BD100B
Α	810	978	1018	1250	1250
В	599	804	904	884	1134
C	315	580	640	428	678
D	142	112	132	228	228
Е	600	600	600	600	600
F	655	860	960	940	1190
G	19	19	19	19	19
Н	270	317	317	388	388
ı	135	159	159	194	194
J	159	182	182	218	218
K	882	1050	1090	1322	1322
L	414	470	470	612	612
M	95	70	127	85	85
N	219	162	210	258	258
0	144	144	194	242	242

202 203

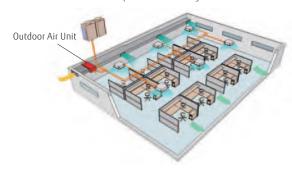


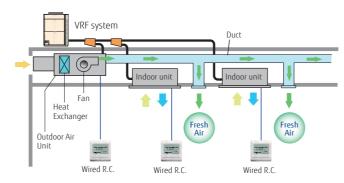
#### Features

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

Outdoor Air 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, J-II, V-II, VR-IIIn J-II series alone, OAU is prohibit to connect under the ambient temperature of 40°C or higher.

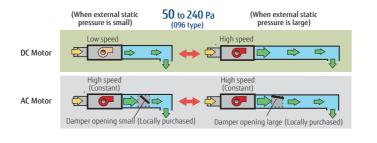




\* Make sure the connected capacity is within the range of 50% to 100% of the outdoor unit capacity. In addition, if there are mixed connections with indoor units, make the Outdoor Air Unit connection capacity 30% or less of the outdoor unit capacity.

# 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.
- 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





ARXH072GTAH



ARXH054GTAH

ARXH096GTAH

### Specifications

Model name			ARXH054GTAH	ARXH072GTAH	ARXH096GTAH	
Power source		V/Ø/Hz	230/1/50	230/1/50	230/1/50	
Canasiku	Cooling	kW	14.0	22.4	28.0	
Capacity	Heating	1 KW	8.9	13.9	17.4	
Input Power	Cooling/Heating	W	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			42	44	47	
Dimensions (H x W x D)			425×1,367×572	425×1,367×572	450×1,583×700	
Weight			48	55	71	
Connection Pipe Diameter (Small / Large)			Ø9.52/Ø19.05	Ø12.70/Ø22.22	Ø12.70/Ø22.22	
O	Cooling	0000	5 to 43	5 to 43	5 to 43	
Operation Range	Heating	°CDB	-7 to 21	-7 to 21	-7 to 21	
Refrigerant			R410A	R410A	R410A	

Note: Specifications are based on the following conditions.

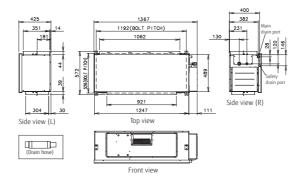
Cooling: Outdoor temperature of 33°CDB / 28°CWB. Heating: Outdoor temperature of 0°CDB / -2.9°CWB.

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

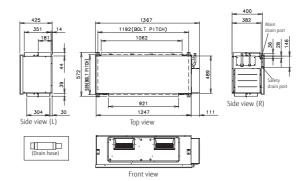
#### Dimensions

(Unit:mm)

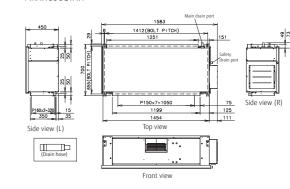
#### ARXH054GTAH



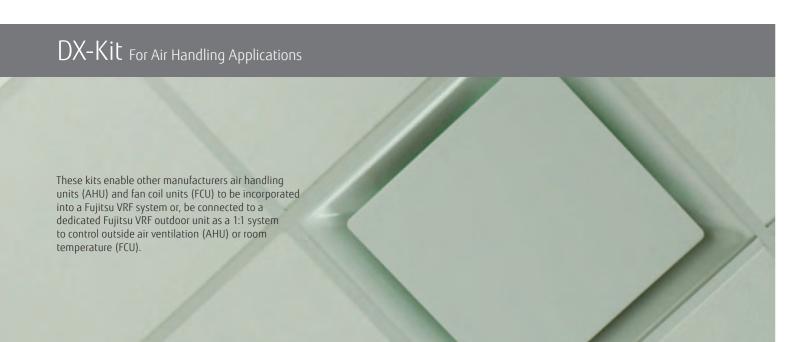
#### ARXH072GTAH



#### ARXH096GTAH

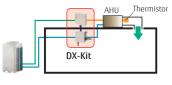


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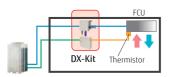


#### Features

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

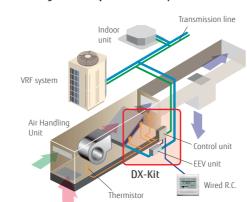


When connecting to an air handling unit, the supply air temperature is controlled by the discharge sensor.



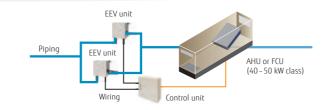
When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

#### Arrangement as part of a VRF system



## 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

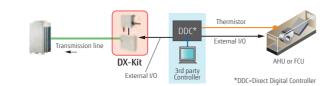


## A variety of controls to match the application

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
- Fault information

## Outputs

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

## MODBUS® Control

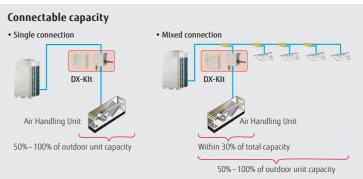
Possible to control via a MODBUS enabled BMS by using optional interface.

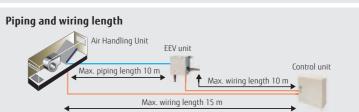
#### For 2EEV units connection (option) Separation Tube: UTP-LX180A



#### Installation Limitation

- Connectable VRF series: J-IIS, J-II, V-II, VR-II
- 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:
- Outdoor installation: Control unit (IP54 class) and EEV unit can be installed at an outdoor space.





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



#### **Specifications**

Connectable Capacity of	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		
Capacity	Cooling	LM	5.6	6.3	8.0	10.0	12.5	14.0	22.4	25.0	40.0	50.4
Capacity	Heating	KVV	6.3	7.1	9.0	11.2	14.0	16.0	25.0	28.0	45.0	56.5

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

EEV unit		UTP-VX30A	UTP-VX60A	UTP-VX90A	UTP-VX90A×2			
Connection pipe diameter (Liquid)		Ø9.53	Ø12.7	Ø12.7				
Dimensions (H × W × D)		160 × 220 × 90						

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].

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