

Residential, Commercial & Light Commercial VENTILATION

- 214 VENTILATION Lineup
- 216 Energy Recovery Ventilator
- 218 DX-Kit for Air Handling Application
 - for VRF Outdoor Unit
- 220 **New** DX-Kit for Air Handling Application
 - for Single Split Outdoor Unit

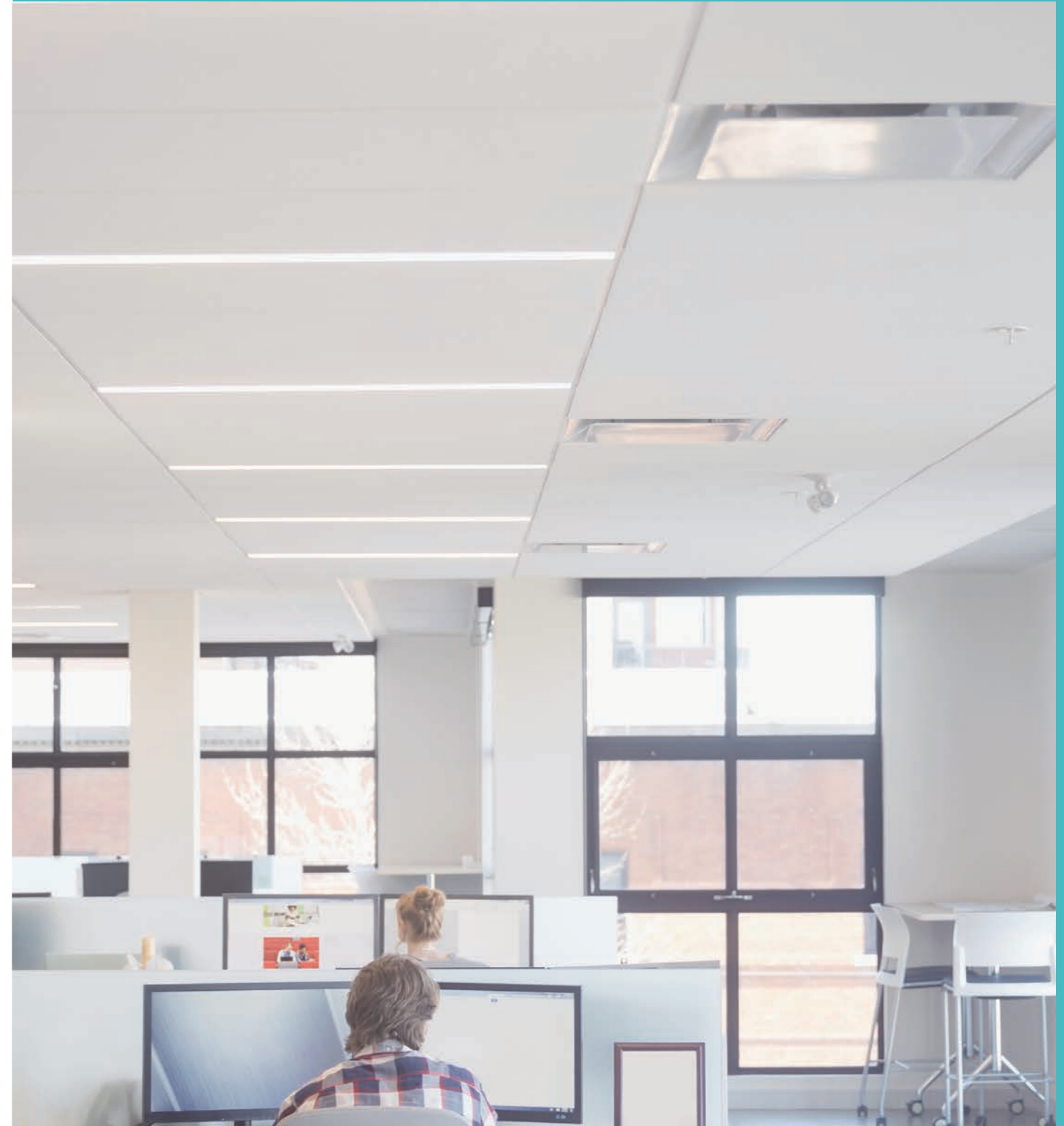


Lineup

Airflow rate (m³/h)	250		350		500		800		1000	
Energy Recovery Ventilator										
	UTZ-BD025C		UTZ-BD035C		UTZ-BD050C		UTZ-BD080C		UTZ-BD100C	
Connectable capacity class (kW)	5.0	6.3	8.0	10.0	12.5	14.0	20.0	25.0	40.0	50.0
DX-Kit for Air Handling Applications for VRF Outdoor Unit										
	EEV unit UTP-VX30A Control unit UTY-VDGX		EEV unit UTP-VX60A Control unit UTY-VDGX		EEV unit UTP-VX90A Control unit UTY-VDGX		EEV unit UTP-VX90A Control unit UTY-VDGX		EEV unit UTP-VX90A×2 Control unit UTY-VDGX	
Connectable capacity class (kW)	3.5 - 22.0									
DX-Kit for Air Handling Applications for Single Split Outdoor Unit										
	UTY-XDZX									

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.



Energy Recovery Ventilator



Energy recovery ventilator unit offers maximum comfort and greater energy savings.

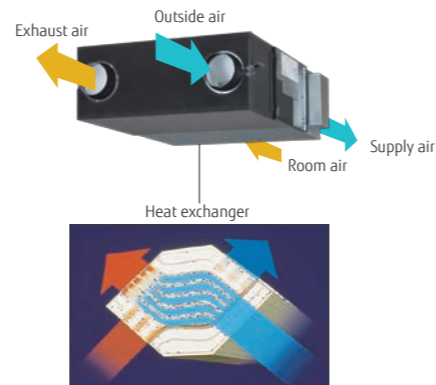
Heat exchange ventilation and normal ventilation

Heat exchange ventilation

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

Normal 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.



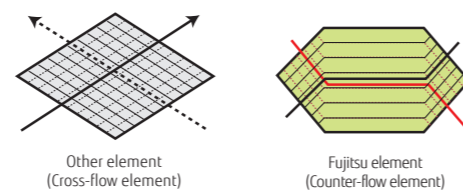
Adopts a highly efficient counter-flow heat exchange element

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 improved.



Quiet operation

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

25.5dB
(UTZ-BD035C)

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

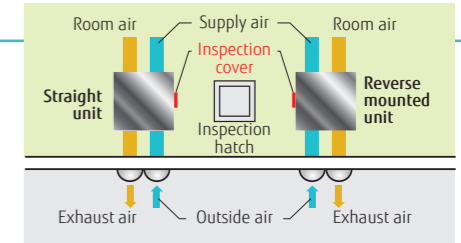
Counter-flow heat exchange element used for reduced noise and slimmer, more compact body shape.



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.



Simple remote operation

Easy operation by connecting a liquid crystal switch

- POWER ON/OFF
- Air volume High/Low
- Heat exchange/Normal Ventilation
- ON/OFF Timer
- Clean filter display



Model : UTZ-BD025C / UTZ-BD035C / UTZ-BD050C / UTZ-BD080C / UTZ-BD100C



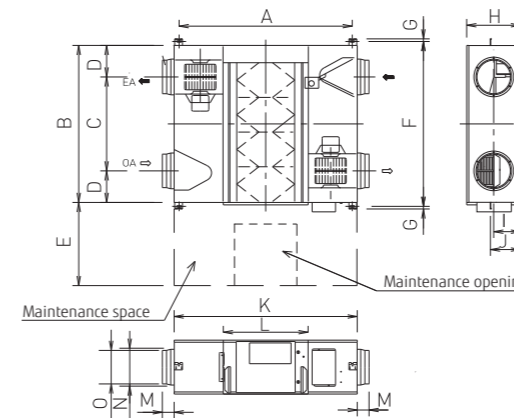
Specifications

Rated flow rate		250 m ³ /h		350 m ³ /h		500 m ³ /h		800 m ³ /h		1000 m ³ /h	
Model No.		UTZ-BD025C		UTZ-BD035C		UTZ-BD050C		UTZ-BD080C		UTZ-BD100C	
Power source		220 - 240 V, 50Hz									
Heat Exchange Ventilation	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	m ³ /h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1,000 / 1,000 / 700			
	External static pressure	(Extra high)/High/Low	Pa	105 / 95 / 45	140 / 60 / 45	120 / 60 / 35	140 / 110 / 55	105 / 80 / 75			
	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			
Normal Ventilation	Sound pressure level	(Extra high)/High/Low	dB*	31.5 / 30.5 / 26.5	33.0/31.0 / 25.5	37.5 / 35.5 / 32.5	37.5 / 37.0 / 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			
	Air flow rate	(Extra high)/High/Low	m ³ /h	250 / 250 / 190	350 / 350 / 240	500 / 500 / 440	800 / 800 / 630	1,000 / 1,000 / 700			
	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	33.0 / 31.0 / 25.5	38.5 / 38.0 / 32.5	37.5 / 37.0 / 34.5	40.5 / 39.5 / 36.5				
Dimensions	W×D×H	mm	882 × 599 × 270	1,050 × 804 × 317	1,090 × 904 × 317	1,322 × 884 × 388	1,322 × 1,134 × 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				

* The noise level must be measured 1.5 m below the center of the unit.

Dimensions

(Unit : mm)



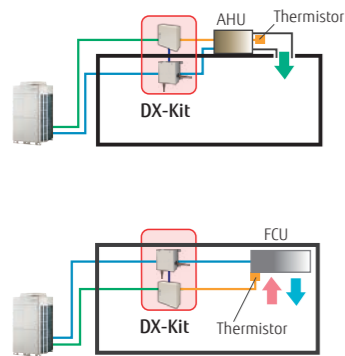
	UTZ-BD025C	UTZ-BD035C	UTZ-BD050C	UTZ-BD080C	UTZ-BD100C
A	810	978	1,018	1,250	1,250
B	599	804	904	884	1,134
C	315	580	640	428	678
D	142	112	132	228	228
E	600	600	600	600	600
F	655	860	960	940	1,190
G	19	19	19	19	19
H	270	317	317	388	388
I	135	159	159	194	194
J	159	182	182	218	218
K	882	1,050	1,090	1,322	1,322
L	414	470	470	612	612
M	95	70	70	85	85
N	Ø164	Ø164	Ø210	Ø258	Ø258
O	Ø144	Ø144	Ø194	Ø242	Ø242

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).

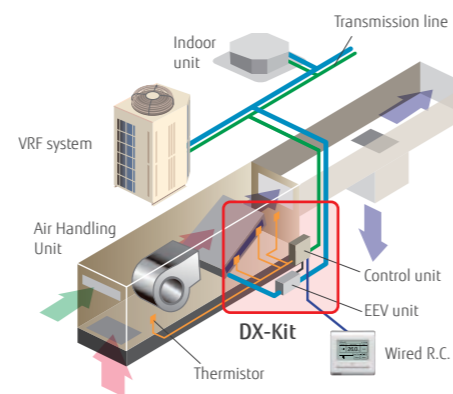
Multiple temperature sensors optimally control the air handling unit and fan coil unit.



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

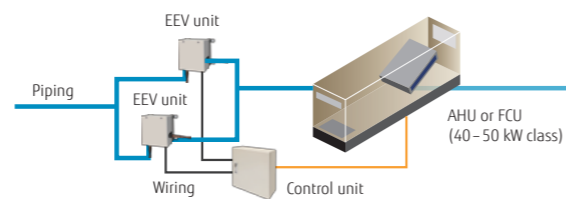
When connecting to a fan coil unit, the room temperature is controlled by the return air temperature sensor.

Arrangement as part of a VRF system



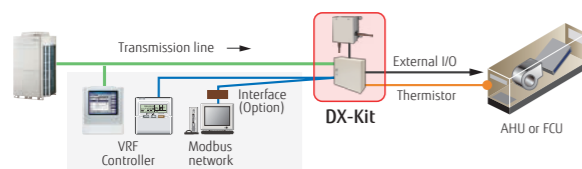
Supports a wide range of capacity classes

- 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

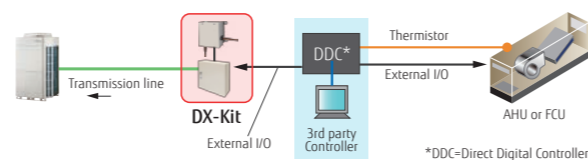


A variety of controls to match the application

Central control using our VRF controllers or central management controllers



Central control from external controllers



*DDC=Direct Digital Controller

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

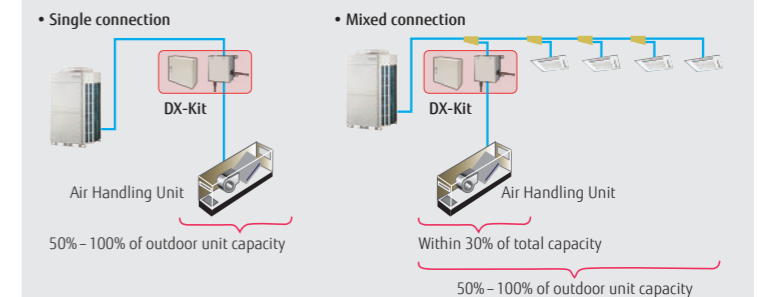
MODBUS® Control

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

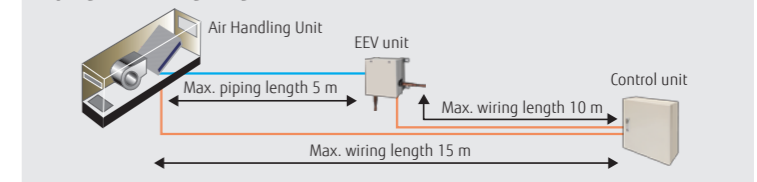
Installation Limitation

- 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



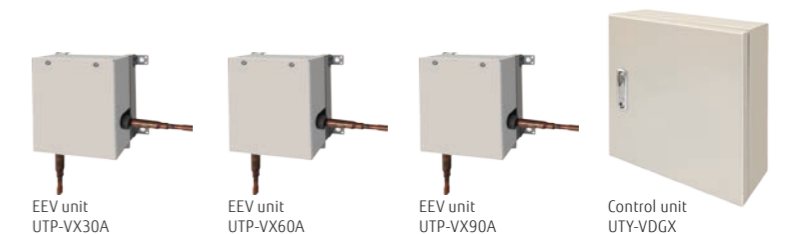
Piping and wiring length



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



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
Capacity	Cooling	5.6	6.3	8.0	10.0	12.5	14.0	22.4	25.0	40.0	50.4
	Heating	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		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)	mm	Ø9.53	Ø12.70	Ø12.70	Ø12.70
Dimensions (H × W × D)	mm	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].

NEW

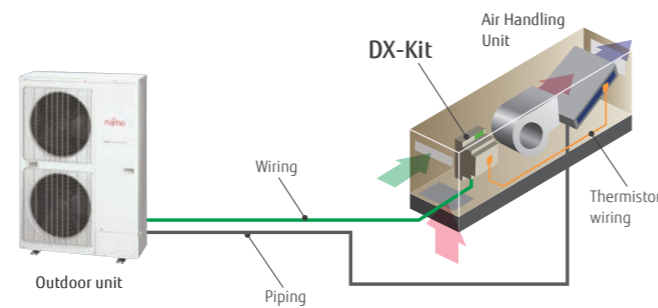
DX-Kit for Air Handling Application for Single Split Outdoor Unit



This kit enables other manufacturers air handling units (AHU) and fan coil units (FCU) to be incorporated into a Fujitsu General Split outdoor unit.

Flexible connectivity

This kit is a control unit to allow connection to third party manufacturer equipment. Fujitsu General single split outdoor units can be used with this control unit, creating an ideal solution when a unique air handling unit is required.



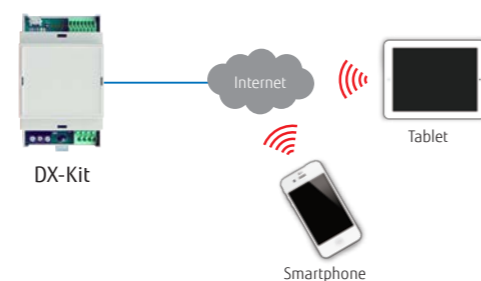
Supports a wide range of capacity class

Connectable large capacity range: 3.5 kW ~ 22.0 kW (Nominal)



Operation from anywhere on your mobile device

Available to use operation and management from remote control such as Smartphones and Tablets



Functions Summary

Inputs

- ON/OFF
- Heating/Cooling operation mode
- Capacity demand (analogue 0-10 V)
- Heat exchanger temperature

Outputs

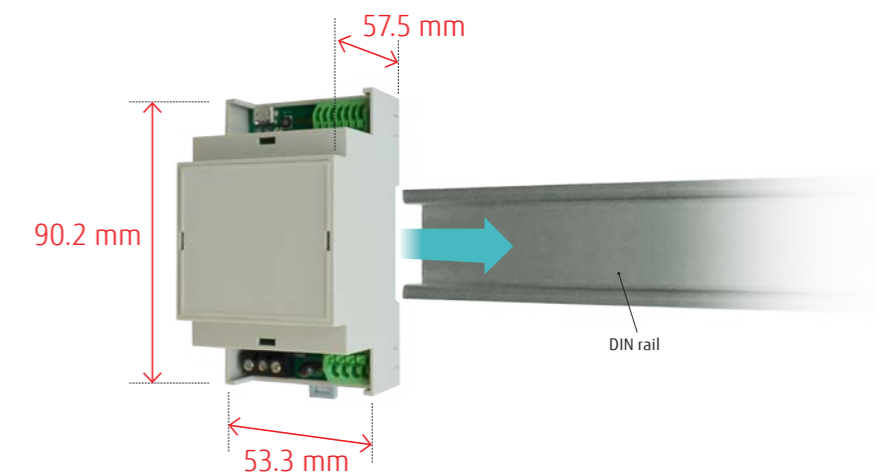
- Status of Compressor, Defrost, Error (Potential free relays)
- LED status indication

Wireless LAN Control

Wireless LAN control with cloud connectivity enables safe remote monitoring and control from anywhere.

Easy installation

- Simple installation through compact DIN rail mountable enclosure
- No need for expansion devise
- No separate external power required



model: UTY-XDZX



Specifications

BTU												
	12	14	18	24	30	36	45	54	60	72	90	
Capacity (Nominal)	Cooling	3.5	4.3	5.2	6.8	8.5	9.4	12.1	13.3	15.0	19.0	22.0
	Heating	4.1	5.0	6.0	7.8	10.0	10.8	13.3	15.8	18.0	22.4	27.0
Model No.	UTY-XDZX											
Power source	V/Ø/Hz 230/1/50											
Dimensions (H × W × D)	mm 90.2 × 53.3 × 57.5											
Weight	g 110											

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: 5.0 m Voltage: 230 [V].